

Haplogroup	pre-5000 BC	5000 BC	4500 BC	4000 BC
A1a				
E-M2				
E-V12				
E-V22				
E-V13				
E-L19				
E-M34				
G-L91				
G-L30				
G-L30>L497				
H2	Z19072*	Z19072*	Z19072*	Z19072*
	Z19072*	Z19072*	Z19072*	Z19072*
I1				

Z58

FT344600 FT344600 FT344600 FT344600*
FT344600*
FT344600*
FT344600>FT34460

L233

M423 V6473 V6473

L1498	L1498>A10029	A10029	A10029
		A10029>A10028	A10028
	L1498>FT27731'	FT27731*	FT27731*
	L1498>FT27731'	FT27731*	FT27731*
	FT27731>Y1299'	12993>BY1236	BY1236
		Y12993>A8742	BY37286
		Y3722	Y3722

I-M436>S255 S2519* S2519* S2519* S2519*

I-M436>M223
 L1229

I-M223>M284 M284>L1195 L1195 L1195 L1195>Y3709

F
F

I-M223>P78

V223>L801/Z170

J1-Z1828
J1-P58

J2b-L283
J2a-L26

J2a-M67

T-M70

Q1a-M25 YP1669 YP1669 YP1669 YP1669

Q1b-L245

R1a-M420

R1a-L664

R1a-Z283

R1a-Z284

R1b-Z2106

R1b-Z2118

R1b-U106

R1b-A8053

R1b-P312>Z30597

R1b-P312>L238

R1b-P312>DF19

R1b-P312>U152

Z193

Z193

Z36

Z36

Z36

L2

L2
L2
L2
L2>Z34
L2>L20
L2>L20
L2>L20
L2>L20
L2>L20
L2>L20

L2>Z49

L2>Z49
L2>Z49

R1b-Z290/L21

DF13

DF13>Z255

DF13>FGC11134

DF13>Z251

DF13>CTS2501

DF13>L1335

DF13>DF1

DF13>Z253

DF13>DF21

DF13>DF49

DF13>>>M222

8

11

13

16

3500 BC

3000 BC

2500 BC

2250 BC

2000 BC

Z46194

Z19072*

Z19072*

Y15581

Y15581

Y15581

Y15581

Y21997	Y21997>Y45216	Y45216	Y45216	Y45216
	Y21997>Y62258	Y62258	Y62258	Y62258

Y36693*	Y36693*	Y36693*	Y36693*	Y36693*
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FT344600*
FT344600*
FT344600*
FT344602*
FT344602*
FT344602*
FT344602*

A10029>FGC7087

A10028	A10028	A10028	A10028	A10028
FT27731*				
FT27731*				
BY1236	BY1236	BY1236	BY1236	BY1236
BY37269	BY37269	BY37269	BY37259	BY37259
		A16983	A16983	A16983
Y3722	Y3722	Y3722	Y3722	Y3722

BY31905

BY37418 BY37418 BY37418

Y143199

Y3709*
Y3709*
Y3709*
Y3709*
Y3709* Y3709*
Y3709* Y3709* Y3709*
Y3709>FT380000 FT380000*
Y3709>FT380000 FT380000*
Y3709>FT380000
FT380000>Y217738
FT380000>Y217738 Y217738
Y3709>BY166007;Y168618>BY16645 BY166450 BY166450 BY166450
Y3709>L1193 L1193*
Y3709>L1193 L1193*
Y3709>L1193 L1193* L1193*
Y3709>L1193 L1193* L1193* L1193*
>L1193>Y3712
>L1193>Y3712 Y3712*
>L1193>Y3712 Y3712*
>L1193>Y3712 Y3712* Y3712*
>>Y3712>Y27463
>>Y3712>Y27463 Y27463>Y3684*
>Y3684>Y3708 Y3708 Y3708 Y3708

Y
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>
,

Y15491 Y15491 Y15491

ZS4887* ZS4887*

YP1669 YP1669 YP1669 YP1669 YP1669

BY12018 BY12018 BY12018 BY12018

FT95324

FT95324

FT95324

BY32362*

L20*
L20*
L20>FT20578

Y5058

Y5058

Y172145 Y172145 Y172145

S1011>A1101>A1105
S1011>BY173541
Y18513>BY203122

Y9089

PH821

Z255

Z17662*

CTS2501>Y5627

CTS2501>Y3515

DF1>DF1a*

DF1>DF1a>Z23534

F
F

Z253>FGC73657>Y1350C

Z253>A10982
Z253>FGC3268>BY4343C

Z253>S844

Z253>L226

Z253>Z2185>A7031

Z253>Z2185>Z2186>Z218
>>Z2186>Z2183>BY2707

DF21>Y11789

DF21>Z16267>Z3021*
DF21>Z16267>Z3021>A50

DF21>>>DF25>Y23187

DF21>>DF25>DF5>L1403

DF21>>DF25>DF5>Y3293

DF49>Z2980>ZP221
>Z2980>>DF23>ZP149

>Z2980>>DF23>Z2961*

>Z2961>S645>Z2965>M22

41

25

21

20

55

1750 BC

1500 BC

1250 BC

1000 BC

750 BC

Y3183

Y3183

S24513
Y3183

S24513
Y3183

Y93022

Y93022

S20738
Z46194

S20738
Z46194

S20738
Z46194
Y216281

FGC37724*
S20738
Z46194
Y216281

FGC37724*
S20738
Z46194
Y216281

Y21609*

Y21609*

BY119143

BY119143

Y20389*

Y20389*

FGC69701

FGC69701

FGC69701

FGC69701

Y15581>Y25784	Y25784	Y25784	Y25784	Y25784
Y45216	Y45216	Y45216	Y45216	Y45216
Y62258	Y62258	BY37467	Y61015	Y61015
Y36693*	Y36693*	Y36693*	Y21971* Y36693*	Y21971* Y36693*

A10028	A10028	A10028	A10028*	A10028*
BY1236	BY1236	BY1236	BY1236	BY1236*
BY37259	BY37259	BY37259	BY37259	BY37259
A16983	A16983	A16983	A16983	A16983
Y3722>Y20866	Y20866	Y20866	Y20866	Y20866
Y3722>Y69224	Y69224	Y69224	Y69224	Y69224
Y3722>FGC7193	FGC7193	FGC7193*	FGC7193*	FGC7193*
		FGC7193>Y3734	Y3734>FGC14453	FGC14453>Y5450

Y3734>FGC7163 FGC7163>Y4660

BY31905	BY31905	BY31905	BY31905	BY31905
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BY37418

BY37418

BY37418

BY37418

BY37418

Y143199

Y100095

Y100095

Y100095

Y100095

Y29664

Y29664

Y29664

BY166450

BY166450

BY166450

BY166450

BY166450

Y3708>B293
'3708>Y6028>BY6869

B293
BY68692

B293*
BY68692

B293*
BY68692

B293*
BY68692

>Y6028>Y6021>Y5996

Y5996

Y5996

Y5996

Y5996

Y6028>Y6021>Y8828
Y3708>Y6028>Y20863

Y88283
Y20863

Y88283
Y20863

Y88283
Y20863

Y88283
Y20863

	Y128315	Y128315	Y128315	Y128315
			Y162102	Y162102
Y15491	Y15491	Y15491	Y15491	Y15491
	Y65895*	Y65895*	Y65895*	Y65895*
		Y19161*	Y19161*	Y19161*
ZS4887*	ZS4887*	ZS4887*	ZS4887*	ZS4887*
	Y164301	Y164301	Y164301	Y164301
	SK1342*	SK1342*	SK1342*	SK1342*
		Y26649*	Y26649*	Y26649*
YP1669	YP1669	YP1669	YP1669	YP1669

BY66900

BY66900

BY66900

BY132099

BY132099

BY12018

BY12018

BY12018

BY12018

BY12018

FT368590

A7172

A7172

A7172

A7172

A7172

Y128031 Y128031 Y128031 Y128031 Y128031

BY35150 BY35150

FT5627 FT5627

BY13790

S1732

FT17065 FT17065 FT17065 FT17065

Y2637* Y2637*

FT95324 FT95324 FT95324 FT95324 FT95324

Z29460* Z29460*

V2488* V2488*

BY32362* BY32362* BY32362* BY32362* BY32362*

Y52697	Y52697	Y52697	Y52697	Y52697
L20*	L20*	L20*	L20*	L20*
L20*	L20*	L20*	L20*	L20*
FT20578	FT20578	FT20578	FT20578	FT20578
	BY49903	BY49903	BY49903	BY49903

			Y140972	Y140972
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Y86791	Y86791	Y86791	Y86791	Y86791
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Y18001	Y18001	Y18001	Y18001	Y18001
Y5058	Y5058	Y5058	Y5058	Y5058

			Y48060*	Y48060*
	FT66126	FT66126	FT66126	FT66126
A477>Y31296	Y31296	Y31296	Y31296	Y31296
		Z208*	Z208*	Z208*
	Z1513	Z1513	Z1513	Z1513
			Y28672*	Y28672*
Y172145	Y172145	Y172145	Y172145	Y172145
BY33516	BY33516	BY33516	BY33516	BY33516
BY173541	BY173557	BY173557	BY173557	BY173557
BY203122	BY203122	BY203122	BY203122	BY203122
	Z17969*	Z17969*	Z17969*	Z17969*
	BY10462	BY10462	BY10462	BY10462
Y9089	Y9089	Y9089	Y9089	Y9089
PH821	PH821	PH821	PH821	PH821
	A1495	A1495	A1495	A1495

Z255

Z255

Z255

Z255

Z255

A286
FGC11293
A9871>Y23188

A286
BY23383*
Y23188

A286
BY23383*
Y23188

A286
BY23383*
Y23188

A286
BY23383*
Y23188

A114>CTS4466

CTS4466

CTS4466

Z17662*	Y7624* Z17662*	Y7624* Z17662*	Y7624* Z17662* BY3972	Y7624* Z17662* BY3972>BY60915 BY3972>FGC5963:
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Y5627	Y5627	L555 Y5627	L555 Y5627	L555 Y5627
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Y3515	Y3515	Y3515	Y3515	Y3515
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DF1a* Z23534	DF1a* Z23534	DF1a* Z23534	DF1a* Z23534	DF1a* Z23534
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=GC11802>FGC3220E	FGC32205	FGC32205	GC32205>FGC3220	FGC32200
=GC11802>FGC1180E	FGC11803	FGC11803	FGC11803	FGC11803

FGC9780	FGC9780	FGC9780	FGC9780
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Y13500	Y13500	Y13500	Y13500	Y13500
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A10982	A10982	A10982*	A10982*	A10982*
BY43439>L554	L554	L554	L554	L554

S844	S844	S844	S844	S844
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L226	L226	FGC8284*	FGC8284*	FGC8284*
		L226	L226	L226

A7031

A7031

A7031

A7031

A7031

Z2183>BY14539
BY2707>BY414

BY14539
BY414
FGC23702*

BY14539
BY414
FGC23702*

BY14539
BY414
FGC23702*

BY14539
BY414
FGC23702*

Y11789

Y11789

Y11789

Y11789

Y11789

Z3021*
A50

Z3021*
A50

Z3021*
A50

Z3021*
A50

Z3021*
A50

Y23187>S6168	S6168	S6168	S6168	S6168
L1403	L1403	L1403	L1403	L1403>A5409 L1403>L1402
Y32937	Y32937>Y9367;Y9595>BY11436		BY11436	BY11436
	Y9367>L658	L658	L658	L658
Y88710>FT36567	FT36567	FT36567	FT36567	FT36567
	BY11117>Y15090	Y15090	Y15090	Y15090
L1336	L1336	L1336	L1336	L1336
		BY19389 Y24868*	BY19389 Y24868* Y17454	BY634 BY19389 Y24868* Y17454
	BY24322	BY24322	BY24322	BY24322

ZP221	ZP221	ZP221	ZP221	ZP221>BY102381
ZP149>ZP171	ZP171	ZP171	ZP171	ZP171
ZP149>Y22142	Y22142>Y22135	Y22135	Y22135	Y22135

Z2961*	Z2961*	Z2961*	Z2961*	Z2961*
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BY39919	BY39919	BY39919	BY39919	BY39919
BY3437	BY3437	BY3437	BY3437	BY3437

M222	M222	M222	M222	M222
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79

99

111

130

136

500 BC	250 BC	1 AD Y37658	250 AD Y37658
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FT16711

BY14150	BY14150	BY14150	BY14150
BY4518	BY4518	BY4518	BY4518
S24513	S24513	S24513	S24513
Y3183	Y3183	Y3183	Y3183
			A8460
Y93022	Y93022	Y93022	Y93022

FGC22844 FGC22844

FGC37724*	FGC37724*	FGC37724*	FGC37724*
S20738	S20738	S20738	S20738
Z46194	Z46194	Z46194	Z46194
Y216281	Y216281	Y216281	Y216281

Y21609*	Y21609*	Y21609*	Y21609*
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Y17387

			Y15036*
	BY102685	BY102685	BY102685

FGC21612*	FGC21612*	FGC21612*	FGC21612*
GC21612>BY2000	BY20000	BY20000	BY20000
			Z12455
	Y14227*	Y14227*	Y14227*
			FTB22422
BY119143	BY119143	BY119143	BY119143
M6003*	M6003*	M6003*	M6003*
			Y84570
			Y66219
Y20389*	Y20389*	Y20389*	Y20389*
A13745	A13745	A13745	A13745
		Y16458*	Y16458*
FGC69701	FGC69701*	FGC69701*	FGC69701*
	FGC69701>70	FGC69702	FGC69702*
			FT56290
	Y153759*	Y153759*	Y153759*
			SHTR13*
			Y216313
<hr/>			
Y47373	Y47373	Y47373	Y47373

Y25784	Y25784	Y25784	Y25784
Y45216	Y45216	Y45216*	Y45216*
		Y45216*	Y45216*
Y61015	Y61015	Y61015	Y61015
Y21971*	Y21971*	Y21971*	Y21971*
Y36693*	Y36693*	Y36693*	Y36693*

Y86483
BY117344*

A7111*
Y32657>Y38919
Y32657>Y36128

FGC39003
A13665

A10028* A10028* A10028* A10028*

BY1236* BY1236* BY1236* BY1236*
BY37259 BY37259 BY37259 BY37259
A16983 A16983 A16983 A16983
Y20866 Y20866 Y20866 Y20866
Y69224 Y69224 Y69224 Y69224

FGC7193* FGC7193* FGC7193* FGC7193*
Y5450 Y5450 Y5450* Y5450*
Y5450>Y18393 Y18393>Y44821
Y18393>A12374

Y5450>Y5452 Y5452

Y4660 Y4660 Y4660 Y4660

BY31905 BY31905 BY31905 BY31905

BY37418

BY37418

BY37418

BY37418

BY14023*

Y100095

Y100095

Y100095
FGC57449*

Y100095
FGC57449*

Y29664

Y29664

Y29664

Y29664
Y13321*

BY166450

BY166450

BY166450

BY166450

B293*
BY68692

B293*
BY68692

B293*
BY68692

B293*
BY68692

Y5996

Y5996

Y5996

Y5996

Y88283
Y20863

Y88283*
Y20863

Y88283*
Y20863

Y88283*
Y20863

Y83984

Y128315	Y128315	Y128315	Y128315
Y162102	Y162102	Y162102	Y162102
Y15491	Y15491	Y15491	Y15491
Y65895*	Y65895*	Y65895*	Y65895*
	Y84255*	Y84255*	Y84255*
Y23701	Y23701	Y23701	Y23701
Y36100*	Y36100*	Y36100*	Y36100*
FT377356*	FT377356*	FT377356*	FT377356*
Y19161*	Y19161*	Y19161*	Y19161*
Y49919*	Y49919*	Y49919*	Y49919*
		Y255684*	Y255684*
	FT107281	FT107281	FT107281
			Y7273*
ZS4887*	ZS4887*	ZS4887*	ZS4887*
ZS4837*	ZS4837*	ZS4837*	ZS4837*
Y29723	Y29723	Y29723	Y29723
Y164301	Y164301	Y164301	Y164301
SK1342*	SK1342*	SK1342*	SK1342*
Y26649*	Y26649*	Y26649*	Y26649*
YP1669	YP1669	YP1669	YP1669

BY66900

BY66900

BY66900

BY66900

Y102211

YP5894

YP5894

BY62075*

BY62075*

BY132099

BY132099

BY132099

BY132099

BY12018

BY12018

BY12018

BY12018

FT368590

FT368590

FT368590

FT368590

A7172

A7172

FT424364
A7172

Y137421
A7172
A9845

	BY18859*	BY18859*	BY18859* FGC13167 BY128969 Y128031
Y128031	Y128031	Y128031	Y128031
Y13174*	Y13174*	Y13174*	Y13174*
BY35150	BY35150	BY35150	BY35150
FGC12770*	FGC12770*	FGC12770*	FGC12770*
		FGC30244	FGC30244
FT5627	FT5627	FT5627	FT5627
Y100655	Y100655	Y100655	Y100655
BY13790	BY13790 FT14140	BY13790 FT14140	BY13790 FT14140
S1732	S1732	S1732	S1732
S16218*	S16218*	S16218*	S16218*
FT17065	FT17065	FT17065	FT17065
S22748*	S22748*	S22748*	S22748*
Y2637*	Y2637*	Y2637*	Y2637*
FT95324	FT95324 FT112746*	FT95324 FT112746*	FT95324 FT112746*
Z29460*	Z29460*	Z29460*	Z29460*
V2488*	V2488*	V2488*	V2488*
BY32362*	BY32362*	BY32362*	BY32362*

FT59110*	FT59110*	FT59110*	FT59110*
Y52697	Y52697	Y52697	Y52697

L20*	L20*	L20*	L20*
L20*	L20*	L20*	L20*
FT20578	FT20578	FT20578	FT20578
BY49903	BY49903	BY49903	BY49903

		Y36362	Y36362
Y140972	Y140972	Y140972	BY101588

Y86791	Y86791	Y86791	Y86791
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	S6219*	S6219*	S6219*
Y18001	Y18001	Y18001	Y18001
Y5058	Y5058	Y5058	Y5058

Y48060*	Y48060*	Y48060*	FGC17071* Y48060*
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FT66126	FT66126	FT66126	FT66126
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Y31296	Y31296	Y31296	BY3194* Y31296
Y297386	Y297386	Y297386	Y297386
Z208*	Z208*	Z208*	Z208*
		BY50737*	BY50737*
Z1513	Z1513	Z1513	Z1513

Y28672*	Y28672*	Y28672*	Y28672*
Y172145	Y172145	Y172145	Y172145

		FGC52350*	FGC52350*
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BY33516	BY33516	BY33516	BY33516
BY173557	BY173557	BY173557	BY173557
BY203122	BY203122	BY203122	BY203122
Z17969*	Z17969*	Z17969*	Z17969*

BY10462	BY10462	FGC20613	FGC20613
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Y9089	Y23251	Y23251	Y23251
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PH821	PH821	PH821	PH821
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A1495	A1495	A1495	A1495
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Z255

Z255

Z255

Z255

Z

Z

A286
BY23383*
Y23188

A286
BY23383*
Y23188

A286
BY23383*
Y23188

A286
BY23383*
Y23188>BY34901
Y23188>FGC54808

CTS4466

CTS4466

CTS4466

CTS4466>A212>A7699
CTS4466>A541*
CTS4466>A541>BY19775

CTS4466>A541>A195

CTS4466>A541>S1121>Z165

CTS4466>A541>S1121>Y623

Y7624*	Y7624*	Y7624*	Y7624*
Z17662*	Z17662*	Z17662*	Z17662*
BY60915	BY60915	BY60915	BY60915
FGC59632	FGC59632	FGC59632	FGC59632

L555	L555	L555	L555
Y5627	Y5627	Y5627	Y5627

Y3515	Y3515	Y3515	Y3515
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Y88539

DF1a*	DF1a*	DF1a*	DF1a*
Z23534	Z23534	Z23534	Z23534

FGC32200 FGC11803	FGC32200 FGC11803	FGC32200 FGC11803	FGC32200 FGC11803* FGC11803>BY92814
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BY184

FGC9780	FGC9780	FGC9780	FGC9780
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Z18493	Z18493	Z18493	Z18493
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ZS4581>Z17817

Y13500	Y13500	Y13500	Y13500
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A10982* L554 S844	A10982* L554 S844	A10982* L554 BY23575* S844	A10982* L554 BY23575* S844>L1308 S844>S845
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Y.

S
S

FGC8284* L226	FGC8284* L226	FGC8284* L226	FGC8284* L226
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A7031

A7031

A7031

A7031

BY14539
BY414
FGC23702*

BY14539
BY414
FGC23702*
BY3930

BY14539
BY414
FGC23702*
BY3930

BY14539
BY414
FGC23702*
BY3930

Y11789
ZS4595

Y11789
ZS4595

Y11789>Z29558
ZS4595

Z29558>Y20358
ZS4595

Z3021*
A50

Z3021*
A50

Z3021*
A50>Z3006

Z3021*
Z3006>Z3008

S6168>S6185	S6185	S6185	S6185
A5409	A5409	A5409*	A5409*
L1402	L1402	L1402	L1402

BY11436	BY11436	BY11436	BY11436
L658	L658	L658	L658

FT36567	FT36567	FT36567	FT36567
Y15090	Y15090	Y15090>BY63935	BY63935
		Y15090>S20620	S20620
L1336	L1336	L1336	L1336
		FGC34088	FGC34088
BY634	BY634	BY634	BY634
BY19389	BY19389	BY19389	BY19389
Y24868*	Y24868*	Y24868*	Y24868*
Y17454>Z16291	Z16291	Z16291	Z16291

Z

Z:

Z:

BY24322	BY24322	BY24322	BY24322
		BY23885	BY23885

BY102381	BY102381	BY102381	BY102381
ZP171	ZP171	ZP171	ZP171>Y103496
Y22135	Y22135	Y22135	Y22135

Z2961*	Z2961*	Z2961*	Z2961*
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BY39919	BY39919*	BY39919*	BY39919*
BY3437	BY3437	BY3437	BY3437

M222	M222	M222>A7362	A7362
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M222>S568>FGC440	FGC440
>S568>A10857*	A10857*
>S568>A10857>Y6252	Y62520

M222>Y2605	Y2605>Y3454*
	Y2605>Y3454>FGC85493

Y2605>Y3454>A275>BY2122
Y2605>Y3454>A275>A275a

>>A275>FGC37611

>>A275>A11360

Y2605>Y2841>DF104>FT1446
>>DF104>DF109*
>>DF104>DF109>BY35731
>>DF104>DF109>BY50870
>>DF104>DF109>Y324364
>>DF104>DF109>FT27858
>>DF104>DF109>ZS8379

>>DF104>DF109>FGC23742

>>DF104>DF109>Y3645

>>DF104>DF109>S588

>>DF104>DF109>A18726

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>>DF104>DF109>DF85*
>>DF104>DF109>DF85*
>>DF104>DF109>DF85*
>>DF104>DF109>DF85*
>>>>DF85>BY35718
>>>>DF85>FGC71318
>>>>DF85>S673

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>
>
>

S

157

168

191

254

500 AD	750 AD	1000 AD
Y37658	Y37658	Y37658
	BY75028	BY75028
		BY75028>Y127007>FT405608
		BY75028>Y127007>E90150>FTA97
FT99807	FT99807	FT99807
	Y30971	Y30971
BY14150	BY14150	BY14150
BY4518	BY4518	BY4518
S24513	S24513	S24513
Y3183	Y3183	Y3183
A8460	A8460	A8460
Y93022	Y93022	Y93022
FGC22844	FGC22844	FGC22844
BY172114	BY172114	BY172114
FGC37724*	FGC37724*	FGC37724*
S20738	S20738	S20738
Z46194	Z46194	Z46194
Y216667	Y216667	Y216667
	Y31000*	Y31000*
Y21609*	Y21609*	Y21609*
	CTS9889*	CTS9889*
Y17387	Y17387	Y17387
Y15036*	Y15036*	FGC54042*
BY102685	BY102685	Y15036*
		BY102685
		Y47647*

FGC21612*	FGC21612*	FGC21612*
BY20000	BY20000	BY20000
Z12455	Z12455	Z12455
Y14227*	Y14227*	Y14227*
	BY35251*	BY35251*
FTB22422	FTB22422	FTB22422
BY119143	BY119143	BY119143
M6003*	M6003*	M6003*
Y128180	Y128180	Y128180
		Y80329*
Y84570	Y84570	Y84570
Y66219	Y72731	Y72731
Y20389*	Y20389*	Y20389*
A13745*	A13745*	A13745*
A13745*	A13745*	A13745*
Y16458*	Y16458*	Y16458*
FGC69701*	FGC69701*	FGC69701*
FGC69702*	FGC69702*	FGC69702*
FGC35283*	FGC35283*	FGC35283*
	FT19394*	FT19394*
A18176	A18176	A18176
Y132049*	Y132049*	Y132049*
Y153759*	Y153759*	Y153759*
		Y52565
SHTR13*	SHTR13*	SHTR13*
		A13242
Y216313	Y216313	Y216313
	A18483*	A18483*
Y47373	Y47373	Y47373*
		Y47373*

Y25784	Y25784>PH3133 Y25784>Y63713	Y47373* PH3133 Y63713
Y45216* Y45216* Y61015	Y45216* Y45216* Y61015	Y45216* Y45216* Y61015
Y21971* Y36693* FT137670	Y44831* Y21971* Y36693* FT137670	Y44831* Y21971* Y36693* FT137670

Y86483 BY117344* A417* A417* A7111* Y38919* Y36128	Y86483 BY117344* A417* A417* A7111* Y38919* Y36128	Y86483 BY117344* A417* A417* A7111* Y38919* Y36128
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FGC39003 A13665	FGC39003 Y31631*	FGC39003 Y31631*
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Y31631>A13664

A13664*
A13664>A14359

A10028*	A10028*	A10028*
BY1236*	BY1236*	BY1236*
BY37259	BY37259	BY37259
A16983	A16983	A16983
Y20866	Y20866	Y20866
Y69224*	Y69224*	Y69224*
Y69224>BY37518	Y262495	FTA94677
FGC7193*	FGC7193*	FGC7193*
Y5450*	Y5450*	Y5450*
Y44821	Y44821	Y44821
A12374>BY37223	BY37223*	BY37223*
	BY37223*	BY37223*
	BY37223>Y63687	Y63687
Y5452*	Y5452*	Y5452*
Y5452>Y5453	Y5453*	Y5453*
	Y5453>Y5451*	Y5451*
	Y5453>Y5451>Y39012	Y39012*
	Y5453>Y5451>FGC14463	FGC14463
	Y5453>Y5451>Y128131	Y128131*
	Y5453>Y5451>Y128131	Y128027
Y4660	Y4660*	Y4660*
	Y4660>FGC14721	FGC14721
	Y4660>Y5280>FGC7210	FGC7210>FGC7198
	Y5280>Y21537>BY180053	BY180053
	Y5280>Y21537>BY136251	BY136251*
		BY136251>FT256148
	Y4660>Y5280>A14890	A14890
BY31905>BY89974	BY89974	BY89974

BY31905>Y66580	Y66580>Y60783	Y60783
BY37418	BY37418	BY37418* BY37418>BY44940
BY14023*	BY14023*	BY14023*
Y100095	Y100095	Y100095
FGC57449*	FGC57449*	FGC57449*
Y29664	Y29664	Y29664
Y13321*	Y13321*	Y13321*

BY166450	BY166450	BY166450
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B293*	B293*	B293*
BY68692>BY28902	BY28902	BY28902
BY68692>FT30350	FT30350	FT30350
Y5996	Y5996	Y5996

Y88283*	Y88283*	Y88283*
Y20863	Y20863	Y20863

Y83984	Y83984	Y83984
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Y36593>BY136377

Y4142>Y4751*	Y4751*	Y4751*
Y4751>Y72806	Y72806	Y72806
Y4751>Y85612	Y85612	Y85612
Y4751>Y139236	Y139236	Y139236
Y4751>Y12714>Y12339	Y12339	Y12339
Y4751>Y139612	Y139612>Y139609	Y139609
Y4751>Y21729	Y21729	Y21729
Y4751>Y31615	Y31615*	Y31615*
	Y31615*	Y31615*
	Y31615>Y40418	Y40418*
		Y40418*
Y4751>BY3610	BY3610>Y63570	Y63570
Y4751>Y36135	Y36135*	Y36135*
	Y36135>Y141060	Y141060
Y4751>Y10657	Y10657	Y10657>Y29626
		Y10657>Y29627
4751>Y140579>FT9752	FT97521	FT97521
4751>Y140579>Y14058	BY54878>BY60810	BY60810*
Y4751>Y33770	Y33770	Y33770>Y34393>BY19883
Y4751>Y4752	Y4752>YP6208	YP6208>Y36143
	Y4752>Y19693*	Y19693*
	Y4752>Y19693*	Y19693*
	Y4752>Y19693>Y23144	Y23144
	Y4752>Y4750	Y4750>Y5673*
		Y4750>Y5673>BY3818>BY19877
		Y4750>BY3819
		Y4750>Y11858
		Y4750>Y8599

Y128315	Y128315	Y128315
Y162102	Y162102	Y162102
Y15491	Y15491	Y15491
Y65895*	Y65895*	Y65895*
Y31091>BY25870	BY25870	BY25870
Y11762*	Y11762*	Y11762*
Y84255*	Y84255*	Y84255*
		BY157642>FT240454>FT239880
Y23701	Y23701	Y23701
Y36100*	Y36100*	Y36100*
		Y39930*
FT377356*	FT377356*	FT377356*
Y19161*	Y19161*	Y19161*
Y49919*	Y49919*	Y49919*
Y13948>Y46108	Y46108	Y46108
		Y38763*
Y255684*	Y255684*	Y255684*
FT107281	FT107281	FT107281
Y7273*	Y7273*	Y7273*
ZS4887*	ZS4887*	ZS4887*
ZS4837*	ZS4837*	ZS4837*
		Z18183*
Y29723	Y29723	Y29723
Y164301	Y164301	Y164301
		FGC45713
		FGC45713>FGC43538
SK1342*	SK1342*	SK1342*
Y26649*	Y26649*	Y26649*
YP1669	YP1669	YP1669

BY66900 Y2200*	BY66900 Y2200*	BY66900 Y2200*
		YP5624 (1100 yBP aDNA)
		YP6488
YP6286	YP6286	YP6286
Y102211	Y102211	Y102211
		YP6042*
	S3237*	S3237*
YP1120*	YP1120*	YP1120*
YP5894	YP5894	YP5894
		YP5244*
		YP984>BY15853
		YP984>YP1415
		YP984>YP983
BY62075*	BY62075*	BY62075*
	Y32822*	Y32822*
BY132099	BY132099	BY132099
		B'
BY12018	BY12018	BY12018
FT368590	FT368590	FT368590
		BY71612*
Y137421	Y137421	Y137404
A7172	A7172	A7172
A9845	A9845*	A9845*

A9845>Y32805

Y32805

BY18859*
FGC13167
BY128969
Y128031

BY18859*
FGC13167
BY128969
Y128031

BY18859*
FGC13167
BY128969
Y128031

Y13174*
FGC13612*
BY35150

Y13174*
FGC13612*
BY35150

Y13174*
FGC13612*
BY35150

FGC12770*

FGC12770*

FGC12770*

Y137011*
FGC30244
FT5627
Y100655

Y137011*
FGC30244
FT5627
Y100655

Y137011*
FGC30244
FT5627
Y100655

BY13790
FT14140

BY13790
FT14140

BY13790
FT14140

S1732
S16218*

S1732
S16218*

S1732
S16218*

FGC37088

FT17065

FT17065

FT17065

S22748*

S22748*

S22748*

Y2637*
Z17121*

Y2637*
Z17121*

Y2637*
Z17121*

FT95324
FT112746*
Z29460*
V2488*
BY32362*

FT95324
FT112746*
Z29460*
V2488*
BY32362*
Y24953*

FT95324
FT112746*
Z29460*
V2488*
BY32362*
Y24953*

FT59110*
Y52697

FT59110*
Y52697*
Y52697>Y55016

FT59110*
Y52697*
Y55016

L20*
L20*
FT20578
BY49903

L20*
L20*
FT20578
BY49903

L20*
L20*
FT20578
BY49903

Y36362
BY101588

Y36362
BY101588

Y36362
BY101588

Y86791

Y86791

Y86791

S6219*
Y18001
Y5058

S6219*
Y18001
Y5058
Y5058>Y19623
Y5058>PH5187

S6219*
Y18001
Y5058*
Y5058*
Y5058*
Y19623
PH5187*
PH5187>Y253271

BY114410*
BY21579

BY114410*
BY21579

BY114410*
BY21579

Y17484

FGC11414*
Y17484

FGC11414*
Y17484

FGC17071*	FGC17071*	FGC17071*
Y48060*	Y48060*	Y48060*
		M428*
		M428>BY34206
		Y81507
FT66126	FT66126	FT66126
BY3194*	BY3194*	BY3194*
Y31296	Y31296	Y31296
Y297386	Y297386	Y297386
Z208*	Z208*	Z208*
BY50737*	BY50737*	BY50737*
Z1513	Z1513	Z1513
FGC69542	A21073	A21073
BY19276*	BY19276*	BY19276*
Y28672*	Y28672*	Y28672*
Y172145	Y172145	Y172145
FGC52350*	FGC52350*	FGC52350*
		BY9000*
BY33516	BY33516	BY33516
BY173557	BY173557	BY173557
BY203122	BY203122	BY203122
Z17969*	Z17969*	Z17969*
	S22219	S22219
FGC20613	FGC20613	FGC20613
		FGC41194
		FGC46958*
Y23252	Y23252	Y23252
	Y31855*	Y31855*
PH821	PH821>FGC52725	FGC52725
	PH821>Y22134	Y22134
A1495	A1495	A1495*

		A1495>A1506
		A1495>A1506
Z255>A8450	A8450*	A8450*
Z255>A8450>A13219	A13219	A13219
Z255>Z16434>Y17449	Y17449	Y17448
Z255>Z16434>FT12450	BY2851*	BY2851*
	BY2851*	BY2851*
Z255>Y17109	Y17109*	Y17109*
Z255>Y17109>BY17004	BY170041	Y307752
Z255>Y17109>Z16436	Z16444	Z16444
Z255>Y17109>A557	Y11498>A10889	A10889
	Y11498>BY38384	BY38384
Z255>Y17109>Y17108	Y17108	Y17108
Z255>Y16467*	Y16467*	Y16467*
Z255>Y16467*	Y16467*	Y16467*
Z255>Y16467>A10318	A10318*	A10318*
Z255>Y16467>A10639	A10639	A10639
Z255>Y16467>BY2680	BY2680	BY2680

Z255>Y16467>Y12458	Y12458>BY2573	BY2573
	Y12458>Z16431	Z16431*
		Z16431>A7945
	Y12458>Y13226	Y13226

A286	A286	A286
BY23383*	BY23383*	BY23383*
BY34901*	BY34901*	BY34901*
FGC54808>FGC54816*	FGC54816*	FGC54816*
FGC54808>FGC54816*	FGC54816*	FGC54816*
A7699	A7699	A7699
A541*	A541*	A541*
BY19775	BY19775	BY19775*
		BY19775*
A195	A195>BY44161	BY44161
	A195>A1338>A1337	A1337
	A195>A88>Z16259	Z16259*
	A195>Z16259>Y21048	Y21048
Z16520	Z16520	BY132433

Y6238>FGC29280 Y6238>Y18975	FGC29280 Y18975	FGC29280>S1126 Y18975* Y18975>FGC29058 Y18975>A807
Y6238>A159>BY24005 Y6238>A159>Z17981	BY24005 Z17981* Z17981>A923	BY24005>Y154732 Z17981* BY21614>Y105390
Y7624* Z17662* BY60915 FGC59632	Y7624* Z17662* BY60915 FGC59632	Y7624* Z17662* BY60915 FGC59632
L555 Y5627	L555 Y5627* Y5627* Y5627>Y5626	L555 Y5627* Y5627* Y5626
Y3515	Y3515 Y5655*	Y3515 Y5655*
	Y23191* Y23191>FGC32556	FGC51749 Y22229* Y23191* FGC32556
Y88539 S744*	Y88539 S744* Y22159>Y106405 Y22159>Z38412	Y88539 S744* Y106405 Z38412
DF1a* Z23534	DF1a* Z23534	DF1a* Z23534 BY2924

FGC32200	FGC32200	FGC32200
FGC11803*	FGC11803*	FGC11803*
BY92814	BY92814	BY92814
S8124	S8124*	S8124*
	S8124*	S8124*
BY184*	BY184*	BY184*
BY184>BY182*	BY182*	BY182*
		Y90816
FGC9780	FGC9780*	FGC9780*
	FGC9780>FGC9775	FGC9775

Z18493	Z18493*	Z18493*
	Z18493*	Z18493*
		A1069*
Z17817*	Z17817*	Z17817*
	BY2634*	BY2634*

Y13500*	Y13500*	Y13500*
Y13500>FGC17450	FGC17450*	FGC17450*
	FGC17450>A14170	A14170
13500>Y13501>BY1312	BY13125>FT291097	FT291097
A10982*	A10982*	A10982*
L554	L554	L554
BY23575*	BY23575*	BY23575*
L1308	L1308*	L1308*
S845*	S845*	S845*
S845>Y14298*	Y14298*	Y14298*
S845>Y14298>A17994*	A17994*	A17994*
S845>Y14298>A17994*	A17994*	A17994*
S845>Y14298>A17994*	A17994*	A17994*
S845>Y14298>AMM336	AMM336*	AMM336*
S845>Y14298>AMM336	AMM336*	AMM336*
>>AMM336>FGC20562	FGC20562>Y57086	Y57086
FGC8284*	FGC8284*	FGC8284*
L226>FGC5660	FGC5660*	FGC5660*

	FGC5660*	FGC5660*
	FGC5660>DC8	DC8>DC135>DC134
	FGC5660>FT37203	FT37203
	FGC5660>DC63	DC63*
		DC63*
		DC63>DC29
	FGC5660>Y4010	Y4010>Y14087*
		Y4010>Y14087>DC53
		Y4010>Y40477
		Y4010>FGC5659>DC45
		Y4010>FGC5659>DC782
		Y4010>FGC5659>DC709
		Y4010>FGC5659>Y126844*
		Y4010>FGC5659>Y126844*
		>FGC5659>Y126844>DC921
		>FGC5659>Y126844>DC269
A7031	A7031	A7031
BY14539	BY14539	BY14539
BY414>BY2678	BY2678	BY2678>BY2684
FGC23702*	FGC23702*	FGC23702*
BY3930	BY3930	BY3930
Z18126	Z18126	Z18126
Y20358	Y20358	Y20358
ZS4595	ZS4595	ZS4595>ZS4598
Z16538>Z16523	Z16523>Y32871	Y32871
Z3021*	Z3021*	Z3021*
Z3008*	Z3008*	Z3008*
Z3008>Z16273	Z16273	Z16273
Z3008>S953	S953*	S953*
	S953*	S953*
Z3008>FGC41930	FGC41930	FGC41930>A24191>FGC41929

Z39298*

S6185*
S6185*
A5409*
L1402

BY11436

L658

FT36567

BY63935
S20620

L1336>A936

FGC34088

BY634

BY19389

Y24868*

Z16291>V1641

Z16291>Z16284>BY330:

16291>Z16284>FT1443

16291>Z16284>FT1443

>>FT14437>BY20009

>>FT14437>Y28633

BY24322

BY23885

Z39298*

S6185*
S6185*
A5409*
L1402

BY11436

L658

FT36567*

FT36567*

BY63935

S20620

A936>A935

FGC34088

BY634

BY19389

Y24868*

V1640

BY3301

FT14437*

FT14437*

BY20009

Y28633*

Y28633>BY4005

BY24322

BY23885

Z39298*

S6185*
S6185*
A5409*
L1402>A682
L1402>A426

BY11436

L658*
L658>Y9068

FT36567*

FT36567*

BY63935

S20620

A935

FGC34088

BY634

BY19389

Y24868*

V1640>Y97894

BY3301*

BY3301>Y31399

FT14437*

FT14437*

BY20009

Y28633*

BY4005>FGC61810

BY4005>FGC61810>FGC65865*

BY4005>FGC61810>FGC65865*

BY24322

BY23885

BY102381	BY102381	BY102381
Y103496	Y103496	Y103496
Y22135>FGC65724	FGC65724	FGC65724
Y22135>Y29332	Y29332	Y29332
Z2961*	Z2961*	Z2961*

BY39919*	BY39919*	BY39919*
BY3437	BY3437	BY3437

A7362	A7362	A7362
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FGC440	FGC440>FGC458	FGC458
A10857*	A10857*	A10857*
Y62520	Y62520	Y62520*
		Y62520*
		Y62520>Y76918

Y3454*	Y3454*	Y3454*
FGC85493	FGC85493*	FGC85493*
	FGC85493*	FGC85493*
	FGC85493*	FGC85493*
	FGC85493>FGC12984	FGC12984>A2182
	FGC85493>FGC37855>A3E	A357
BY21224	BY21224	BY21224
A275a	A275a>FGC40940	FGC40940

FGC37611	FGC37611>S676	S676*
		S676*
		S676>BY189805
A11360	A11360	A11360>Y13280
		A11360>Y22912

FT14462*	FT14462*	FT14462*
DF109*	DF109*	DF109*
BY35731	BY35731	BY35731
BY50870	BY50870	BY50870
Y324364	Y324364	Y324364
FT27858	FT27858>BY21182	BY21182
ZS8379	ZS8379	ZS8379*
		ZS8379*
		ZS8379>BY145571
		ZS8379>Y23987

FGC23742>FGC52024	FGC52024	FGC52024
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Y30971	Y30971	Y30971	YF008781
	BY6908	BY6908	YF067268
BY14150	BY14150	BY14150	YF007626
BY4518	BY4518	BY4518	YF012501
S24513	S24513	S24513	YF015643
Y3183	Y3183	Y3183	YF009960
A8460	A8460	A8460	YF004502
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Y255520	Y255520	Y255520	YF101606
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BY172114	BY172114	BY172114	YF014909
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Y216667	Y216667	Y216667	YF077565
	Y66258*	Y66258*	YF086198
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Y39068	Y39068	Y39068	YF074427
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	YP5317*	YP5317*	YF015863
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YP6286	YP6286	YP6286	YF009738,
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		BY205752	YF071493
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YP4874*	YP4874*	YP4874*	YF066840
		F20770*	YF066383
YP5244*	YP5244*	YP5244*	YF005836
BY15853	BY15853*	BY15853*	YF010117
		BY30732*	YF008168
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		YP1414*	YF066444,
YP983	YP983	YP983>YP992	YF066243
		YP992>Y44254	YF072561,
	YP5640*	YP5640*	YF075771
	Y321181*	Y321181*	YF101079
BY62075*	BY62075*	BY62075*	YF073118
	BY87712	BY87712	YF075512
		Y211400	YF076093
Y32822*	Y32822*	Y32822*	YF019772
BY132099>BY108231	BY133898	BY132028	YF065211,
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		BY121408	YF063028,
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BY12018	BY12018	BY12018	YF004234
FT368590	FT368590	FT368590	YF086515,
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A7172	A7172	A7172	YF009077
A9845*	A9845*	A9845*	YF004950

Y32805	Y32805	Y32805	YF064161,
	F190*	F190*	YF072188
	F190>A5397	A5397*	YF068534
		A5397*	YF078398
BY18859*	BY18859*	BY18859*	YF067452
FGC13167	FGC13167	FGC13167	YF064135
BY128969	BY128969	BY128969	YF015729
Y128031*	Y128031*	Y128031*	YF067226
Y128031*	Y128031*	Y128031*	YF014672
Y13174*	Y13174*	Y13174*	YF015295
FGC13612*	FGC13612*	FGC13612*	YF081416
BY35150	BY3150>BY35149	BY35149*	YF015642
		BY35149>BY79205	YF062596,
	BY35150>FT37131	Y108036>Y83059	YF011109
FGC12770*	FGC12770*	FGC12770*	YF011083
	BY109860*	BY109860*	YF072522
	BY109860>FT157516	FT157516*	YF068105
		FGC60996	YF072371,
Y137011*	Y137011*	Y137011*	YF012532
FGC30244	FGC30244	FGC30244	YF087515
FT5627	FT5627	FT5627	YF090428,
Y100655	Y100655	Y100655	YF009318
Y128491	Y128847	Y128847	YF085289,
BY13790	BY13790	BY13790	YF006089
FT14140	FT14140	FT14140	YF018818
	Y23215*	Y23215*	YF005829
S1732	S1732	S1732	YF004852
S16218*	S16218*	S16218*	YF013894
		Y12854*	YF008334
FGC37088*	FGC37088*	FGC37088*	YF014208
FGC37088>FGC37096	FGC37096	FGC37096	YF082751
FT17065	FT17065	FT17065	YF018957
		S6932*	YF019013
S22748*	S22748*	S22748*	YF002607
		Y11522	YF005645
Y2637*	Y2637*	Y2637*	YF008499
Z17121*	Z17121*	Z17121*	YF015463
FT95324	FT95324	FT95324	YF002872
FT112746*	FT112746*	FT112746*	YF065315
Z29460*	Z29460*	Z29460*	YF004820
V2488*	V2488*	V2488*	YF086167
BY32362*	BY32362*	BY32362*	YF067199
Y24953*	Y24953*	Y24953*	YF007125
	Y315697	Y315697	YF101451

FT59110*	FT59110*	FT59110*	YF006028
Y52697*	Y52697*	Y52697*	YF085881
Y55016	Y55016	Y55016	YF092885
		BY31340	YF013370
L20*	L20*	L20*	YF066287
L20*	L20*	L20*	YF014036
FT20578	FT20578	FT20578	YF067313
BY49903	BY49903	BY49903	YF017313
	A13341>FGC73578	FGC73578	YF012060
Y36362	Y36362	Y36362	YF010786
BY101588	BY101588	BY101588	YF012894
Y11178>BY84212>Y150021	Y150021*	Y150021*	YF067136
	Y150021*	Y150021*	YF013638
Y11178>Y47472>Y46859	Y46859*	Y46859*	YF002914
Y11178>Y22874>FT116692	FT116692	FT116692*	YF066120
		FT116692>FT11688	YF065192
		FT116692>FT11688	YF063552
Y11178>Y22874>Y53844	Y53844*	Y53844*	YF013802
	Y53844*	Y53844*	YF003496
Y11178>Y13610	Y13610*	Y13610*	YF018781
	Y13610*	Y13610*	YF017112
	Y13610*	Y13610*	YF015054
	Y13610*	Y13610*	YF015011
	Y13610>BY137422	BY137422	YF013724
	Y13610>FGC36729	FGC36729	YF015568,
	Y13610>FT30363	FT30363	YF019099
	Y13610>Y58344	Y58344	YF003502
	Y13610>Y5697	Y5697 et al.	YF010266,
Y86791	Y86791	Y86791	YF008758
	BY153508	BY153508	YF102413
S6219*	S6219*	S6219*	YF011193
Y18001	Y18001	FGC32106	YF064228,
Y5058*	Y5058*	Y5058*	YF083960
Y5058*	Y5058*	Y5058*	YF011000
Y5058*	Y5058*	Y5058*	YF002308
Y19623	Y19623	BY42892	YF072369
PH5187*	PH5187*	PH5187*	YF002392
Y253271	Y253271	Y253271	YF086641
Y31896*	Y31896*	Y31896*	YF009529
BY114410*	BY114410*	BY114410*	YF067223
BY21579	BY21579	BY21579	YF005199
A16155*	A16155*	A16155*	YF015372
FGC11414*	FGC11414*	FGC11414*	YF005827
Y17484	Y17484>Y20979	Y20979	YF010326,

Y17484>Y30689		Y30689*	YF008559,
		Y30689>Y30752	YF008116,
		FT326997	YF076116,
Y62177*	Y62177*	Y62177*	YF006226
FGC17071*	FGC17071*	FGC17071*	YF002581
Y48060*	Y48060*	Y48060*	YF004392
M428*	M428*	M428*	YF005161
BY34206	BY34206	BY34206	YF004177
Y81507	Y81507	Y81507	YF009147
FT66126	FT66126	FT66126	YF065363
		Y145569	YF015844
BY3194*	BY3194*	BY3194*	YF012799
Y31296	Y31296	Y31296	YF008771,
Y297386	Y297386	Y297386	YF092762
Z208*	Z208*	Z208*	YF004553
BY50737*	BY50737*	BY50737*	YF086218
Z1513	Z1513	Z1513	YF008904
A21073	A21073	FGC72053	YF067745,
BY19276*	BY19276*	BY19276*	YF100610
		BY164509*	YF083556
Y28672*	Y28672*	Y28672*	YF014223
Y172145	Y172145	Y172145	YF062923
FGC52350*	FGC52350*	FGC52350*	YF006593
A9850*	A9850*	A9850*	YF014233
BY9000*	BY9000*	BY9000*	YF012546
BY33516	BY33516	BY33516	YF071750,
BY173557	BY173557	BY173557	YF075427
BY203122	BY203122	BY203122	YF081432,
Z17969*	Z17969*	Z17969*	YF013972
S22219*	S22219*	S22219*	YF008326
S22219>FGC35787	FGC35787	FGC35787	YF005111
S22219>BY11097	BY11097*	BY11097*	YF013420
	BY11097>BY11843	BY11843*	YF008297
	BY11097>BY11843	BY11843*	YF010379
FGC20613	FGC20613	FGC20613	YF014686
FGC41194	FGC41194	FGC41194	YF010794
FGC46958*	FGC46958*	FGC46958*	YF016309
Y23252	Y23252	Y23252	YF065349,
Y31855*	Y31855*	Y31855*	YF008714
FGC52725*	FGC52725*	FGC52725*	YF074537
FGC52725*	FGC52725*	FGC52725*	YF006317
Y22134*	Y22134*	Y22134*	YF006196
Y22134*	Y22134*	Y22134*	YF004832
A1495*	A1495*	A1495*	YF089658

A1506*	A1506*	A1506*	YF072894
A1506*	A1506*	A1506*	YF009449
A8450*	A8450*	A8450*	YF072052
A13219	A13219	A13219	YF012784,
Y17448*	Y17448*	Y17448*	YF009046
Y17448>Y17513	Y17513	Y17513	YF004091,
BY2851*	BY2851*	BY2851*	YF010967
BY2851*	BY2851*	BY2851*	YF004179
Y17109*	Y17109*	Y17109*	YF011567
Y307752	Y307752	Y307752	YF094884,
Z16444	Z16444	Z16444	YF001763
A10889	A10889	A10889	YF006455,
Y139017	Y139017	Y139017	YF089237,
Y17112	Y16880	Y16880	YF004050,
Y16467*	Y16467*	Y16467*	YF073311
Y16467*	Y16467*	Y16467*	YF063554
A10318*	A10318*	A10318*	YF066798
A10639	A10639	A10639	YF065909,
BY2680>BY17742	BY17742*	BY17742*	YF009230
	BY17742*	BY17742*	YF014021
	BY17742>Y82542	Y82542	YF065490,
BY2680>FT38573*	FT38573*	FT38573*	YF090163
BY2680>FT38573>Y81786	Y81786	Y81786	YF065022,
BY2680>FT69488	FT69488*	FT69488*	YF075612
BY2573	BY2573	BY2573	YF008860
Z16431*	Z16431*	Z16431*	YF004690
A7945	A7945*	A7945*	YF007760
	A7945*	A7945*	YF003898
Y13226*	Y13226*	Y13226*	YF009103
Y13226>A5411	Y22342>Y29939	Y29939	YF003019
A286>FGC18030	FGC18030	FGC18030	YF013663
BY23383*	BY23383*	BY23383*	YF012155
BY34901*	BY34901*	BY34901*	YF093891
FGC54816*	FGC54816*	FGC54816*	YF079150
FGC54816*	FGC54816*	FGC54816*	YF006601
A7699	A7699	A7699	YF076578
A541*	A541*	A541*	YF010103
BY19775*	BY19775*	BY19775*	YF082918
BY19775*	BY19775*	BY19775*	YF011097
BY44161	BY44161	BY44161	YF013616
A1337	A1337	A1337	YF067090
Z16259*	Z16259*	Z16259*	YF010923
Y21048	Y21048	Y21048	YF005483
BY132433	BY132433	BY132433	YF079909,

S1126	S1126	S1126	YF003595
Y18975*	Y18975*	Y18975*	YF015958
FGC29058	FGC29058	FGC29058	YF011969
A807	A807	A807	YF001523
Y154732	Y154732	Y154732	YF082923,
Z17981*	Z17981*	Z17981*	YF070721
Y105390	Y105390	Y105390	YF009029
Y7624*	Y7624*	Y7624*	YF071777
Z17662*	Z17662*	Z17662*	YF001638
BY60915	BY60915	BY60915	YF089826
FGC59632	FGC59632*	FGC59632*	YF015177
	FGC59632>Y31623*	Y31623*	YF008176
	FGC59632>Y31623>Y94908	Y94908>Y53445	YF063579
L555	L555>FGC34569	FGC34569	YF093952
Y5627*	Y5627*	Y5627*	YF006118
Y5627*	Y5627*	Y5627*	YF005807
Y5626	Y5626	Y5626	YF001928,
Y3515*	Y3515*	Y3515*	YF001433
Y3515>FGC40253	FGC40253	FGC40253	YF001560
Y5655*	Y5655*	Y5655*	YF007016
	A8323*	A8323*	YF015727
	A8323*	A8323*	YF002381
		A922	YF012212,
FGC51749	FGC51749	FGC51749	YF004561
Y22229*	Y22229*	Y22229*	YF014097
Y23191*	Y23191*	Y23191*	YF067636
FGC32556	FGC32556	FGC32556	YF067640
	FGC10120*	FGC10120*	YF016979
		Y132211	YF011932
Y88539	FT184724	FT184724	YF073789
S744*	S744*	S744*	YF010711
Y106405	Y106405*	Y106405*	YF070837
	Y106405*	Y106405*	YF067620
Z38412*	Z38412*	Z38412*	YF015666
Z38412>CTS6370	CTS6370*	CTS6370*	YF070712
	CTS6370*	CTS6370*	YF010638
	FGC32577*	FGC32577*	YF004386
FGC18451	FGC18451*	FGC18451*	YF070718
	FGC18451*	FGC18451*	YF067590
	FGC18451>FT20203	FT20203	YF067416,
DF1a*	DF1a*	DF1a*	YF064895
Z23534*	Z23534*	Z23534*	YF005769
Z23534>BY11524	BY11524	BY11524	YF008285
BY2924	BY2924	BY2924	YF086283

FGC32200	FGC32200	FGC32200	YF011192
FGC11803*	FGC11803*	FGC11803*	YF001735
BY92814	BY92814	BY92814	YF064680
S8124*	S8124*	S8124*	YF015936
S8124*	S8124*	S8124*	YF009790
BY184*	BY184*	BY184*	YF074446
BY182*	BY182*	BY182*	YF014445
Y90816	Y90816	Y90816	YF015449
FGC9780*	FGC9780*	FGC9780*	YF009137
FGC9775>FGC9774	FGC9774>Z16339*	Z16339*	YF075631
	FGC9774>Z16339>FGC32561	FGC32562	YF079019,
	FGC9774>Z16339>FT85451	FT85453	YF068660,
Z18493*	Z18493*	Z18493*	YF011746
Z18493*	Z18493*	Z18493*	YF007757
A1069*	A1069*	A1069*	YF068433
Z17817*	Z17817*	Z17817*	YF101511
BY2634*	BY2634*	BY2634*	YF085786
Y11640*	Y11640*	Y11640*	YF073704
Y11640>FT4900	FT4900*	FT4900*	YF018801
	FT4900>FT149512	FT149512 et al.	YF074485,
		FGC35607*	YF065304
	Y11639>Y95564	Y95564	YF073510
	Y11639>FGC32661*	FGC32661*	YF097598
	Y11639>FGC32661*	FGC32661*	YF064551
		FT20946	YF089020
		FGC32658	YF067738
Y13500*	Y13500*	Y13500*	YF010509
FGC17450*	FGC17450*	FGC17450*	YF006609
A14170	A14170	A14170	YF082886
FT291097	FT291097*	FT291097*	YF100218
A10982*	A10982*	A10982*	YF091046
L554	L554	L554	YF079331,
BY23575*	BY23575*	BY23575*	YF009861
L1308*	L1308*	L1308*	YF005580
S845*	S845*	S845*	YF011584
Y14298*	Y14298*	Y14298*	YF001608
A17994*	A17994*	A17994*	YF066870
A17994*	A17994*	A17994*	YF010155
A17994*	A17994*	A17994*	YF009132
AMM336*	AMM336*	AMM336*	YF077600
AMM336*	AMM336*	AMM336*	YF003265
Y57086	Y57086	Y57086	YF003535
FGC8284*	FGC8284*	FGC8284*	YF003622
FGC5660*	FGC5660*	FGC5660*	YF004575

FGC5660*	FGC5660*	FGC5660*	YF003002
DC134*	DC134*	DC134*	YF009239
DC134*	DC134*	DC134*	YF003747
FT37203>DC104*	DC104*	DC104*	YF079336
FT37203>DC104*	DC104*	DC104*	YF077703
FT37203>DC104*	DC104*	DC104*	YF064239
DC63*	DC63*	DC63*	YF082283
DC63*	DC63*	DC63*	YF071369
DC29*	DC29*	DC29*	YF079230
DC29>DC31	DC31	DC31	YF003366
Y14087*	Y14087*	Y14087*	YF068515
DC53	DC53	DC53	YF087174
Y40477	Y40477	Y40477	YF013995,
DC45	DC45	DC45	YF019648
DC782>Y5609>Y6913	Y6913	Y6913	YF011370,
DC709	DC709	DC709	YF090863
Y126844*	Y126844*	Y126844*	YF102637
Y126844*	Y126844*	Y126844*	YF002479
DC921	DC921	DC921	YF013618
DC269*	DC269*	DC269*	YF001895
DC269>FT77683	FT77683	FT77683	YF076019
A7031	A7031*	A7031*	YF014248
	A7031*	A7031*	YF014175
	A7031*	A7031*	YF009630
	A7031*	A7031*	YF006646
BY14539	BY14539	BY14539	YF007025
BY2684*	BY2684*	BY2684*	YF065932
FGC23702*	FGC23702*	FGC23702*	YF005983
BY3930*	BY3930*	BY3930*	YF007188
BY3930>Y49038	Y49038	Y49038	YF063049,
Z18126	Z18126	Z18126	YF002004
Y20358	Y20358	Y20358	YF005259
ZS4598*	ZS4598*	ZS4598*	HU46DD4C
ZS4598>FT91281	FT91281*	FT91281*	YF073277
	FT91281*	FT91281*	YF009117
Y32871	Y32871	Y32871	YF006193
Z3021*	Z3021*	Z3021*	YF003399
Z3008*	Z3008*	Z3008*	YF017306
Z16273*	Z16273*	Z16273*	YF012116
Z16273*	Z16273*	Z16273*	YF003102
S953*	S953*	S953*	YF014242
S953*	S953*	S953*	YF009961
FGC41929*	FGC41929*	FGC41929*	YF067905
FGC41929>FGC41932	FGC41932*	FGC41932*	YF004509

	FGC41932>BY146910	BY146910	YF068412,
	FGC41932>BY178617	BY178617	YF073393,
	S425*	S425*	YF006902
Z39298*	Z39298*	Z39298*	YF090226
Y16004*	Y16004*	Y16004*	YF009932
Y16004>Y16063>Y31390	Y31390*	Y31390*	YF008398
S6185*	S6185*	S6185*	YF006540
S6185*	S6185*	S6185*	YF006530
A5409*	A5409*	A5409*	YF009544
A682>FGC45390	FGC45390	FGC45390	YF009051
A426>FT20402	FT20402	FT20402	YF065567,
A426>A12131	A12131>A7495	A7495*	YF011670
		A7495*	YF007463
BY11436	BY11436*	BY11436*	YF008578
	BY11436*	BY11436*	YF003856
L658*	L658*	L658*	YF011954
Y9068>FGC15494	FGC15494	FGC15494	YF009031,
Y9068>Y9061	Y9061*	Y9061*	YF005179
	Y9061>Y9059	Y9059	YF011326,
		FT89535	YF094929
		Y133180	YF095331
FT36567*	FT36567*	FT36567*	YF090803
FT36567*	FT36567*	FT36567*	YF066547
BY63935	BY63935	BY63935	YF064949
S20620	S20620	S20620	YF002537
A935	A935	A935	YF072484
FGC34088>FGC34086	FGC34086	FGC34086	YF064475
BY634	BY634	FGC33971	YF006356
BY19389	BY19389	BY19389	YF011077,
Y24868*	Y24868*	Y24868*	YF006582
Y97894*	Y97894*	Y97894*	YF010269
BY3301*	BY3301*	BY3301*	YF065434
Y31399*	Y31399*	Y31399*	YF002548
Y31399>FGC63582	FGC63582	FGC63582	YF009906,
FT14437*	FT14437*	FT14437*	YF008494
FT14437*	FT14437*	FT14437*	YF007811
BY20009	BY20009	BY20009	YF068659
Y28633*	Y28633*	Y28633*	YF007750
FGC61810	FGC61810	FGC61810	YF072530,
FGC65865*	FGC65865*	FGC65865*	YF017119
FGC65865*	FGC65865*	FGC65865*	YF004178
ZP80*	ZP80*	ZP80*	YF010975
BY24322	BY24322	BY24322	YF010185
BY23885	BY23885	BY23885	YF017113,

Y32784*	Y32784*	Y32784*	YF009267
BY102381	BY102381	BY102381	YF017085,
Y103496	Y103496	Y103496	YF008786
FGC65724	FGC65724	FGC65724	YF001984
Y29332>Y30872	Y30872	Y30872	YF008227,
Z2961*	Z2961*	Z2961*	YF001534
		FGC30385	YF010474
BY39919*	BY39919*	BY39919*	YF016674
BY3437>BY3440	BY3440	BY3440 et al.	YF065259,
A7362*	A7362*	A7362*	YF002013
A7362>BY18041	BY18041	BY18041	YF009995
A7362>Y30151	Y30151	Y30151	YF007837
FGC458	FGC458	FGC458	YF015647
A10857*	A10857*	A10857*	YF009080
Y62520*	Y62520*	Y62520*	YF070651
Y62520*	Y62520*	Y62520*	YF065489
Y76918	Y76918	Y76918	YF005988
Y3454*	Y3454*	Y3454*	YF006552
FGC85493*	FGC85493*	FGC85493*	YF095016
FGC85493*	FGC85493*	FGC85493*	YF008344
FGC85493*	FGC85493*	FGC85493*	YF004693
A2182	A2182*	A2182*	YF102173
A357	A357	A357 et al.	YF077665,
BY21224	BY21224	BY21224	YF010022,
FGC40940>FGC40949	FGC40949*	FGC40949*	YF010077
	FGC40949*	FGC40949*	YF005086
S676*	S676*	S676*	YF004131
S676*	S676*	S676*	YF002597
BY189805*	BY189805*	BY189805*	YF017071
Y13280	Y13280	Y13280	YF009858,
Y22912	Y22912	Y22912	YF007774
FT14462*	FT14462*	FT14462*	YF064374
DF109*	DF109*	DF109*	YF013414
BY35731	BY35731	BY35731	YF015482
BY50870	BY50870	BY50870	YF013783
Y324364	Y324364	Y324364	YF016926
BY21182	BY21182	BY21182	YF010483
ZS8379*	ZS8379*	ZS8379*	YF068293
ZS8379*	ZS8379*	ZS8379*	YF006576
BY145571	BY145571*	BY145571*	YF015553
	BY145571*	BY145571*	YF014851
Y23987*	Y23987*	Y23987*	YF010574
Y23987>BY18040	BY18040	BY18040	YF011177,
Y23987>A11427	A11427*	A11427*	YF063452

	A11427*	A11427*	YF006699
	A11427>Y15541	Y15541	YF063482,
FGC52024	FGC52024>Y146338	Y146338	YF100265,
FGC46309*	FGC46309*	FGC46309*	YF064021
Y94073*	Y94073*	Y94073*	YF009047
FT78901	FT78901	FT78901	YF084218
A1206*	A1206*	A1206*	YF010367
FGC23097*	FGC23097*	FGC23097*	YF002349
FGC23097>Y293682*	Y293682*	Y293682*	YF095429
FGC23097>Y293682*	Y293682*	Y293682*	YF090606
FGC23739>BY11687	BY11687>BY182748	BY182748	YF089330,
A823*	A823*	A823*	YF080947
A8683	A8683	A8683	YF082316
A11242*	A11242*	A11242*	YF010315
A11242>A11246	A11246	A11246	YF010152
Y3644*	Y3644*	Y3644*	YF001604
Y3644*	Y3644*	Y3644*	YF001584
A1775>BY18130	BY18130	BY18130	YF008464
S588*	S588*	S588*	YF078081
S588*	S588*	S588*	YF007944
S588*	S588*	S588*	YF007484
S588*	S588*	S588*	YF006669
A5386	A5386	A5386	YF008237
BY35717	BY35717	BY35717	YF015082
FGC16740	FGC16740	FGC16740	YF001734
A9884>A9885*	A9885*	A9885*	YF088210
A9884>A9885*	A9885*	A9885*	YF004692
A9884>Y128532	Y128532	Y128532	YF011612
FGC30690*	FGC30690*	FGC30690*	YF068235
FGC30690*	FGC30690*	FGC30690*	YF011128
Y9391*	Y9391*	Y9391*	YF007984
Y9391*	Y9391*	Y9391*	YF002527
FGC7929	FGC7929	FGC7929	YF001413
Y12192	Y12192>FGC23597	FGC23597	YF009415,
BY4142*	BY4142*	BY4142*	YF006123
BY13139>FGC59192	FGC59192	FGC59192	YF076451
Y37492*	Y37492*	Y37492*	YF008023
Y37492*	Y37492*	Y37492*	YF006529
FGC57769*	FGC57769*	FGC57769*	YF015773
FGC57762*	FGC57762*	FGC57762*	YF015730
FGC57762*	FGC57762*	FGC57762*	YF007739
FT169286	FT169286	FT169286	YF072032
S595>BY19782	BY19782	BY19782	YF010111,
Y24520	Y24520	Y24520	YF007092

BY196325	BY196325	BY196325	YF068027,
FGC40507	FGC40507>Y66755*	Y66755*	YF069447
A15865*	A15865*	A15865*	YF094532
BY198518	BY198518	BY198518	YF065238,
FT385118*	FT385118*	FT385118*	YF081706
Y31295*	Y31295*	Y31295*	YF009226
Y31294*	Y31294*	Y31294*	YF004040
Y31294>A21774	A21774	A21774	YF081763
Y31294>BY21221	BY21221	BY21221	YF010637
Y160211	Y160211	Y160211	YF064635
V86	V86	V86	YF102134
FGC5939*	FGC5939*	FGC5939*	YF081720
BY20816	BY20816	BY20816	YF064289
A10525*	A10525*	A10525*	YF066812
A10525*	A10525*	A10525*	YF006559
BY18162	BY18162*	BY18162*	YF095039
	BY18162>A20221	A20221	YF004957
A5902*	A5902*	A5902*	YF063350
A5902*	A5902*	A5902*	YF013050
A5902*	A5902*	A5902*	YF010896
A5902*	A5902*	A5902*	YF008260
Y178955*	Y178955*	Y178955*	YF073748
Y178955*	Y178955*	Y178955*	YF011917
Y178955*	Y178955*	Y178955*	YF007911
Y178955*	Y178955*	Y178955*	YF006562
A11846*	A11846*	A11846*	YF080262
A11846*	A11846*	A11846*	YF006199
A884*	A884*	A884*	YF006502
A884*	A884*	A884*	YF002506
A884>BY21240	BY21240	BY21240*	YF100949
		BY21240>Y54272	YF089574
DF85*	DF85*	DF85*	YF089058
DF85*	DF85*	DF85*	YF019506
DF85*	DF85*	DF85*	YF007648
DF85*	DF85*	DF85*	YF004447
BY53720	BY53720	BY53720	YF014602
Y7081	Y7081	Y7081	YF011360,
FGC49729	FGC49729>Y135730	Y135730	YF012415
S668*	S668*	S668*	YF066032
Y136497*	Y136497*	Y136497*	YF012474
BY18256*	BY18256*	BY18256*	YF072451
FGC58598*	FGC58598*	FGC58598*	YF083247
BY21203	BY21203>BY171180	BY171180 et al.	YF086692,
FGC19851*	FGC19851*	FGC19851*	YF007089

FGC42106>Y37420	Y37420	Y37420	YF005138
BY35772	BY35772	BY35772	YF016962,
BY21154*	BY21154*	BY21154*	YF011565
BY21159	BY21159>BY38581	BY38581	YF081380
FGC49695*	FGC49695*	FGC49695*	YF007640
FGC49695>A11231	A11231	A11231	YF006578
FGC49695>A11103	A11103>YP1404>A11100	A11100	YF005984
A1332	A1332*	A1332*	YF009220
	A1332>A12202*	A12202*	YF080066
	A1332>A12202*	A12202*	YF064246
	A1332>A12202*	A12202*	YF013373
	A1332>A12202*	A12202*	YF012763
	A1332>A12202*	A12202*	YF011931
	A1332>A12202*	A12202*	YF002148
	A1332>A12202>BY18260	BY18260	YF090218,
	A1332>A12202>Y137170	Y137170	YF012535
	A1332>A12202>A12202a*	A12202a*	YF009109
	>>A12202a>FGC51812	FGC51812	YF007469,
	A1332>A12202>FGC52372	FGC52372>Y10983	YF064513
		FGC52372>Y16739	YF077595,

652

769

819

Irish county	Branch origin	Closest match	Upper split (yBP)
Donegal	West Africa	NO, FI	8900
Longford	West Africa by Vikings		
unknown	West Africa by Vikin	SCO	3500
unknown	West Africa by Vikin colonial	US/CA	
Cork	Syria	SCO	3500
unknown	Tunisia	ENG	950
unknown	Lebanon	WLS	4600/1250
unknown	Lebanon	ENG	4300
unknown	general Euro	RU, ES, SAU	4100
Mayo	general Euro	PL, IT, SK, PT	3100
Wexford	general Euro	PL	3400
Wexford	general Euro	DE	3700
Wicklow	general Euro	ES, ARM	2300
Down	general Euro	ENG	3100
unknown	Berbers	TUN	2400
Armagh	Berbers	MOR, LBY	2100
Cork	Pre-Pottery Neolithic	ENG	9800
unknown	Cardium Pottery	TUN	3500
Galway	Near East	ENG	11800
unknown			
Westmeath	Near East	PAK, ITA	3600
Cork	Near East	PAK, ITA, RU	3900
Antrim	Mediterranean	ES,PT,FR,IT,E	4000
Northern Ireland	Near East	MAR, LEB, ISR	3400
unknown		ENG	2500
unknown	Linear Pottery	ENG	4000
unknown	Neolithic	SCO	3400
Sligo			
Kilkenny	Linear Pottery	TR, LBY, LEB	11700
Carlow	Neolithic		
Wicklow	Linear Pottery Neolit	ENG, PL, UA, F	3700
unknown	Vikings	SCO	1850/1300
Laois	English settlement	ENG	450
unknown			
Waterford	West Germanic	DE	1900
unknown			
Waterford			
Antrim	Ulster Scots	SCO	425
Down	Vikings	SCO	950
Donegal	Vikings	SE, DE	1000
unknown	Vikings	NO	1850
Monaghan	East Germans	SE, UA, TR, BG	2300
Westmeath	English settlement	ENG	1200

Derry				
unknown	West Germanic	DE, ENG, RU		2600
unknown				
Limerick	Vikings	NO		1750
Limerick				
unknown	West Germanic	ENG, SCO, SE		2300
unknown	NO Vikings (also aD	ENG		1250
Monaghan	West Germanic	NL		1750
Northern Ireland	proto-Germanic	ENG, SE, NO		3000
Cavan	English settlement	ENG		550
Fermanagh	English settlement	ENG		650
Wexford	East Germans	SE, PL, DE		2600
unknown	NO Vikings (also aD	NO		1700
Limerick	Vikings	NO, SE / ENG		1750/1150
Waterford	Vikings	NO, SE, FI		1750
Cork				
Antrim	English settlement	ENG		475
unknown	Vikings / Scots	SCO		1250 / 700
Monaghan				
Antrim	Vikings	SE, NO		1850
unknown	proto-Germanic	NO, EN		3000
unknown	proto-Germanic	EE		2500
Galway				
Cork	Germanic or Belgae	EN, NL, FR, WL		2200
unknown				
Westmeath	East Germans	NL, PL, UA, SI		3500
Kilkenny	Saxons or Vikings	SE, ENG, SCO		1600
Tipperary	Anglo-Saxons	EN		1300
unknown	Vikings	SE		1850
unknown	Vikings	Azores		1550
Dublin	West Germanic	DE		2300
unknown	Vikings	NO		1100
unknown	Scots	SCO		850
Clare	Vikings	RUS		1850
Donegal	Ulster Scots	SCO		300
Donegal	German	DE		225
Antrim	West Germanic	ENG, NL, SE, D		2400
unknown	English settlement	ENG		1250
Antrim				
unknown				
unknown	Ulster Scots	SCO		700
unknown				
Waterford				
unknown				

Cork				
Monaghan	Neolithic Farmers	DE, IT, RU		5200
Cork				
Cork				
Kerry				
Limerick				
unknown	Neolithic Farmers	ENG, ES, FR		5800
Down				
Antrim				
unknown	English settlement	ENG		1300
unknown	Mediterranean	IT, FR, ES, RU		3000
Roscommon	Neolithic Farmers	IT, WLS		5600
Kerry				
Kerry	Anglo-Saxons	ENG		1600
Clare				
Clare			Pitted Ware Culture (Sweden) & Mesolithic Ukraine ancient DNA (extinct)	
Clare	Early Middle Neolithic Ireland ancient DNA (extinct)			12500
Clare				
Clare				
Clare				
Tipperary				
Sligo				
Derry				
Donegal	Ulster Scots	SCO		425
Mayo				
Northern Ireland				
Cookstown				
Antrim				
Down				
Armagh	Ulster Scots	SCO		700
Down				
unknown				
Monaghan				
Cork	Belgae or Saxon	ENG,NL,PL,DE,		1900
Cork	Belgae or Saxon	DE		1800
unknown	Belgae or Saxon	FR (Alsace)		1700
unknown				
Donegal	Belgae or Saxon	ENG, PL. CZ		1900
Omagh				
Antrim	Belgae or Saxon	various		1900
Antrim				
Limerick	Mesolithic Ireland	Mesolithic LU,		14200
unknown	Britonic? Pict?	ENG, SCO, WL		1850
Cork				

Cork			
Cork			
Cork	Corcu Loígde		
unknown	(Royal dynasty of	ENG, SCO, WL	1850
Cork	Munster)		
Cork			
unknown			
Cork			
Cavan	Middle Neolithic aDNA	Current Irish	6700
unknown	Neolithic Irish survivor	ENG, SCO	3000
Clare			
Tipperary			
Galway	Neolithic Irish survivor	ENG	2800
Antrim	Neolithic Irish survivor	WLS	4300
unknown	Neolithic European	IT, DE, RO, EN	4600
unknown			
Westmeath			
unknown			
unknown			
unknown			
Cork			
Longford			
Mayo			
unknown			
Roscommon			
Kerry			
unknown			
Westmeath	Neolithic Irish	Pitted Ware &	
Roscommon	survivor group	Esperstedt MN	6500
Mayo		aDNA	
Galway			
Clare			
Roscommon			
Galway			
Meath			
Limerick			
unknown			
unknown			
unknown			
Kilkenny			
Tipperary			
Limerick			
Belfast			
unknown	Neolithic European	ENG	4200

unknown			
Leitrim	Mesolithic Irish aDN	Cheddar Man	12000
Cork	Mesolithic		
Cork	European survivors	NL, ENG, FR	4800
unknown			
Louth	Britonic or Belgae	ENG, FR	1750
unknown	Proto-IE	NL	4200
Mayo	Belgae or Saxons?	NL	2100
Derry	Proto-IE	DE	3300
Armagh	Britonic or Belgae	ENG	1850
Antrim	Ulster Scots	SCO	450
Clare			
Clare			
Clare			
Clare			
Meath			
Roscommon			
Clare			
Clare			
Mayo			
unknown			
unknown			
unknown			
Clare			
Tipperary			
Roscommon			
Northern Ireland	Neolithic Ireland	European	10200 from
Clare	aDNA with present-day survivors	Mesolithic and British Neolithic	non-Isles, 7100 intra Isles
unknown			
Limerick			
Roscommon			
Clare			
Mayo			
Galway			
unknown			
Leitrim			
Galway			
Galway			
Longford			
unknown			
unknown			
unknown			
unknown			
Northern Ireland	Brithonic	ENG, WLS	1750

Monaghan			
Monaghan			
unknown			
Donegal			
unknown			
unknown			
unknown			
Laois	Early IE	RUS (+KZ aDN,	3600
Donegal	Proto-Germanic?	GR, DE	3100
Antrim	Early IE	GR, DE	4500
Laois	Scottish settlement	SCO	800
Northern Ireland			
Wexford	Proto-Germanic?	NL, SE, DK	3600
Cork	Brittonic?	SCO	1600
Galway	Brittonic?	ENG	1500
Dublin	West Germanic	DE	2300
Wexford	English settlement	ENG	1000
unknown	Proto-Germanic?	SCO, ALB	2500
unknown	Scottish settlement	SCO	600
unknown	Proto-Germanic?	RU, DE	2600
unknown	English settlement	ENG	275
unknown	West Germanic	DE	1200
Cork	Proto-Germanic?	IT	2800
unknown	Proto-Germanic?	ENG, SCO, NO	3300
Derry	West Germanic	ENG	2500
unknown	Vikings	NO, SE, DK	1700
Dublin	English settlement	ENG	1050
Armagh	Brittonic?	ENG, SCO	2100
unknown	West Germanic	ENG, NL, CZ, D	2400
Wicklow	Brittonic or Belgae?	ENG, SCO	1900
unknown	Northeast Caucasians	Chechens	4400
unknown	Jewish (Cohen/Z182CZ)		850
Down	Arabic (Z1884)	KWT	2600
Longford	Arabic (Z1884)	ENG, SCO	2300
Armagh	Ulster Scots	SCO	500
Limavady	Near East	SCO	2700
Antrim	Near East	TR	3500
Ballymena	Ulster Scots	SCO	400
Monaghan	Near East	SCO (borders)	9800
Sligo			
Limerick	Near East	IT, FR, SAU	5900
Carlow	Linear Pottery Neolit	PL, IT, ES	3500
Limerick	Near East	UKR	2500
Antrim	Paleolithic Eurasia	-	15800

unknown	Central Asia	IRQ, CHN	3400
unknown	Jewish	European Jews	2400
Cork	Calcholithic Steppe	SCO, ENG	950
Limerick	Proto-Germanic	ENG	1200
Tipperary	Proto-Germanic	NL, DE, SE, PL	1750
Galway	Vikings	SE, NO, FI	1750
Roscommon	Vikings	NO, SE	1800
Galway	Vikings	SE, ENG	1950
Waterford	Vikings	SE, ENG	1950
Dungannon	Vikings	ENG	1500
unknown	Proto-IE remnant	WLS	4800
unknown	Vikings	NO, FI, EN	2300
Cork	Vikings	SE, IZ, SCO	2700
unknown	Ulster Scots	SCO	600
unknown	Vikings	NO, FI, RU	2200
Monaghan	Vikings	ENG	950
Cavan	Ulster Scots	SCO	375
Down			800
Belfast	Ulster Scots	SCO	475
Down	Vikings	ENG	1100
Omagh			
Omagh		Longobard aDNA (HU), FI;	
Cookstown	Vikings (Uí Imar 850 CE?)	internal Northumbria,	2100
Cavan		Essex, Scotland	
unknown			
Omagh			
Antrim	Vikings	ENG	900
Fermanagh	Vikings	ENG	750
Down	Vikings	LT, SE, FI	2000
unknown			
Down	Ulster Scots	SCO	650
Leitrim	Early IE England	ENG	3800
Donegal	Early IE Ireland	DE, FI, FR	3000
unknown			
unknown	English settlement	ENG	350
unknown	English settlement	ENG	600
unknown			
Donegal	Early IE Ireland	DE	5000
Monaghan	Proto-Germanic	ENG	2900
unknown	English settlement	ENG	850
Kilkenny	Vikings	NO, ENG	1900
Dublin	Proto-Germanic	ENG	2000
unknown	Proto-Germanic	GR	2800
unknown	Proto-Germanic	WLS	1000

unknown	Proto-Germanic	WLS	1600
Kilkenny			
Kilkenny	Ulster Scots	SCO	700
Meath			
Cavan	Proto-Germanic	BIH, PL	2400
Waterford	Proto-Germanic	ENG, SCO, DE,	1750
Dublin			
Cork	Proto-Germanic	ES,PT,DE,FR,S	3900
Waterford			
unknown	Proto-Germanic	NO	2700
unknown	Anglo-Saxon	ENG, NL	1550
unknown			
Cork	Proto-Germanic	ENG, NL	3200
unknown			
unknown	Proto-Germanic	ENG, SE, NL	2700
Northern Ireland		SCO	650
Northern Ireland	Ulster Scots	SCO	350
Northern Ireland		SCO	425
Donegal	Proto-Germanic/Sax	SCO	1650
Dublin	Proto-Germanic	ENG, SE, NL	2200
Kerry	Proto-Germanic	ENG, DE, FR	3000
unknown	Proto-Germanic	ENG, SE	2500
unknown	English settlement	SCO, ENG	950
Wicklow	Proto-Germanic	ENG, SE, NL, F	2800
Antrim	Proto-Germanic	ES	2300
Fermanagh	English settlement	ENG	550
Antrim	Proto-Germanic	DE	2900
Antrim	Proto-Germanic	SCO, SE	2700
Antrim	English settlement	ENG	425
Donegal			
Antrim	Proto-Germanic	ENG	1950
Kilkenny	Pre-Proto-Celtic	SCO (also aDN,	3600
Tipperary	English settlement	ENG	475
Armagh	Pre-Proto-Celtic	NL	2700
Ballymoney	English settlement	ENG	375
Sligo	Pre-Proto-Celtic	DE,NL,ENG,SE	3100
Sligo	Pre-Proto-Celtic	SE, ENG	1700
Cork	Proto-Celtic	-	4500
unknown	Proto-Celtic	FR (Vendée)	2300
unknown	Proto-Celtic	IT, NO, DE	3000
unknown	Proto-Celtic	SE	3500
unknown	Proto-Celtic	FR, GR, IT	4100
Cavan	Celto-Vikings	Shetlands	1350
unknown	Ulster Scots	SCO	650

unknown	Belgae?	ENG, DE	2600
Roscommon	Proto-Celtic	PL	3900
Sligo			
unknown	English settlement	ENG	475
Wexford			
unknown	Proto-Celtic	-	4000
unknown			
unknown	Proto-Celtic	ES, IT	3700
Donegal	Ulster Scots	SCO	700
Down	Belgae?	SE, AT	2700/2100
unknown	Proto-Celtic	RO	3100
unknown			
Cork			
Wexford			
Cork			
unknown			
Cork			
Dublin	Anglo-Norman Barry family		
Cork	(verified by pedigree and aDNA) ancestor: Odo de Barry (Norman knight)		
Cork		ENG	4300/850
unknown			
Waterford			
Cork			
Cork			
Cork			
unknown			
Cork			
Cork			
Dublin	Proto-Celtic	CZ, ES	3800
unknown	Ulster Scots	SCO	800
unknown	Proto-Celtic	SCO, NO	2300
unknown	Proto-Celtic	ES	3800
Cork			
Tipperary			
unknown	O'Dwyer + Ryan pre-proto Celtic tribe	ES, PT	4400
Tipperary			
Tipperary			
unknown	English settlement	ENG	1350/750
Galway	Belgae?	FR, PL, ARM	1800/1700
unknown		ENG, SCO	1550
unknown		SCO	900
unknown		ENG, SE	1400
unknown	Britonic Celts?		

Antrim		ENG, SCO, SE	1550
Meath			
Longford	English settlement	ENG	250
Kilkenny	English settlement	ENG	800
Roscommon	Britonic Celts?	ENG	4100/1850
Kerry			
Meath	English settlement	ENG, SCO, DE	2900/1150
Sligo			
Limerick	English settlement	ENG, PL	1400/1000
Cork	Proto-Celtic	DK, FR, CZ, EN	3700
Donegal	Ulster Scots	SCO	250
Cavan	Belgae?	SE, FR	1900
unknown	Proto-Celtic	-	3800
unknown	Belgae?	FR	2600
Dublin	Proto-Celtic	-	3300
Down	Basque	FR (BSQ)	2000
Carrickfergus	Proto-Celtic	WLS	3400
Antrim	Brythonic	WLS	1500
Armagh	Brythonic (?)	SCO	4500/1700
Armagh	Ulster Scots	SCO	200
Belfast	Brythonic (?)	FR, ENG, ES	3000
Armagh	Proto-Celtic	-	4500
unknown	Brythonic (?)	SCO	2100
Tipperary	English settlement	ENG	3800/800
Donegal	Vikings	SE, FI, ENG	1350/1200
Down	Proto-Celtic	-	4100
unknown		FI, SCO	
Westmeath	Proto-Celtic	SCO	4100
unknown	Proto-Celtic	FR, ENG, DE	3700
unknown			
Laois			
Laois	Scottish settlement	SCO	1250
Laois			
Clare			
Cork	Proto-Celtic	ENG, WLS, FR	3600
Limerick	English/Welsh settle	WLS	1100
unknown	English settlement	ENG	1000
Tipperary	Proto-Goidelic	ENG (IE>NO)	4100 (2300)
unknown	English/Welsh settle	ENG, WLS	1250
Antrim			
Mayo			
Fermanagh	Proto-Goidelic	ENG	4100
unknown			
Tipperary			

unknown	Proto-Celtic	SCO, Man	3600
Kilkenny			
Coleraine			
Wicklow			
Kildare			
unknown			
unknown			
unknown			
Clare			
Limerick			
Galway			
Galway			
Tipperary			
Tipperary			
unknown			
unknown	Proto-Goidelic (Leinster modal)	internal SCO, S	4100
unknown			
Tipperary			
Limerick			
unknown			
Waterford			
Kerry			
Kerry			
Cork			
Mayo			
Wicklow			
Wexford			
Wexford			
Wicklow			
Wexford			
unknown	Proto-Celtic	ES, PT, SE, SC	3800
Monaghan	Proto-Celtic	ENG, SCO	3800
unknown			
Monaghan	Proto-Celtic	ENG, UKR	3800
unknown			
Cavan			
unknown			
Cork			
Cork			
unknown			
Waterford			
Cork	Proto-Goidelic (South Irish genetic group); Éoganachta	FRA	3200
Cork			
Kerry			

unknown	of Munster		
Cork			
Clare			
unknown			
Cork			
Cork			
Cork			
Tipperary	Proto-Brythonic	ENG, SCO, WL	3600
Roscommon	Proto-Brythonic	ENG, WLS	4100
Carlow			
Cork			
Galway	Proto-Brythonic	ENG	3000
unknown			
unknown	Proto-Brythonic	ENG, SCO, BE	3400
unknown			
Louth			
unknown	Proto-Goidelic	ES, ENG, SCO	4100
Galway			
unknown			
unknown	Brythonic	ENG, SCO	1300
Antrim			
Down	Ulster Scots	SCO	600
Down			275
Tipperary	Brythonic	SCO	1100
Donegal	Brythonic	SCO	1000
Antrim			
Antrim	Brythonic	ENG, SE	1250
Down	Ulster Scots	ENG, SCO	550
unknown	Ulster Scots	SCO	150
unknown	Brythonic	SCO	1800
unknown	Brythonic	SCO	1700
unknown			
Wicklow			
unknown	Brythonic	SCO	1450
Louth			
Louth			
Donegal	Ulster Scots	SCO	500
Leitrim			
Leitrim	Brythonic	SCO	850
unknown			
Donegal		various	
unknown	Proto-Goidelic	(internal	
unknown		Scottish	4100
		matches)	
Waterford	Brythonic	SE, WLS	1150

unknown			
Cork	Proto-Goidelic	NL	3800
Antrim			
unknown	Brythonic	ENG	1600
unknown			
Limerick	Vikings (also aDNA)	ENG, NO (internal SCO)	1950
Kerry			
Dublin	English settlement	ENG	1100
unknown			
Fermanagh	Proto-Goidelic	SE, BE, ENG	3600
unknown			
Fermanagh			
Cavan	Brythonic	ENG	2600
unknown			
Roscommon	Scottish settlement	SCO	1050
unknown	Brythonic	SCO	1800
Coleraine	Brythonic	SCO	1350
Armagh			
Fermanagh	Ulster Scots	SCO	800
Down			
unknown	Ulster Scots	SCO	450
Down	Ulster Scots	ENG, SCO	600
Mid Ulster			
Leitrim	Ulster Scots	SCO	550
unknown	Ulster Scots	SCO	400
unknown	English settlement	ENG	400
Cork			
Kilkenny	Proto-Goidelic	various (internal SE, SCO)	4100
Kerry			
unknown			
Mayo	Proto-Goidelic	various	4100
unknown	Proto-Goidelic	various	4100
Cavan	Brythonic	WLS	2200
Kilkenny			
unknown			
Westmeath			
Dublin			
Donegal	Proto-Goidelic	various	4100
unknown			
unknown			
unknown			
unknown			
Clare	Brythonic	SCO, Bretagne	3400
Kildare			

unknown			
Tipperary			
Waterford			
Kerry			
Kerry			
Kerry			
Clare			
Clare			
Clare			
Limerick	Proto-Goidelic (Irish	various	4100
Donegal	type III) Dal gCais		
Carlow			
Longford			
Cork			
Clare			
Tipperary			
Cork			
Monaghan			
Clare			
unknown			
unknown			
Galway			
Galway	Proto-Goidelic	various	4100
Galway			
Cavan	Proto-Goidelic	various	4100
Leitrim	Proto-Goidelic	internal Man	4100
unknown	Brythonic?	ENG	3500
Cork	Brythonic?	ENG, WLS	2400
unknown			
Waterford	Brythonic?	ENG, WLS	1650
unknown	Proto-Goidelic	ENG, WLS, SC	4100
unknown			
Kerry	Brythonic?	SCO	2600
Cork			
Tipperary	Brythonic?	SCO	1700
Derry			
Northern Ireland			
unknown			
Monaghan	Proto-Goidelic		
Wicklow	(Z3008 identified as	ENG, WLS, SC	4100
unknown	the Clan Colla of		
Monaghan	Airgíalla)		
Monaghan			

unknown			
Monaghan			
Antrim	Scottish settlement	SCO	950
unknown	Brythonic?	SCO	1650
Tipperary	Scottish settlement	SCO	750
Down			
Kerry	Proto-Goidelic	internal	
unknown		Icelandic	4100
Tipperary		Viking aDNA	
unknown			
Kilkenny	Proto-Goidelic	internal SCO	4100
Laois			
Kerry			
Roscommon			
Roscommon			
Wexford	Proto-Goidelic	internal FRA	
Clare		(Normandy)	4100
Galway			
Galway			
Down	Ulster Scots	SCO	275
Coleraine			
Fermanagh	Brythonic?	SCO	3800
unknown			
Antrim	Brythonic?	TR	3500
Kerry			
Clare	Brythonic?	SCO, IT	3800
Waterford	Brythonic?	SCO	2000
Dublin	Brythonic?	SCO	2800
Armagh	Brythonic?	ENG, SCO, Bre	3400
Limerick	Brythonic?	ENG, WLS	3400
Offaly			
Limerick			
Westmeath			
Laois			
Offaly			
Galway	Celtic tribe in Ireland	NL	3200
Dublin			
Tipperary			
Tipperary			
Tipperary			
Kilkenny			
Monaghan	English settlement	ENG	950
unknown	Proto-Celtic	SE, PL	3600
Louth	East Germanic?	SE	2100

unknown	English settlement	ENG	900
Tipperary	Proto-Goidelic	ENG, SCO, ES	4100
Donegal			
unknown	Proto-Goidelic	WLS, PT internæ	4100
Antrim			
Galway	Proto-Goidelic	various	4100
Leitrim	Ulster Scots	SCO	450
Tipperary	Brythonic?	ENG, WLS	3800
Roscommon	Brythonic?	WLS internal	3800

Donegal

Offaly

unknown

Laois

Dublin

Carlow

Carlow

Carlow

unknown

Cork

Longford

unknown

unknown

Roscommon

unknown

unknown

unknown

Louth

Louth

Donegal

Roscommon

Mayo

Dublin

Roscommon

Louth

Antrim

unknown

unknown

Cork

Offaly

Laois

unknown

Offaly

Offaly

Offaly

Offaly			
Offaly			
unknown			
Donegal			
Donegal			
Fermanagh			
Galway			
Westmeath			
Sligo			
unknown			
unknown			
Donegal			
unknown			
Antrim			
Galway			
unknown			
unknown			
unknown			
Roscommon			
Mayo			
Antrim			
unknown			
unknown			
Down			
unknown			
Magherafelt			
Down			
Armagh			
Louth			
Louth			
Monaghan			
Sligo			
Kildare			
Donegal			
unknown			
unknown	Proto-Goidelic		
Magherafelt	(ancestral to clans	internal SCO,	4100
unknown	Ui Neill and	IZL, ENG, SE,	
unknown	Connachta)	DE	
Derry			
Armagh			
unknown			
unknown			
Donegal			

Longford
Clare
Tipperary
Galway
Galway
unknown
unknown
Galway
Galway
Mayo
unknown
unknown
Galway
unknown
unknown
unknown
Galway
Westmeath
unknown
unknown
Cavan
Mayo
Omagh
Sligo
Leitrim
unknown
unknown
Meath
Antrim
Cavan
Down
Sligo
Monaghan
unknown
Kildare
unknown
Roscommon
Dungannon
unknown
Antrim
Dublin
Northern Ireland
Derry
Donegal

unknown
Donegal
unknown
Derry
Offaly
unknown
Donegal
Donegal
Donegal
unknown
unknown
Donegal
Antrim
Donegal
Donegal
unknown
unknown
Leitrim
Donegal
Donegal

Haplogroup	pre-5000 BC	5000 BC	4500 BC	4000 BC
A1b-M13				

B-M8633

C-V86

E1a-M132

E1b1a-M2

FGC91110

E1b1b-M35>M78>V65

E1b1b-M35>M78>V12

E1b1b-M35>M78>V22

E1b1b-M35>M78>V13

E1b1b-M35>Z827>L19

E1b1b-M35>Z827>Z830

Y91313 Y91313 Y91313 Y91313

Y45029 Y45029 Y45029 Y45029

G1-M342 BY21302* BY21302* BY21302* BY21302*

G2a-P15>Z6553 Z6553* Z6553* Z6553* Z6553*

	Z17775*	Z17775*	Z17775*	Z17775*
G2a-P15>pre-L91	Y85489 BY133179*	Y85489 BY133179*	Y85489 BY133179*	Y85489 BY133179*

G2a-P15>L30>M406

G2a-P15>L30>PF3359	Y125465	Y125465	Y125465	Y125465
G2a-P15>L30>L140	FGC82036*	FGC82036*	FGC82036*	FGC82036*

G2a-P15>L30>L140>L13

G2a-P15>L30>L140>L497

H2

Y126851

H1

I1

I1-DF29

I1-DF29>Z63

I1-DF29>Y2592/pre-CTS6364

I1-Y2592>L22

I1-DF29>Z58

I2c-L596

I2a1-P37>CTS595

I2a-P37>L233

I2a1-P37>M423

Y12072

Y12072

A8742*

A8742*

A8742*

A8742*

A8742>Y51883

Y51883

A8742>BY37286

BY37286

BY60222

BY60222

S2742

Y3722

Y3722

I2a2-S255 (pre-L38)

S2524*

I2a2-M223

Y6099

Y6099

Y6099

Y6099

Y7241*

Y7241*

Y7241*

Y7241*

L1229

M284M284>Y10626	Y10626	Y10626	Y10626
M284>L1195	L1195	L1195	L1195

>

L701 L699>Y8543 Y8543 Y8543 Y8543

Z161

L623* L623* L623* L623*

J1-M267	Y48949	Y48949	Y48949	Y48949
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J2b-M102>M205

J2b-M102>Z593(xL283)
J2b-M102>L283

J2a-M410

Y64860 Y64860 Y64860 Y64860

L-M20		FGC51041*	FGC51041*
T-M70	Y62903	Y62903	Y62903
			Z19971*

N1-P189.2
N3a3-VL29>L1022

N3a3-VL29>L550

N3a3-VL29>L550>L1025

R2-M124

L723

L723

L723

L723

Q-L56

Q-L56>L330

Q-L56>L940

Q-L56>L940>L527

Q-L56>L804

Q-L56>Z780

YP1109*

YP1109*

YP1109*

YP1109*

R1a-M420*

R1a-M459*

YP1051

YP1051

YP1051

YP1051

R1a-CTS4385 (pre-L664)

R1a-Z93

R1a-Z283*

R1a-M458

R1a-Y2395/Z284

L448

R1b-V88	Y7777*	Y7777*	Y7777*	Y7777*
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R1b-M73

R1b-PF7562

R1b-Z2103

R1b-Z2118

R1b-A8053

R1b-S1194

R1b-U106

Z381

Z381>Z301

Z301>L48

L48>Z8

R1b-P312

R1b-P312>L238

R1b-P312>DF19

R1b-P312>U152

R1b-U152>Z193

R1b-U152>Z56

R1b-U152>Z36

R1b-U152>L2

L2>Z34

L2>L20

L2>Z49

R1b-P312>DF27

Z225

FGC20747

Z195

Z195>Z198

R1b-L21

L21>DF13

DF13>S1051

DF13>FGC5494

DF13>Z255

DF13>FGC11134

DF13>Z251

DF13>CTS2501

DF13>L1335

DF13>DF1

DF13>Z253

DF13>DF21

DF13>DF49

DF49>M222

3500 BC
BY16213*

3000 BC
BY16213*

2500 BC
BY16213*
PF714*

FGC91110

FGC91110

Y131346

FGC91110

Y30971

Y91313

Y91313

Y91313

BY10662*
Y45029

BY10662*
Y45029

BY10662*
Y45029

BY21302*
Z6553*

BY21302*
Z6553*

BY21302*
Z6553*

Z17775*

Z17775*

Z17775*

Y85489
BY133179*

Y85489
BY133179*

Y85489
BY133179*

M3336*

M3336*

M3336*

Y125465

Y125465

Y125465

FGC82036*

FGC82036*

FGC82036*

Y126851

Y126851

Y126851

DF29>FTB21048

Z382>BY47230

Y14718*

Y14718*

Y14718*

F1295>BY174945

BY174945

BY174945*
BY174945>Y162893

Y23722

Y23722

Y23722

Y84185

Y84185

Y84185

Y4386*

PF4189>A12373

PF4189>Y84594

Y12072

Y12072

Y12072

A8742*

A8742*

A8742*

A8742*

A8742*

Y51883

Y51883

Y51883*

BY37286*

BY37286*

BY37286*

BY37286*

BY37286*

BY37286*

BY37286>BY37269

BY37269

BY37269

BY60222*

BY60222*

BY60222>BY71227 ;Y71227>BY18621

BY186215

S2742>PH401

PH401

PH401

A16983

BY175113

Y3722

Y3722

Y3722

FGC20479

FGC20479

S19763*

S19763*

S19763>Z7265

S19763>FT140675

S19763>BY14023

Y6099

Y6099>Y42503

Y42503

Y6099>Y38683

Y38683

Y7241*

Y7241*

Y7241*

S20743>Y4902	Y4902
S20743>S8171	S8171

Y10626>Y43545		
L1195>Y3709*		
>Y3709>BY166007*		
>Y3709>BY166007*	BY166007*	
>BY166007>BY16861	BY168618*	
L1195>L1193>Y3712*	Y3712*	
>>Y3712>Y27463*		
>>>Y27463>Y3708	Y3708	Y3708

L1195>L126	L126	L126
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Y8543

Y8543

Y8543

L623*

L623*

Y48949

Y48949

Y48949

FGC80188*

FGC80188*

FGC80188*

Y154827

Y154827

Y154827

Y101509*

Y101509*

Y101509*

Z615*

Z615*

FGC16079*

FGC16079*

Y64860
Y27235

Y64860
Y27235

Y64860
Y27235

FGC51041*
Y62903

FGC51041*
Y62903

FGC51041*
Y62903

Z19971*

Z19971*

Z19971*

Y6409

Y6409

L723>L725	L725	FTA33333 L725
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BZ1487

YP1109*	YP1109*	YP1109*
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YP1051

YP1051

YP1051
CTS4385>FGC9988

YP5578

Y128147

CTS1055

Y7777*

Y7777*

Y7777*

BY3719*

Z2106>FT91192

FT91192>BY187800

Y18959*

CTS6718*

CTS6718*

A8039>Y87436
S1200>FGC30867

U106>A10127

S263>BY20776

L48>Y37962

P312>Y18211
P312>Z30597

DF19>Z39400

DF19>DF88*

U152*

>Z193>FGC5033
>Z193>FGC30128

Z36>BY9459

U152>L2*
U152>L2*
>L2>FGC11577

>L2>Y84137

>L2>A197

FG668*

BY3491
FGC36255*
Y61423

L2>Z49>BY55682

DF27>Z16629
DF27>A11619

DF27>FT182413

DF27>Y23055
DF27>Y11849

DF27>BY20186

DF27>BY159700*
>BY159700>Y151233*
>>Y151233>Y151171

DF27>FT39177>BY19232
DF27>FT39177>S6206

DF27>BY27831
DF27>Z37492

DF27>BY653

DF27>FGC67076

DF27>BY3332>BY19276

DF27>BY3332>PH4023

DF27>FGC67371

FC

DF27>Y13142

DF27>Y14529

DF27>Y32298

DF27>FT318890

DF27>Z2571>Y234976

>Z2571>BY31431*

>Z2571>Y8841

DF27>Z2552>L617

DF27>Z195>Y153322

>Z195>Z209>Z295*

>>Z295>Z216*
>Z195>Z198>PH1909

>>Z198>FGC35858

>>Z198>L165

L21>A5846*

L21>A7905

L21>DF63>CTS6919

>DF63>Y10997>A7811

>DF63>Y10997>Y96622

>>Y10997>Z16245*

>>>Z16245>F10381>BY2596

>>>>F10381>Y21520>FGC364;

L21>DF13

2250 BC
BY16213*
PF714*

2000 BC
BY16213*
PF714*

1750 BC
BY16213*
PF714*

Z20650

Z20650

Y131346
FGC91110

Y131346
Z37806*
FGC91110

Y131346
Z37806*
FGC91110

FGC24064
Z1786*

FGC24064
Z1786*

Y30971
BY7700
Y20806

Y30971
BY7700
Y20806

Y30971
BY7700
Y20806

BY4642

BY4642

BY4642

BY3880*

BY3880*

BY3880*

BY5084>Y152935

Y152935
Y16721>Y16734

Z19851*
Z19851*

Y308211*

Y308211*

Y65865
Y91313

Y65865
Y91313

Y65865
Y91313

BY10662*
Y45029

BY10662*
Y45029

BY10662*
Y45029

BY21302*
Z6553*

BY21302*
Z6553*

BY21302*
Z6553*

FGC60019

FGC60019

BY199514*

Y31000

Y31000

Y126851

Y126851

Y126851

Y19076

Z131>S4663
Z131>A13821*

S4663
A13821*
A13821>PH2706

FTB21048

Z131>FT7306>CTS6397
FTB21048

CTS6397>Y2698
FTB21048

Z63*
Z63>BY151>BY62>BY120817

Z63*
BY120817

Z63*
BY120817

Z63>BY151>BY62>Y8331

Y8331

Y8331

Z63>BY151>S11545

S11545

S11545

Y128228

Y128228

Y128228

Y3866*

Y3866*

A6849*

BY47230

BY47230

BY47230

Y22033

Y15584

Z141>FGC65549

FGC65549

Y180334

S6656
Z26403*

Y14718*

Y14718*

Y14718*

BY174945*
Y162893

BY174945*
Y162893

BY174945*
Y162893

Y23722

Y23722

Y23722

Y84185

Y84185

Y84185
BY205153

Y4386*

Y4386*

Y4386*

A12373

A12373

A12373

Y84594

Y84594

Y84594

Y21980

Y21980

Y12072

Y12072

Y12072

A8742*
Y51883*

Y51883*

Y51883*

BY37269>Y161566

Y161566

Y161566

BY186215
PH401

BY186215
PH401

BY186215
PH401*
PH401>Y140746

A16983
BY175113

A16983
BY175113

A16983
BY175113

Y3722

Y3722

Y3722*

Y3722>A22306

Y3722>Y69224

FGC20479>FGC20473

FGC20473

FGC20473*

FGC20473*

FGC20479>BY31905

BY31905

BY31905

S19763*

S19763*

S19763*

S19763*

S19763*

S19763*

Z7265

Z7265

Z7265

FT140675

FT140675

FT140675

BY14023

BY14023

BY14023

S2488>Y30539

Y30539

Y42503

Y42503

Y42503

Y38683

Y38683

Y38683

Y182235*

Y182235>SK1251

Y7241*

Y7241*

Y7241*

Y4902
S8171
S16056

Y4902>Y143199
S8171
S16056

Y143199
S8171
S16056

Y3708

Y3708

Y3708>B293

Y3708>Y6028>Y46816
Y3708>Y6028>Y33745
>Y6028>BY68692
>Y6028>Y20863

L126

L126

L126

Y8543

Y8543
Y8945

Y8543>Y20885
Y8945

CTS6433>S6480
CTS6433>Y7155

S6480
Y7155

>SK1258>Y31897

Y31897

>SK1258>Y16445

Y16445>Y16441

CTS6433>S2364>Y136469

Y136469

Y48949	Y48949	Y48949
FGC80188*	FGC80188*	FGC80188*
Y154827	Y154827	Y154827
	Y162860	Y162860

Y101509*	Y101509*	Y101509*
Z615*	Y167232*	Y167232*
	Z615*	Z615*
	Z638*	Z638*

	Y16842	Y16842
FGC16079*	FGC16079*	Y155314 FGC16079*
		Y87523
Y64860 Y27235	Y64860 Y27235	Y64860 Y27235

FT72594*	FT72594*	FT72594*
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FGC51041* Y62903	FGC51041* Y62903	FGC51041* Y62903
Z19971* Y6409	Z19971* FTA74003 Y6409	Z19971* FTA74003 Y6409

FTA33333
L725

FTA33333
L725

FTA33333
L725

BZ1487

BZ1487

BZ1487

YP1109*

YP1109*

YP1109*

YP1051
FGC9988

YP1051
FGC9988

YP1051
FGC9988

YP5578

YP5578

YP5578

FT92252*

Y128147

Y128147

Y128147

Y10805*

Y10805*

Y10805*

CTS1055

CTS1055

CTS1055

Y7777*

Y7777*

Y7777*

BY100846

BY100846

BY100846

BY3719*

BY3719*

BY3719*

BY187800

BY187800

BY187800

Y18959*

Y18959*

Y18959*

Y19469*

Y32822

CTS6718*
Y16630
A8053>Y139456
A8053>Y139456>A8051

CTS6718*
Y16630
Y139456
A8051

CTS6718*
Y16630
Y139456
A8051

Y87436
FGC30867

Y87436
FGC30867

Y87436
FGC30867

Y196519>S22763

S22763

S22763

S1199>S24014

A10127

A10127

A10127

FGC71184

FGC71184

BY20776

BY20776

BY20776

Y3965>A10646
Y3965>BY20122*
>BY20122>BY20548

A14208

A14208

Y19279*

Y37962

Y37962

Y37962>BY12508

Y37962>Y10968>L200

>Y10968>A6706> S19342

>>A6706> FGC60982

	BY20467	BY20467
Y18211	Y18211	Y18211
Z30597	Z30597	Z30597

L238>Z2245>BY41521	BY41521	BY41521
L238>Z2245>Z2247*	Z2247*	Z2247*

Z39400	Z39400	Z39400
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DF88*	DF88*	DF88*
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U152*	U152*	U152*
		Y22161

FGC5033
FGC30128

FGC5033
FGC30128

FGC5033
FGC30128

Y29883

Y29883>Y29879

Y29879

Y262855

BY9459

BY9459

Y74656>Y60298
BY9459

Y16884

Y16884

Y16884

L2*
L2*
FGC11577

L2*
L2*
FGC11577

L2*
L2*
FGC11577

Y84137

Y84137
Y139637*

Y84137
Y139637*

A197

A197

A197

Y22312*
BY771

FG668*

FG668*

FG668*

BY3491
FGC36255*
Y61423>FGC79468

BY3491
FGC36255*
FGC79468

BY98312
BY3491
FGC36255*
FGC79468

L20*
L20>S16553

L20*
S16553>S11621

L20>Z1909*

S16553>A17627
Z1909*

BY55682
Y11178

BY55682
Y11178

BY55682
Y11178
A20445

FT129526

FT129526
BY153508

Z16629
A11619

Z16629
A11619

Z16629
A11619

FT182413
Y175517
Y23055
Y11849

FT182413
Y175517
Y23055
Y11849

FT182413
Y175517
Y23055
Y11849

BY20186

BY20186

BY20186*
BY20186*

BY43335

BY43335

BY159700*
Y151233*
Y151171

BY159700*
Y151233*
Y151171

PF6550*
BY159700*
Y151233*
Y151171

BY19232
S6206

BY19232
S6206

BY19232>BY19228
S6206>S6219

BY27831
Z37492

BY27831>A15697
Z37492

A15697
Z37492>FGC23535
Z37492>PH2047

BY653*
BY653>BY21118

BY653*
BY21118

BY653*
BY21118>BY21120

BY21118>BY36454

FGC67076

FGC67076>BY11969

BY11969

BY19276

BY19276

BY19276

PH4023

PH4023

PH4023>PH4318

FGC67371*

FGC67371*

FGC67371*

3C67371>FT31520>FGC1710

FGC17104

FGC17104

Y13142

Y13142

Y13142

Y14529

Y14529

Y14529*
Y14529>Y16972>Y15787
>Y16972>BY19308
L881

Y32298

Y32298

Y32298

FT318890>SK2109

SK2109

SK2109>PH2054*
SK2109>PH2054>Y77621

FT318890>Y3267

Y3267*
Y3267>BY19153

Y3267*
BY19153

Y234976

Y234976

Y234976

BY31431*

BY31431*

BY31431*

Y8841>Y8397

Y8397

Y8397

L617	L617	L617* L617>Y150902 L617>FGC14951
	Y11281* Y101605 Y84567 A11366*	Y11281* Y101605 Y84567 A11366*
	A14368>BY36541 A14368>FGC17071 A14368>BY22335 Y17444	BY36541 FGC17071 BY22335 Y17444
Y153322	Y153322	Y153322

Z295*	Z295*	Z295*
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Z216* PH1909	Z216* PH1909	Z216* PH1909
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FGC35858
L165

FGC35858
L165>FGC29987
L165>BY129

FGC35858
FGC29987
BY129

A5846*

A5846>Y16251

Y16251

A7905

A7905

A7905

CTS6919>S3687

S3687

S3687

A7811

A7811

A7811

Y96622>Y224702

Y224702

Y224702

Z16245*

Z16245*

Z16245*

BY2596

BY2596

BY2596*

BY2596>FT19191

FGC36423

FGC36423

FGC36423*

FGC36423>FGC36421

DF13

DF13*

DF13*

DF13>Y176317

Y176317

DF13>BY23434

BY23434

DF13>FGC24305

FGC24305

DF13>A9507

A9507>BY23593

DF13>BY12357	A9507>CTS2139 BY12357
DF13>BY3925 DF13>FGC13749	BY3925 FGC13749
DF13>BY4048 DF13>FGC43861>Y62830* >>Y62830>BY2868* DF13>Y5305	BY4048 Y62830* Y5305>Y66184
	Y5305>Y19142>A9850 >Y19142>Y46780
DF13>>>Y16233>Y16225	Y16225
>>>Y16233>A2070	A2070
DF13>CTS10201>CTS3386	CTS3386
DF13>S1026* >S1026>Z16887>BY4112 >S1026>S1011>BY173541	S1026* BY4112>Z16903 BY173541
DF13>CTS1751>BY54624 >CTS1751>BY3923>Y86251	BY54624 Y86251>BY30586
>>BY3923>Y30767>FGC49773	FGC49773* FGC49773>FGC49766
>CTS1751>Y18513>Y38288 >CTS1751>Z17969	Y38288>BY30428 Z17969
DF13>S1051	S1051

DF13>FGC5494*	FGC5494*
DF13>FGC5494*	FGC5494*
>FGC5494>FGC19329	FGC19329
>FGC5494>FGC19914	FGC19914
>FGC5494>Y9090	Y9090
>FGC5494>Y9097*	Y9097*
>>Y9097>A7677	A7677
FGC5494>FGC69926>Z16503	Z16503>A12817
>>>Z16503>FGC13517>Z17651	Z17655
>FGC5494>S7958>Y136898*	Y136898*
>>S7958>FGC7448*	FGC7448*
>>>FGC7448>FGC5496>S1088	S1088*
>>>>FGC5496>Y15071>FGC5549	FGC5549*
	FGC5549>FGC5511
>>>>>Y15071>Y18844	Y18844

DF13>FGC11134

FGC11134*
FGC11134>BY30952

FGC11134>BY34871

BY20951

DF13>Z251* Z251*
DF13>Z251>Y7624 Y7624

DF13>Z251>S11556* S11556*
>Z251>S11556>Y82327 Y82327
>>S11556>S9294>Y11273* Y11273*
>>>>Y11273>FGC65746 FGC65746
>>>>Y11273>FGC11986 FGC11986

>>>>Y11273>Y15634>Y11270 Y11270

Z251>Y5833 Y5833>CTS4157>A11676
Y5833>Y5803>FT74121*
>>FT74121>BY112307
Y5833>Y5803>Y31810
Y5833>Y5803>A6077

Y5833>Y5803>BY9603
Y5833>Y5803>Y5826

DF13>CTS2501>BY39033 BY39033

>CTS2501>FGC13023>FT1754: FT175414

DF13>CTS2501>BY114 BY114
DF13>CTS2501>A874* A874*
>>A874>A875 A875

>CTS2501>Y8426>MC21 MC21
>CTS2501>Y8426>BY160 BY160
>CTS2501>Y8426>Y5658>A4C A4C

>CTS2501>S775

S775

DF13>L1335

L1335

DF13>DF1>Y44961
>DF1>Z23534

Y44961
Z23534

>DF1>S6365

S6365>L706.2
S6365>Y3553

>DF1>S5668

S5668*
S5668>Z16357>Z16351

S5668>Z16340

S5568>FGC13499>FGC1350
S5568>FGC13499>S7834
S5568>FGC13499>S5979

DF13>Z253*

Z253*

Z253>>FT31956>Y198506

Y198506

Z253>>FT31956>BY23575

BY23575

Z253>FGC3268>FGC3222

FGC3222

Z253>Z2534>FGC41893

FGC41893

Z253>Z2534>FGC8284

FGC8284

Z253>Z2534>BY13693

BY13693>Y134019

>Z2534>A16>BY20037

BY20037

>Z2534>A16>A276

A276*

A276>A14

Z253>Z2534>Z2185>A287

A287>BY62794

A287>PH1704

Z2185>Z2186>Z2183>BY1982

BY19824

>>Z2183>FGC23702

FGC23702

>>Z2183>A11736

A11736

>>Z2183>FT230137>FT25222

FT25222

>>Z2183>BY20072

BY20072

>>Z2183>CTS9881

CTS9881

DF13>DF21*	DF21*
DF13>DF21>BY13823	BY13823
DF13>DF21>Y15984	Y15984
DF13>DF21>BY99030	BY99030
>DF21>Z16532>Y34280	Y34280
>DF21>Z16532>Z16528	Z16528
>DF21>Z16267>BY23456	BY23456
>DF21>S3058	S3058>BY2719

S3058>Y22972

S3058>S424

S3058>Y2890>DF25*
>>DF25>FGC84872
>>DF25>DF5>FGC72907
>>DF25>DF5>CTS5524

>>DF25>DF5>Y35187

>>>DF5>CTS3655>Y12651

>>>>Y12651>Y67497

>>>DF5>CTS3655>L627

DF21>S5488

S5488*

S5488*

S5488>A6484

S5488>FGC11358>Y14258

S5488>FGC11358>L1336

S5488>S7220>Z16299

S5488>S7220>FGC53208

S5488>Z16294

DF13>DF49>BY23924

BY23924*

DF13>DF49>FGC11175

FGC11175*

FGC11175>ZP80

DF13>DF49>Z2980*

Z2980*

DF13>DF49>Z2980*

Z2980*

>>Z2980>Z2976>FT94077

FT94077

>>>Z2976>DF23>Y29872

Y29872

>>>Z2976>DF23>BY35099

BY35099

>>>Z2976>DF23>Y24525

Y24525

>>>Z2976>DF23>ZP149

ZP149>ZP171

>>>>DF23>Z2961>ZP75>BY3436

BY3436

>>>>DF23>Z2961>ZP75>ZP77

ZP77>A8255

ZP77>BY3437

1500 BC	1250 BC	1000 BC	750 BC
BY16213*	BY16213*	BY16213*	BY16213*
PF714*	PF714*	PF714*	PF714*
		Y311987*	Y311987*
Z20650	Z20650	Z20650	Z20650
			Y20219*
			Y20219>Y24438
Y131346	Y131346	Y131346	Y131346
Z37806*	Z37806*	Z37806*	Z37806*
FGC91110	FGC91110	FGC91110	FGC91110
FGC24064	FGC24064	FGC24064	FGC24064
Z1786*	Z1786*	Z1786*	Z1786*
CTS127	CTS127	CTS127	CTS127
Y99554	Y99554	Y99554	BY8832*
			Y99554
	FTA63816	BY8405	BY8405
		FTA63816	FTA63816
Y30971	Y30971	Y30971	Y30971
BY7700	BY7700	BY7700	BY7700
Y20806	Y20806	Y20806	Y20806
			Y91576*
BY5965	BY5965	BY5965	BY5965
		S24894	S24894
BY4642	BY4642	BY4642>A10665	A10665
		A2192>Y133119	Y133119

BY160711 FTB9784	BY160711* FTB9784	BY160711* FTB9784	BY160711* FTB9784
BY3880*	BY3880*	BY3880*	BY3880*
Y152935 Y16734* Y16734>Z38518	Y209034 Y152935 Y16734* Z38518	Y209034 A11182* Y152935 Y16734* Z38518	Y209034 A11182* Y152935 Y16734* Z38518
Z19851* Z19851*	Z19851* Z19851*	Z19851* Z19851*	Z19851* Z19851* CTS5415*
Y155451	Y155451	Y20431 Y155451	Y20431 Y155451

BY6550*

Y308211*	Y308211*	Y308211*	Y308211*
Y65865 Y91313 L793*	Y65865 Y91313 L793*	Y65865 Y91313 L793*	Y65865 Y91313 L793*
BY10662* Y45029	BY10662* Y45029	BY10662* Y45029	BY10662* Y45029

BY21302* Z6553*	BY21302* Z6553*	BY21302* Z6553*	BY21302* Z6553*
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Z17775*	Z17775*	Z17775*	Z17775*
FGC1053*	FGC1053*	FGC1053*	FGC1053*
Y85489	Y85489	Y85489	Y85489
BY133179*	BY133179*	BY133179*	BY133179*
FGC58133	FGC58133	FGC58133>Z43083	Z43083
		FGC58133>FGC58189	FGC58189*
Y82047*	Y82047*	Y82047*	Y82047*
M3336*	M3336*	M3336*	M3336*
Y24446*	Y24446*	Y24446*	Y24446*
Y94474*	Y94474*	Y94474*	Y94474*
Y94474*	Y94474*	Y94474*	Y94474*
	FT44209	FT44209	FT44209
Y125465	Y125465	Y125465	Y125465
FGC82036*	FGC82036*	FGC82036*	FGC82036*
L640	L640	L640	L640
FGC23437*	FGC23437*	FGC23437*	FGC23437*
L660*	L660*	L660*	L660*
		CTS12777*	CTS12777*
Z6764>Z42471	Z42471	Z42471	Z42471
Z6764>FGC1016*	FGC1016*	FGC1016*	FGC1016*
>FGC1016>Z39372	Z39372	Z39372	Z39372
	Z30781	Z30781	Z30781
BY152564	BY152564	BY152564	BY152564
FGC809*	FGC809*	FGC809*	FGC809*
BY54283	BY54283	BY54283	BY54283
Z36218	Z36218	Z36218	Z36218
			Z34079

FGC60019	FGC60019	FGC60019	FGC60019
		Y244980	Y244980
BY199514*	BY199514*	BY199514*	BY199514*
Y36533	Y36533	Y36533	Y36533
Y31000	Y31000	Y31000	Y31000
		S2784	S2784
			Z30742*
Y126851	Y126851	Y126851	Y126851
		Y21609*	Y21609*
		BY16702*	BY16702*
	A9606*	A9606*	A9606*
Y19076	Y19076	Y19076>Y53530	Y53530
		Y19076>A9222	A9222
S4663	S4663	S4663	S4663
A13821*	A13821*	A13821*	A13821*
PH2706	PH2706	PH2706	PH2706
Y2698	Y2698	Y2698	Y2698
FTB21048	FTB21048	FTB21048	FTB21048
FGC15556*	FGC15556*	FGC15556*	FGC15556*
Z63*	Z63*	Z63*	Z63*
BY120817	BY120817	BY120817	BY120817
Y8331	Y8331*	Y8331*	Y8331*
	Y8331*	Y8331*	Y8331*
S11545	S11545	S11545	S11545

	Y13946	Y13946	Y13946
Y128228	Y128228	Y128228	Y128228
S2077>FT401330	FT401330	FT401330	FT401330
S2077>Y45752	Y45752	Y45752	Y45752
S2077>Y6375	Y6375	Y6375	Y6375

S2077>MF603955	MF603955	Y133856 MF603955	Y133856 MF603955
FGC29244	FGC29244	FGC29244	FGC29244*
Y3979>Y3969	Y3969	Y3969	Y3969
		Y7626*	Y7626*
		Y7626*	Y7626*
			L1237>Y43820
			Y6615

Y11252*	Y11252*	Y11252*	Y11252*
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Y3866*	Y3866*	Y3866*	Y3866*
	L1275	L1275	L1275

FGC10445	FGC10445	FGC10445>Y19053
		FGC10445>FGC1047

M8151

FGC67216

FGC67216

Y5842*

Y4045

Y4045

Y5153

Y5153

A6849*

A6849*

A6849*

A6849*

A9192

A9192

A9192

A6412

BY47230	BY47230>Y187003	Y187003	Y187003
Z26340>CTS6617	BY47230>BY45736	BY45736	BY45736
	CTS6617>Y198553	Y198553	Y198553

BY170069
A21841

Y22033	Y22033	Y22033	Y22033
Y15584	Y15584	Y15584	Y15584

PH902 PH902

Y152457 Y152457

Y31033

Y31033

Y31033

Y31033

FGC65549

FGC65549

FGC65549

FGC65549

A1373*

A1373*

BY51190

BY51190>Y38453

A1395

A1395

A1395

A1395

Y3647

Y3647

Y180334

Y180334

Y180334

Y180334

A1930

Y33691

A11317

A12708

S6656	S6656	S6656	S6656
Z26403*	Z26403*	Z26403*	Z26403*
Y17390*	Y17390*	Y17390*	Y17390*
	BY37467*	BY37467*	BY37467*
	BY37467*	BY37467*	BY37467*
Y14718*	Y14718*	Y14718*	Y14718*

BY174945*	BY174945*	Y50490>Y44831 BY174945*	Y44831 BY174945*
Y162893	Y162893	Y162893	Y162893
Y23722	Y23722	Y23722	Y25699 Y23722
Y84185	Y84185	Y23412* Y60821 Y84185	Y23412* Y60821 Y84185
BY205153	BY205153*	BY205153*	BY205153*
Y4386*	BY205153* Y4386*	BY205153* Y4386*	BY205153* Y4386*
A12373	A12373	A12373* A12373* A12373>BY64875	A12373* A12373* BY64875
Y84594	Y84594>Y90362	Y90362	Y90362
	Y84594>BY68371	BY68371	BY68371
Y21980	Y21980	Y21980	Y21980

Y12072	Y12072	Y12072* Y12072>Y12070>Y8574 >Y12070>PF4135	Y12072* Y85743 PF4135
		Y31015	Y31015 BY1236*
Y51883*	Y51883*	Y51883*	Y51883*
Y161566	Y161566	Y161566	Y161566
BY186215 PH401* Y140746	BY186215 PH401* Y140746* Y140746*	BY186215 PH401* Y140746* Y140746* S2624	BY186215 PH401* Y140746* Y140746* S2624
A16983 BY175113*	A16983 BY175113*	A16983 BY175113* Y14342	A16983 BY175113* Y14342
Y3722*	Y3722*	Y3722*	Y3722*

A22306>Y157525	Y157525	Y157525	Y157525
A22306>Y7847	Y7847	Y7847	Y7847
Y69224	Y69224	Y69224	Y69224

FGC14453*

FGC20473*	FGC20473*	FGC20473*	FGC20473*
FGC20473*	FGC20473*	FGC20473*	FGC20473*
BY31905	BY31905	BY31905	BY31905

Y49785	Y49785	Y49785	Y49785>Y45198
S19763*	S19763*	S19763*	S19763*
S19763*	S19763*	S19763*	S19763*
Z7265	Z7265	Z7265	Z7265*
			Z7265>A522
FT140675	FT140675	FT140675	FT140675
BY14023	BY14023	BY14023	BY14023

Y20295	Y20295	Y20295	Y20295
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			Y18921*
Y30539	Y30539	Y30539	Y30539
		Y59902	Y59902
PH1237*	PH1237*	PH1237*	PH1237*
		PH2591*	PH2591*

Y42503	Y42503	Y42503	Y42503
Y38683	Y38683	Y38683	Y38683
Y182235*	Y182235*	Y182235*	Y182235*
SK1251	SK1251	SK1251	SK1251

Y7241*	Y7241*	Y7241*	Y7241*
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Y143199*	Y143199*	Y143199*	Y143199*
S8171	S8171	S8171	S8171
S16056	S16056	S16056	S16056
		Y10648	Y10648

BY138>BY60966	BY60966
BY138>Y13321	Y13321

B293	B293>Z31168*	Z31168*	Z31168*
	>Z31168>FT13004	FT13004*	FT13004*
		FT13004*	FT13004*
Y46816	Y46816	Y46816	Y46816
Y33745	Y33745	Y33745	Y33745
BY68692	BY68692	BY68692	BY68692
Y20863	Y20863	Y20863	Y20863
L126	L126	L126>FGC20063*	FGC20063*
		>FGC20063>Y34450	Y34450

>FGC20063>Y4171	Y4171
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Y20885
Y8945

Y20885*
Y8945

Y20885*
Y8945

Y20885*
Y8945

Y5359

Y5359

Y5359

Y5359

BY57564

BY57564

Y4946*
Y4946>Y131277

Y4946*
Y131277

Y4946*
Y131277

Y7151

Y7151>CTS1858

(
(

S6480
Y7155

S6480
Y7155

S6480
Y7155*
Y7155>Y7426

S6480
Y7155*
Y7426

Y31897
Y16441>FGC56722

Y31897
FGC56722

Y31897
FGC56722

Y31897
FGC56722

F

Y16441>Y16443

Y16443

Y16443

Y16443

Y136469

Y136469

Y136469

Y136469
Y102504

Y14695*

Y14695*

Y14695*

Y7263

Y7263

BY205692

BY205692

BY205692

Y17942

Y17942>Y49919
Y49919>FGC55836

Y49919
FGC55836

Y44338

Y132599
Y44338

Y132599
Y44338

FT86361*
FT86361>Y17535

S8298*
CTS7618

Y48949	Y48949	Y48949	Y48949
FGC80188*	FGC80188*	FGC80188*	Y73555* FGC80188*
Y154827	Y154827	Y154827	Y154827
Y162860	Y162860	Y162860	FT264818* Y162860

Y101509*	Y101509*	Y101509*	Y101509*
Y167232*	Y167232*	Y167232*	Y167232*
Z615*	Z615*	Z615*	Z615*
	Z4133*	Z4133*	Z4133*
Z638*	Z638*	PH1602* Z638*	PH1602* Z638*
		Y182183*	Y182183*
			FT33373*

Y36202*	Y36202*
	FT99882

Y136384

Y16842	Y16842	Y16842	Y16842
Y155314 FGC16079*	Y155314 FGC16079*	Y155314 FGC16079*	Y155314 FGC16079*
Y87523	Y87523	Y87523 Z39057*	Y87523>Z45881 Z39057*
Y64860 Y27235	Y64860 Y27235	Y64860 Y27235	Y64860 Y27235

FGC22532 FGC22532

BY66226* BY66226* BY66226* BY66226*

FT72594* FT72594* Y16179 FT72594* Y16179
Y26650* Y26650*
BY127048* BY127048* BY127048*
Z2177* Z2177* Z2177* Z2177*

Y63950* Y63950*

FGC51041* Y62903	FGC51041* Y62903	FGC51041* Y62903>Y61682	FGC51041* Y61682 BY60850
Z19971* FTA74003 Y6409	Z19971* FTA74003 Y6409	Z19971* FTA74003 Y6409	Z19971* FTA74003 Y6409

FGC30201* FGC30201*

Y101945* Y101945* Y101945* Y101945*

FTA33333 L725	FTA33333 L725	FTA33333 L725	FTA33333 L725
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BZ1487

BZ1487

BZ1487

BZ1487

L804>Y7582

Y7582

YP1109*

YP1109*

YP1109*

YP1109*

YP1051
FGC9988

YP1051
FGC9988

YP1051
FGC9988

YP1051
FGC9988

YP943

YP943

YP943

YP943

FGC57195

FGC57195

YP5578	YP5578	YP5578	YP5578
FT92252*	FT92252*	FT92252*	FT92252*
		BY87922*	BY87922*
YP1359	YP1359	YP1359	YP1359
		BY30764*	BY30764*
YP6291	YP6291	YP6291	YP6291
		Y40719*	Y40719*
Y128147	Y128147	Y128147	Y128147
Y10805*	Y10805*	Y10805*	Y10805*
CTS1055	CTS1055	CTS1055	CTS1055

YP398*

YP398*

Y7777*	Y7777*	Y7777*	Y7777*
BY100846	BY100846	BY100846	BY100846
BY3719*	BY3719*	BY3719*	BY3719*
BY187800	Y82789* BY187800	Y82789* BY187800	Y82789* BY187800
Y20344	Y20344	PH2309* Y20344	PH2309* Y20344
Y18959*	Y18959*	Y18959*	Y18959*
Y19469* Y32822	Y19469* Y32822	Y19469* Y32822	Y19469* Y32822
	Y28635	Y28635	Y28635

CTS6718*	CTS6718*	CTS6718*	CTS6718*
Y16630	Y16630>BY12063	BY12063	BY12063
Y139456	Y139456	Y139456	Y139456
A8051>A8062	A8062	A8062	A8062
A8051>FGC37108	FGC37108	FGC37108>FGC37090	FGC37090
Y87436	Y87436	Y87436	Y87436
FGC30867	FGC30867	FGC30867	FGC30867
S22763	S22763	S22763	S22763
		FGC23887*	FGC23887*
			CTS7354
S24014	S24014>A8506	A8506	A8506
FT123394*	FT123394*	FT123394*	FT123394*
FT123394>Y23200	Y23200	Y23200	Y23200
A10127	A10127	A10127	A10127
	BY50725	BY50725	BY50725>BY50728
	FGC12021>FGC53757	FGC53757	FGC53757
		Y11145*	Y11145*
FGC71184	FGC71184	FGC71184	FGC71184>BY19841
Z19>FGC5817	FGC5817>FGC5809	FGC5809	FGC5809
BY18864*	BY18864*	BY18864*	BY18864*
Y125046>Y133217	Y133217	Y133217	Y133217
		Y38140*	Y38140*
		Y38140>Y29971	Y29971

BY20776	BY20776	BY20776	BY20776
A10646	A10646	A10646	A10646
BY20122*	BY20122*	BY20122*	BY20122*
BY20548	BY20548	BY20548	BY20548
Y319166*	Y319166*	Y319166*	Y319166*
Y319166>BY17919	BY17919	BY17919	BY17919*
	FTA16837	FTA16837	FTA16837
		Y19736	Y19736
		FGC11672	FGC11672
Y65747>Y64481	Y64481	Y64481	Y64481
			BY19410
FGC13343*	FGC13343*	FGC13343*	FGC13343*
S4004*	S4004*	S4004*	S4004*
S4004>FGC14823*	FGC14823*	FGC14823*	FGC14823*
		FGC20580	FGC20580
	Y17440	Y17440	Y17440
			BY41863*

	FGC50035*	FGC50035*	FGC50035*
		BY20283	BY20283
A14208	A14208	A14208	A14208
	U198>Y37240	Y37240	Y37240
	U198>JFS0009	JFS0009	JFS0009* JFS0009>FGC43819
		S9787>Y23815	Y23815 S4078>S4060>BY295 S4078>S4060>S4076
			Y14063
Y19279*	Y19279*	Y19279*	Y19279*
BY12508	BY12508	BY12508	BY12508
L200	L200	L200>A11431	A11431* A11431>ACT920
S19342	S19342	L200>Y10969 S19342>Y23102	Y10969>A762 Y23102
FGC60982	FGC60982>Y29866	Y29866	Y29866

	FGC6202*	FGC6202*	FGC6202*
L163>L46>Y191876	Y191876	Y191876	Y191876
L163>L46>L45	L45	L45	L45

Z159>Y46067	Y46067	Y46067	Y46067
Z159>S8368	S8368	S8368>S18883	S18883
		S8368>FGC15450	FGC15450
		Z4714>Y137011	Y137011

FGC19972

BY16547>FGC70051

FGC70051

FGC70051>BY40178

BY40178

Y3159*

Y3159*

Y3159*

FGC906>FGC919
FGC906>FGC54652

FGC919
FGC54652

FGC919
FGC54652
FT124389

BY70305

FGC5264

Z343*

Z343>FGC11784

S3933>FT153218
S3933>FGC17039

BY20467	BY20467	BY20467	BY20467
Y18211	Y18211	Y18211	Y18211
Z30597>Z30596*	Z30596*	Z30596*	Z30596*
Z30596*	Z30596*	Z30596*	Z30596*

BY41521	BY41521	BY41521	BY41521
Z2247*	Z2247*	Z2247*	Z2247*

Y11660*	Y11660*	Y11660*
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Z39400	Z39400	Z39400	Z39400
FT18289	FT18289>CTS2975	CTS2975	CTS2975

DF88*	FT18289>Z39898	Z39898*	Z39898*
	DF88*	DF88*	DF88*

S4268*	S4268*	S4268*	S4268*
S4268>Y11522	Y11522	Y11522	Y11522
		Y6237>FT26900*	FT26900*

Y6237>S17075	S17075>L644
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U152*	U152*	U152*	U152*
Y22161	Y22161	Y22161	Y22161

FGC5033 FGC30128	FGC5033 FGC30128	FGC5033>BY117303 FGC30128>BY3854	BY117303* BY3854
		BY3851*	BY3851*
Y29879	Y29879	Y29879	Y29879
		BY6638	BY6638
	BY3949	BY3949	BY3949
	BY70282	BY70282	BY70282
Y262855	Y262855	Y262855	Y262855
	PH2982*	PH2982*	PH2982*
	FGC36902*	FGC36902*	FGC36902*
		BY186940	BY186940
Y60298	Y60298	Y60298	Y60298
BY9459*	BY9459*	BY9459*	BY9459*
	S44>Y24953	Y24953	Y24953
FGC59783*	FGC59783*	FGC59783*	FGC59783*
FGC59783>FGC71023*	FGC71023*	FGC71023*	FGC71023*
Y16884	Y16884	Y16884	Y16884
L2*	L2*	L2*	L2*
L2*	L2*	L2*	L2*
FGC11577	FGC11577	FGC11577	FGC11577
		YF012582*	YF012582*
Y84137	Y84137	Y84137	Y84137
Y139637*	Y139637*	Y139637*	Y139637*
	Y19742	Y19742	Y19742
A197	A197	A197	A197
BY3490*	BY3490*	BY3490*	BY3490*
		FGC42933*	FGC42933*
		L135>FT59110	FT59110
		L135>Y31324	Y31324
Y22312*	Y22312*	Y22312*	Y22312*
BY771	BY771	BY771	BY771
	FT112540*	FT112540*	FT112540*
			BY171286*
Y43738	Y43738	Y43738	Y43738
A1706>L196	L196	L196	L196
FG668*	FG668*	FG668*	FG668*

BY98312	BY98312	BY98312	BY98312
BY3491	BY3491	BY3491	BY3491
FGC36255*	FGC36255*	FGC36255*	FGC36255*
FGC79468	FGC79468	FGC79468	FGC79468
			BY34110
FT190968	FT190968	FT190968	FT190968
	PH137	PH137	PH137
L20*	L20*	L20*	L20*
S11621	S11621	S11621*	S11621*
		S11621>Y111961	Y111961
A17627>Y139277	Y139277	Y139277>Y139223	Y139223
Z1909*	Z1909*	Z1909*	Z1909*
			FT40040*
			Y23243
	FT87109	FT87109	FT87109
Y15105	Y15105	Y15105	Y15105
CTS7275	CTS7275	CTS7275	CTS7275
Y300559*	Y300559*	Y300559*	Y300559*
BY3555	BY3555	BY3555	BY3555
		BY33990	BY33990
BY55682	BY55682	BY55682	BY55682
Y11178	Y11178	Y11178	Y11178
A20445	A20445	A20445	A20445
		Y44772	Y44772
	Y55766	Y55766	Y55766
			Y24530*
	Y9080>FGC12384	FGC12384	FGC12384
	Y9080>Y23226	Y23226	Y23226
FT38430*	FT38430*	FT38430*	FT38430*
	BY33580	BY33580	BY33580
		CTS11381	CTS11381
		CTS9462	FGC69675*
			CTS9462

Y23824	Y23824	Y23824	Y23824* Y23824>FT92823* >FT92823>Y302902
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		BY1544	BY1544
FT129526 BY153508	FT129526 BY153508 CTS7906*	FT129526 BY153508 CTS7906*	FT129526 BY153508 CTS7906* CTS4706* FTA8779
		FTA8779	FTA8779

Z16629 A11619	Z16629 A11619	Z16629 A11619	Z16629 A11619
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FT182413 Y175517 Y23055>Y161662 Y11849	FT182413 Y175517 Y161662 Y11849 Y30754*	FT182413 Y175517 Y161662 Y11849 Y30754*	FT182413 Y175517 Y161662 Y11849 Y30754*
BY20186* BY20186*	BY20186* BY20186*	BY20186* BY20186*	BY20186* BY20186*

BY43335	BY43335>FGC23066	FGC23066	FGC23066
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PF6550* BY159700* Y151233* Y151171	PF6550* BY159700* Y151233* Y151171	PF6550* BY159700* Y151233* Y151171	PF6550* BY159700* Y151233* Y151171
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BY19228 S6219	BY19228 S6219	BY19228 S6219	BY19228 S6219>Y49770
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A15697 FGC23535>FGC40678 PH2047>FGC49738 BY653* BY21120	A15697 FGC40678 FGC49738* BY653* BY21120	A15697 FGC40678 FGC49738* BY653* BY21120	A15697 FGC40678 FGC49738* BY653* BY21120
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BY36454 A5303 BY11969	BY36454>BY45079 A5303 BY11969>Y36976 BY11969>Y36306	BY45079 A5303 Y36976 Y36306	BY45079 A5303 Y36976 Y36306
BY19276	BY19276	BY19276	BY19276
PH4318	PH4318	PH4318>BY44621	BY44621
FGC67371* FGC17104	FGC67371* FGC17104	FGC67371* FGC17104	FGC67371* FGC17104
Y13142	Y13142	Y13142	Y13142
Y14529* Y15787 BY19308 L881	Y14529* Y15787 BY19308 L881	Y14529* Y15787 BY19308* L881	Y14529* Y15787 BY19308* L881
Y32298 Z2565* Z2565>FGC49010*	Y32298 Z2565* FGC49010*	Y32298 Z2565* FGC49010* A11637	Y32298 Z2565* FGC49010* A11637
PH2054* Y77621 Y3267* BY19153	PH2054* Y77621 Y3267* BY19153	PH2054* Y77621 Y3267* BY19153	PH2054* Y77621 Y3267* BY19153
Y234976 BY31431* Y8397	Y234976 BY31431* Y8397	Y234976 BY31431* Y8397	Y234976 BY31431* Y8397

L617*	L617*	L617*	L617*
Y150902	Y150902	Y150902	Y150902
FGC14951>Y17452	Y17452	Y17452	Y17452
		FTA78382*	FTA78382*
Y11281*	Y11281*	Y11281*	Y11281*
Y101605	Y101605	Y101605	Y101605
Y84567	Y84567	Y84567	Y84567
A11366*	A11366*	A11366*	A11366*
			Y62177
BY36541	BY36541	BY36541	BY36541
FGC17071	FGC17071	FGC17071	FGC17071
BY22335	BY22335	BY22335	BY22335
Y17444	Y17444	Y17444	Y17444
Y153322	Y153322	Y153322	Y153322
FT234339	FT234339	FT234339	FT234339
	Y59659*	Y59659*	Y59659*
	Y59659*	Y59659*	Y59659*
Y3470*	Y3470*	Y3470*	Y3470*
Y3470>Y134059	Y134059	Y134059*	Y134059*
			M428
BY32742	BY32742	BY32742	BY32742
Z295*	Z295*	Z295*	Z295*
	FGC23196*	FGC23196*	FGC23196*
		BY36243	BY36243
		Y96610*	Y96610*
		Y13213*	Y13213*
		Y13213>Y17458	Y17458
		Y10797*	Y10797*
			FGC15748*
BY31939	BY31939	BY31939	BY31939
		FGC29748*	FGC29748*
Z216*	Z216*	Z216*	Z216*
PH1909	PH1909*	PH1909*	PH1909*
	PH1909>PH3372	PH3372	PH3372

FGC35858	FGC35858	FGC35858	FGC35858
FGC29987>BY13623	BY13623	BY13623	BY13623
BY129	BY129	BY129>Y5117	Y5117>BY3209
			Y5117>Y5113

		BY27739*	BY27739*
	S11475*	S11475*	S11475*
	S11475*	S11475*	S11475*
			Y303155*
			Y8410
Y34472	Y34472	Y34472	Y34472
		CTS3555	CTS3555>Y7729
			CTS3555>Y28570
			CTS3555>Y30608

	Z206>FT115084	FT115084	FT115084
	Z206>Z208*	Z208*	Z208*
	Z206>Z208>Y74968	Y74968	Y74968>Y73696

BY33784
CTS4863*

BY40726

Y16251>Y18454	Y18454	Y18454	Y18454
A7905	A7905	A7905	A7905
S3687	S3687	S3687	S3687
A7811>BY20330*	BY20330*	BY20330*	BY20330*
Y224702	Y224702	Y224702	Y224702
Z16245*	Z16245*	Z16245*	Z16245*
BY2596*	BY2596*	BY2596*	BY2596*
FT19191	FT19191	FT19191	FT19191
FGC36423*	FGC36423*	FGC36423*	FGC36423*
FGC36421	FGC36421	FGC36421>Y163732	Y163732
DF13*	DF13*	DF13*	DF13*
Y176317	Y176317	Y176317	Y176317
BY23434	BY23434	BY23434	BY23434
FGC24305	FGC24305	FGC24305	FGC24305*
BY23593	BY23593	BY23593	BY23593

CTS2139 BY12357	CTS2139 BY12357	CTS2139 BY12357*	CTS2139 BY12357*
BY3925 FGC13749*	BY3925 FGC13749*	BY3925 FGC13749*	BY3925 FGC13749*
BY24287	BY24287	BY24287	BY24287
BY4048 Y62830*	BY4048 Y62830*	BY4048 Y62830*	BY4048>BY19430 Y62830*
Y66184	Y66184	Y66184	Y66184
A9850 Y46780	A9850 Y46780*	A9850 Y46780*	A9850 Y46780*
Y16225	Y16225	Y16225	Y16225
A2070	A2070	A2070	A2070
CTS3386>S19268* CTS3386>FT14391	S19268* FT14391	S19268* FT14391>FT44417 FT14391>Z17970	S19268* FT44417 Z17970
S1026* Z16903 BY173541>FT5949	S1026* Z16903 FT5949* FT5949*	S1026* Z16903>BY2600 FT5949* FT5949*	S1026* BY2600 FT5949* FT5949*
BY54624* BY30586	BY54624* BY30586	BY54624* BY30586	BY54624* BY30586
FGC49773* FGC49766	FGC49773* FGC49766	FGC49773* FGC49766	FGC49773* FGC49766
BY30428 Z17969>BY161172 Z17969>Z17967>BY596	BY30428 BY161172 BY596	BY30428 BY161172 BY596>Y49374 BY596>BY595	BY30428 BY161172 Y49374 BY595
S1051* S1051>FGC29516 S1051>Y23823	S1051* FGC29516 Y23823	S1051* FGC29516 Y23823* Y23823>BY23657 Y23823>FGC52285	S1051* FGC29516 Y23823* BY23657 FGC52285
S1051>FGC42321*	FGC42321*	FGC42321*	FGC42321*

FGC42321>A4604>FGC42336	FGC42336	FGC42336	FGC42336
>>A4604>FGC46820	FGC46820	FGC46820	FGC46820
S1051>FGC17906	FGC17906>FGC19428	FGC19428	FGC19428
S1051>S1050	S1050	S1050	S1050
FGC5494*	FGC5494*	FGC5494*	FGC5494*
FGC5494*	FGC5494*	FGC5494*	FGC5494*
FGC19329	FGC19329	FGC19329	FGC19329
FGC19914	FGC19914	FGC19914	FGC19914
Y9090	Y9090	Y9090	Y9090
Y9097*	Y9097*	Y9097*	Y9097*
A7677	A7677	A7677	A7677
A12817	A12817	A12817	A12817
Z17655>FGC61834	FGC61834	FGC61834>Y31855	Y31855
Y136898*	Y136898*	Y136898*	Y136898*
FGC7448*	FGC7448*	FGC7448*	FGC7448*
S1088*	S1088*	S1088*	S1088*
FGC5549*	FGC5549*	FGC5549*	FGC5549*
FGC5511*	FGC5511*	FGC5511*	FGC5511*
FGC5511>FGC5517	FGC5517	FGC5517	FGC5517
Y18844>BY33481	BY33481	BY33481	BY33481
Y18844>FGC43417	FGC43417	FGC43417	FGC43417*
			FGC43417>Y34544
FGC11134*	FGC11134*	FGC11134*	FGC11134*
BY30952	BY30952	BY30952	BY30952
BY34871*	BY34871*	BY34871*	BY34871*
BY34871>Y83315	Y83315	Y83315	Y83315
FGC11276	FGC11276	FGC11276	FGC11276

BY20951	BY20951	BY20951	BY20951
Z251*	Z251*	Z251*	Z251*
Y7624>Y44741	Y44741	Y44741	Y44741
Y7624>A248>A228	A228	A228	A228
S11556*	S11556*	S11556*	S11556*
Y82327	Y82327	Y82327	Y82327
Y11273*	Y11273*	Y11273*	Y11273*
FGC65746	FGC65746	FGC65746	FGC65746
FGC11986*	FGC11986*	FGC11986*	FGC11986*
FGC11986>FGC12414	FGC12414	FGC12414>BY107437	BY107437
FGC11986>Y30679>BY9005	BY9005*	BY9005*	BY9005*
Y11270	Y11270	Y11270	Y11270
A11676>A11648	A11648	A11648	A11648
FT74121*	FT74121*	FT74121*	FT74121*
BY112307	BY112307	BY112307	BY112307
Y31810	Y31810	Y31810	Y31810
A6077>Y32361>BY23397	BY23397	BY23397	BY23397
A6077>Y32361>Y86996	Y86996	Y86996	Y86996
BY9603	BY9603	BY9603>FT98630	FT98630
Y5826	Y5826>FT169596	FT169596	FT169596
BY39033*	BY39033*	BY39033*	BY39033*
BY39033*	BY39033*	BY39033*	BY39033*
FT175414	FT175414	FT175414	FT175414
BY114	BY114	BY114	BY114>Y31305
A874*	A874*	A874*	A874*
A875*	A875*	A875*	A875*
A875>A1787>BY23505	BY23505	BY23505	BY23505
MC21	MC21	MC21	MC21
BY160	BY160	BY160	BY160
A40	A40	A40	A40

S775>A600

A600

A600*

A600*

S775>L744

L744

A600*

A600*

L744

L744

L1335

L1335

L1335

L1335

Y44961 Z23534	Y44961 Z23534	Y44961 Z23534	Y44961 Z23534
L706.2 Y3553>Y3556* Y3553>Y3556>CTS3087	L706.2 Y3556* CTS3087	L706.2 Y3556* CTS3087	L706.2 Y3556* CTS3087
Y3553>Z16379	Z16379	Z16379	Z16379
S5668* Z16351	S5668* Z16351	S5668* Z16351	S5668* Z16351
Z16340>BY633	BY633	BY633	BY633>A20238 BY633>BY621
FGC13505 S7834 S5979	FGC13505 S7834 S5979	FGC13505 S7834 S5979>S5982	FGC13505 S7834 S5982

Z253*	Z253*	Z253*	Z253*
Y198506	Y198506	Y198506	Y198506
BY23575	BY23575	BY23575	BY23575
FGC3222	FGC3222	FGC3222	FGC3222
FGC41893	FGC41893	FGC41893	FGC41893
FGC8284	FGC8284>BY4072	BY4072	BY4072
Y134019	Y134019	Y134019	Y134019>Y247080
BY20037	BY20037	BY20037	BY20037
A276*	A276*	A276*	A276*
A14>BY13089	BY13089	BY13089	BY13089
A14>BY13097	BY13097	BY13097>L643	L643
BY62794*	BY62794*	BY62794*	BY62794*
PH1704	PH1704	PH1704	PH1704
BY19824	BY19824	BY19824	BY19824
FGC23702>FGC35529*	FGC35529*	FGC35529*	FGC35529*
FGC23702>FGC35529*	FGC35529*	FGC35529*	FGC35529*
FGC23702*	FGC23702*	FGC23702*	FGC23702*
FGC23702*	FGC23702*	FGC23702*	FGC23702*
A11736	A11736*	A11736*	A11736*
	A11736>Y29970	Y29970	Y29970
FT25222	FT25222	FT25222	FT25222
BY20072	BY20072	BY20072	BY20072
CTS9881	CTS9881	CTS9881	CTS9881

DF21*	DF21*	DF21*	DF21*
BY13823	BY13823	BY13823	BY13823
Y15984	Y15984	Y15984	Y15984
BY99030	BY99030	BY99030	BY99030
Y34280	Y34280	Y34280	Y34280
Z16528>BY75265	BY75265	BY75265	BY75265
Z16528>Z16529	Z16529	Z16529	Z16529
BY23456	BY23456	BY23456	BY23456
BY2719	BY2719*	BY2719*	BY2719*
	BY2719>>BY23532	BY23532	BY23532
	BY2719>>BY75560	BY75560	BY75560
Y22972	Y22972	Y22972	Y22972
S424	S424	S424	S424
DF25*	DF25*	DF25*	DF25*
FGC84872	FGC84872	FGC84872	FGC84872>Y41120
FGC72907	FGC72907	FGC72907	FGC72907
CTS5524	CTS5524>L1446	L1446	L1446
	CTS5524>Y7346	Y7346	Y7346
Y35187>BY23524	BY23524	BY23524	BY23524
Y12651*	Y12651*	Y12651*	Y12651*

Y67497	Y67497	Y67497>Y63034	Y63034
L627	L627>FGC3911 L627>BY3364	FGC3911 BY3364	FGC3911 BY3364
S5488* A6484 Y142580 L1336 Z16299 FGC53208	S5488* A6484 Y142580 L1336 Z16299 FGC53208	S5488* A6484 Y142580 L1336 Z16299 FGC53208	S5488* A6484 Y142580* L1336 Z16299 FGC53208>S7190
Z16294	Z16294>BY205877 Z16294>Y28681>FGC58900 Z16294>Y28681>FGC58900 Z16294>FGC47949	BY205877 FGC58900* FGC58900* FGC47949	BY205877 FGC58900* FGC58900* FGC47949
	Z16294>Y24868>S19938	S19938	S19938
BY23924* FGC11175* ZP80	BY23924* FGC11175* ZP80	BY23924* FGC11175* ZP80	BY23924* FGC11175* ZP80
Z2980* Z2980* FT94077 Y29872 BY35099	Z2980* Z2980* FT94077 Y29872 BY35099>BY35100	Z2980* Z2980* FT94077 Y29872 BY35100	Z2980* Z2980* FT94077 Y29872>Y94317 BY35100
Y24525 ZP171 BY3436	Y24525 ZP171 BY3436	Y24525 ZP171 BY3436	Y24525 ZP171 BY3436>FGC30390
A8255	A8255* A8255* A8255*	A8255* A8255* A8255*	A8255* A8255* A8255*

A8255>FGC51330

FGC51330

FGC51330

BY3437

BY3437

BY3437

BY3437

500 BC	250 BC	1 AD	250 AD
BY16213*	BY16213*	BY16213*	BY16213*
PF714*	PF714*	PF714*	PF714*
Y311987*	Y311987*	Y311987*	Y311987*
Z31503	Z31503	Z31503	Z31503
Z20650	Z20650	Z20650	Z20650
Y20219*	Y20219*	Y20219*	Y20219*
Y24438	Y24438	Y24438	Y24438
		Y135742	Y135742
Y131346	Y131346	Y131346	Y131346
Z37806*	Z37806*	Z37806*	Z37806*
FGC91110	FGC91110	FGC91110	FGC91110
FGC24064	FGC24064	FGC24064	FGC24064
Z1786*	Z1786*	Z1786*	Z1786*
CTS127	CTS127	CTS127	CTS127
Z1673*	Z1673*	Z1673*	Z1673*
BY8832*	BY8832*	BY8832*	BY8832*
Y99554	Y99554	Y99554	Y99554
BY8405	BY8405	BY8405	BY8405
FTA63816	FTA63816	FTA63816	FTA63816
			FT63559
Y30971	Y30971	Y30971	Y30971
BY7700	BY7700	BY7700	BY7700
Y20806	Y20806	Y20806	Y20806
Y91576*	Y91576*	Y91576*	Y91576*
FT142653*	FT142653*	FT142653*	FT142653*
BY5965	BY5965	BY5965	BY5965
S24894	S24894	S24894	S24894
A10665	A10665	A10665	A10665
Y38934	Y38934	Y38934	Y38934
BY55359	BY55359	BY55359	BY55359
Y133119	Y133119	Y133119	Y133119
L17>Y61211	Y61211	Y61211	Y61211
Y45878	Y45878	Y45878	Y45878

BY160711*	BY160711*	BY160711*	BY160711*
FTB9784	FTB9784	FTB9784	FTB9784
	Y251806*	Y251806*	Y251806*
			BY15395*
BY3880*	BY3880*	BY3880*	BY3880*
	Y62522	Y62522	Y62522
		Y126090*	Y126090*
Y209034	Y209034	Y209034	Y209034
A11182*	A11182*	A11182*	A11182*
Y152935	Y152935	Y152935	Y152935
Y16734*	Y16734*	Y16734*	Y16734*
Z38518	Z38518	Z38518	Z38518

Z19851*	Z19851*	Z19851*	Z19851*
Z19851*	Z19851*	Z19851*	Z19851*
CTS5415*	CTS5415*	CTS5415*	CTS5415*
Y20431	Y20431	Y20431	Y20431
Y155451	Y155451	Y155451	Y155451
FGC67002*	FGC67002*	FGC67002*	FGC67002*
BY5500*	BY5500*	BY5500*	BY5500*
		Y20823	Y20823
Y250274	Y250274	Y250274	Y250274
BY6550*	BY6550*	BY6550*	BY6550*
			Z38519

A930*	A930*
A930*	A930*
	MZ185

Y308211*	Y308211*	Y308211*	Y308211*
		PF2546*	PF2546*

Y65865>PH1646	PH1646	PH1646	PH1646
Y91313	Y91313	Y91313	Y91313
L793*	L793*	L793*	L793*
FTA46044*	FTA46044*	FTA46044*	FTA46044*
BY10662*	BY10662*	BY10662*	BY10662*
Y45029	Y45029	Y45029	Y45029

BY21302*	BY21302*	BY21302*	BY21302*
Z6553*	Z6553*	Z6553*	Z6553*

Z17775*	Z17775*	Z17775*	Z17775*
FGC1053*	FGC1053*	FGC1053*	FGC1053*
Y85489	Y85489	Y85489	Y85489
BY133179*	BY133179*	BY133179*	BY133179*
Z43083	Z43083	Z43083	Z43083
FGC58189*	FGC58189*	FGC58189*	FGC58189*
Y82047*	Y82047*	Y82047*	Y82047*
M3336*	M3336*	M3336*	M3336*
Y24446*	Y24446*	Y24446*	Y24446*
Y94474*	Y94474*	Y94474*	Y94474*
Y94474*	Y94474*	Y94474*	Y94474*
FT44209	FT44209	FT44209	FT44209
Y125465	Y125465	Y125465	Y125465
FGC82036*	FGC82036*	FGC82036*	FGC82036*
L640	L640	L640	L640
FGC23437*	FGC23437*	FGC23437*	FGC23437*
L660*	L660*	L660*	L660*
CTS12777*	CTS12777*	CTS12777*	CTS12777*
Z42471	Z42471	Z42471	Z42471
FGC1016*	FGC1016*	FGC1016*	FGC1016*
Z39372	Z39372	Z39372	Z39372
Z30781	Z30781	Z30781*	Z30781*
		Z30781*	Z30781*
Y54750*	Y54750*	Y54750*	Y54750*
Y54750*	Y54750*	Y54750*	Y54750*
Y54750*	Y54750*	Y54750*	Y54750*
L1263*	L1263*	L1263*	L1263*
			Y18376*
BY152564	BY152564	BY152564	BY152564
FGC809*	FGC809*	FGC809*	FGC809*
Y31011*	Y31011*	Y31011*	Y31011*
BY54283	BY54283	BY54283	BY54283
Z36218	Z36218	Z36218	Z36218
Z34079*	Z34079*	Z34079*	Z34079*
Z34079>Z31343	Z31343	Z31343	Z31343

FGC60019 Y244980 BY199514* Y36533	FGC60019 Y244980 BY199514* Y36533	FGC60019 Y244980 BY199514* Y36533	FGC60019 Y244980 BY199514* Y36533
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Y31000 S2784	Y31000 S2784	FGC14522* Y31000 S2784	FGC14522* Y31000 S2784
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Z30742* Y126851 Y21609* BY16702*	Z30742* Y126851 Y21609* BY16702*	Z30742* Y126851 Y21609* BY16702*	Z30742* Y126851 Y21609* BY16702*
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A9606* Y53530 A9222	A9606* Y53530 A9222	A9606* Y53530 A9222	A9606* Y53530 A9222
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S4663 A13821* PH2706	S4663 A13821* PH2706	S4663 A13821* PH2706	S4663 A13821* PH2706
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Y2698 FTB21048 FGC15556*	Y2698 FTB21048 FGC15556*	Y2698 FTB21048 FGC15556*	Y2698 FTB21048 FGC15556*
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A5635>CTS9889

Z63* 3Y120817>BY111511	Z63* BY111511	Z63* BY111511	Z63* BY111511
Y8331* Y8331* S11545* S11545>Y19648	Y8331* Y8331* S11545* Y19648	Y8331* Y8331* S11545* Y19648	Y8331* Y8331* S11545* Y19648

Y10995	Y10995	/10995>Y10994>BY3449 Y10995>Y10995>Y20846	BY34499 Y21380>Y21370
Y13946	Y13946	Y13946* Y13946>Y14111	Y13946* Y14111* Y14111>Y67429
Y128228	Y128228	Y128228	Y128228
FT401330	FT401330	FT401330	FT401330
Y45752	Y45752	Y45752	Y45752
Y6375	Y6375	Y6375>A8242 Y6375>Y13945	A8242 Y13945* Y13945>Y20860
Y133856	Y133856	Y133856	Y133856
MF603955	MF603955	MF603955	MF603955
FGC29244*	FGC29244*	FGC29244*	FGC29244*
Y3969	Y3969	Y3969>BY15934 Y3969>Y14344	BY15934 Y14344
Y7626*	Y7626*	Y7626*	Y7626*
Y7626*	Y7626*	Y7626*	Y7626*
Y43820	Y43820	Y43820	Y43820
	Y23119	Y23119	Y23119
Y6615	Y6615	Y6615	Y6615

Y11252*	Y11252*	Y11252* A11298*	Y11252* A11298*
Y3866*	Y3866*	Y3866*	Y3866*
L1275	L1275	L1275	L1275
			Y16044*
Y21671*	Y21671*	Y21671*	Y21671*
		Y18770* Y19053	Y18770* Y19053
Y19053	Y19053	Y19053	Y19053
FGC10470	FGC10470	GC10470>Y23356>Y4892	Y48920

		FGC10470>FGC10448	FGC10448
	Y23687*	Y23687*	Y23687*
		Y48588	Y48588
Y14328*	Y14328*	Y14328*	Y14328*
M8151	M8151	M8151	M8151
FGC67216	FGC67216	FGC67216	FGC67216
			Y10639>Y54100
			Y10639>Y47647
		Y15031	Y15031
		Y91666	Y91666
	Y14225	Y14225	Y14225
Y5842*	Y5842*	Y5842*	Y5842*
			FGC2181*
Y4045	Y4045*	Y4045*	Y4045*
	Y4045>Y4043	Y4043	Y4043
		Y31110	Y31110
			Y7258
Y31122	Y31122	Y31122	Y31122
		Y32357*	Y32357*
	S14887a*	S14887a*	S14887a*
	S14887a*	S14887a*	S14887a*
			Y84534
			S8175>Y33695
			S8175>BY37406

		Y6204	Y6204
Y5153	Y5153	BY161397* Y5153>Y17060	BY161397* Y17060
		Y66983*	Y66983* Y139911 FT259779
	A18585	A18585	A18585
A6849*	A6849*	A6849*	A6849*
		A11263	A11263
		A13211	A13211
S17633>Y168299	Y168299	Y168299	Y168299
S17633>A7000*	A7000*	A7000*	A7000*
			S2268*
A9192	A9192	A9192	A9192
		Y11878*	Y11878*
		Y11878>Y11211	Y11211
	A10006	A10006	A10006
A6412	A6412	A6412	A6412
			S6273

Y187003 BY45736 Y198553	Y187003 BY45736 Y198553	Y187003 BY45736 Y198553 FGC18051	Y187003* BY45736>BY45886 Y198553 FGC18051
Y35883 BY170069 A21841	Y35883 BY170069 A21841	Y103879* Y35883 BY170069 A21841 Y89375	Y103879* Y35883 BY170069 A21841 Y91452* Y89375 A16895
			FT4816* FT156481 A18286
	A9274	A9274	A9274* A9274*
Y22033 Y15584	Y22033 Y15584	Y22033 Y15584	Y22033 Y15584
	BY40613	BY40613	BY40613
PH902	A6214* PH902	A6214* PH902	A6214* PH902
Y152457 FT46038	Y152457 FT46038	Y152457 FT46038* FT46038*	Y152457 FT46038* FT46038*

Y3155*	Y3155*	Y3155*	Y3155*
	Y22018*	Y22018*	Y22018*
FT36275	FT36275	FT36275	FT36275>L803
Y31033	Y31033	Y31033	Y31033
			Y16175
FGC65549	FGC65549	FGC65549	FGC65549
A1373*	A1373*	A1373*	A1373*
A1609	A1609	A1609	A1609
Y38453	Y38453	Y38453	Y38453
Y7279*	Y7279*	Y7279*	Y7279*
Y32666	Y32666	Y32666	Y32666
A1395	A1395	A1395	A1395
	FT10830	FT10830	FT10830
			Y6885
			YP1084*
FGC39137	FGC39137	FGC39137	FGC39137>Y189956
Y3647	Y3647	Y3647	Y3647*
			Y3647>A14094
			Y3647>L234
			Y3647>A13248
Y180334	Y180334	Y180334	Y180334
A15598*	A15598*	A15598*	A15598*
FGC74500	FGC74500	FGC74500	FGC74500
Y2963	Y2963	Y2963	Y2963

	A19588	A19588	A19588
		A10207	A10207
A8641	A8641	A8641	A8641
S2202*	S2202*	S2202*	S2202*
Y3148	Y3148	Y3148	Y3148
A1930	A1930	A1930	A1930
			BY31701
Y33691	Y33691	Y33691	Y33691
A11317	A11317	A11317	A11317
A12708*	A12708*	A12708*	A12708*
A12708>FGC60263	FGC60263	FGC60263	FGC60263
			A21901*
			Y185625
			A4637
	Y4015*	Y4015*	Y4015*
	Y4015*	Y4015*	Y4015*
	Y4015>A1845	A1845	A1845
	Y4015>A1627	A1627	A1627
	BY50995	BY50995	BY50995
	A8596	A8596	A8596
	Y145642	Y145642	Y145642
	A375	A375	A375>S1977
			A375>S1972
S6656	S6656	S6656	S6656
Z26403*	Z26403*	Z26403*	Z26403*
Y17390*	Y17390*	Y17390*	Y17390*
BY37467*	BY37467*	BY37467*	BY37467*
BY37467*	BY37467*	BY37467*	BY37467*
Y14718*	Y14718*	Y14718*	Y14718*
Y19659	Y19659	Y19659	Y19659

Y44831
BY174945*
Y162893

Y44831
BY174945*
Y162893

Y44831
BY174945*
Y162893

Y44831
BY174945*
Y162893

Y25699
Y23722

Y25699
Y23722

Y25699
Y23722

Y25699
Y23722

Y23412*
Y60821
Y84185
BY205153*
BY205153*
Y4386*

Y23412*
Y60821
Y84185
BY205153*
BY205153*
Y4386*

Y23412*
Y60821
Y84185
BY205153*
BY205153*
Y4386*

Y23412*
Y60821
Y84185
BY205153*
BY205153*
Y4386*

A12373*
A12373*
BY64875

A12373*
A12373*
BY64875

A12373*
A12373*
BY64875

A12373*
A12373*
BY64875

Y90362*
Y90362>Y127057
BY68371

Y90362*
Y127057
BY68371

Y90362*
Y127057
BY68371

Y90362*
Y127057
BY68371

Y21980

Y21980

Y21980

Y21980

BY63113*

L233>Y4197>A8462

A8462>A14892

A8462>Y36039

Y4252*

Y4252*

Y4252*

Y4252*

Y4252>Y142672

Y4252>Y32652

Y4252>A19486

Y4252>Y85503>FT87019

>Y85503>FTA56202

Y4252>Y33765

Y4252>FGC56815

Y4252>A7111*

Y4252>Y84928

Y12072*

Y85743

PF4135

Y12072*

Y85743

PF4135

Y12072*

Y85743

PF4135

Y12072*

Y85743

PF4135>Y11772

Y31015

Y31015

Y31015

Y31015

BY1236*

BY1236*

BY1236*

BY1236*

Y51883*

Y51883*

Y51883*

Y51883*

Y161566

Y161566

Y161566>BY189123

BY189123

BY186215

PH401*

Y140746*

Y140746*

S2624

A16983

BY175113*

Y14342

BY186215

PH401*

Y140746*

Y140746*

S2624

A16983

BY175113*

Y14342

BY186215

PH401*

Y140746*

Y140746*

S2624

A16983

BY175113*

Y14342

BY186215

PH401*

Y140746*

Y140746*

S2624

A16983

BY175113*

Y14342

Y3722*

Y3722*

Y3722*

Y3722*

Y157525	Y157525	Y157525	Y157525
Y7847	Y7847	Y7847	Y7847
Y69224	Y69224	Y69224	Y69224

FGC14453*	FGC14453*	FGC14453*	FGC14453*
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		Y45825*	Y45825*
FGC20473*	FGC20473*	FGC20473*	FGC20473*
FGC20473*	FGC20473*	FGC20473*	FGC20473*
BY31905	BY31905	BY31905	BY31905

Y45198	Y45198	Y45198	Y45198
S19763*	S19763*	S19763*	S19763*
S19763*	S19763*	S19763*	S19763*
Z7265*	Z7265*	Z7265*	Z7265*
A522	A522	A522	A522
FT140675	FT140675	FT140675	FT140675
BY14023	BY14023	BY14023	BY14023>Y88850
		Y86214	Y86214*
			Y86214*
			Y86214>Y89787

Y20295	Y20295	Y20295	Y20295>Y20293
			Y20295>Y97670

Y18921*	Y18921*	Y18921*	Y18921*
Y30539	Y30539	Y30539	Y30539
Y59902	Y59902	Y59902	Y59902
PH1237*	PH1237*	PH1237*	PH1237*
PH2591*	PH2591*	PH2591*	PH2591*
	Y31038*	Y31038*	Y31038*
	Y31038*	Y31038*	Y31038*

Y42503	Y42503	Y42503	Y42503
Y38683	Y38683	Y38683	Y38683
Y182235*	Y182235*	Y182235*	Y182235*
SK1251*	SK1251*	SK1251*	SK1251*
SK1251>L1227	L1227	L1227	L1227
Y7241*	Y7241*	Y7241*	Y7241*

Y143199*	Y143199*	Y143199*	Y143199*
S8171	S8171	S8171	S8171>Y4900
S16056	S16056	S16056	S16056
Y10648	Y10648	Y10648	Y10648
		Y15029	Y15029
	Y212022	Y212022	Y212022
BY60966	BY60966	BY60966	BY60966
Y13321	Y13321	Y13321	Y13321*
		Y146149	Y146149
	Y4854	Y4854>BZ2610	BZ2610
		Y4854>Y4714	Y4714

Z31168*	Z31168*	Z31168*	Z31168*
FT13004*	FT13004*	FT13004*	FT13004*
FT13004*	FT13004*	FT13004*	FT13004*
Y46816	Y46816	Y46816	Y46816
Y33745	Y33745	Y33745	Y33745
BY68692	BY68692	BY68692	BY68692
Y20863	Y20863	Y20863	Y20863
FGC20063*	FGC20063*	FGC20063*	FGC20063*
Y34450	Y34450	Y34450	Y34450>Y33688>YP2572
			>Y33688>BY31467
			>Y33688>FGC26616
Y4171	Y4171	Y4171	Y4171>Y23716
			Y4171>Y4142

Y20885*	Y20885*	Y20885*	Y20885*
Y8945	Y8945	Y8945	Y8945
	Y155150	Y155150	Y155150
Y5359	Y5359	Y5359	Y5359*
			Y5359>Y5369
BY57564*	BY57564*	BY57564*	BY57564*
			L1290*
			Y64175
			Y6639
Y4946*	Y4946*	Y4946*	Y4946*
Y131277	Y131277	Y131277	Y131277
			Y31091
CTS1858>Y11762	Y11762	Y11762	Y11762
CTS1858>CTS10148	CTS10148*	CTS10148*	CTS10148*
CTS1858>CTS10148	CTS10148*	CTS10148*	CTS10148*
		P95*	P95*
		P95>BY157642	BY157642
Y12335	Y12335	Y12335	Y12335
S6480	S6480	S6480	S6480
Y7155*	Y7155*	Y7155*	Y7155*
Y7426	Y7426	Y7426	Y7426

Y31897 FGC56722>Y36056 GC56722>FGC5671	Y31897 Y36056 FGC56713>Y84117	Y31897 Y36056 Y84117	Y31897 Y36056 Y84117
Y16443>FT109035	FT109035	FT109035	FT109035
	Y17502*	Y17502*	Y17502* Y22007
Y136469 Y102504	Y136469 Y102504	Y136469 Y102504	Y136469 Y102504 Y140191*
Y14695*	Y14695* BY152608 Y90929	Y14695* BY152608 Y90929	Y14695* BY152608 Y90929
Y7263	Y7263	Y7263	Y7263
BY205692	BY205692	BY205692	BY205692 Y10659>Y11231 Y10659>Y142819
Y49919* FGC55836	Y49919* FGC55836	Y49919* FGC55836	Y49919* FGC55836
Y132599 Y44338	Y132599 Y44338>Y38763 BY3778	Y132599 Y38763 BY3778	Y132599 Y38763 BY3778
FT86361* Y17535	FT86361* Y17535	FT86361* Y17535>Y18111	FT86361* Y18111
	Y29658* Y29658>Y29661>Y2965	Y29658* Y29659	Y29658* Y29659 Y46018
Y7273	Y7273	Y7273	Y7273>BY46994>BY66854 Y7273>BY46994>Y36632 Y7273>BY3100>Y7671 Y7273>BY3100>Y29608

S8298*	S8298*	S8298*	S8298*
CTS7618	CTS7618	CTS7618>Y111149	Y111149
		CTS7618>Y36051>Y25568	Y255684
		CTS7618>Y36051>CTS342	CTS3428
	Y81046	Y81046	Y81046
Z79>Y7682	Y7682	Y7682	Y7682
Z79>Y5736	Y5736	Y5736	Y5736>Y5729

Y48949	Y48949	Y48949	Y48949
Y73555*	Y73555*	Y73555*	Y73555*
FGC80188*	FGC80188*	FGC80188*	FGC80188*

Y154827	Y154827	Y154827	Y154827
	Z18183	Z18183	Z18183
FT264818*	FT264818*	FT264818*	FT264818*
Y162860	Y162860	Y162860	Y162860

	Y64544	Y64544	Y64544
	FT68397*	FT68397*	FT68397*
Y101509*	Y101509*	Y101509*	Y101509*
Y167232*	Y167232*	Y167232*	Y167232*
Z615*	Z615*	Z615*	Z615*
Z4133*	Z4133*	Z4133*	Z4133*
		Y189978	Y189978
PH1602*	PH1602*	PH1602*	PH1602*
Z638*	Z638*	Z638*	Z638*
Y182183*	Y182183*	Y182183*	Y182183*
		BY23734*	BY23734*
S18238	S18238	S18238	S18238
FT33373*	FT33373*	FT33373*	FT33373*
		BY87718	BY87718
FT117099*	FT117099*	FT117099*	FT117099*

Y129853	Y129853	Y129853	Y129853
	FT131786*	FT131786*	FT131786*
CTS11760*	CTS11760*	CTS11760*	CTS11760*
	Y155803*	Y155803*	Y155803*
	Y16536	Y16536	Y16536
			FT35302*
Y36202*	Y36202*	Y36202*	Y36202*
FT99882	FT99882	FT99882	FT99882

Y136384	Y136384	Y136384	Y136384
		Y87605*	Y87605*
Y32998	Y32998	Y32998	Y32998
Y16842>Y42491	Y42491	Y42491	Y42491
Y16842>Z40259	Z40259	Z40259>Y22056	Y22056
Y155314	Y155314	Y155314	Y155314
FGC16079*	FGC16079*	FGC16079*	FGC16079*
Z45881	Z45881	Z45881	Z45881
Z39057*	Z39057*	Z39057*	Z39057*
Y64860	Y64860	Y64860	Y64860
Y27235	Y27235	Y27235	Y27235
FGC22532	FGC22532	FGC22532	FGC22532
	BY195335*	BY195335*	BY195335*
Z41157	Z41157	Z41157	Z41157
BY66226*	BY66226*	BY66226*	BY66226*
Y16179	Y16179	Y16179	Y16179
FT72594*	FT72594*	FT72594*	FT72594*
Y26650*	Y26650*	Y26650*	Y26650*
BY127048*	BY127048*	BY127048*	BY127048*
Z2177*	Z2177*	Z2177*	Z2177*
	Y64003	Y64003	Y64003
Y63950*	Y63950*	Y63950*	Y63950*
FGC51041*	FGC51041*	FGC51041*	FGC51041*
Y61682	Y61682	Y61682	Y61682
BY60850	BY60850	BY60850	BY60850
Z19971*	Z19971*	Z19971*	Z19971*
FTA74003	FTA74003	FTA74003	FTA74003
Y6409	Y6409	Y6409	Y6409
FGC30201*	FGC30201*	FGC30201*	FGC30201*
Y101945*	Y101945*	Y101945*	Y101945*
		Y5003*	Y5003*

Y4706* A2358*	Y4706* A2358*	Y4706* A2358*	Y4706* A2358*
FTA33333	FTA33333	FTA33333	FTA33333
L725	L725	L725	L725
L329	L329	Y45524* L329	Y45524* L329
BZ1487	BZ1487 Y4929	BZ1487 Y4929	BZ1487 Y4929 YP4568
Y7582	Y7582	Y7582	Y7582>Y12445
			Y7582>Y38488
			BY66620
YP1109*	YP1109*	YP1109*	YP1109*
YP1051 FGC9988	YP1051 FGC9988	YP1051 FGC9988	YP1051 FGC9988
YP943	YP943	YP943	Y322268 YP943
FGC57195	FGC57195	FGC57195	YP356>YP360 FGC57195
			YP441>BY30530 YP441>Y81602
			YP441>YP1015* YP441>YP1015>YP4519 YP441>Y141132
			YP441>FGC41401

S5168
BY32096

YP1167*
YP4963*

YP4880

YP4880>YP5688
YP4880>YP4874

YP5688
YP4874

YP5688
YP4874

Y81949*
YP5598*
YP4248

YP4248

YP4248

FT396067

FT396067

FT396067
Y157332

YP984

YP984

CTS4179*
CTS4179>BY30621

CTS4179*
BY30621

CTS4179*
BY30621

CTS4179*
BY30621

YP275*
YP280>FT360504

YP280>YP4489
YP280>YP330*
YP280>YP330>YP327

YP280>YP507

Y7777*	Y7777*	Y7777*	Y7777*
Y82825*	Y82825*	Y82825*	Y82825*
BY100846	BY100846	BY100846	BY100846
			BY17663*
BY3719*	BY3719*	BY3719*	BY3719*
Y82789*	Y82789*	Y82789*	Y82789*
BY187800	BY187800	BY187800	BY187800
PH2309*	PH2309*	PH2309*	PH2309*
Y20344	Y20344	Y20344	Y20344>Y82698
			Y20344>Y20345
		Y19137	Y19137
Y18959*	Y18959*	Y18959*	Y18959*
Y22198	Y22198	Y22198	Y22198
Y19469*	Y19469*	Y19469*	Y19469*
Y32822	Y32822	Y32822	Y32822
Y28635	Y28635	Y28635	Y28635
		FT268183*	FT268183*

	Y37283	Y37283	Y37283
CTS6718*	CTS6718*	CTS6718*	CTS6718*
BY12063	BY12063	BY12063	BY12063
Y139456	Y139456	Y139456	Y139456
A8062	A8062	A8062	A8062
FGC37090	FGC37090	FGC37090>FGC37084	FGC37084*
Y87436	Y87436	Y87436	Y87436
FGC30867	FGC30867	FGC30867	FGC30867
S22763	S22763	S22763	S22763
FGC23887*	FGC23887*	FGC23887*	FGC23887*
	BY38452	BY38452	BY38452
CTS7354>A8509	A8509	A8509	A8509
A8506	A8506	A8506	A8506>BY11796
FT123394*	FT123394*	FT123394*	FT123394*
Y22442*	Y22442*	Y22442*	Y22442*
Y23200	Y23200	Y23200	Y23200
A10127	A10127	A10127	A10127
BY50728	BY50728	BY50728	BY50728
FGC53757	FGC53757	FGC53757	FGC53757
Y11145*	Y11145*	Y11145*	Y11145*
BY198412	BY198412	BY198412	BY198412
	FGC17464*	FGC17464*	FGC17464*
		Y11837	Y11837
FGC5809	FGC5809	FGC5809	FGC5809>FGC5831*
			FGC5809>FGC5831*
			>FGC5831>ZP147
Y45423*	Y45423*	Y45423*	Y45423*
			ZP124
		FGC54210	FGC54210
BY18864*	BY18864*	BY18864*	BY18864*
Y133217	Y133217	Y133217	Y133217
Y38140*	Y38140*	Y38140*	Y38140*
Y29971	Y29971	Y29971	Y29971

FGC45254>A11482
FGC45254>S6358

Y26648
A11482
S6358

BY20776>BY20774	BY20774	BY20774	BY20774
A10646	A10646	A10646>Y22217	Y22217
BY20122*	BY20122*	BY20122*	BY20122*
BY20548	BY20548	BY20548	BY20548
Y319166*	Y319166*	Y319166*	Y319166*
BY17919*	BY17919*	BY17919*	BY17919*
FTA16837	FTA16837	FTA16837	FTA16837
Y19736	Y19736	Y19736	Y19736*
FGC11672	FGC11672	FGC11672	FGC11672

Y64481*	Y64481*	Y64481*	Y64481*
BY19410	BY19410	BY19410	BY19410>BY19407

FGC13343*	FGC13343*	FGC13343*	FGC13343*
S4004*	S4004*	S4004*	S4004*
FGC14823*	FGC14823*	FGC14823*	FGC14823*
FGC20580	FGC20580	FGC20580	FGC20580

Y17440	Y17440	Y17440*	Y17440*
		Y17440>A6535	A6535

BY41863*	BY41863*	BY41863*	BY41863*
			FGC8395*

FGC79874*	FGC79874*	FGC79874*	BY41561
			FGC79874*

FGC79874>A226	A226	A226	A226
FGC50035*	FGC50035*	FGC50035*	FGC50035*
	Y99068	Y99068	Y99068
FGC13316	FGC13316	FGC13316>Z27559*	Z27559*
		FGC13316>Z27559>P89.2	P89.2
BY20283	BY20283	BY20283	BY20283
		FGC13944	FGC13944
A14208	A14208	A14208	A14208
		Z152	Z152
	Y31452	Y31452	Y31452
Y37240	Y37240	Y37240	Y37240
	Y22415	Y22415>BY166647	BY166647
		Y22415>Y22180	Y22180
JFS0009*	JFS0009*	JFS0009*	JFS0009*
FGC43819*	FGC43819*	FGC43819*	FGC43819*
FGC43819>JFS0008	JFS0008	JFS0008>BY54956	BY54956
Y23815	Y23815	Y23815	Y23815
BY2951	BY2951	BY2951	BY2951
S4076	S4076	S4076	S4076
Y14063	Y14063	Y14063	Y14063
JFS0169	JFS0169	JFS0169	JFS0169
	FGC12307	FGC12307	FGC12307*
			FGC12307>Y150877
			FGC12307>FGC48449
Y19279*	Y19279*	Y19279*	Y19279*
		BY18065*	BY18065*
		Y59719	Y59719
BY12508>BY12507	BY12507	BY12507*	BY12507*
		BY12507*	BY12507*
A11431*	A11431*	A11431*	A11431*
ACT920>Y31330	Y31330	Y31330	Y31330
A762>A764	A764	A764	A764
Y23102	Y23102	Y23102*	Y23102*
		Y23102>BY12202	BY12202
Y29866	Y29866	29866>FGC60975>Y3077	Y30779

FGC6202*	FGC6202*	FGC6202*	FGC6202*
Y191876	Y191876>BY35822	BY35822>BY35823	BY35823
L45>Y136085	Y136085*	Y136085*	Y136085*
	Y136085>Y136072	Y136072	Y136072
L45>PH4931	PH4931	PH4931	PH4931*
			PH4931>CTS1863
L45>L477	L477	L477	477>FGC10248>FGC3062
			L477>FGC10248>FGC3062
			L477>BY16534
Y46067	Y46067	Y46067	Y46067
S18883	S18883	S18883	S18883
FGC15450	FGC15450	FGC15450	FGC15450
Y137011	Y137011	Y137011	Y137011
	FTA85935	FTA85935	FTA85935
PH2129	PH2129	PH2129	PH2129
S6926	S6926	S6926	S6926
Y6462*	Y6462*	Y6462*	Y6462*
Y6462>BY87656	BY87656	BY87656	BY87656
Y6462>Y6451	Y6451	Y6451	Y6451>A6093
CTS13009	CTS13009	CTS13009	CTS13009*
Y3465*	Y3465*	Y3465*	Y3465*
Y3465>FGC52090	FGC52090	FGC52090>FGC52085	FGC52085
Y3465>Y3265	Y3265	Y3265	Y3265>Y3462>Y101927
			Y3265>Y3462>Y3464
	A10236*	A10236*	A10236*
		S22494	S22494
		BY36004	BY36004
			FGC18846*
			Y20959
			BY20675*
			BY20675*
FGC19972	FGC19972	FGC19972	FGC19972
		PH2310	PH2310

FT153218 FGC17039	FT153218 FGC17039	FT153218 FGC17039>FGC17040	FT153218 FGC17040
	S3334*	S3334*	S3334*
BY20467	BY20467	BY20467	BY20467
Y18211	Y18211	Y18211	Y18211
Z30596*	Z30596*	Z30596*	Z30596*
Z30596*	Z30596*	Z30596*	Z30596*
	S16027*	S16027*	S16027*
BY41521	BY41521	BY41521	BY41521
Z2247*	Z2247*	Z2247*	Z2247*
		FT7240*	FT7240*
		FT7240>S6932	S6932
Y11660*	Y11660*	Y11660*	Y11660*
Z39400	Z39400	Z39400	Z39400
CTS2975	CTS2975	CTS2975	CTS2975
Z39898*	Z39898*	Z39898*	Z39898*
DF88*	DF88*	DF88*	DF88*
		BY18825	BY18825
S4268*	S4268*	S4268*	S4268*
Y11522	Y11522	Y11522	Y11522
FT26900*	FT26900*	FT26900*	FT26900*
		Z29039*	Z29039*
L644	L644	644>BY207485>BY11088	BY110882
		L644>Z17120>Z21088*	Z21088*
		L644>Z17120>Z17121	Z17121
U152*	U152*	U152*	U152*
Y22161	Y22161	Y22161	Y22161

BY117303*	BY117303*	BY117303*	BY117303*
BY3854	BY3854	BY3854	BY3854
BY3851*	BY3851*	BY3851*	BY3851*
Y29879	Y29879	Y29879	Y29879
BY6638	BY6638	BY6638	BY6638
BY3949	BY3949	BY3949	BY3949
BY70282	BY70282	BY70282	BY70282
Y262855	Y262855	Y262855	Y262855
PH2982*	PH2982*	PH2982*	PH2982*
FGC36902*	FGC36902*	FGC36902*	FGC36902*
BY186940	BY186940	BY186940	BY186940
Y60298	Y60298	Y60298	Y60298
BY9459*	BY9459*	BY9459*	BY9459*
Y24953	Y24953	Y24953	Y24953
FGC59783*	FGC59783*	FGC59783*	FGC59783*
FGC71023*	FGC71023*	FGC71023*	FGC71023*
Y16884	Y16884	Y16884	Y16884>Y16885
			Y16884*
L2*	L2*	L2*	L2*
L2*	L2*	L2*	L2*
FGC11577	FGC11577	FGC11577	FGC11577
YF012582*	YF012582*	YF012582*	YF012582*
Y84137	Y84137	Y84137	Y84137
Y139637*	Y139637*	Y139637*	Y139637*
Y19742	Y19742	Y19742	Y19742
			PAGES00073*
A197	A197	A197	A197*
			A197>FGC5308
FTB7362	FTB7362	FTB7362	FTB7362
BY3490*	BY3490*	BY3490*	BY3490*
FGC42933*	FGC42933*	FGC42933*	FGC42933*
FT59110*	FT59110*	FT59110*	FT59110*
FT59110*	FT59110*	FT59110*	FT59110*
Y31324	Y31324	Y31324	Y31324
Y22312*	Y22312*	Y22312*	Y22312*
BY771	BY771>BY806	BY806	BY806
FT112540*	FT112540*	FT112540*	FT112540*
BY171286*	BY171286*	BY171286*	BY171286*
Y43738	Y43738	Y43738	Y43738
L196	L196	L196	L196
FG668*	FG668*	FG668*	FG668*

BY98312	BY98312	BY98312	BY98312
BY3491	BY3491	BY3491	BY3491
FGC36255*	FGC36255*	FGC36255*	FGC36255*
FGC79468	FGC79468	FGC79468	FGC79468
		Y21277	Y21277
BY34110	BY34110	BY34110	BY34110
FT190968	FT190968	FT190968	FT190968
PH137	PH137	PH137	PH137
L20*	L20*	L20*	L20*
S11621*	S11621*	S11621*	S11621*
Y111961	Y111961	Y111961	Y111961
Y139223	Y139223	Y139223	Y139223
Z1909*	Z1909*	Z1909*	Z1909*
FT40040*	FT40040*	FT40040*	FT40040*
Y23243	Y23243	Y23243	Y23243*
			Y23243*
FT87109	FT87109	FT87109	FT87109
Y15105	Y15105	Y15105	Y15105
CTS7275	CTS7275	CTS7275	CTS7275
Y300559*	Y300559*	Y300559*	Y300559*
BY3555	BY3555	BY3555	BY3555
		A13341	A13341
BY33990	BY33990	BY33990	BY33990
BY55682	BY55682	BY55682	BY55682
Y11178	Y11178	Y11178	Y11178
A20445	A20445	A20445	A20445
Y44772	Y44772	Y44772	Y44772
Y55766	Y55766	Y55766	Y55766
Y24530*	Y24530*	Y24530*	Y24530*
FGC12384	FGC12384	FGC12384	FGC12384
Y23226	Y23226	Y23226	Y23226
FT38430*	FT38430*	FT38430*	FT38430*
BY33580	BY33580	BY33580	BY33580
			S42*
CTS11381	CTS11381	CTS11381	CTS11381
		BY42705*	BY42705*
FGC69675*	FGC69675*	FGC69675*	FGC69675*
CTS9462	CTS9462	CTS9462	CTS9462
		CTS324	CTS324

Y23824*	Y23824*	Y23824*	Y23824*
FT92823*	FT92823*	FT92823*	FT92823*
Y302902	Y302902	Y302902	Y302902*
			Y302902*
			Y302902*
BY1544*	BY1544*	BY1544*	BY1544*
BY1544*	BY1544*	BY1544*	BY1544*
FT129526	FT129526	FT129526	FT129526
BY153508	BY153508	BY153508	BY153508
CTS7906*	CTS7906*	CTS7906*	CTS7906*
CTS4706*	CTS4706*	CTS4706*	CTS4706*
FTA8779	FTA8779	FTA8779	FTA8779

Z16629	Z16629	Z16629	Z16629
A11619	A11619	A11619	A11619*
			A11619*
FT182413	FT182413	FT182413	FT182413
Y175517	Y175517	Y175517	Y175517
Y161662	Y161662	Y161662	Y161662
Y11849	Y11849	Y11849	Y11849
Y30754*	Y30754*	Y30754*	Y30754*
BY20186*	BY20186*	BY20186*	BY20186*
BY20186*	BY20186*	BY20186*	BY20186*
			Y176485
FGC23066	FGC23066	FGC23066	FGC23066
PF6550*	PF6550*	PF6550*	PF6550*
BY159700*	BY159700*	BY159700*	BY159700*
Y151233*	Y151233*	Y151233*	Y151233*
Y151171	Y151171	Y151171	Y151171
BY19228	BY19228	BY19228	BY19228
Y49770	Y49770	Y49770	Y49770
	BY15966*	BY15966*	BY15966*
A15697	A15697	A15697	A15697
FGC40678	FGC40678	FGC40678	FGC40678
FGC49738*	FGC49738*	FGC49738*	FGC49738*
BY653*	BY653*	BY653*	BY653*
BY21120	BY21120	BY21120	BY21120

BY45079 A5303 Y36976 Y36306	BY45079 A5303 Y36976 Y36306	BY45079 A5303 Y36976 Y36306	BY45079 A5303 Y36976 Y36306
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BY19276	BY19276	BY19276	BY19276
BY44621	BY44621	BY44621	BY44621

FGC67371* FGC17104	FGC67371* FGC17104	FGC67371* FGC17104	FGC67371* FGC17104
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Y13142	Y13142	Y13142	Y13142
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Y14529* Y15787 BY19308* L881	Y14529* Y15787 BY19308* L881 BY49854	Y14529* Y15787 BY19308* L881 BY49854 Y14084	Y14529* Y15787 BY19308* L881 BY49854 Y14084 Z2565* FGC49010* A11637 BY12221
Y32298	Y32298>Y14084	Y14084	Y14084
Z2565*	Z2565*	Z2565*	Z2565*
FGC49010*	FGC49010*	FGC49010*	FGC49010*
A11637	A11637	A11637	A11637

PH2054* Y77621 Y3267* BY19153* BY19153>BY164509	PH2054* Y77621 Y3267* BY19153* BY164509	PH2054* Y77621 Y3267* BY19153* BY164509	PH2054* Y77621 Y3267* BY19153* BY164509
Y15639*	Y15639*	Y15639*	Y15639*
Y22184	Y22184	Y22184	Y22184
Y234976	Y234976	Y234976	Y234976
BY31431* Y8397	BY31431* Y8397	BY31431* Y8397	BY31431* Y8397

L617*	L617*	L617*	L617*
Y150902	Y150902	Y150902	Y150902
Y17452	Y17452	Y17452	Y17452
FTA78382*	FTA78382*	FTA78382*	FTA78382*
Y11281*	Y11281*	Y11281*	Y11281*
Y101605	Y101605	Y101605	Y101605
Y84567	Y84567	Y84567	Y84567
A11366*	A11366*	A11366*	A11366*
Y62177	Y62177	Y62177	Y62177
BY36541	BY36541	BY36541	BY36541
FGC17071	FGC17071	FGC17071	FGC17071>FGC66827
BY22335	BY22335	BY22335*	BY22335*
Y17444	Y17444	Y17444	Y17444
Y153322	Y153322*	Y153322*	Y153322*
FT234339	FT234339	FT234339	FT234339
Y59659*	Y59659*	Y59659*	Y59659*
Y59659*	Y59659*	Y59659*	Y59659*
Y3470*	Y3470*	Y3470*	Y3470*
Y134059*	Y134059*	Y134059*	Y134059*
	PH92*	PH92*	PH92*
M428	M428	M428	M428
		FGC28368	FGC28368
BY32742	BY32742	BY32742	BY32742
Z295*	Z295*	Z295*	Z295*
FGC23196*	FGC23196*	FGC23196*	FGC23196*
BY36243	BY36243	BY36243	BY36243
Y96610*	Y96610*	Y96610*	Y96610*
Y13213*	Y13213*	Y13213*	Y13213*
Y17458	Y17458	Y17458	Y17458
Y10797*	Y10797*	Y10797*	Y10797*
FGC15748*	FGC15748*	FGC15748*	FGC15748*
BY31939	BY31939	BY31939	BY31939
FGC29748*	FGC29748*	FGC29748*	FGC29748*
Z216*	Z216*	Z216*	Z216*
PH1909*	PH1909*	PH1909*	PH1909*
PH3372	PH3372	PH3372	PH3372

FGC35858	FGC35858	FGC35858	FGC35858
BY13623	BY13623	BY13623	BY13623
BY3209	BY3209	BY3209	BY3209
Y5113	Y5113	Y5113	Y5113*
			Y5113>FT50341
			Y5113>Y5124

BY27739*	BY27739*	BY27739*	BY27739*
S11475*	S11475*	S11475*	S11475*
S11475*	S11475*	S11475*	S11475*
Y303155*	Y303155*	Y303155*	Y303155*
Y8410>Y8412	Y8412	Y8412	Y8412
Y34472	Y34472	Y34472	Y34472
Y7729	Y7729	Y7729	Y7729
Y28570	Y28570	Y28570	Y28570
Y30608	Y30608	Y30608	Y30608*
			Y30608>BY33836

FT115084	FT115084	FT115084	FT115084
Z208*	Z208*	Z208*	Z208*
Y73696	Y73696	Y73696	Y73696
		BY86549	BY86549*
BY33784	BY33784	BY33784	BY33784
CTS4863*	CTS4863*	CTS4863*	CTS4863*
BY12123	BY12123	BY12123	BY12123
BY40726	BY40726	BY40726	BY40726
FGC11225	FGC11225	FGC11225	FGC11225

Y18454	Y18454	Y18454	Y18454
A7905>A7906	A7906	A7906>A7904	A7904
S3687	S3687	S3687	S3687
BY20330*	BY20330*	BY20330*	BY20330*
Y224702	Y224702	Y224702	Y224702
Z16245*	Z16245*	Z16245*	Z16245*
BY2596*	BY2596*	BY2596*	BY2596*
FT19191	FT19191	FT19191	FT19191
FGC36423*	FGC36423*	FGC36423*	FGC36423*
Y163732	Y163732	Y163732	Y163732

DF13*	DF13*	DF13*	DF13*
Y176317	Y176317	Y176317	Y176317
BY23434	BY23434	BY23434	BY23434
FGC24305*	FGC24305*	FGC24305*	FGC24305*
BY23593	BY23593	BY23593	BY23593

CTS2139	CTS2139	CTS2139	CTS2139
BY12357*	BY12357*		
FGC33755	FGC33755	FGC33755	FGC33755
BY3925	BY3925	BY3925	BY3925
FGC13749*	FGC13749*	FGC13749*	FGC13749*
BY24287>BY23459	BY23459	BY23459	BY23459>Y112885*
			BY23459>Y112885*
BY19430	BY19430	BY19430	BY19430
Y62830*	Y62830*	Y62830*	Y62830*
Y66184*	Y66184*	Y66184*	Y66184*
Y66184*	Y66184*	Y66184*	Y66184*
A9850	A9850	A9850	A9850
Y46780*	Y46780*	Y46780*	Y46780*
Y16225	Y16225	Y16225	Y16225
A2070	A2070	A2070	A2070
S19268*	S19268*	S19268*	S19268*
FT44417	FT44417	FT44417	FT44417
Z17970	Z17970	Z17970	Z17970
S1026*	S1026*	S1026*	S1026*
BY2600	BY2600	BY2600	BY2600
FT5949*	FT5949*		
FT5949*	FT5949*	FT5949*	FT5949*
BY54624*	BY54624*	BY54624*	BY54624*
BY30586	BY30586	BY30586	BY30586
FGC49773*	FGC49773*	FGC49773*	FGC49773*
FGC49766	FGC49766	FGC49766	FGC49766
BY30428>BY30439	BY30439	BY30439	BY30439
BY161172	BY161172	BY161172	BY161172
Y49374	Y49374	Y49374*	Y49374*
BY595	BY595	BY595	BY595
S1051*	S1051*	S1051*	S1051*
FGC29516	FGC29516	FGC29516	FGC29516
Y23823*	Y23823*	Y23823*	Y23823*
BY23657	BY23657	BY23657	BY23657
FGC52285	FGC52285	FGC52285	FGC52285
FGC42321*	FGC42321*	FGC42321*	FGC42321*

FGC42336	FGC42336	FGC42336	FGC42336
FGC46820	FGC46820	FGC46820*	FGC46820*
		FGC46820>FGC46823	FGC46823
FGC19428	FGC19428	FGC19428	FGC19428
S1050	S1050>FGC28635	FGC28635	FGC28635
	S1050>S1043	S1043	S1043
FGC5494*	FGC5494*	FGC5494*	FGC5494*
FGC5494*	FGC5494*	FGC5494*	FGC5494*
FGC19329	FGC19329		
FGC19914	FGC19914	FGC19914	FGC19914
Y9090	Y9090	Y9090	Y9090
Y9097*	Y9097*	Y9097*	Y9097*
A7677	A7677	A7677	A7677
A12817	A12817	A12817	A12817
Y31855	Y31855	Y31855	Y31855
Y136898*	Y136898*	Y136898*	Y136898*
FGC7448*	FGC7448*	FGC7448*	FGC7448*
S1088*	S1088*	S1088*	S1088*
FGC5549*	FGC5549*	FGC5549*	FGC5549*
FGC5511*	FGC5511*	FGC5511*	FGC5511*
FGC5517	FGC5517	FGC5517	FGC5517
BY33481	BY33481>BY160809	BY160809	BY160809
FGC43417*	FGC43417*	FGC43417*	FGC43417*
Y34544	Y34544	Y34544	Y34544>A13160
BY30952	BY30952*	BY30952*	BY30952*
BY34871*	BY34871*	BY34871*	BY34871*
Y83315	Y83315	Y83315	Y83315
FGC11276	FGC11276>FGC11271	FGC11271	FGC11271

BY20951	BY20951	BY20951>BY20958	BY20958 A210 A663 A541* A541>A151
Z251* Y44741 A228	Z251* Y44741 A228	Z251* Y44741 A228	Z251* Y44741 A228
S11556* Y82327 Y11273* FGC65746 FGC11986* BY107437 BY9005* Y11270	S11556* Y82327 Y11273* FGC65746 FGC11986* BY107437 BY9005* Y11270	S11556* Y82327 Y11273* FGC65746 FGC11986* BY107437 BY9005* Y11270	S11556* Y82327 Y11273* FGC65746 FGC11986* BY107437 BY9005* Y11270
A11648 FT74121* BY112307 Y31810 BY23397	A11648 FT74121* BY112307 Y31810 BY23397	A11648 FT74121* BY112307 Y31810 BY23397	A11648 FT74121* BY112307 Y31810>FT249591 BY23397* BY23397* Y105803 FT98630 FT169596
Y86996>Y105803 FT98630 FT169596	Y105803 FT98630 FT169596	Y105803 FT98630 FT169596	Y105803 FT98630 FT169596
BY39033* BY39033*	BY39033* BY39033*	BY39033* BY39033*	BY39033* BY39033*
FT175414	FT175414	FT175414	FT175414>Y307848
Y31305 A874* A875* BY23505	Y31305 A874* A875* BY23505*	Y31305 A874* A875* BY23505*	Y31305 A874* A875* BY23505* BY38359 FGC36627 BY160 A40
MC21>FGC36627 BY160 A40	BY23505>BY38359 FGC36627 BY160 A40	BY38359 FGC36627 BY160 A40	BY38359 FGC36627 BY160 A40>Y7728>MC04

A40>Y7728>Y5655

A600*
A600*
L744
L1335

A600*
A600*
L744
L1335

A600*
A600*
L744
L1335>S733

A600*
A600*
L744
S733>Y5741

S733>Y300179

S733>Z16325>S744

>

Y44961
Z23534

Y44961
Z23534

Y44961
Z23534

Y44961
Z23534

L706.2
Y3556*
CTS3087

L706.2
Y3556*
CTS3087

L706.2
Y3556*
CTS3087

L706.2>Z16407
Y3556*
CTS3087*
CTS3087>Y3555

Y:

Z16379

Z16379

Z16379

Z16379>BY184

S5668*
Z16351

S5668*
Z16351

S5668*
Z16351

S5668*
Z16351>Z16854
Z16351>Z17911>A11138
Z16351>Z17911>Y29969

A20238
BY621
FGC13505>S23634
S7834
S5982

A20238
BY621
S23634
S7834
S5982

A20238
BY621>BY54262
S23634
S7834
S5982*
S5982>Z17816

A20238
BY54262
S23634
S7834
S5982*
Z17816*
Z17816>A1069

S5982>ZS4581

ZS4581>ZS4584

S5982>FGC32004*
>FGC32004>BY2634
>FGC32004>Y31361

FGC32004*
BY2634
Y31361

S5982>A3*
S5982>A3>A8

A3*
A8

Z253*

Z253*

Z253*

Z253*

Y198506
BY23575
FGC3222
FGC41893
BY4072
Y247080
BY20037
A276*
BY13089
L643

Y198506
BY23575
FGC3222
FGC41893
BY4072
Y247080
BY20037
A276*
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L643

Y198506
BY23575*
FGC3222
FGC41893
BY4072
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BY20037
A276*
BY13089
L643

Y198506
BY23575*
FGC3222>FGC3236
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A276*
BY13089>Y96072
L643

BY62794*
PH1704

BY62794*
PH1704

BY62794*
PH1704

BY62794*
PH1704

BY19824

BY19824

BY19824

BY19824

FGC35529*
FGC35529*
FGC23702*
FGC23702*
A11736*
Y29970
FT25222
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A11736*
Y29970
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FGC35529*
FGC23702*
FGC23702*
A11736*
Y29970
FT25222
BY20072

FGC35529*
FGC23702*
FGC23702*
A11736*
Y29970
FT25222
BY20072

CTS9881

CTS9881>Y6064

Y6064

Y6064>BY40372

Y6064>CTS9251

DF21*	DF21*	DF21*	DF21*
BY13823	BY13823	BY13823	BY13823
Y15984	Y15984	Y15984	Y15984
BY99030*	BY99030*	BY99030*	BY99030*
	BY99030>FT258227	FT258227	FT258227
Y34280	Y34280	Y34280	Y34280
BY75265	BY75265	BY75265	BY75265
Z16529>Z16533	Z16533	Z16533	Z16533

BY23456	BY23456	BY23456	BY23456
BY2719*	BY2719*	BY2719*	BY2719*
BY23532	BY23532	BY23532	BY23532
BY75560	BY75560	BY75560*	BY75560*
		BY75560*	BY75560*
Y22972	Y22972	Y22972	Y22972

S424	S424	S424	S424>S190
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DF25*	DF25*	DF25*	DF25*
Y41120	Y41120	Y41120	Y41120
FGC72907	FGC72907	FGC72907	FGC72907
L1446	L1446	L1446	L1446
Y7346	Y7346	Y7346	Y7346
BY23524	BY23524	BY23524	BY23524
		A5409*	A5409*
Y12651*	Y12651*	Y12651*	Y12651*

Y63034	Y63034	Y63034	Y63034
FGC3911 BY3364	FGC3911 BY3364	FGC3911 BY3364	FGC3911 BY3364
S5488* A6484 Y142580* L1336 Z16299 S7190	S5488* A6484 Y142580* L1336 Z16299 S7190>S6000	S5488* A6484 Y142580* L1336 Z16299>BY11111 S6000	S5488* A6484 Y142580* L1336 BY11111 S6000* S6000>BY11112 S6000>BY11119 S6000>A14029
BY205877 FGC58900* FGC58900* FGC47949	BY205877 FGC58900* FGC58900* FGC47949	BY205877 FGC58900* FGC58900* FGC47949	BY205877 FGC58900* FGC58900* FGC47949
S19938	S19938	S19938	S19938
BY23924* FGC11175* ZP80	BY23924* FGC11175* ZP80	BY23924* FGC11175* ZP80	BY23924* FGC11175* ZP80
Z2980* Z2980* FT94077 Y94317 BY35100	Z2980* Z2980* FT94077 Y94317 BY35100	Z2980* Z2980* FT94077 Y94317 BY35100* BY35100*	Z2980* Z2980* FT94077 Y94317 BY35100* BY35100*
Y24525 ZP171 FGC30390	Y24525 ZP171 FGC30390	Y24525 ZP171 FGC30390	Y24525 ZP171* FGC30390
A8255* A8255* A8255*	A8255* A8255* A8255*	A8255* A8255* A8255*	A8255* A8255* A8255*

FGC51330

FGC51330

FGC51330

FGC51330

BY3437

BY3437

BY3437

BY3437

FGC5862

A725*

A10661

Y134650

FGC4133

500 AD	750 AD	1000 AD
BY16213*	BY16213*	BY16213*
PF714*	PF714*	PF714*
Y311987*	Y311987*	Y311987*
Y19698*	Y19698*	Y19698*
Z31503	Z31503	Z31503
Z20650	Z20650	Z20650
Y20219*	Y20219*	Y20219*
Y24438	Y24438	Y24438
Y135742	Y135742	Y135742
		FT405608
Y131346	Y131346	Y131346
Z37806*	Z37806*	Z37806*
FGC91110	FGC91110	FGC91110
Y173631	Y173631	Y173631
FGC24064	FGC24064	FGC24064
Z1786*	Z1786*	Z1786*
CTS127	CTS127	CTS127
Z1673*	Z1673*	Z1673*
BY8832*	BY8832*	BY8832*
Y99554>FT16711*	FT16711*	FT16711*
		Y32578*
BY8405	BY8405	BY8405
FTA63816	FTA63816>Y180735	Y180735
FT63559	FT63559	FT63559
Y30971	Y30971*	Y30971*
BY7700	BY7700	BY7700
Y20806	Y20806	Y20806
Y91576*	Y91576*	Y91576*
FT142653*	FT142653*	FT142653*
BY5965	BY5965>FGC14094*	FGC14094*
	>FGC14094>FGC14091	FGC14091*
		FGC14091>BY5967
S24894	S24894	S24894
A10665	A10665	A10665
Y38934	Y38934	Y38934
BY55359	BY55359	BY55359
Y133119	Y133119	Y133119
Y61211	Y61211	Y61211
Y45878	Y45878*	Y45878*

	Y45878*	Y45878*
	Y45878>BY178965	BY178965>Y158608
BY160711*	BY160711*	BY160711*
FTB9784	FTB9784	FTB9784
Y251806*	Y251806*	Y251806*
BY15395*	BY15395*	BY15395*
BY3880*	BY3880*	BY3880*
Y62522	Y62522	Y62522
Y126090*	Y126090*	Y126090*
Y209034	Y209034	Y209034
A11182*	A11182*	A11182*
Y152935	Y152935	Y152935
Y16734*	Y16734*	Y16734*
Z38518	Z38518	Z38518>Y16733
Z19851*	Z19851*	Z19851*
Z19851*	Z19851*	Z19851*
CTS5415*	CTS5415*	CTS5415*
Y20431	Y20431	Y20431
Y155451	Y155451	Y155451
FGC67002*	FGC67002*	FGC67002*
BY5500*	BY5500*	BY5500*
Y20823	Y20823*	Y20823*
	Y20823>Y20824	Y20824>Y152072
Y250274	Y250274	Y250274
BY6550*	BY6550*	BY6550*
Z38519	Z38519	Z38519
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A930*	A930*	A930*
A930*	A930*	A930*
MZ185	MZ185	MZ185
Y308211*	Y308211*	Y308211*
PF2546*	PF2546*	PF2546*
PH1646	PH1646	PH1646
Y91313	Y91313	Y91313
L793*	L793*	L793*
FTA46044*	FTA46044*	FTA46044*
BY10662*	BY10662*	BY10662*
Y45029	Y45029	Y45029*
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BY21302*	BY21302*	BY21302*
Z6553*	Z6553*	Z6553*

Z17775*	Z17775*	Z17775*
FGC1053*	FGC1053*	FGC1053*
Y85489	Y85489	Y85489
BY133179*	BY133179*	BY133179*
Z43083	Z43083	Z43083
FGC58189*	FGC58189*	FGC58189*
Y82047*	Y82047*	Y82047*
M3336*	M3336*	M3336*
Y24446*	Y24446*	Y24446*
Y94474*	Y94474*	Y94474*
Y94474*	Y94474*	Y94474*
FT44209	FT44209	FT44209
Y125465	Y125465	Y125465
FGC82036*	FGC82036*	FGC82036*
L640	L640	L640
FGC23437*	FGC23437*	FGC23437*
L660*	L660*	L660*
CTS12777*	CTS12777*	CTS12777*
Z42471	Z42471	Z42471
FGC1016*	FGC1016*	FGC1016*
Z39372	Z39372	Z39372
Z30781*	Z30781*	Z30781*
Z30781*	Z30781*	Z30781*
Y54750*	Y54750*	Y54750*
Y54750*	Y54750*	Y54750*
Y54750*	Y54750*	Y54750*
L1263*	L1263*	L1263*
	FT164321	FT164321
Y18376*	Y18376*	Y18376*
	BY108805	BY108805
BY152564	BY152564	BY152564
FGC809*	FGC809*	FGC809*
Y31011*	Y31011*	Y31011*
BY54283	BY54283	BY54283
Y28133*	Y28133*	Y28133*
Z36218	Z36218	Z36218
	Z39670*	Z39670*
Z34079*	Z34079*	Z34079*
Z31343	Z31343	Z31343

FGC60019	FGC60019	FGC60019
Y244980	Y244980	Y244980
BY199514*	BY199514*	BY199514*
Y36533	Y36533	Y36533
FGC14522*	FGC14522*	FGC14522*
Y31000	Y31000>Y30998	Y30998
S2784	S2784	S2784
Z30742*	Z30742*	Z30742*
Y126851	Y126851	Y126851
Y21609*	Y21609*	Y21609*
BY16702*	BY16702*	BY16702*
	BY47158*	BY47158*
A9606*	A9606*	A9606*
Y53530	Y53530	Y53530
A9222	A9222	A9222
A8087>A18294	A18294	A18294
A8087>S2316	S2316	S2316
S4663	S4663	S4663
A13821*	A13821*	A13821*
PH2706	PH2706	PH2706*
		PH2706>Y172395
Y2698	Y2698>A8162	A8162*
FTB21048	FTB21048	FTB21048
FGC15556*	FGC15556*	FGC15556*
		FGC15537>A16928
		FGC15537>FGC15547
Y7282>Y7920*	Y7920*	Y7920*
>Y7920>Y7924>Y10699	Y10699	Y10699
CTS9889>A5646	A5646	A5646
	A10097>Y36037	Y36037*
		Y36037>A14571
Z63*	Z63*	Z63*
BY111511	BY111511	BY111511
Y8331*	Y8331*	Y8331*
Y8331*	Y8331*	Y8331*
S11545*	S11545*	S11545*
Y19648	Y19648	Y19648

BY34499	BY34499>Y41260	Y41260
Y21370	Y21370	Y21370
Y13946*	Y13946*	Y13946*
Y14111*	Y14111*	Y14111*
Y67429	Y67429	Y67429*
Y128228	Y128228	Y128228>Y132620
FT401330	FT401330	FT401330
Y45752	Y45752	Y45752
A8242	A8242	A8242
Y13945*	Y13945*	Y13945*
Y20860>A377	A377	A377
Y133856	Y133856	Y133856
MF603955	MF603955	MF603955
FGC29244*	FGC29244*	FGC29244*
BY15934	BY15934	BY15934
Y14344	Y14344	Y14344
Y7626*	Y7626*	Y7626*
Y7626*	Y7626*	Y7626*
Y43820	Y43820	Y43820
Y23119	Y23119	Y23119
Y6615	Y6615	Y6615
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Y11252*	Y11252*	Y11252*
A11298*	A11298*	A11298*
FGC24008	FGC24008	FGC24008
Y3866*	Y3866*	Y3866*
Y15020*	Y15020*	Y15020*
L1275>Y132652	Y132652	Y132652
L1275>Y131844	Y131844	Y131844
	Y19662>Y22009	Y22009
		Y17395
	A13289	A13289
Y16044*	Y16044*	Y16044*
Y49995	Y49995	Y49995
Y21671*	Y21671*	Y21671*
		BY34712
Y18770*	Y18770*	Y18770*
Y19053	Y19053	Y19053*
		Y19053>FGC41720
Y48920	Y48920*	Y48920*
	Y48920>FTA95336	FTA95336

FGC10448	FGC10448	FGC10448
Y23687*	Y23687*	Y23687*
Y48588	Y48588	Y48588
Y14328*	Y14328*	Y14328*
M8151	M8151	M8151
FGC67216	FGC67216	FGC67216
Y54100	Y54100	Y54100
Y47647	Y47647	Y47647*
Y15031	Y15031	Y15031
L205*	L205*	L205*
	Y11821*	Y11821*
Y91666	Y91666	Y91666
Y14225	Y14225	Y14225
Y5842*	Y5842*	Y5842*
		Y19790a
	BY35251*	BY35251*
FGC2181*	FGC2181*	FGC2181*
FGC33239*	FGC33239*	FGC33239*
Y15572	Y15572	Y15572
Y4045*	Y4045*	Y4045*
Y4043	Y4043	Y4043
Y31110	Y31110	Y31110
	Y29630*	Y29630*
Y7258	Y7258	Y7258
Y31122	Y31122	Y31122
Y32357*	Y32357*	Y32357*
		Y36126
S14887a*	S14887a*	S14887a*
S14887a*	S14887a*	S14887a*
Y130599*	Y130599*	Y130599*
Y84534	Y84534	Y84534
		FGC69938
Y33695	Y33695	Y33695
BY37406	BY37406*	BY37406*
	BY37406>Y145059	Y145059
		FT5747
Y70431	Y70431	Y70431*
		Y70431>Y250122

Y6204	Y6204>Y192753 Y6204>Y6211	Y192753>Y192822 Y6211
BY161397* Y17060* Y17060>Y20364 Y66983* Y139911 FT259779	BY161397* Y17060* Y20364 Y66983* Y139911 FT259779	BY161397* Y17060* Y20364 Y66983* Y139911 FT259779
	Y30042>Y29635 Y30042>Y34445	Y80329* Y29635 Y34445
A18585	A18585	Y17672 A18585
A6849* A11263 A13211 Y168299	A6849* A11263 A13211 Y168299* Y168299>A6808	A6849* A11263 A13211 Y168299* A6808
A7000* A16739 Y8342* S2268* S2275* S2275>PH3121 A9192 Y11878* Y11211 A10006 A6412 S6273	A7000* A16739 Y8342* S2268* S2275* PH3121 A9192 Y11878* Y11211 A10006 A6412 S6273	A7000* A16739 Y8342* S2268* S2275* PH3121 A9192 Y11878* Y11211 A10006 A6412 S6273
	Y16452>Y130259 Y16452>BY190339* Y16452>A6756 Y16452>A14623	BY177111 Y130259 BY190339* A6756 A14623>A18304

		A14623>A6563*
		A14623>A6563>A6562
		>A6563>A16956
Y187003*	Y187003*	Y187003*
BY45886	BY45886	BY45886
Y198553	Y198553	Y198553
FGC18051	FGC18051	FGC18051*
		FGC18051*
Y103879*	Y103879*	Y103879*
Y35883	Y35883	Y35883
BY170069	BY170069	BY170069
A21841	A21841	A21841
Y91452*	Y91452*	Y91452*
Y89375	Y89375>BY34647	BY34647
	Y89375>FT6699	FT6699
A16895	A16895	A16895
FGC35283*	FGC35283*	FGC35283*
FGC35283>FTA2647	FTA2647	FTA2647*
		FTA2647*
	BY98403	BY98403
FT4816*	FT4816*	FT4816*
FT156481	FT156481>FT157478	FT157478
A18286*	A18286*	A18286*
A18286>A15022	A15022	A15022
S21197>FT19394	FT19394*	FT19394*
	Y163644	Y163644
A9274*	A9274*	A9274*
A9274*	A9274*	A9274*
Y22033	Y22033	Y22033
Y15584	Y15584*	Y15584*
	Y15584>FGC23810	FGC23810
BY40613	BY40613	BY40613
A6214*	A6214*	A6214*
PH902*	PH902*	PH902*
PH902>Y186026	Y186026	Y186026
PH902>FT169573	FT169573*	FT169573*
	FT169573*	FT169573*
Y152457	Y152457>Y152456	Y152456>Y187808
FT46038*	FT46038*	FT46038*
FT46038*	FT46038*	FT46038*

Y3155*	Y3155*	Y3155*
Y22018*	Y22018*	Y22018*
	Y60814	Y60814
L803	L803	L803
Y31033*	Y31033*	Y31033*
		FT190500*
Y16175	Y16175*	Y16175*
	Y16175*	Y16175*
	S2122>Y11312	Y11312*
		Y11312*
	S2122>Y11026*	Y11026*
	S2122>Y11026*	Y11026*
	S2122>Y11026>Y13938	Y13938
	S2122>Y11026>JN08	JN08
FGC65549	FGC65549	FGC65549
A1373*	A1373*	A1373*
A1609	A1609	A1609
Y38453	Y38453	Y38453
Y7279*	Y7279*	Y7279*
Y32666	Y32666	Y32666
A1395>Y48695	Y48695	Y48695
FT10830	FT10830	FT10830
Y6885	Y6885*	Y6885*
	Y6885>Y6902	Y6902
YP1084*	YP1084*	YP1084*
A16572*	A16572*	A16572*
Y189956	Y189956	Y189956
		Y214209
Y3647*	Y3647*	Y3647*
A14094	A14094	A14094
L234	L234	L234*
		L234>A1655
A13248	A13248	A13248>Y136323
		A13248>A13242
Y180334>BY49955	BY49955	BY49955
A15598*	A15598*	A15598*
FGC74500	FGC74500>A1550	A1550
Y2963	Y2963	Y2963
	A14269	A14269

A19588	A19588	A19588
A10207	A10207	A10207
A8641	A8641	A8641
S2202*	S2202*	S2202*
Y3148*	Y3148*	Y3148*
Y3148>Y3147	Y3147	Y3147*
		Y3147>A1875

A1930	A1930	A1930
BY31701	BY31701	BY31701
Y33691	Y33691	Y33691
A11317	A11317	A11317
A12708*	A12708*	A12708*
FGC60263	FGC60263	FGC60263
A21901*	A21901*	A21901*
	FT354407*	FT354407*
Y185625	Y185625	Y185625
	A18483*	A18483*
A4637	A4637>A4638	A4638

Y4015*	Y4015*	Y4015*
Y4015*	Y4015*	Y4015*
A1845	A1845	A1845
A1627*	A1627*	A1627*
A1627>A1626	A1626	A1626
BY50995	BY50995	BY50995
A8596	A8596	A8596
Y145642	Y145642	Y145642
S1977>A1790	A1790*	A1790*
S1972	S1972>FT11520	FT11520
	S1972>A376	A376

S6656	S6656	S6656
Z26403*	Z26403*	Z26403*

Y17390*	Y17390*	Y17390*
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BY37467*	BY37467*	BY37467*
BY37467*	BY37467*	BY37467*
Y14718*	Y14718*	Y14718*
Y19659	Y19659	Y19659

Y44831	Y44831*	Y44831*
BY174945*	BY174945*	BY174945*
Y162893	Y162893	Y162893

Y25699	Y25699	Y25699
Y23722	Y23722	Y23722

Y23412*	Y23412*	Y23412*
Y60821	Y60821	Y60821
Y84185>Y95251	Y95251	Y95251
BY205153*	BY205153*	BY205153*
BY205153*	BY205153*	BY205153*
Y4386*	Y4386*	Y4386*
Y55233*	Y55233*	Y55233*
Y55233*	Y55233*	Y55233*
A12373*	A12373*	A12373*
A12373*	A12373*	A12373*
BY64875	BY64875	BY64875

Y90362*	Y90362*	Y90362*
Y127057	Y127057	Y127057
BY68371	BY68371	BY68371

Y21980	Y21980*	Y21980*
	Y21980>A13906	A13906
BY63113*	BY63113*	BY63113*

A14892*	A14892*	A14892*
A14892>FT250118	FT250118	FT250118
Y36039	Y36039	Y36039>Y36040

>Y36040>FT11343>Y13898
>>FT11343>F25958>Y9638
>>>F25958>Y106756

Y4252*	Y4252*	Y4252*
Y4252*	Y4252*	Y4252*
Y4252*	Y4252*	Y4252*
Y4252*	Y4252*	Y4252*
Y142672	Y142672	Y142672*
Y32652	Y32652	Y32652*

		Y32652>Y98295
A19486*	A19486*	A19486*
A19486>BY149840	BY149840*	BY149840*
FT87019	FT87019	FT87019
FTA56202	FTA56202	FTA56202
Y33765	Y33765>Y33767	Y33767
FGC56815*	FGC56815*	FGC56815*
A7111*	A7111*	A7111*
Y84928	Y84928	Y84928

Y12072*	Y12072*	Y12072*
Y85743	Y85743	Y85743
Y11772>A11115	A11115*	A11115*
	A11115*	A11115*
	A11115>Y64698	Y64698

Y11772>Y12075	Y12075>Y36079*	Y36079*
	>Y36079>A19302	A19302
	Y12075>Y12073	Y12073
Y31015	Y31015	Y31015*
		Y31015*
BY1236*	BY1236*	BY1236*

Y51883*	Y51883*	Y51883*
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BY189123	BY189123	BY189123
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BY186215	BY186215	BY186215
PH401*	PH401*	PH401*
Y140746*	Y140746*	Y140746*
Y140746*	Y140746*	Y140746*
S2624	S2624	S2624
A16983	A16983	A16983
BY175113*	BY175113*	BY175113*
Y14342	Y14342>A16449	A16449
	Y14342>A17998*	A17998*
	>A17998>A18000	A18000*
		A18000>Y48314
Y3722*	Y3722*	Y3722*

Y157525	Y157525	Y157525
Y7847	Y7847	Y7847
Y69224>BY37518	BY37518*	BY37518*
	BY37518*	BY37518*
	BY37518>Y143387	Y143387
FGC14453*	FGC14453*	FGC14453*
		Y39012*
		Y92811
	Y21537*	Y21537*
Y45825*	Y45825*	Y45825*
FGC20473*	FGC20473*	FGC20473*
FGC20473*	FGC20473*	FGC20473*
BY31905*	BY31905*	BY31905*

Y45198	Y45198	Y45198
S19763*	S19763*	S19763*
S19763*	S19763*	S19763*
Z7265*	Z7265*	Z7265*
A522	A522	A522
FT140675	FT140675	FT140675
Y88850	Y88850	Y88850
Y86214*	Y86214*	Y86214*
Y86214*	Y86214*	Y86214*
Y89787	Y89787*	Y89787*
	Y89787*	Y89787*
		Y229550*
Y20293	Y20293	Y20293*
		Y20293*
Y97670	Y97670	Y97670*
		Y97670>Y105542
Y18921*	Y18921*	Y18921*
Y30539	Y30539	Y30539
Y59902	Y59902	Y59902
PH1237*	PH1237*	PH1237*
PH2591*	PH2591*	PH2591*
Y31038*	Y31038*	Y31038*
Y31038*	Y31038*	Y31038*
	FT52991	FT52991

Y42503	Y42503	Y42503
Y38683	Y38683	Y38683
Y182235*	Y182235*	Y182235*
SK1251*	SK1251*	SK1251*
L1227	L1227	L1227
Y7241*	Y7241*	Y7241*

Y143199*	Y143199*	Y143199*
Y4900	Y4900	Y4900
S16056	S16056	S16056
Y10648	Y10648	Y10648
Y15029	Y15029	Y15029
Y212022	Y212022	Y212022
BY60966	BY60966	BY60966
Y13321*	Y13321*	Y13321*
Y146149	Y146149	Y146149
BZ2610	BZ2610>Y189979	Y189979
	BZ2610>Y33133	Y33133>Y151397*
		Y33133>Y151397>Y8584
Y4714	Y4714	Y4714

Z31168*	Z31168*	Z31168*
FT13004*	FT13004*	FT13004*
FT13004*		
Y46816	Y46816	Y46816
Y33745	Y33745>Y91209	Y91209
BY68692>FT30350	FT30350	FT30350*
Y20863	Y20863	Y20863
FGC20063*	FGC20063*	FGC20063*
YP2572	YP2572	YP2572

BY31467	BY31467	BY31467
FGC26616*	FGC26616*	FGC26616*
FGC26616>BY110655	BY110655	BY110655
Y23716	Y23716>BY3805*	BY3805*
Y4142>Y7190	Y7190	Y7190
Y4142>Y36593	Y36593	Y36593*
		Y36593*
		Y36593*
Y4142>Y4751>Y159063	Y159063	Y159063
>Y4751>Y12714*	Y12714*	Y12714*
>Y4751>Y12714>Y12339	Y12339	Y12339
>Y4751>Y139612	Y139612*	Y139612*
	Y139612>Y139609	Y139609
>Y4751>Y10657	Y10657	Y10657>Y29627

		Y10657>Y10655
Y4751>Y140579>Y14058140584>BY54878>BY10649		BY106497
	Y140584>BY54878>FT34272	FT342728
>Y4751>Y33770	Y33770	Y33770>Y130813
>Y4751>Y4752	Y4752>YP6208	YP6208>Y32659
	Y4752>Y19693>Y62974	Y62974>Y182427
	Y4752>Y19693>Y62974	Y62974>Y76840
	Y4752>Y4750	Y4750>Y5673>Y11246
		Y4750>BY3819
		Y4750>Y11858
	BY58294	BY58294
Y20885*	Y20885*	Y20885*
Y8945	Y8945	Y8945
Y155150	Y155150	Y155150
Y5359*	Y5359*	Y5359*
Y5369	Y5369	Y5369
BY57564*	BY57564*	BY57564*
L1290*	L1290*	L1290*
Y64175	Y64175	Y64175
Y6639	Y6639>Y8830	Y8830
Y4946*	Y4946*	Y4946*
Y131277	Y131277	Y131277
Y33719	Y33719	Y33719
A11214	A11214	A11214
Y31091*	Y31091*	Y31091*
Y11762>Y11763	Y11763	Y11763
CTS10148*	CTS10148*	CTS10148*
CTS10148*	CTS10148*	CTS10148*
P95*	P95*	P95*
BY157642	BY157642	BY157642*
Y12335	Y12335	Y12335>Y13022
S6480	S6480	S6480
Y7155*	Y7155*	Y7155*
Y7426	Y7426	Y7426

Y31897	Y31897	Y31897
Y36056	Y36056	Y36056
Y84117*	Y84117*	Y84117*
Y84117>Y111141	Y111141	Y111141>FT62879
FT109035>Y47901	Y47901	Y47901
Y39366*	Y39366*	Y39366*
Y17502*	Y17502*	Y17502*
Y22007	Y22007>Y22005	Y22005
Y136469	Y136469	Y136469
Y102504	Y102504	Y102504
Y140191*	Y140191*	Y140191*
Y13037*	Y13037*	Y13037*
Y14695*	Y14695*	Y14695*
BY152608	BY152608	BY152608
Y90929	Y90929	Y90929
Y7263	Y7263	Y7263
	BY84315>BY161242	BY161242
	BY84315>FGC20000	FGC20000
BY205692	BY205692	BY205692
Y11231	Y11231	Y11231
Y142819	Y142819	Y142819
Y49919*	Y49919*	Y49919*
FGC55836	FGC55836	FGC55836*
		FGC55836>BY200547
Y132599	Y132599	Y132599
Y38763	Y38763	Y38763>BY3768
BY3778	BY3778	BY3778
FT86361*	FT86361*	FT86361*
Y18111*	Y18111*	Y18111*
Y18111*	Y18111*	Y18111*
Y29658*	Y29658*	Y29658*
Y29659	Y29659	Y29659
Y46018>Y16460	Y16460	Y16460
Y46018>Y7272	Y7272	Y7272
BY66854	BY66854	BY66854
Y36632	Y36632	Y36632
Y7671	Y7671	Y7671
Y29608	Y29608	Y29608

S8298*	S8298*	S8298*
Y111149	Y111149	Y111149
Y255684	Y255684	Y255684
CTS3428	CTS3428	CTS3428
Y81046>Y66799	Y66799	Y66799
Y7682	Y7682	Y7682
Y5729	Y5729	Y5729

Y48949	Y48949	Y48949
Y73555*	Y73555*	Y73555*
FGC80188*	FGC80188*	FGC80188*
Y146893*	Y146893*	Y146893*
Y154827	Y154827	Y154827
Z18183	Z18183	Z18183
FT264818*	FT264818*	FT264818*
Y162860	Y162860	Y162860

Y64544	Y64544>Y64235	Y64235
FT68397*	FT68397*	FT68397*
Y101509*	Y101509*	Y101509*
Y167232*	Y167232*	Y167232*
Z615*	Z615*	Z615*
Z4133*	Z4133*	Z4133*
Y189978	Y189978	Y189978
PH1602*	PH1602*	PH1602*
Z638*	Z638*	Z638*
Y182183*	Y182183*	Y182183*
BY23734*	BY23734*	BY23734*
S18238	S18238	S18238
FT33373*	FT33373*	FT33373*
BY87718	BY87718	BY87718
FT117099*	FT117099*	FT117099*
Y168581	Y168581	Y168581

Y129853	Y129853	Y129853
FT131786*	FT131786*	FT131786*
CTS11760*	CTS11760*	CTS11760*
Y155803*	Y155803*	Y155803*
Y16536	Y16536	Y16536
FT35302*	FT35302*	FT35302*
Y36202*	Y36202*	Y36202*
FT99882	FT99882	FT99882

Y136384	Y136384	Y136384
Y87605*	Y87605*	Y87605*
Y32998	Y32998	Y32998

Y42491	Y42491	Y42491
Y22056	Y22056>Y22057	Y22057
Y155314	Y155314	Y155314
FGC16079*	FGC16079*	FGC16079*

Z45881>Y95397	Y95397	Y95397
Z39057*	Z39057*	Z39057*
Y64860	Y64860	Y64860
Y27235	Y27235	Y27235*
		Y27235>FT375689
		Y27235>Y130918

FGC22532	FGC22532	FGC22532
BY195335*	BY195335*	BY195335*
Z41157	Z41157	Z41157
BY66226*	BY66226*	BY66226*

Y16179	Y16179	Y16179
FT72594*	FT72594*	FT72594*
Y26650*	Y26650*	Y26650*
BY127048*	BY127048*	BY127048*
Z2177*	Z2177*	Z2177*
Y64003	Y64003	Y64003

Y63950*	Y63950*	Y63950*
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FGC51041*	FGC51041*	FGC51041*
Y61682	Y61682	Y61682
BY60850	BY60850	BY60850
Z19971*	Z19971*	Z19971*
FTA74003	FTA74003	FTA74003
Y6409	Y6409	Y6409
FGC30201*	FGC30201*	FGC30201*

Y101945*	Y101945*	Y101945*
Y5003*	Y5003*	Y5003*
	BY29133	BY29133

Y17113*	Y17113*	Y17113*
Y17113>FGC14538	FGC14538	FGC14538
Y5611*	Y5611*	Y5611*

Y4706*	Y4706*	Y4706*
A2358*	A2358*	A2358*
FTA33333	FTA33333	FTA33333
L725	L725	L725
Y45524*	Y45524*	Y45524*
L329	L329	L329
BZ1487	BZ1487	BZ1487
Y4929	Y4929	Y4929
YP4568	YP4568	YP4568>BY15842
		YP4568>BZ50006
Y12445	Y12445*	Y12445*
	Y12445>BZ50007	BZ50007
	Y12445>Y15622	Y15622
	Y12445>L807	L807
Y38488	Y38488	Y38488*
BY66620	BY66620	BY66620
	Y29863	Y29863*
		Y29863*
YP1109*	YP1109*	YP1109*
YP4138	YP4138	YP4138
YP1051	YP1051	YP1051
FGC9988	FGC9988	FGC9988
Y322268	Y322268>YP543	YP543>YP550
YP943	YP943	YP943*
YP360	YP360	YP360
FGC57195	FGC57195	FGC57195
	YP4444*	YP4444*
	YP5455	YP5455
BY30530	BY30530>BY30531	BY30531
Y81602	Y81602	Y81602
YP1015*	YP1015*	YP1015*
YP4519	YP4519	YP4519
Y141132>YP5084	YP5084>Y34265	Y34265
	YP5084>Y38820	Y38820
FGC41401>YP4535	YP4535	YP4535
FGC41401>YP4515*	YP4515*	YP4515*

>YP4515>YP6042	YP6042	YP6042>Y61586
YP1214*	YP1214*	YP1214*
YP1214*	YP1214*	YP1214*
YP5686>FT219241	FT219241	FT219241
YP6501*	YP6501*	YP6501*
YP6501>BY62687	BY62687	BY62687
YP6501>BY105633	BY105633	BY105633
YP5578	YP5578	YP5578
FT92252*	FT92252*	FT92252*
YP1269*	YP1269*	YP1269*
BY87922*	BY87922*	BY87922*
YP4768*	YP4768*	YP4768*
BY32021	BY32021	BY32021
YP1359	YP1359	YP1359
BY30764*	BY30764*	BY30764*
YP6291	YP6291	YP6291
Y40719*	Y40719*	Y40719*
Y128147	Y128147	Y128147
YP4648	YP4648	YP4648
	YP445*	YP445*
	FGC2633	FGC2633
Y10805*	Y10805*	Y10805*
YP971*	YP971*	YP971*
YP4660*	YP4660*	YP4660*
CTS1055	CTS1055	CTS1055
YP4777	YP4777	YP4777
FGC2573	FGC2573	FGC2573
	Y40592*	Y40592*
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		BY29712
		Y63344
Y29963*	Y29963*	Y29963*
BY41494	BY41494	BY41494>Y142307
	YP5857*	YP5857*
S5708>CTS870	CTS870	CTS870
S5708>S7735	S7735	S7735
YP398*	YP398*	YP398*

	Y66214*	Y66214*
		YP5265*
	S3238	S3238
S5168	S5168	S5168
BY32096	BY32096	BY32096
	YP6267	YP6267>Y56412
		BY30725>BY183076
		BY30725>BY30721

YP1167*	YP1167*	YP1167*
YP4963*	YP4963*	YP4963*
YP5466	YP5466	YP5466
YP5688	YP5688	YP5688
YP4874	YP4874	YP4874

		FT7019*
Y81949*	Y81949*	Y81949*
YP5598*	YP5598*	YP5598*
YP4248>YP4253	YP4253	YP4253

YP4248>YP5007	YP5007	YP5007>BY30796
FT396067	FT396067	FT396067
Y157332	Y157332	Y157332*
		Y157332>FT144367
YP984	YP984	YP984>BY15853
		YP984>YP1415
		YP984>YP983

CTS4179*	CTS4179*	CTS4179*
BY30621	BY30621	BY30621
	BY27594*	BY27594*
S6821*	S6821*	S6821*
	YP5314	YP5314>BY30775

YP5314>Y39084

YP4345>S6796

YP275*	YP275*	YP275*
FT360504	FT360504*	FT360504*
	FT360504*	FT360504*
YP4489	YP4489	YP4489
YP330*	YP330*	YP330*
YP327	YP327	YP327>YP4871
		YP327>YP326

YP507	YP507>YP4899	YP4899
	YP507>M1960	M1960>BY27150
		M1960>YP4957
	YP507>YP4727	YP4727>Y144650
		YP4727>YP4726

	YP5718*	YP5718*
	YP5718>Y38533	Y38533

Y7777*	Y7777*	Y7777*
Y82825*	Y82825*	Y82825*
BY100846	BY100846	BY100846
BY17663*	BY17663*	BY17663*
BY3719*	BY3719*	BY3719*

Y82789*	Y82789*	Y82789*
BY187800	BY187800	BY187800
PH2309*	PH2309*	PH2309*
Y82698	Y82698	Y82698

Y20345	Y20345	Y20345>Y29085
Y19137	Y19137	Y19137
Y18959*	Y18959*	Y18959*
Y22198	Y22198>Y34195	Y34195
Y19469*	Y19469*	Y19469*
Y32822	Y32822>Y32826	Y32826

Y28635	Y28635	Y28635
FT268183*	FT268183*	FT268183*

Y37283	Y37283>Y110671	Y110671
	Y37283>Y40983	Y40983
CTS6718*	CTS6718*	CTS6718*
BY12063	BY12063	BY12063
Y139456	Y139456	Y139456
A8062	A8062	A8062
FGC37084*	FGC37084*	FGC37084*
Y87436	Y87436	Y87436
FGC30867	FGC30867	FGC30867
FGC69356*	FGC69356*	FGC69356*
FGC69356*	FGC69356*	FGC69356*
S22763	S22763*	S22763*
	S22763>BY148920	BY148920
FGC23887*	FGC23887*	FGC23887*
Y23037*	Y23037*	Y23037*
BY38452	BY38452	BY38452
A8509	A8509>A8515*	A8515*
	A8515>Y125239	Y125239
BY11796	BY11796	BY11796
FT123394*	FT123394*	FT123394*
Y22442*	Y22442*	Y22442*
Y23200	Y23200	Y23200
A10127	A10127	A10127
BY50728	BY50728	BY50728
FGC53757	FGC53757	FGC53757
Y11145*	Y11145*	Y11145*
BY198412	BY198412	BY198412
	FGC21340	FGC21340
FGC17464*	FGC17464*	FGC17464*
Y11837	Y11837	Y11837
		Y135930*
FGC5831*	FGC5831*	FGC5831*
FGC5831*	FGC5831*	FGC5831*
ZP147	ZP147	ZP147
Y45423*	Y45423*	Y45423*
ZP124	ZP124	ZP124
		BY71612*
FGC54210	FGC54210	FGC54210
BY18864*	BY18864*	BY18864*
Y133217	Y133217	Y133217
FT124142*	FT124142*	FT124142*
Y38140*	Y38140*	Y38140*
Y29971	Y29971	Y29971

	Y19139	Y19139
		Y53375*
		Y53375*
Y26648	Y26648	Y26648
A11482	A11482*	A11482*
S6358	S6358	S6358>S5443
		S3201*
		S3201*
BY20774	BY20774	BY20774*
		BY20774*
Y22217	Y22217	Y22217
BY20122*	BY20122*	BY20122*
BY20548	BY20548	BY20548*
		BY20548*
Y319166*	Y319166*	Y319166*
BY17919*	BY17919*	BY17919*
FTA16837	FTA16837	FTA16837
Y19736*	Y19736*	Y19736*
FGC11672	FGC11672	FGC11672*
		FGC11672>FGC11696
Y64481*	Y64481*	Y64481*
BY19407	BY19407	BY19407
FGC13343*	FGC13343*	FGC13343*
S4004*	S4004*	S4004*
FGC14823*	FGC14823*	FGC14823*
FGC20580	FGC20580	FGC20580
	Y92730*	Y92730*
Y17440*	Y17440*	Y17440*
A6535	A6535	A6535
BY41863*	BY41863*	BY41863*
FGC8395*	FGC8395*	FGC8395*
	FGC8373	FGC8373
BY41561	BY41561	BY41561
FGC79874*	FGC79874*	FGC79874*

A226	A226	A226
	A412*	A412*
FGC50035*	FGC50035*	FGC50035*
		Y13169*
Y99068	Y99068	Y99068
Z27559*	Z27559*	Z27559*
P89.2	P89.2	P89.2
FGC13608	FGC13608	FGC13608
BY20283	BY20283	BY20283
FGC13944	FGC13944	FGC13944
A14208	A14208	A14208
Z152	Z152	Z152
Y31452>BY64941	BY64941	BY64941
Y31452>Y31448	Y31448	Y31448
	BY72144	BY72144
Y37240	Y37240	Y37240
BY166647	BY166647	BY166647
Y22180	Y22180	Y22180
JFS0009*	JFS0009*	JFS0009*
FGC43819*	FGC43819*	FGC43819*
BY54956	BY54956	BY54956
Y23815	Y23815	Y23815
BY2951	BY2951	BY2951
S4076*	S4076*	S4076*
S4076>FGC37140	FGC37140	FGC37140
Y14063	Y14063	Y14063
JFS0169	JFS0169	JFS0169
FGC12307*	FGC12307*	FGC12307*
Y150877	Y150877	Y150877
FGC48449>BY28765*	BY28765*	BY28765*
>BY28765>FGC76387	FGC76387	FGC76387
>BY28765>Y28669	Y28669	Y28669
Y19279*	Y19279*	Y19279*
BY18067*	BY18067*	BY18067*
BY18065*	BY18065*	BY18065*
Y59719	Y59719	Y59719
BY12507*	BY12507*	BY12507*
BY12507*	BY12507*	BY12507*
A11431*	A11431*	A11431*
Y31330	Y31330	Y31330
A764	A764	A764
Y23102*	Y23102*	Y23102*
BY12202	BY12202	BY12202
Y30779	Y30779	Y30779

FGC6202*	FGC6202*	FGC6202*
Y23215	Y23215	Y23215
BY35823	BY35823	BY35823
Y136085*	Y136085*	Y136085*
Y136072	Y136072	Y136072
PH4931*	PH4931*	PH4931*
CTS1863	CTS1863	CTS1863
FGC30627*	FGC30627*	FGC30627*
FGC30627*	FGC30627*	FGC30627*
Y16534>A14298>BY6294	BY62942	BY62942
Y46067	Y46067	Y46067
S18883	S18883	S18883
FGC15450>FTA24810	FTA24810	FTA24810
FGC15450>Y32817	Y32817*	Y32817*
Y137011>BY35817*	BY35817*	BY35817*
FTA85935	FTA85935	FTA85935
PH2129	PH2129	PH2129
S6926	S6926>Y23828	Y23828
Y6462*	Y6462*	Y6462*
BY87656	BY87656	BY87656
A6093	A6093	A6093>FGC17310
		S9742*
CTS13009*	CTS13009*	CTS13009*
BY16601*	BY16601*	BY16601*
Y3465*	Y3465*	Y3465*
FGC52085	FGC52085	FGC52085
Y101927	Y101927	Y101927
Y3464*	Y3464*	Y3464*
A10236*	A10236*	A10236*
S22494	S22494	S22494
BY36004	BY36004	BY36004
FGC18846*	FGC18846*	FGC18846*
Y20959	Y20959	Y20959
BY20675*	BY20675*	BY20675*
BY20675*	BY20675*	BY20675*
FGC19972	FGC19972	FGC19972
PH2310>PH1822	PH1822	PH1822

Y146154	Y146154	Y146154
BY40178	BY40178	BY40178
S20054	S20054	S20054>YP4158
FGC41777	FGC41777	FGC41777
FGC17347	FGC17347	FGC17347
Y28576*	Y28576*	Y28576*
Y28576*	Y28576*	Y28576*
Y3159*	Y3159*	Y3159*
BY17979	BY17979	BY17979
Y130596	Y130596	Y130596
FT124389	FT124389	FT124389
Y111707	Y111707	Y111707
BY70305	BY70305	BY70305
S20422*	S20422*	S20422*
FGC5264	FGC5264*	FGC5264*
	FGC5264*	FGC5264*
	FGC5264>BY35940	BY35940
S1774>BY13132	BY13132*	BY13132*
	BY13132>Y131075	Y131075
	BY13132>PF889*	PF889*
	BY13132>PF889>Y30304	Y30304
S1774>S16701	S16701>Y19921	Y19921
A10942	A10942	A10942>A10937
BY14512	BY14512	BY14512
CTS10742	CTS10742>Y215936	Y215936
A687>A20848	A20848	A20848
A298*	A298*	A298*
A5898*	A5898*	A5898*
S18951>FGC17230	FGC17230	FGC17230
S10415*	S10415*	S10415*
Y154249	Y154249*	Y154249*
	Y154249*	Y154249*
	Y154249*	Y154249*
Y12853	Y12853	Y12853
FGC12983	FGC12983	FGC12983
		S5246
Z343*	Z343*	Z343*
FGC11784	FGC11784>FGC11773*	FGC11773*

FGC11784>S6881

S6881*

S6881>Y21526*

>Y21526>FGC76295*

>Y21526>FGC76295*

>>FGC76295>BY41899

>Y21526>BY16170

FT153218	FT153218	FT153218
FGC17040	FGC17040>FGC57021	FGC57021
	BY105611*	BY105611*
S3334*	S3334*	S3334*
BY20467	BY20467	BY20467
Y18211	Y18211	Y18211
Z30596*	Z30596*	Z30596*
Z30596*	Z30596*	Z30596*
S16027*	S16027*	S16027*
BY41521	BY41521	BY41521
Z2247*	Z2247*	Z2247*
FT7240*	FT7240*	FT7240*
S6932	S6932	S6932
Y11660*	Y11660*	Y11660*
SFL1>BY4665>BY18415	BY18415	BY18415
A6291*	A6291*	A6291*
BY193914*	BY193914*	BY193914*
	FT50453*	FT50453*
		BY19597
Z39400	Z39400	Z39400
CTS2975>BY39853	BY39853	BY39853*
		BY39853*
Z39898*	Z39898*	Z39898*
DF88*	DF88*	DF88*
BY18825>BY106488	BY106488	BY106488
S4268*	S4268*	S4268*
Y11522	Y11522	Y11522
FT26900*	FT26900*	FT26900*
Z29039*	Z29039*	Z29039*
BY110882	BY110882	BY110882
Z21088*	Z21088*	Z21088*
Z17121>Z17122*	Z17122*	Z17122*
>Z17122>Y262491*	Y262491*	Y262491*
>Z17122>Y262491*	Y262491*	Y262491*
>>Y262491>Z30496	Z30496	Z30496
U152*	U152*	U152*
Y22161	Y22161	Y22161

BY117303*	BY117303*	BY117303*
BY3854	BY3854*	BY3854*
	BY3854>BY42785	BY42785
BY3851*	BY3851*	BY3851*
Y29879	Y29879	Y29879
BY6638	BY6638	BY6638
BY3949	BY3949	BY3949
BY70282	BY70282	BY70282
Y262855	Y262855	Y262855
PH2982*	PH2982*	PH2982*
FGC36902*	FGC36902*	FGC36902*
BY186940	BY186940	BY186940
Y60298	Y60298	Y60298
BY9459*	BY9459*	BY9459*
Y24953	Y24953>Y37921	Y37921
FGC59783*	FGC59783*	FGC59783*
FGC71023*	FGC71023*	FGC71023*
Y16885	Y16885	Y16885
Y16884*	Y16884*	Y16884*
L2*	L2*	L2*
L2*	L2*	L2*
FGC11577	FGC11577	FGC11577
YF012582*	YF012582*	YF012582*
Y84137	Y84137	Y84137
Y139637*	Y139637*	Y139637*
Y19742	Y19742	Y19742
PAGES00073*	PAGES00073*	PAGES00073*
A197*	A197*	A197*
FGC5308	FGC5308	FGC5308
FTB7362	FTB7362	FTB7362
BY3490*	BY3490*	BY3490*
FGC42933*	FGC42933*	FGC42933*
FT59110*	FT59110*	FT59110*
FT59110*	FT59110*	FT59110*
Y31324	Y31324	Y31324
Y22312*	Y22312*	Y22312*
BY806	BY806	BY806>BY820
FT112540*	FT112540*	FT112540*
BY171286*	BY171286*	BY171286*
Y43738	Y43738	Y43738
L196	L196	L196
FG668*	FG668*	FG668*

BY98312	BY98312	BY98312
BY3491	BY3491	BY3491
FGC36255*	FGC36255*	FGC36255*
FGC79468	FGC79468	FGC79468
Y21277	Y21277	Y21277
BY34110	BY34110	BY34110
FT190968	FT190968	FT190968
PH137	PH137	PH137>Y146179
L20*	L20*	L20*
S11621*	S11621*	S11621*
Y111961	Y111961	Y111961
Y139223	Y139223	Y139223
Z1909*	Z1909*	Z1909*
Y74239	Y74239	Y74239
FT40040*	FT40040*	FT40040*
Y23243*	Y23243*	Y23243*
Y23243*	Y23243*	Y23243*
FT87109	FT87109	FT87109
Y15105	Y15105	Y15105
CTS7275	CTS7275	CTS7275
Y300559*	Y300559*	Y300559*
BY3555	BY3555	BY3555
A13341	A13341	A13341
BY33990	BY33990	BY33990
BY55682	BY55682	BY55682
Y11178	Y11178	Y11178
A20445	A20445	A20445
Y44772	Y44772	Y44772
Y55766	Y55766	Y55766
Y24530*	Y24530*	Y24530*
FGC12384	FGC12384	FGC12384
Y23226	Y23226	Y23226
FT38430*	FT38430*	FT38430*
BY33580	BY33580	BY33580
S42*	S42*	S42*
CTS11381	CTS11381	CTS11381
BY42705*	BY42705*	BY42705*
FGC69675*	FGC69675*	FGC69675*
CTS9462	CTS9462	CTS9462
CTS324	CTS324	CTS324

Y23824*	Y23824*	Y23824*
FT92823*	FT92823*	FT92823*
Y302902*	Y302902*	Y302902*
Y302902*	Y302902*	Y302902*
Y302902*	Y302902*	Y302902*
BY1544*	BY1544*	BY1544*
BY1544*	BY1544*	BY1544*
FT129526	FT129526	FT129526
BY153508	BY153508	BY153508
CTS7906*	CTS7906*	CTS7906*
CTS4706*	CTS4706*	CTS4706*
FTA8779	FTA8779	FTA8779*
		FTA8779*
		FTA8779*
		FTA8779>FT76302

Z16629	Z16629	Z16629
A11619*	A11619*	A11619*
A11619*	A11619*	A11619*
BY187503*	BY187503*	BY187503*
FT182413	FT182413	FT182413
Y175517	Y175517	Y175517
Y161662	Y161662	Y161662
Y11849	Y11849	Y11849
Y30754*	Y30754*	Y30754*
BY20186*	BY20186*	BY20186*
BY20186*	BY20186*	BY20186*
Y176485	Y176485	Y176485
FGC23066	FGC23066	FGC23066
PF6550*	PF6550*	PF6550*
BY159700*	BY159700*	BY159700*
Y151233*	Y151233*	Y151233*
Y151171	Y151171	Y151171
BY19228	BY19228	BY19228
Y49770*	Y49770*	Y49770*
BY15966*	BY15966*	BY15966*
A15697	A15697	A15697
FGC40678	FGC40678	FGC40678
FGC49738*	FGC49738*	FGC49738*
BY653*	BY653*	BY653*
BY21120	BY21120	BY21120

BY45079	BY45079	BY45079
A5303>A5305	A5305	A5305
Y36976	Y36976	Y36976
Y36306	Y36306	Y36306
BY19276>BY22194	BY22194*	BY22194*
	BY22194*	BY22194*
BY44621	BY44621	BY44621>BY71452
		BY44621>BY135146
FGC67371*	FGC67371*	FGC67371*
FGC17104	FGC17104>FGC17107*	FGC17107*
	FGC17104>FGC17107*	FGC17107*
	>FGC17107>BY3290*	BY3290*
	>>BY3290>BY34387	BY34387
Y13142	Y13142	Y13142*
		Y13142>Y13804
		Y13142>FGC39929
Y14529*	Y14529*	Y14529*
Y15787	Y15787	Y15787
BY19308*	BY19308*	BY19308*
L881	L881	L881
BY49854	BY49854	BY49854
Y14084	Y14084	Y14084
Z2565*	Z2565*	Z2565*
FGC49010*	FGC49010*	FGC49010*
A11637	A11637	A11637
BY12221>FGC67207	FGC67207>FGC57007	FGC57007
PH2054*	PH2054*	PH2054*
Y77621	Y77621*	Y77621*
Y3267*	Y3267*	Y3267*
BY19153*	BY19153*	BY19153*
BY164509	BY164509	BY164509
Y15639*	Y15639*	Y15639*
Y22184	Y22184	Y22184
Y234976	Y234976	Y234976
BY31431*	BY31431*	BY31431*
Y8397*	Y8397*	Y8397*
Y8397>Y235960	Y235960	Y235960
Y8397>A16155	A16155	A16155

Y8397>FGC39763	FGC39763	FGC39763
Y8397>Y32852	Y32852*	Y32852*
	Y32852>Y32851	Y32851
Y8397>FGC11414	FGC11414*	FGC11414*
L617*	L617*	L617*
Y150902	Y150902	Y150902
Y17452	Y17452	Y17452
FTA78382*	FTA78382*	FTA78382*
Y11281*	Y11281*	Y11281*
Y101605	Y101605	Y101605
Y84567	Y84567	Y84567
A11366*	A11366*	A11366*
Y62177	Y62177	Y62177
BY36541	BY36541	BY36541
FGC66827	FGC66827	FGC66827
BY22335*	BY22335*	BY22335*
Y17444	Y17444	Y17444
Y153322*	Y153322*	Y153322*
FT234339	FT234339	FT234339
Y59659*	Y59659*	Y59659*
Y59659*	Y59659*	Y59659*
Y3470*	Y3470*	Y3470*
Y134059*	Y134059*	Y134059*
PH92*	PH92*	PH92*
Y38511*	Y38511*	Y38511*
M428	M428	M428*
		M428>Y23193
		M428>Y64389
FGC28368	FGC28368	FGC28368
BY32742	BY32742	BY32742
	Y82202	Y82202*
Z295*	Z295*	Z295*
FGC23196*	FGC23196*	FGC23196*
BY36243	BY36243	BY36243
Y96610*	Y96610*	Y96610*
Y13213*	Y13213*	Y13213*
Y17458	Y17458	Y17458
Y10797*	Y10797*	Y10797*
FGC15748*	FGC15748*	FGC15748*
BY31939	BY31939	BY31939
FGC29748*	FGC29748*	FGC29748*
Z216*	Z216*	Z216*
PH1909*	PH1909*	PH1909*
PH3372	PH3372	PH3372

FGC35858	FGC35858	FGC35858
BY13623	BY13623	BY13623
BY3209	BY3209*	BY3209*
Y5113*	Y5113*	Y5113*
FT50341	FT50341	FT50341
Y5124	Y5124	Y5124>Y17482
		Y5124>Y5135*
		Y5124>Y5135>Y5108
BY27739*	BY27739*	BY27739*
Y60581*	Y60581*	Y60581*
S11475*	S11475*	S11475*
S11475*	S11475*	S11475*
Y303155*	Y303155*	Y303155*
Y8412	Y8412	Y8412
Y34472	Y34472	Y34472
Y7729	Y7729	Y7729
Y28570*	Y28570*	Y28570*
Y30608*	Y30608*	Y30608*
BY33836	BY33836	BY33836
FT115084	FT115084	FT115084
Z208*	Z208*	Z208*
Y73696	Y73696>PF2462	PF2462
BY86549*	BY86549*	BY86549*
BY33784*	BY33784*	BY33784*
CTS4863*	CTS4863*	CTS4863*
BY12123	BY12123	BY12123
BY40726	BY40726	BY40726
FGC11225	FGC11225	FGC11225

Y18454	Y18454	Y18454
A7904>A7908	A7908	A7908
S3687	S3687	S3687
BY20330*	BY20330*	BY20330*
Y224702	Y224702	Y224702
Z16245*	Z16245*	Z16245*
BY2596*	BY2596*	BY2596*
FT19191	FT19191	FT19191
FGC36423*	FGC36423*	FGC36423*
Y163732	Y163732	Y163732

DF13*	DF13*	DF13*
Y176317	Y176317	Y176317
BY23434	BY23434	BY23434
FGC24305*	FGC24305*	FGC24305*
BY23593	BY23593	BY23593

CTS2139	CTS2139	CTS2139
FGC33755	FGC33755	FGC33755
BY3925	BY3925	BY3925
FGC13749*	FGC13749*	FGC13749*
Y112885*	Y112885*	Y112885*
Y112885*	Y112885*	Y112885*
BY19430	BY19430	BY19430
Y62830*	Y62830*	Y62830*
Y66184*	Y66184*	Y66184*
Y66184*	Y66184*	Y66184*
A9850	A9850	A9850
Y46780*	Y46780*	Y46780*
		A11313
Y16225	Y16225	Y16225*
		Y16225>BY248
A2070	A2070>Y16765	Y16765
S19268*	S19268*	S19268*
FT44417	FT44417	FT44417
Z17970	Z17970>BY72119	BY72119
S1026*	S1026*	S1026*
BY2600	BY2600	BY2600>BY2666
FT5949*	FT5949*	FT5949*
BY54624*	BY54624*	BY54624*
BY30586	BY30586	BY30586*
		BY30586*
FGC49773*	FGC49773*	FGC49773*
FGC49766	FGC49766	FGC49766
BY30439	BY30439	BY30439
BY161172	BY161172	BY161172
Y49374*	Y49374*	Y49374*
BY595>Y32764	Y32764	Y32764
BY595>FGC35783	FGC35783>Y46429	Y46429>Y48868
S1051*	S1051*	S1051*
FGC29516	FGC29516	FGC29516*
Y23823*		
BY23657	BY23657	BY23657
FGC52285	FGC52285	FGC52285
FGC42321*	FGC42321*	FGC42321*

FGC42336	FGC42336	FGC42336
FGC46820*	FGC46820*	FGC46820*
FGC46823	FGC46823	FGC46823
FGC19428	FGC19428	FGC19428*
		FGC19428>FGC19436
FGC28635	FGC28635*	FGC28635*
	FGC28635*	FGC28635*
	FGC28635>FGC28625	FGC28625
S1043	S1043	S1043>BY24822
FGC5494*	FGC5494*	FGC5494*
FGC5494*	FGC5494*	FGC5494*
FGC19914	FGC19914	FGC19914
Y9090>A1148	A1148	A1148*
		A1148*
Y9097*	Y9097*	Y9097*
A7677	A7677	A7677
A12817	A12817	A12817
Y31855	Y31855*	Y31855*
	Y31855*	Y31855*
Y136898*	Y136898*	Y136898*
FGC7448*	FGC7448*	FGC7448*
S1088*	S1088*	S1088*
FGC5549*	FGC5549*	FGC5549*
FGC5511*	FGC5511*	FGC5511*
FGC5517	FGC5517	FGC5517
BY160809	BY160809	BY160809>FT123778
FGC43417*	FGC43417*	FGC43417*
A13160	A13160	A13160
A8450*	A8450*	A8450*
BY17875	BY17875	BY17875
Y83886	Y83886	Y83886
BY17700*	BY17700*	BY17700*
BY17700>Y82840	Y82840	Y82840
		Z16431*
BY30952*	BY30952*	BY30952*
BY34871*	BY34871*	BY34871*
Y83315	Y83315	Y83315
FGC11271	FGC11271	FGC11271*

		FGC11271*
BY20958	BY20958	BY20958
A210	A210	A210
A663	A663>BY24324	BY24324
A541*	A541*	A541*
A151>FGC29768*	FGC29768*	FGC29768*
A151>FGC29768*	FGC29768*	FGC29768*
Z251*	Z251*	Z251*
Y44741	Y44741	Y44741
A228>A959	A959>A968	A968
A228>A241	A241*	A241*
S11556*	S11556*	S11556*
Y82327	Y82327	Y82327
Y11273*	Y11273*	Y11273*
FGC65746	FGC65746	FGC65746
FGC11986*	FGC11986*	FGC11986*
BY107437	BY107437	BY107437
BY9005*	BY9005*	BY9005*
Y11270>Y11269	Y11269	Y11269>A2158

A11648	A11648	A11648
FT74121*	FT74121*	FT74121*
BY112307	BY112307>BY112589	BY112589
FT249591	FT249591	FT249591
BY23397*	BY23397*	BY23397*
BY23397*	BY23397*	BY23397*
Y105803	Y105803	Y105803
FT98630	FT98630	FT98630
FT169596	FT169596	FT169596

BY39033*	BY39033*	BY39033*
BY39033*	BY39033*	BY39033*

Y307848	Y307848	Y307848
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Y31305	Y31305	Y31305
A874*	A874*	A874*
A875*	A875*	A875*
BY23505*	BY23505*	BY23505*
BY38359	BY38359	BY38359
FGC36627	FGC36627	FGC36627
BY160	BY160	BY160
MC04	MC04	MC04>MC13
		MC04>MC00

Y5655	Y5655*	Y5655*
	Y5655>Y5650	Y5650
A600*	A600*	A600*
A600*	A600*	A600*
L744	L744	L744
Y5741	Y5741	Y5741>Y5739>Y22229
		Y5741>Y5739>Y5740
Y300179>Y23191	Y23191*	Y23191*
Y300179>FGC10125	FGC10125>Y214646	Y214646
	FGC10125>Y7359	Y7359*
		Y7359>FGC10124

S744*	S744*	S744*
S744>A9354	A9354	A9354
S744>Y16858	Y16858*	Y16858*
	Y16858*	Y16858*
	Y16858>A1141	A1141

S744>Y6668>FGC32890	FGC32890	FGC32890
S744>Y6668>Y7845*	Y7845*	Y7845*
>>Y7845>Y11899	Y11899	Y11899>A5908
		Y11899>A5911
S744>S691*	S691*	S691*
S744>S691*	S691*	S691*
>S691>A850>BY11749	BY11749>Y22159>Y22160	Y22160
>S691>S7361	S7361	S7361*
		S7361>Y32811
		S7361>CTS5356*
		S7361>CTS5356>CTS602
		S7361>Y29908

>S691>S695	S695*	S695*
	S695>A6931	A6931
	S695>A5291	A5291
	S695>FGC9572	FGC9572*
		FGC9572*
	S695>FGC19633>FGC46882	FGC46882*
	>>FGC46882>FGC32577	FGC32577

S744>S764*	S764*	S764*
S744>S764>FTA81912	FTA81912	FTA81912
S744>S764>L743	L743	L743
S744>S764>Z17614	Z17614	Z17614

S744>S764>BY205916	BY205916	BY205916
S744>S764>FT133802	FT133802	FT133802
S744>S764>BY22054	BY22054	BY22054
S744>S764>Y11804	Y11804	Y11804
S744>S764>Z17611	Z17611*	Z17611*
	Z17611>FGC17595	FGC17595
S744>S764>Y16252	Y16252	Y16252>BY23333
S744>S764>FGC18441	FGC18441	FGC18441>FGC18447
S764>FGC45275>BY1974	BY19745*	BY19745*
>>FGC45275>S756	S756	S756>A6099
		S756>BY25532
		S756>Z16328*
		S756>Z16328>BY23073
		S756>Z16328>Y31372
		S756>Z16328>BY154
Y44961	Y44961	Y44961
Z23534	Z23534	Z23534
Z16407	Z16407>Z17909	Z17909*
Y3556*	Y3556*	Y3556*
CTS3087*	CTS3087*	CTS3087*
Y3555>Z17629	Z17629	Z17629
3555>FGC32363>BY1128	BY11280	BY11280
BY184>BY182*	BY182*	BY182*
BY184>BY182>FT18700	FT18700	FT18700
		FGC32230*
S5668*	S5668*	S5668*
Z16854	Z16854	Z16854
A11138	A11138	A11138
Y29969>FGC82702	FGC82702	FGC82702
A20238	A20238	A20238*
BY54262	BY54262	BY54262
S23634	S23634	S23634
S7834>S7828	S7828>BY11186	BY11186
S5982*	S5982*	S5982*
Z17816*	Z17816*	Z17816*
A1069	A1069	A1069>BY193326

		A1069>A1067
ZS4584*	ZS4584*	ZS4584*
ZS4584*	ZS4584*	ZS4584*
ZS4584*	ZS4584*	ZS4584*
ZS4584>Y32809	Y32809	Y32809
FGC32004*	FGC32004*	FGC32004*
BY2634	BY2634*	BY2634*
Y31361	Y31361	Y31361
A3*	A3*	A3*
A8>FGC32838	FGC32838	FGC32838
A8>Y11640	Y11640	Y11640
Z253*	Z253*	Z253*
Y13500*	Y13500*	Y13500*
Y198506	Y198506	Y198506
BY23575*	BY23575*	BY23575*
FGC3236	FGC3236>FGC3251	FGC3251
FGC41893	FGC41893	FGC41893
BY4072	BY4072	BY4072
Y247080	Y247080	Y247080
BY20037	BY20037	BY20037
A276*	A276*	A276*
Y96072*	Y96072*	Y96072*
L643>Y28579	Y28579	Y28579
L226*	L226*	L226*
	FGC5660*	FGC5660*
BY62794*	BY62794*	BY62794*
PH1704	PH1704	PH1704
BY19824	BY19824	BY19824
FGC35529*	FGC35529*	FGC35529*
FGC23702*	FGC23702*	FGC23702*
FGC23702*	FGC23702*	FGC23702*
A11736*	A11736*	A11736*
Y29970	Y29970	Y29970
FT25222	FT25222>FT194739	FT194739
BY20072	BY20072>Y90771	Y90771
BY40372	BY40372	BY40372

TS9251>CTS4296>Y860	Y8603>A2072*	A2072*
DF21*	DF21*	DF21*
BY13823	BY13823	BY13823
Y15984	Y15984	Y15984
BY99030*	BY99030*	BY99030*
FT258227	FT258227	FT258227
Y34280	Y34280	Y34280
BY75265	BY75265	BY75265
Z16533*	Z16533*	Z16533*
Z16533>Y101563	Y101563	Y101563
BY23456	BY23456	BY23456
BY2719*	BY2719*	BY2719*
BY23532	BY23532	BY23532
BY75560*	BY75560*	BY75560*
BY75560*	BY75560*	BY75560*
Y22972	Y22972	Y22972>FT76179
		Y22972>FGC51730
		FG
S190>FGC3212	FGC3212	FGC3212
S190>Y67231	Y67231	Y67231
S190>Z39298*	Z39298*	Z39298*
S190>Z36747*	Z36747*	Z36747*
S190>Z36747>Y16486	Y16486	Y16486
S190>Y246946	Y246946>Y12464>Z29545	Z29545
	Y246946>Y12464>Z29552	Z29552
	Y246946>Y12464>Z17998	Z17998>Y16002*
		>Y16002>FGC21907>Y1600
		>Y16002>FGC21907>Z299!
DF25*	DF25*	DF25*
Y41120	Y41120	Y41120
FGC72907	FGC72907	FGC72907
L1446	L1446	L1446
Y7346	Y7346	Y7346
BY23524	BY23524	BY23524
A5409*	A5409*	A5409*
Y12651*	Y12651*	Y12651*

Y63034	Y63034	Y63034
FGC3911>L626	L626	L626
BY3364>BY3368	BY3368	BY3368

S5488*	S5488*	S5488*
A6484	A6484	A6484
Y142580*	Y142580*	Y142580*
L1336*	L1336*	L1336*
BY11111	BY11111	BY11111
S6000*	S6000*	S6000*
BY11112	BY11112	BY11112
BY11119	BY11119	BY11119
A14029	A14029	A14029
BY205877	BY205877	BY205877
FGC58900*	FGC58900*	FGC58900*
FGC58900*	FGC58900*	FGC58900*
FGC47949	FGC47949	FGC47949

S19938	S19938>Y134091	Y134091
BY23924*	BY23924*	BY23924*
FGC11175*	FGC11175*	FGC11175*
ZP80	ZP80	ZP80

Z2980*	Z2980*	Z2980*
Z2980*	Z2980*	Z2980*
FT94077	FT94077	FT94077
Y94317	Y94317	Y94317
BY35100*	BY35100*	BY35100*
BY35100*	BY35100*	BY35100*
Y24525	Y24525>Y24529	Y24529
ZP171*	ZP171*	ZP171*
FGC30390	FGC30390>Y36722	Y36722*
		Y36722>FGC30377
A8255*	A8255*	A8255*
A8255*	A8255*	A8255*

FGC51330	FGC51330	FGC51330	
BY3437	BY3437	BY3437	
Y281106*	Y281106*	Y281106*	
FGC5862	FGC5862	FGC5862	
		FGC12948*	
	FT27424	FT27424	
A725*	A725*	A725*	
		A11360*	
A10661	A10661	A10661*	
		A10661>A10663	
Y134650	Y134650	Y134650	
FGC4133	FGC4133	FGC4133	
A16160	A16160	A16160	
		A982	
	FGC36289*	FGC36289*	
	FGC36289>BY11694	BY11694>BY11698	
	FGC36289>FGC35906	FGC35906	
			FG
	Y3646*	Y3646*	
	BY184899	BY184899	
	FGC16740*	FGC16740*	
	FGC16740*	FGC16740*	
FGC19831	FGC19831	FGC19831*	
		FGC19831>FGC19832	
S7814*	S7814*	S7814*	
		A10526*	
		A10526>Y23074*	
		A10526>Y23074>A11215	
Y34170	Y34170	Y34170	
BY18350	BY18350	BY18350	
Y136497*	Y136497*	Y136497*	
BY25887	BY25887	BY25887	
Z29319*	Z29319*	Z29319*	

1250 AD	1500 AD	Present	YFull ID	Country
BY16213*	BY16213*	BY16213*	YF010832	Scotland
PF714*	PF714*	PF714*	YF081762	England
Y311987*	Y311987*	Y311987*	UK481F67	Britain
Y19698*	FT99849 Y19698*	FT99849 Y19698*	YF064821, \	England
Z31503	Z31503	Z31503	YF004494	England
Z20650	Z20650	Z20650	YF004871	England
Y20219*	Y20219*	Y20219*	YF083016	England
Y24438	Y24438	Y24438	YF006985, \	England
Y135742	Y135742	Y135742	YF102114	Scotland
FT405608	FT405608	FT405608	YF097941, \	Scotland
Y131346	Y131346	Y131346	YF011845, \	Scotland
Z37806*	Z37806*	Z37806*	YF094600	Scotland
FGC91110	FGC91110	FGC91110	YF095540	Britain
Y173631	Y173631	Y173631	YF063563 e	England
FGC24064	FGC24064	FGC24064	UKB66F1C	Britain
Z1786*	Z1786*	Z1786*	YF090585	England
CTS127	CTS127	CTS127	YF014757	Britain
Z1673*	Z1673*	Z1673*	YF086829	Britain
BY8832*	BY8832*	BY8832*	YF012169	Britain
FT16711*	FT16711*	FT16711*	YF086766	Scotland
Y32578*	Y32578*	Y32578*	YF087036	England
BY8405	BY8405	BY8405	YF008515, \	Wales
Y180735	Y180735	Y180735	YF097890	England
FT63559	FT63559	FT63559	YF071683, \	Scotland
Y30971*	Y30971*	Y30971*	YF007614	Wales
BY7700	BY7700	BY7700	YF097351	England
Y20806	Y20806>Y72125*	Y72125*	YF066162	England
	Y20806>Y72125*	Y72125*	YF063426	England
Y91576*	Y91576*	Y91576*	YF079884	England
FT142653*	FT142653*	FT142653*	UK655115	Britain
FGC14094*	FGC14094*	FGC14094*	YF019809	Wales
FGC14091*	FGC14091*	FGC14091*	YF010433	Wales
BY5967	BY5967	BY5967	UKD768D4	England
S24894	S24894	S24894	UK39054D, \	England
A10665	A10665	A10665	YF087817	England
Y38934	Y38934	Y38934	YF097888	Britain
BY55359	BY55359	BY55359	YF016527	England
Y133119	Y133119*	Y133119*	YF019232	England
	Y133119>BY6094*	BY6094*	YF016303	England
	Y133119>BY6094*	BY6094*	YF011384	England
Y61211	Y61211	Y61211	YF012593, \	England
Y45878*	Y45878*	Y45878*	YF065109	England

Y45878*	Y45878*	Y45878*	YF004326	England
Y158608	Y158608	Y158608	YF015461	England
BY160711*	BY160711*	BY160711*	YF073673	Britain
FTB9784	FTB9784	FTB9784	YF089194	Britain
Y251806*	Y251806*	Y251806*	YF066708	England
BY15395*	BY15395*	BY15395*	YF010086	England
BY3880*	BY3880*	BY3880*	YF066797	England
Y62522	Y62522	Y62522	YF068537	England
Y126090*	Y126090*	Y126090*	YF086147	England
Y209034	Y209034	Y209034	YF075550	England
A11182*	A11182*	A11182*	YF006180	England
Y152935	Y152935	Y152935	YF017315, \	England
Y16734*	Y16734*	Y16734*	YF011963	England
Y16733>BY5766*	BY5766*	BY5766*	YF068292	Scotland
Y16733>BY5766*	BY5766*	BY5766*	YF011257	Scotland
Y16733>Y101815	Y101815	Y101815	YF014456, \	Scotland
Z19851*	Z19851*	Z19851*	YF007921	England
Z19851*	Z19851*	Z19851*	YF089661	Scotland
CTS5415*	CTS5415*	CTS5415*	YF077700	England
Y20431	Y20431	Y20431	YF005422 e)	England
Y155451	Y155451	Y155451	YF068664	England
FGC67002*	FGC67002*	FGC67002*	YF015181	England
BY5500*	BY5500*	BY5500*	YF074547	England
Y20823*	Y20823*	Y20823*	YF008024	England
Y152072	Y152072	Y152072	YF005491 e)	England
Y250274*	Y250274*	Y250274*	YF086164	England
Y250274*	Y250274*	Y250274*	YF083674	England
BY6550*	BY6550*	BY6550*	YF009792	Scotland
Z38519	Z38519	Z38519	YF003342	Scotland
A930*	A930*	A930*	YF086994	Scotland
A930*	A930*	A930*	YF009118	Britain
MZ185	MZ185	MZ185	YF082835, \	Scotland
Y308211*	Y308211*	Y308211*	YF095055	England
PF2546*	PF2546*	PF2546*	YF101977	England
	BY10313*	BY10313*	YF008332	England
PH1646	PH1646	PH1646	YF097156	England
Y91313	Y91313*	Y91313*	YF019890	England
L793*	L793*	L793*	YF002383	England
FTA46044*	FTA46044*	FTA46044*	YF088540	England
BY10662*	BY10662*	BY10662*	YF004815	Scotland
Y45029*	Y45029*	Y45029*	YF015262	England
	A16695*	A16695*	YF084915	England
BY21302*	BY21302*	BY21302*	YF004165	Britain
Z6553*	Z6553*	Z6553*	YF103158	England

Z17775*	Z17775*	Z17775*	UK63112C	Britain
FGC1053*	FGC1053*	FGC1053*	YF080144	England
Y85489	Y85489	Y85489	YF007873	Wales
BY133179*	BY133179*	BY133179*	YF084954	England
Z43083	Z43083	Z43083	YF008681, \	England
FGC58189*	FGC58189*	FGC58189*	YF007777	England
Y82047*	Y82047*	Y82047*	YF087055	England
M3336*	M3336*	M3336*	YF074531	England
Y24446*	Y24446*	Y24446*	YF100848	England
Y94474*	Y94474*	Y94474*	YF011112	England
Y94474*	Y94474*	Y94474*	UK5FABB5	England
FT44209	FT44209	FT44209	YF082003, \	Scotland
Y125465	Y125465*	Y125465*	YF085934	England
	Y125465*	Y125465*	YF014222	England
FGC82036*	FGC82036*	FGC82036*	YF014113	Scotland
L640*	L640*	L640*	YF013986	England
L640>Y88	Y88	Y88	YF012982	England
FGC23437*	FGC23437*	FGC23437*	YF012029	England
L660*	L660*	L660*	YF002257	England
CTS12777*	CTS12777*	CTS12777*	YF005248	England
Z42471*	Z42471*	Z42471*	YF010630	Britain
		Z42471*	YF007179	Britain
FGC1016*	FGC1016*	FGC1016*	YF004478	Scotland
Z39372	Z39372	Z39372	YF095492, \	England
Z30781*	Z30781*	Z30781*	YF004572	Britain
Z30781*	Z30781*	Z30781*	YF004117	Britain
Y54750*	Y54750*	Y54750*	YF103080	Britain
Y54750*	Y54750*	Y54750*	YF103077	Britain
Y54750*	Y54750*	Y54750*	YF102031	Britain
L1263*	L1263*	L1263*	YF005035	England
FT164321	FT164321	FT164321	UKAC4950	Britain
Y18376*	Y18376*	Y18376*	YF065623	England
BY108805	BY108805	BY108805	YF014399	Britain
BY152564*	BY152564*	BY152564*	YF068571	England
BY152564*	BY152564*	BY152564*	YF014215	Britain
FGC809*	FGC809*	FGC809*	YF064470	England
Y31011*	Y31011*	Y31011*	YF008011	England
BY54283	BY54283	BY54283	YF065995	England
Y28133*	Y28133*	Y28133*	YF019415	England
Z36218	Z36218	Z36218	YF066719	England
Z39670*	Z39670*	Z39670*	YF005828	England
Z34079*	Z34079*	Z34079*	YF003415	Scotland
Z31343	Z31343*	Z31343*	YF083001	England
	Z31343>Y68466*	Y68466*	YF089618	England

	Z31343>Y68466*	Y68466*	YF004987	England
	Z31343>Y66258	Y66258>FT409950	YF079697	England
FGC60019	FGC60019	FGC60019	YF004840	England
Y244980	Y244980	Y244980	YF065404	England
BY199514*	BY199514*	BY199514*	YF087062	Britain
Y36533	Y36533*	Y36533*	YF082819	Wales
	Y36533>S2827	S2827>Y36536	YF010145, \	Wales
FGC14522*	FGC14522*	FGC14522*	YF006091	England
Y30998	Y30998	Y30998	YF008718	England
S2784	S2784	S2784	YF009091	England
	FT153446*	FT153446*	YF097489	Scotland
Z30742*	Z30742*	Z30742*	YF093482	England
Y126851	Y126851	Y126851	YF089358, \	England
Y21609*	Y21609*	Y21609*	YF074554	England
BY16702*	BY16702*	BY16702*	YF005013	England
BY47158*	BY47158*	BY47158*	YF064843	Scotland
		Y17916	YF004349	England
A9606*	A9606*	A9606*	YF003462	England
Y53530	Y53530	Y53530	YF064457	England
A9222	A9222	A9222	YF005316	England
A18294	A18294	A18294	YF011499	England
S2316	S2316	S2316	YF007087	England
S4663	S4663	S4663	HG00140	Britain
A13821*	A13821*	A13821*	YF077818	Scotland
PH2706*	PH2706*	PH2706*	YF071928	England
Y172395	Y172395	Y172395	YF063317,	England
A8162*	A8162*	A8162*	YF003891	England
FTB21048	FTB21048	FTB21048	YF090162, \	England
FGC15556*	FGC15556*	FGC15556*	YF004776	Scotland
A16928	A16928	A16928	YF010213	Isle of Man
FGC15547	FGC15547	FGC15547	YF073558 el	Scotland
Y7920*	Y7920*	Y7920*	YF072528	England
Y10699	Y10699	Y10699	YF002629	England
A5646	A5646	A5646	YF003443	Scotland
Y36037*	Y36037*	Y36037*	YF010440	Scotland
A14571	A14571	A14571	YF075638	Scotland
Z63*	Z63*	Z63*	YF007353	England
BY111511*	BY111511*	BY111511*	YF067322	England
BY111511>BY206780	BY206780	BY206780	YF067782	England
Y8331*	Y8331*	Y8331*	YF088941	Scotland
Y8331*	Y8331*	Y8331*	YF002456	England
S11545*	S11545*	S11545*	YF078553	England
Y19648	Y19648*	Y19648*	YF102011	England
	Y19648>Y19877	Y19877	YF009269 el	England

Y41260	Y41260	Y41260	YF013028	England
Y21370	Y21370*	Y21370*	YF002697	England
	Y21370*	Y21370*	YF006728	England
	Y21370>Y67287	Y67287	YF064524 e1	England
Y13946*	Y13946*	Y13946*	YF015979	England
Y14111*	Y14111*	Y14111*	YF002452	England
Y67429*	Y67429*	Y67429*	YF073576	England
Y132620	Y132620	Y132620	YF019051	England
FT401330	FT401330	FT401330	YF008037	England
Y45752	Y45752	Y45752	YF003716	England
A8242	A8242	A8242	YF001876	England
Y13945*	Y13945*	Y13945*	YF003191	England
A377	A377	A377	YF005630, \	England
Y133856	Y133856	Y133856	YF012083	England
MF603955	MF603955	MF603955	YF006013	England
FGC29244*	FGC29244*	FGC29244*	YF008035	England
BY15934	BY15934	BY15934	YF011859, \	England
Y14344	Y14344	Y14344	YF003285, \	England
Y7626*	Y7626*	Y7626*	YF070827	England
Y7626*	Y7626*	Y7626*	YF014427	England
Y43820	Y43820	Y43820	YF002310	England
Y23119>Y23122	Y23122	Y23122	YF071374	England
Y6615*	Y6615*	Y6615*	YF002799	England
Y6615>Y6612	Y6612	Y6612	YF003184 e1	Scotland
Y11252*	Y11252*	Y11252*	YF009627	Scotland
A11298*	A11298*	A11298*	YF011132	England
FGC24008	FGC24008	FGC24008>FGC3375	YF089285	Scotland
		FGC24008>FGC2401	YF090266 e1	Scotland
Y3866*	Y3866*	Y3866*	YF017148	Wales
Y15020*	Y15020*	Y15020*	YF068265	Scotland
Y132652	Y132652	Y132652	YF011896	England
Y131844	Y131844	Y131844	YF064386, \	England
Y22009>Y66500	Y66500	Y66500	YF097903, \	Scotland
Y17395	Y17395	Y17395	YF066380 e1	Scotland
A13289	A13289	A13289	YF013855	Scotland
Y16044*	Y16044*	Y16044*	YF006049	Scotland
Y49995	Y49995	Y49995	YF003620	England
Y21671*	Y21671*	Y21671*	YF007094	England
BY34712	BY34712	BY34712	YF086026, \	England
Y18770*	Y18770*	Y18770*	YF004549	England
Y19053*	Y19053*	Y19053*	YF007654	Britain
FGC41720	FGC41720>FGC4173	FGC41734	YF004771	Wales
Y48920*	Y48920*	Y48920*	YF003917	England
FTA95336	FTA95336*	FTA95336*	YF095465	Scotland

	FTA95336*	FTA95336*	YF095458	Scotland
FGC10448	FGC10448	FGC10448	YF103203 ei	England
Y23687*	Y23687*	Y23687*	YF072498	England
Y48588	Y48588	Y48588	YF068059	England
Y14328*	Y14328*	Y14328*	YF003646	England
M8151	M8151	M8151	YF001893	England
		FGC52003	YF010093 ei	Britain
FGC67216	FGC67216	FGC67216	YF004756	Scotland
Y54100	Y54100	Y54100	YF064191	England
Y47647*	Y47647*	Y47647*	YF002708	England
Y15031	Y15031	Y15031	YF066285	England
L205*	L205*	L205*	YF007687	England
Y11821*	Y11821*	Y11821*	YF002843	England
Y91666	Y91666	Y91666	YF007846	England
	FGC21749*	FGC21749*	YF009942	England
Y14225	Y14225>FGC21763	FGC21763	YF065529, \	Scotland
Y5842*	Y5842*	Y5842*	YF064406	Scotland
Y19790a	Y19790a	Y19790a	UK247AEC	Britain
BY35251*	BY35251*	BY35251*	YF063549	England
FGC2181*	FGC2181*	FGC2181*	YF001673	Britain
FGC33239*	FGC33239*	FGC33239*	YF003174	Britain
Y15572	Y15572	Y15572	YF003531	England
Y4045*	Y4045*	Y4045*	YF082810	England
Y4043	Y4043*	Y4043*	YF015362	England
Y31110	Y31110	Y31110	YF003654	England
Y29630*	Y29630*	Y29630*	YF071213	England
Y7258	Y7258	Y7258	YF001625	England
Y31122	Y31122*	Y31122*	YF009541	England
Y32357*	Y32357*	Y32357*	YF015233	England
Y36126	Y36126	Y36126	YF010762	England
S14887a*	S14887a*	S14887a*	YF093755	England
S14887a*	S14887a*	S14887a*	YF014147	England
Y130599*	Y130599*	Y130599*	YF011710	England
Y84534	Y84534	Y84534	YF092325	Britain
FGC69938>FGC21970	FGC21970	FGC21970	YF019283	England
FGC69938>Y262369	Y262369	Y262369	YF002344	England
FGC69938>Y4739*	Y4739*	Y4739*	YF004288	England
>Y4739>Y13944	Y13944	Y13944	YF003192 ei	England
Y33695	Y33695>FGC65639	FGC65639	YF018913, \	Scotland
BY37406*	BY37406*	BY37406*	YF083092	England
Y145059	Y145059	Y145059	YF083183, \	England
FT5747	FT5747	FT5747	YF063289	England
Y70431*	Y70431*	Y70431*	YF006371	England
Y250122	Y250122	Y250122	UK2FDC52	Britain

Y192822	Y192822	Y192822	YF071479	Britain
Y6211>Y33772	Y33772	Y33772	YF009504, \	Britain
Y6211>Y7545	Y7545	Y7545	YF002753 e	England
Y6211>Y6213	Y6213	Y6213	YF002085 e	England
BY161397*	BY161397*	BY161397*	YF018893	England
Y17060*	Y17060*	Y17060*	YF100237	England
Y20364	Y20364	Y20364	YF001832	England
Y66983*	Y66983*	Y66983*	YF005759	England
Y139911	Y139911	Y139911	YF102296	England
FT259779	FT259779	FT259779	YF075424	Scotland
FT62329*	FT62329*	FT62329*	YF014821	England
FT62329>FGC12097	FGC12097>Y36049	Y36049	YF010291	England
Y80329*	Y80329*	Y80329*	YF006333	England
Y29635	Y29635>A17051*	A17051*	YF006729	Scotland
Y34445>Y34447*	Y34447*	Y34447*	YF009884	Scotland
Y34445>Y34447*	Y34447*	Y34447*	YF015486	Scotland
Y34445>Y34447*	Y34447*	Y34447*	YF009614	Scotland
Y17672	Y17672	Y17672	YF065541 e	England
A18585>A18584*	A18584*	A18584*	YF008909	England
A18585>A18584*	A18584*	A18584*	YF095245	England
A6849*	A6849*	A6849*	YF071581	England
A11263	A11263	A11263	YF008104	England
A13211	A13211	A13211	YF073121	England
Y168299*	Y168299*	Y168299*	YF015092	Britain
A6808	A6808*	A6808*	YF090795	England
	A6808*	A6808*	YF019277	Scotland
A7000*	A7000*	A7000*	YF014401	Scotland
A16739	A16739	A16739	YF011138	England
Y8342*	Y8342*	Y8342*	YF002165	England
S2268*	S2268*	S2268*	YF010575	England
S2275*	S2275*	S2275*	YF008006	England
PH3121	PH3121	PH3121	YF089948, \	England
A9192	A9192	A9192	YF004869	England
Y11878*	Y11878*	Y11878*	YF005332	Scotland
Y11211	Y11211	Y11211	YF003177, \	England
A10006	A10006	A10006	YF009763	England
A6412	A6412	A6412	YF004094	Scotland
S6273	S6273	S6273	YF015199	Scotland
BY177111	BY177111	BY177111	YF015209	England
Y130259	Y130259	Y130259	YF011439	England
BY190339*	BY190339*	BY190339*	YF090479	Scotland
A6756>Y128984	Y128984	Y128984	YF066260, \	Wales
A6756>A22514	A22514	A22514	YF016488, \	Scotland
A18304*	A18304*	A18304*	YF072111	England

A18304*	A18304*	A18304*	YF093873	England
A6563*	A6563*	A6563*	YF008797	Wales
A6562	A6562	A6562	YF067010, \	England
A16956	A16956	A16956	YF011578 el	England
Y187003*	Y187003*	Y187003*	YF077975	Scotland
BY45886	BY45886	BY45886	YF063267	England
Y198553	Y198553	Y198553	HG00252	Britain
FGC18051*	FGC18051*	FGC18051*	YF088662	England
FGC18051*	FGC18051*	FGC18051*	YF008471	England
Y103879*	Y103879*	Y103879*	YF101488	England
Y35883	Y35883	Y35883	YF002302 el	England
BY170069	BY170069	BY170069	YF080320	England
A21841	A21841	A21841	YF077716, \	England
Y91452*	Y91452*	Y91452*	YF083074	Britain
BY34647	BY34647	BY34647	YF016255, \	England
FT6699	FT6699	FT6699	UKDD3C78	Britain
A16895	A16895	A16895	YF076466 el	England
FGC35283*	FGC35283*	FGC35283*	YF017301	England
FTA2647*	FTA2647*	FTA2647*	YF089613	Scotland
FTA2647*	FTA2647*	FTA2647*	UK5C0AD5	Britain
BY98403	BY98403	BY98403	YF016275	England
FT4816*	FT4816*	FT4816*	YF019023	England
FT157478	FT157478	FT157478	YF083217	Wales
A18286*	A18286*	A18286*	YF017128	Britain
A15022	A15022	A15022	YF016695	England
FT19394*	FT19394*	FT19394*	YF088369	England
Y163644	Y163644	Y163644	YF080163, \	Scotland
A9274*	A9274*	A9274*	YF011914	England
A9274*	A9274*	A9274*	YF004711	England
Y22033	Y22033	Y22033	YF006319 el	Scotland
Y15584*	Y15584*	Y15584*	YF010466	Wales
FGC23810	FGC23810	FGC23810	YF005128 el	England
BY40613*	BY40613*	BY40613*	YF079264	Scotland
BY40613*	BY40613*	BY40613*	YF071130	Scotland
BY40613*	BY40613*	BY40613*	YF066963	Scotland
BY40613>BY68320	BY68320	BY68320	YF086771, \	Scotland
A6214*	A6214*	A6214*	YF001970	England
PH902*	PH902*	PH902*	YF002976	England
Y186026	Y186026	Y186026	YF084798, \	England
FT169573*	FT169573*	FT169573*	YF067023	England
FT169573*	FT169573*	FT169573*	UK2B4EC7	Britain
Y187808	Y187808	Y187808	YF074291	England
FT46038*	FT46038*	FT46038*	YF094947	England
FT46038*	FT46038*	FT46038*	UK6C54D7	Britain

Y3155*	Y3155*	Y3155*	HG00159	Britain
Y22018*	Y22018*	Y22018*	YF014144	England
Y60814	Y60814	Y60814	YF079088, \	England
L803	L803	L803	YF001507 e\	Scotland
Y31033*	Y31033*	Y31033*	YF014850	England
FT190500*	FT190500*	FT190500*	YF071786	England
Y16175*	Y16175*	Y16175*	YF003750	Scotland
Y16175*	Y16175*	Y16175*	HG00101	Britain
Y11312*	Y11312*	Y11312*	YF012755	England
Y11312*	Y11312*	Y11312*	YF010478	England
Y11026*	Y11026*	Y11026*	YF011378	Scotland
Y11026*	Y11026*	Y11026*	YF002609	Scotland
Y13938	Y13938	Y13938	YF073182, \	England
JN08>Y30016	Y30016	Y30016	YF010705, \	England
FGC65549*	FGC65549*	FGC65549*	YF065873	England
FGC65549*	FGC65549*	FGC65549*	UKAA8E38	Britain
A1373*	A1373*	A1373*	YF083177	Britain
A1609>A1612	A1612*	A1612*	YF007054	Scotland
	A1612*	A1612*	YF064485, \	Scotland
Y38453*	Y38453*	Y38453*	YF019059	England
Y38453*	Y38453*	Y38453*	YF002047	Britain
Y7279*	Y7279*	Y7279*	YF013327	England
Y32666	Y32666	Y32666	YF093404, \	Scotland
Y48695*	Y48695*	Y48695*	YF016260	Wales
Y48695*	Y48695*	Y48695*	YF003206	Scotland
Y48695>A5554	A5554	A5554	YF016258	isle of Man
FT10830	FT10830	FT10830	YF018944	England
Y6885*	Y6885*	Y6885*	YF009597	England
Y6902	Y6902	Y6902	YF008745 e\	England
YP1084*	YP1084*	YP1084*	YF015966	Scotland
A16572*	A16572*	A16572*	YF063909	England
Y189956	Y189956	Y189956	YF079159, \	Scotland
Y214209	Y214209	Y214209	YF076447	England
Y3647*	Y3647*	Y3647*	YF010253	Britain
A14094	A14094	A14094	YF011572, \	England
L234*	L234*	L234*	YF002242	England
A1655>A1653	A1653	A1653	YF011776, \	England
Y136323	Y136323	Y136323	YF019279 e\	England
A13242	A13242	A13242	YF093877, \	Scotland
BY49955	BY49955	BY49955	YF093189	England
A15598*	A15598*	A15598*	YF010192	England
A1550	A1550	A1550	YF071931	Britain
Y2963	Y2963	Y2963	YF095476 e\	England
A14269	A14269	A14269	YF018763	England

A19588	A19588	A19588	YF016576	England
A10207	A10207	A10207	YF014605	England
A8641	A8641	A8641	YF093888,	Scotland
S2202*	S2202*	S2202*	YF066242	England
Y3148*	Y3148*	Y3148*	YF012134	England
Y3147*	Y3147*	Y3147*	YF001494	England
A1875*	A1875*	A1875*	HG00234	Britain
A1875>A7126	A7126	A7126	YF012783,	England
A1930>A1968	A1968	A1968	YF065782,	Scotland
BY31701	BY31701	BY31701	UK9F08CE	Britain
Y33691	Y33691	Y33691	YF066605	England
A11317	A11317	A11317	YF071661	England
A12708*	A12708*	A12708*	YF083983	England
FGC60263	FGC60263	FGC60263	YF012497,	England
A21901*	A21901*	A21901*	YF015733	England
FT354407*	FT354407*	FT354407*	YF076170	England
Y185625	Y185625	Y185625	YF071758	Wales
A18483*	A18483*	A18483*	YF097866	England
A4638	A4638	A4638	YF076867,	England
A20451*	A20451*	A20451*	YF013975	Scotland
A20451>A20831	A20831	A20831	YF014093,	Scotland
A20451>Y131422	Y131422	Y131422	YF011814,	Scotland
Y4015*	Y4015*	Y4015*	YF008498	England
Y4015*	Y4015*	Y4015*	YF006984	England
A1845	A1845	A1845	YF002486	Britain
A1627*	A1627*	A1627*	YF006995	England
A1626	A1626	A1626	YF002303	Scotland
BY50995	BY50995	BY50995	YF093630	England
A8596	A8596	A8596	YF102178,	England
Y145642>FT68294	FT68294	FT68294	YF071438,	England
Y145642>FT111200	FT111200	FT111200	YF071507,	England
A1790*	A1790*	A1790*	YF003784	England
FT11520	FT11520	FT11520	YF005181,	Britain
A376	A376>S2000	S2000	YF002000,	Scotland
	A376>A263>Y7142	Y7142	YF002219	Scotland
S6656	S6656	S6656	YF001871	Wales
Z26403*	Z26403*	Z26403*	YF008266	England
Y17390*	Y17390*	Y17390*	YF003460	England
	PH3133	PH3133	YF063133	England
BY37467*	BY37467*	BY37467*	YF063547	England
BY37467*	BY37467*	BY37467*	YF016767	England
Y14718*	Y14718*	Y14718*	YF009487	England
Y19659*	Y19659*	Y19659*	YF005163	England
Y19659*	Y19659*	Y19659*	YF003408	England

Y44831*	Y44831*	Y44831*	YF084224	England
BY174945*	BY174945*	BY174945*	YF019246	England
Y162893*	Y162893*	Y162893*	YF016534	England
Y162893*	Y162893*	Y162893*	YF016508	England
Y25699	Y25699	Y25699	YF072915	England
Y23722*	Y23722*	Y23722*	YF081288	England
Y23722*	Y23722*	Y23722*	YF009511	Wales
Y23412*	Y23412*	Y23412*	YF006723	Scotland
Y60821	Y60821	Y60821	YF006365	England
Y95251	Y95251	Y95251	YF009279	England
BY205153*	BY205153*	BY205153*	YF065920	England
BY205153*	BY205153*	BY205153*	YF016843	England
Y4386*	Y4386*	Y4386*	YF079847	England
Y55233*	Y55233*	Y55233*	YF103050	Britain
Y55233*	Y55233*	Y55233*	YF001715	England
A12373*	A12373*	A12373*	YF080187	Scotland
A12373*	A12373*	A12373*	YF006337	England
BY64875*	BY64875*	BY64875*	YF087405	England
BY64875*	BY64875*	BY64875*	YF063852	Scotland
Y90362*	Y90362*	Y90362*	YF008446	England
Y127057	Y127057	Y127057	UKA2FF3	Britain
BY68371*	BY68371*	BY68371*	YF066518	Scotland
BY68371*	BY68371*	BY68371*	YF017165	Scotland
BY68371>FT238960	FT238960	FT238960	YF100884, \	Scotland
Y21980*	Y21980*	Y21980*	YF006088	Scotland
A13906	A13906	A13906	YF005528	Scotland
BY63113*	BY63113*	BY63113*	YF089395	England
A14892*	A14892*	A14892*	YF008136	England
FT250118	FT250118	FT250118	YF009083	England
Y36040*	Y36040*	Y36040*	YF012792	Scotland
Y36040*	Y36040*	Y36040*	YF010303	Britain
Y36040*	Y36040*	Y36040*	YF005023	Britain
Y138986	Y138986	Y138986	YF072275, \	Scotland
Y96354	Y96354	Y96354	YF066019 e	Scotland
Y106756>BY124440	BY124440	BY124440	YF072091, \	Scotland
Y106756>FT8747	FT8747	FT8747	YF066391	Scotland
Y106756>Y102352	Y102352*	Y102352*	YF019011	Scotland
	Y102352>Y215389	Y215389	YF077361	Scotland
Y4252*	Y4252*	Y4252*	YF017197	England
Y4252*	Y4252*	Y4252*	YF014054	England
Y4252*	Y4252*	Y4252*	YF011929	England
Y4252*	Y4252*	Y4252*	YF008624	Britain
Y142672*	Y142672*	Y142672*	YF013000	England
Y32652*	Y32652*	Y32652*	YF006255	Britain

Y98295	Y98295	Y98295	YF009314	England
A19486*	A19486*	A19486*	YF017286	England
BY149840*	BY149840*	BY149840*	YF014092	England
FT87019	FT87019	FT87019	YF064396	Britain
FTA56202	FTA56202	FTA56202	YF089382, \	England
Y33767	Y33767	Y33767	YF087349 e	England
FGC56815*	FGC56815*	FGC56815*	YF013844	England
A7111*	A7111*	A7111*	YF001826	England
Y84928*	Y84928*	Y84928*	YF013496	England
Y84928>FT134029	FT134029	FT134029	YF078795	England
Y84928>A23319	A23319	A23319	YF016287 e	England
Y167371	Y167371	Y167371	YF018797	Scotland
Y12072*	Y12072*	Y12072*	YF008316	Britain
Y85743	Y85743	Y85743	YF079093, \	Scotland
A11115*	A11115*	A11115*	YF068239	Wales
A11115*	A11115*	A11115*	YF008587	Britain
Y64698*	Y64698*	Y64698*	YF067940	Isle of Man
Y64698*	Y64698*	Y64698*	YF006233	Isle of Man
Y36079*	Y36079*	Y36079*	YF004208	England
A19302	A19302	A19302	YF011625	Scotland
Y12073	Y12073	Y12073	YF074970	Scotland
Y31015*	Y31015*	Y31015*	YF008352	England
Y31015*	Y31015*	Y31015*	YF005071	Scotland
BY1236*	BY1236*	BY1236*	YF001716	England
			<i>I2637</i>	Scotland
			<i>I2932</i>	Scotland
Y51883*	Y51883*	Y51883*	YF003119	England
			<i>I7554</i>	Scotland
			<i>I2978</i>	Scotland
			<i>I2935</i>	Scotland
BY189123	BY189123	BY189123	YF065921	Wales
			<i>I3133</i>	Scotland
BY186215	BY186215	BY186215	YF019677	England
PH401*	PH401*	PH401*	YF076473	England
Y140746*	Y140746*	Y140746*	YF015012	England
Y140746*	Y140746*	Y140746*	YF012869	England
S2624	S2624	S2624	YF012842, \	England
A16983*	A16983*	A16983*	YF010383	Britain
BY175113*	BY175113*	BY175113*	YF081295	England
A16449	A16449	A16449	YF003293	Britain
A17998*	A17998*	A17998*	YF075825	Scotland
A18000*	A18000*	A18000*	YF019039	England
Y48314	Y48314	Y48314	YF090296	England
Y3722*	Y3722*	Y3722*	YF065269	Britain

Y157525	Y157525	Y157525	YF074991	Scotland
Y7847	Y7847	Y7847	YF015559	Scotland
BY37518*	BY37518*	BY37518*	YF013100	Scotland
BY37518*	BY37518*	BY37518*	YF006135	England
Y143387	Y143387	Y143387	YF013064, \	Scotland
FGC14453*	FGC14453*	FGC14453*	YF079079	England
Y39012*	Y39012*	Y39012*	YF017146	Scotland
Y92811	Y92811	Y92811	YF008226	England
Y21537*	Y21537*	Y21537*	YF005055	Scotland
Y45825*	Y45825*	Y45825*	YF002856	England
FGC20473*	FGC20473*	FGC20473*	YF010341	England
FGC20473*	FGC20473*	FGC20473*	YF002847	Britain
BY31905*	BY31905*	BY31905*	YF087540	Scotland
			<i>Cheddar</i>	England
Y45198	Y45198	Y45198	YF079171	England
S19763*	S19763*	S19763*	YF072912	England
S19763*	S19763*	S19763*	YF014894	England
Z7265*	Z7265*	Z7265*	YF089699	England
A522	A522	A522	YF016295	England
FT140675	FT140675	FT140675	YF073798	Scotland
Y88850	Y88850	Y88850	YF066298	England
Y86214*	Y86214*	Y86214*	YF015488	England
Y86214*	Y86214*	Y86214*	YF011795	England
Y89787*	Y89787*	Y89787*	YF063845	England
Y89787*	Y89787*	Y89787*	YF010830	Wales
Y229550*	Y229550*	Y229550*	YF080358	England
Y20293*	Y20293*	Y20293*	YF063920	Scotland
Y20293*	Y20293*	Y20293*	YF004800	Scotland
Y97670*	Y97670*	Y97670*	YF014661	England
Y105542	Y105542	Y105542	YF011127	England
Y18921*	Y18921*	Y18921*	YF004516	England
Y30539	Y30539	Y30539	YF008015	Scotland
Y59902	Y59902	Y59902	YF003048	England
PH1237*	PH1237*	PH1237*	YF088202	Scotland
PH2591*	PH2591*	PH2591*	YF102701	England
Y31038*	Y31038*	Y31038*	YF010313	England
Y31038*	Y31038*	Y31038*	YF008696	England
FT52991	FT52991	FT52991	YF073403, \	Wales
Y42503	Y42503	Y42503	YF002027	England
Y38683	Y38683	Y38683	YF012914, \	England
Y182235*	Y182235*	Y182235*	YF071437	England
SK1251*	SK1251*	SK1251*	YF088553	England
L1227	L1227	L1227	YF066516	England
Y7241*	Y7241*	Y7241*	YF001852	England

Y143199*	Y143199*	Y143199*	UK324659	Britain
Y4900	Y4900	Y4900	YF001772	Britain
S16056	S16056	S16056	YF067996, \	England
Y10648	Y10648	Y10648	YF002618	England
Y15029	Y15029	Y15029	YF068594, \	Wales
Y212022	Y212022	Y212022	YF015293	Wales
BY60966	BY60966	BY60966	YF019250	England
Y13321*	Y13321*	Y13321*	YF002017	England
Y146149	Y146149	Y146149	YF067202	England
Y189979	Y189979	Y189979	YF071171	Scotland
Y151397*	Y151397*	Y151397*	YF067703	Scotland
Y85844	Y85844	Y85844	YF011809	England
Y4714	Y4714	Y4714	YF066720	Scotland
			<i>I2691</i>	Scotland
			<i>NE2m</i>	England
			<i>SB381B</i>	England
			<i>I3134</i>	Scotland
			<i>I2660</i>	Scotland
			<i>I3135</i>	Scotland
			<i>SE5m</i>	England
Z31168*	Z31168*	Z31168*	YF064478	England
			VK173	England
			VK201	Scotland
Y46816	Y46816	Y46816	YF016618, \	England
Y91209	Y91209	Y91209	YF009947	Britain
FT30350*	FT30350*	FT30350*	YF075911	England
Y20863	Y20863	Y20863	YF095289, \	Scotland
FGC20063*	FGC20063*	FGC20063*	YF011655	England
YP2572*	YP2572*	YP2572*	YF089370	Wales
YP2572*	YP2572*	YP2572*	YF086540	England
BY31467	BY31467>Y86482	Y86482	YF079215, \	England
FGC26616*	FGC26616*	FGC26616*	YF002653	Britain
BY110655	BY110655	BY110655	YF016264	Scotland
BY3805*	BY3805*	BY3805*	YF068113	England
Y7190	Y7190	Y7190	YF002199, \	Scotland
Y36593*	Y36593*	Y36593*	YF064911	Scotland
Y36593*	Y36593*	Y36593*	YF010225	Scotland
Y36593*	Y36593*	Y36593*	YF003568	Scotland
Y159063	Y159063	Y159063	YF015594	England
Y12714*	Y12714*	Y12714*	YF009058	Scotland
Y12339	Y12339	Y12339	YF001775	Scotland
Y139612*	Y139612*	Y139612*	YF002374	Scotland
Y139609>FT24080	FT24080	FT24080	YF074017, \	Scotland
Y29627*	Y29627*	Y29627*	YF009112	Britain

Y29627>Y30722	Y30722	Y30722	YF093940	Scotland
Y10655	Y10655	Y10655	YF067613, \	Scotland
BY106497	BY106497	BY106497	YF087947	Scotland
FT342728	FT342728	FT342728	YF092737, \	Scotland
Y130813>FT60157	FT60157	FT60157	YF087176, \	Scotland
Y130813>Y132729	Y132729	Y132729	YF082400 ei	Scotland
Y32659	Y32659>Y32661	Y32661	YF072329 ei	Scotland
Y182427	Y182427	Y182427	YF067131, \	Scotland
Y76840	Y76840	Y76840	YF065301	Britain
Y11246	Y11246	Y11246	YF001750	Scotland
BY3819*	BY3819*	BY3819*	YF079660	Scotland
BY3819*	BY3819*	BY3819*	YF009363	Scotland
BY3819>Y20072>BY3821	BY3821	BY3821	YF007500 ei	Scotland
Y11858>BY81373	BY81373	BY81373	YF017167	Scotland
Y11858>Y11858a*	Y11858a*	Y11858a*	YF005072	England
Y11858>Y11858a*	Y11858a*	Y11858a*	YF003924	Scotland
>Y11858a>Y11857>Y17214	Y17214	Y17214	YF004020, \	Scotland
>>Y11857>Y11197>A2229	A2229	A2229	YF012013, \	Scotland
>>Y11857>Y11197>A5860	A5860	A5860	YF012011 ei	Scotland
BY58294	BY58294	BY58294	YF013858	Wales
Y20885*	Y20885*	Y20885*	YF065025	England
Y8945	Y8945>Y9382	Y9382	YF002522, \	England
Y155150	Y155150	Y155150	YF064893 ei	Scotland
Y5359*	Y5359*	Y5359*	YF071195	England
Y5369	Y5369	Y5369	YF007024 ei	England
BY57564*	BY57564*	BY57564*	YF016376	England
			/2650	Scotland
L1290*	L1290*	L1290*	YF064389	England
Y64175	Y64175	Y64175	YF062752	Scotland
Y8830>Y8831	Y8831	Y8831	YF001979, \	Scotland
Y4946*	Y4946*	Y4946*	YF080793	England
Y131277	Y131277	Y131277	YF066204, \	England
Y33719	Y33719	Y33719	YF015447 ei	England
A11214	A11214	A11214	YF011973 ei	England
Y31091*	Y31091*	Y31091*	YF001853	Scotland
Y11763	Y11763	Y11763	YF002884, \	England
CTS10148*	CTS10148*	CTS10148*	YF083111	England
CTS10148*	CTS10148*	CTS10148*	YF014204	England
P95*	P95*	P95*	YF002979	Britain
BY157642*	BY157642*	BY157642*	YF077812	England
Y13022	Y13022	Y13022	YF003572, \	Scotland
S6480	S6480*	S6480*	YF008549	Scotland
Y7155*	Y7155*	Y7155*	YF068535	England
Y7426	Y7426	Y7426	YF072104, \	England

Y31897	Y31897	Y31897	YF009319	Scotland
Y36056	Y36056	Y36056	YF014494, \	Scotland
Y84117*	Y84117*	Y84117*	YF019160	England
FT62879	FT62879	FT62879	YF064004	England
Y47901*	Y47901*	Y47901*	YF093071	England
Y47901>FT358554	FT358554	FT358554	YF084107, \	England
			VK150	England
Y17502*	Y17502*	Y17502*	YF063199	England
Y22005	Y22005	Y22005	YF013043, \	England
Y136469	Y136469	Y136469	YF064432	England
Y102504	Y102504	Y102504	YF064572	England
Y140191*	Y140191*	Y140191*	YF012791	England
Y13037*	Y13037*	Y13037*	YF001779	England
Y14695*	Y14695*	Y14695*	UKE80D96	Britain
BY152608	BY152608	BY152608	YF013964	England
Y90929	Y90929	Y90929	YF008986	England
Y7263>Y7271	Y7271	Y7271	YF012476	England
BY161242	BY161242	BY161242	YF084024	England
FGC20000	FGC2000>Y151190*	Y151190*	YF014598	Wales
	FGC2000>Y151190*	Y151190*	YF013822	England
BY205692	BY205692	BY205692	YF076656	Scotland
Y11231*	Y11231*	Y11231*	YF002785	England
Y11231*	Y11231*	Y11231*	YF001509	England
Y142819	Y142819*	Y142819*	YF015374	Scotland
	Y142819>Y177642	Y177642	YF065762, \	Scotland
Y49919*	Y49919*	Y49919*	YF016996	England
FGC55836*	FGC55836*	FGC55836*	YF001885	Scotland
BY200547*	BY200547*	BY200547*	YF064601	Scotland
BY200547*	BY200547*	BY200547*	UKEAF940	Scotland
Y132599	Y132599	Y132599	YF063659 e)	England
BY3768	BY3768	BY3768	YF002336	England
BY3778	BY3778	BY3778	YF014162, \	England
FT86361*	FT86361*	FT86361*	YF071515	Scotland
Y18111*	Y18111*	Y18111*	YF102977	England
Y18111*	Y18111*	Y18111*	YF093350	England
Y29658*	Y29658*	Y29658*	YF017155	England
Y29659	Y29659	Y29659	YF068517	England
Y16460	Y16460	Y16460	YF003907	England
Y7272*	Y7272*	Y7272*	YF065724	Scotland
Y7272>BY125170	BY125170	BY125170	YF002262	Scotland
BY66854	BY66854	BY66854	YF014169	England
Y36632	Y36632	Y36632	YF002091	Scotland
Y7671	Y7671	Y7671	YF013106	England
Y29608*	Y29608*	Y29608*	YF006235	England

Y29608>Y89148	Y89148	Y89148	YF064988, \	England
S8298*	S8298*	S8298*	YF018644	England
Y111149	Y111149	Y111149	YF013753, \	Scotland
Y255684	Y255684	Y255684	YF088774	England
CTS3428	CTS3428	CTS3428	YF076579,	England
Y66799	Y66799	Y66799	YF067210	England
Y7682	Y7682	Y7682	YF002359	England
Y5729>Y42786	Y42786	Y42786	YF067683	England
Y5729>Y23539	Y23539	Y23539	YF071495	England
Y48949	Y48949	Y48949	YF003848	England
Y73555*	Y73555*	Y73555*	YF006756	England
FGC80188*	FGC80188*	FGC80188*	YF092510	England
Y146893*	Y146893*	Y146893*	YF013486	England
FT46689*	FT46689*	FT46689*	YF078518	England
Y154827	Y154827	Y154827	YF066852, \	England
Z18183	Z18183	Z18183	YF065616	Scotland
FT264818*	FT264818*	FT264818*	YF077501	Scotland
Y162860	Y162860	Y162860	YF066079, \	Wales
Y64235	Y64235	Y64235	YF066787	England
FT68397*	FT68397*	FT68397*	YF068395	Scotland
Y101509*	Y101509*	Y101509*	YF009093	England
Y167232*	Y167232*	Y167232*	YF018761	Scotland
Z615*	Z615*	Z615*	YF011610	England
Z4133*	Z4133*	Z4133*	YF066643	Scotland
Y189978	Y189978	Y189978	YF090045, \	Wales
PH1602*	PH1602*	PH1602*	YF012556	England
Z638*	Z638*	Z638*	YF019450	England
Y182183*	Y182183*	Y182183*	YF066589	England
BY23734*	BY23734*	BY23734*	HG00160	Britain
S18238	S18238*	S18238*	YF011100	Scotland
FT33373*	FT33373*	FT33373*	YF070672	England
BY87718	BY87718	BY87718	YF063334	England
FT117099*	FT117099*	FT117099*	YF066993	England
Y168581>A24090*	A24090*	A24090*	YF019835	England
>A24090>FT395079	FT395079	FT395079	YF093566	England
Y168581>FT186603	FT186603	FT186603	YF071519, \	England
Y129853	Y129853	Y129853	YF065441	England
FT131786*	FT131786*	FT131786*	YF075910	England
CTS11760*	CTS11760*	CTS11760*	YF066791	England
Y155803*	Y155803*	Y155803*	YF015023	England
Y16536	Y16536	Y16536	YF011868, \	England
FT35302*	FT35302*	FT35302*	YF080972	Scotland
Y36202*	Y36202*	Y36202*	YF010221	England
FT99882	FT99882	FT99882	YF067031	England

Y136384	Y136384	Y136384	YF067183, \	England
Y87605*	Y87605*	Y87605*	YF011691	England
Y32998	Y32998	Y32998	YF085548, \	England
Y166616*	Y166616*	Y166616	YF017311	England
Y42491	Y42491	Y42491	YF002153, \	Scotland
Y22057>Y22315	Y22315	Y22315	YF005801, \	England
Y155314	Y155314	Y155314	ERS144442,	Britain
FGC16079*	FGC16079*	FGC16079*	YF002684	England
	FT69307*	FT69307*	YF094747	England
Y95397	Y95397	Y95397	YF010994	England
Z39057*	Z39057*	Z39057*	YF086716	England
Y64860	Y64860	Y64860	YF011735, \	England
Y27235*	Y27235*	Y27235*	YF064809	England
FT375689	FT375689	FT375689	YF077702	England
Y130918>A19174	A19174	A19174	YF011744, \	England
BY136275*	BY136275*	BY136275*	YF074912	England
FGC22532	FGC22532	FGC22532	YF062953	Scotland
BY195335*	BY195335*	BY195335*	YF074944	Scotland
Z41157	Z41157	Z41157	YF010652	Scotland
BY66226*	BY66226*	BY66226*	YF015093	Scotland
		FGC43538*	YF016584	Scotland
Y16179	Y16179	Y16179	YF093800	Scotland
FT72594*	FT72594*	FT72594*	YF063751	England
Y26650*	Y26650*	Y26650*	YF068354	England
BY127048*	BY127048*	BY127048*	YF063897	England
Z2177*	Z2177*	Z2177*	YF081624	England
Y64003	Y64003	Y64003	YF100262	England
	BY194993*	BY194993*	YF004730	England
Y96522*	Y96522*	Y96522*	YF085222	England
Y63950*	Y63950*	Y63950*	YF006586	England
FGC51041*	FGC51041*	FGC51041*	YF006262	England
Y61682	Y61682	Y61682	YF007448	England
BY60850	BY60850	BY60850	YF013207	England
Z19971*	Z19971*	Z19971*	YF006168	Scotland
FTA74003	FTA74003	FTA74003	YF092432, \	England
Y6409	Y6409	Y6409	YF001837	Britain
FGC30201*	FGC30201*	FGC30201*	ERS144442,	Britain
Y101945*	Y101945*	Y101945*	YF080135	England
Y5003*	Y5003*	Y5003*	YF008527	England
BY29133*	BY29133*	BY29133*	YF008500	Scotland
BY29133>Y24500	Y24500	Y24500	YF013340, \	England
Y17113*	Y17113*	Y17113*	YF069499	England
FGC14538	FGC14538	FGC14538	YF001820	Scotland
Y5611*	Y5611*	Y5611*	YF002265	England

Y4706*	Y4706*	Y4706*	YF085855	England
A2358*	A2358*	A2358*	YF005224	England
FTA33333	FTA33333	FTA33333	YF083046	England
L725	L725	L725	YF008971	England
Y45524*	Y45524*	Y45524*	UKFCACC7	Britain
L329	L329	L329	YF001493	England
BZ1487	BZ1487	BZ1487	YF011158	Britain
Y4929	Y4929	Y4929	YF009243	England
BY15842	BY15842	BY15842	YF092806, \	England
BZ50006	BZ50006	BZ50006	YF064561, \	England
Y12445*	Y12445*	Y12445*	YF009533	England
BZ50007	BZ50007	BZ50007	YF002971	England
Y15622	Y15622	Y15622	YF003570	England
L807	L807	L807	YF003479, \	England
Y38488*	Y38488*	Y38488*	YF002241	Scotland
A14048*	A14048*	A14048*	YF088978	England
BY66620	BY66620	BY66620	YF082956	England
Y29863*	Y29863*	Y29863*	YF008140	England
Y29863*	Y29863*	Y29863*	YF004969	England
	Y54903*	Y54903*	YF073773	England
YP1109*	YP1109*	YP1109*	YF003211	England
'P4138>CTS11317>FT8084	FT80840	FT80840	YF078198, \	England
YP4138>YP6500*	YP6500*	YP6500*	YF086371	Scotland
YP4138>YP6500*	YP6500*	YP6500*	YF062980	Scotland
YP4138>YP6500>BY19796	BY197969	BY197969	YF068110	Scotland
YP4138>YP6500>Y168233	Y168233	Y168233	YF063054	Scotland
YP1051	YP1051	YP1051	YF012594	Scotland
FGC9988>FGC9989	FGC9989	FGC9989	YF002826, \	England
FGC9988>Y95533	Y95533	Y95533	YF083815 e	England
YP550*	YP550*	YP550*	UK689863	Britain
YP943*	YP943*	YP943*	YF008889	England
YP360	YP360>YP362	YP362	YF005668	England
FGC57195	FGC57195	FGC57195	YF101918, \	Scotland
YP4444*	YP4444*	YP4444*	YF009214	England
YP5455	YP5455	YP5455	YF017039, \	England
BY30531	BY30531	BY30531	YF016773, \	England
Y81602*	Y81602*	Y81602*	YF016607	England
Y81602>Y85196	Y85196	Y85196	YF016715, \	England
YP1015*	YP1015*	YP1015*	YF001616	England
YP4519	YP4519	YP4519	YF002147	England
Y34265	Y34265	Y34265	YF009936, \	England
Y38820	Y38820	Y38820	YF064112 e	England
YP4535	YP4535	YP4535	YF004835 e	England
YP4515*	YP4515*	YP4515*	YF004291	England

Y61586	Y61586	Y61586	YF007151	England
YP1214*	YP1214*	YP1214*	YF067301	England
YP1214*	YP1214*	YP1214*	YF017294	England
FT219241	FT219241	FT219241	YF081766	England
YP6501*	YP6501*	YP6501*	YF089124	England
BY62687	BY62687	BY62687	YF016809	England
BY105633	BY105633	BY105633	YF081410, \	England
YP5578*	YP5578*	YP5578*	YF007064	England
YP5578>Y28816	Y28816	Y28816	YF009462 e1	England
FT92252*	FT92252*	FT92252*	YF002655	England
YP1269*	YP1269*	YP1269*	YF003225	England
BY87922*	BY87922*	BY87922*	YF003839	England
YP4768*	YP4768*	YP4768*	YF008180	England
BY32021	BY32021	BY32021	YF078967, \	Scotland
	YP5480*	YP5480*	YF095612	England
YP1359	YP1359	YP1359	YF074855, \	England
BY30764*	BY30764*	BY30764*	YF005079	England
YP6291	YP6291	YP6291	YF064373, \	Scotland
Y40719*	Y40719*	Y40719*	YF002377	Britain
Y128147*	Y128147*	Y128147*	YF011648	Wales
YP4648	YP4648	YP4648	YF001875	Britain
YP445*	YP445*	YP445*	YF001577	England
FGC2633	FGC2633	FGC2633	YF101384	Scotland
Y10805*	Y10805*	Y10805*	YF005606	Scotland
YP971*	YP971*	YP971*	YF001997	Scotland
	BY176489	BY176489	YF073204	England
YP4660*	YP4660*	YP4660*	YF004858	England
YP6323	YP6323	YP6323	YF013180	England
CTS1055	CTS1055	CTS1055	HG00151	Britain
YP4777	YP4777	YP4777	YF004952	England
FGC2573	FGC2573	FGC2573	YF003765, \	England
Y40592*	Y40592*	Y40592*	YF001930	England
	Y189241*	Y189241*	UK58B97E	Britain
BY29712	BY29712	BY29712	YF082868	England
			VK258	England
Y29963*	Y29963*	Y29963*	YF005174	England
Y142307*	Y142307*	Y142307*	YF015947	England
Y142307*	Y142307*	Y142307*	YF014316	England
Y142307*	Y142307*	Y142307*	YF084613	England
YP5857*	YP5857*	YP5857*	YF002370	Scotland
CTS870*	CTS870*	CTS870*	YF002817	Scotland
CTS870*	CTS870*	CTS870*	HG00109	Britain
S7735	S7735	S7735	YF068203, \	Scotland
YP398*	YP398*	YP398*	YF079260	England

Y66214*	Y66214*	Y66214*	YF005167	England
			VK145	England
S3238	S3238	S3238	HG00114	Britain
S5168	S5168	S5168	HG00113	Britain
BY32096	BY32096	BY32096	YF072482	England
Y56412	Y56412	Y56412	YF004254	Scotland
BY183076	3Y183076>BY182717	BY182717	YF015626,	Isle of Man
	BY183076>BY205816	BY205816	YF016940	Isle of Man
BY30721>FGC12770*	FGC12770*	FGC12770*	YF065142	Isle of Man
BY30721>FGC12770*	FGC12770*	FGC12770*	YF015274	Isle of Man
BY30721>BY30728	BY30728>BY154043	BY154043	YF018952,	Isle of Man
	BY30728>BY30722	BY30722	YF019735,	Isle of Man
YP1167*	YP1167*	YP1167*	YF068199	Scotland
YP4963*	YP4963*	YP4963*	YF005681	England
YP5466	YP5466	YP5466	YF006341,	Scotland
YP5688	YP5688	YP5688	YF065892	Britain
YP4874*	YP4874*	YP4874*	YF008774	Scotland
YP4874>BY13765	BY13765	BY13765	YF008156	Scotland
YP4874>YP4883	YP4883	YP4883	YF064571,	Scotland
			VK172	England
Y81949*	Y81949*	Y81949*	YF066345	England
YP5598*	YP5598*	YP5598*	YF008296	England
YP4253*	YP4253*	YP4253*	YF002932	England
YP4253>YP4491	YP4491	YP4491	YF010875	England
BY30796	BY30796	BY30796	YF011597	England
FT396067	FT396067	FT396067	YF095375,	England
Y157332*	Y157332*	Y157332*	YF065331	England
FT144367	FT144367	FT144367	YF068294,	Scotland
BY15853	BY15853	BY15853	YF072083,	Scotland
YP1415>YP1413	YP1413	YP1413	YF067982,	England
YP983	YP983	YP983	YF073459	Scotland
CTS4179*	CTS4179*	CTS4179*	YF076797	England
BY30621	BY30621	BY30621	YF002036	Scotland
BY27594*	BY27594*	BY27594*	YF005948	England
S6821*	S6821*	S6821*	UK421E54	Britain
BY30775*	BY30775*	BY30775*	YF012910	Scotland
BY30775*	BY30775*	BY30775*	YF008461	Scotland
Y39084	Y39084	Y39084	YF002475	Scotland
YP1392*	YP1392*	YP1392*	YF003983	Britain
YP1392>YP4806*	YP4806*	YP4806*	YF086233	England
YP1392>YP4806>Y321181	Y321181	Y321181	YF101062	England
YP1392>YP4806>BY32009	BY32009	BY32009	YF101248	England
			VK205	Scotland
S6796*	S6796*	S6796*	YF069449	England

S6796*	S6796*	S6796*	YF013184	England
YP275*	YP275*	YP275*	YF081791	England
FT360504*	FT360504*	FT360504*	YF086290	England
FT360504*	FT360504*	FT360504*	YF085464	England
YP4489	YP4489	YP4489	YF008027	England
YP330*	YP330*	YP330*	YF003000	Scotland
YP4871	YP4871	YP4871	YF005068, \	Scotland
YP326*	YP326*	YP326*	YF064192	Scotland
YP326>YP6397*	YP6397*	YP6397*	YF011738	Scotland
YP326>YP6397>K5	K5>CLD12	CLD12	YF004101, \	Scotland
YP326>YP5543*	YP5543*	YP5543*	YF006603, \	Scotland
YP326>YP5543>FT361597*	FT361597*	FT361597*	YF065438	Scotland
>>FT361597>FT51444	FT51444	FT51444	YF081749 e\	Scotland
YP4899	YP4899	YP4899	YF005490, \	Scotland
BY27150>BY27148	BY27148	BY27148	YF010847	Scotland
BY27150>FT104548*	FT104548*	FT104548*	YF086885	Scotland
BY27150>FT104548*	FT104548*	FT104548*	YF081470	Scotland
YP4957>YP5177	YP5177	YP5177	YF010623	Scotland
Y144650	Y144650	Y144650	YF013179	Scotland
YP4726	YP4726*	YP4726*	YF004712	Scotland
	YP4726>FT201861	FT201861	YF081269, \	Scotland
	YP4726>YP4961	YP4961	YF088400 e\	Scotland
			VK256	England
Y38533	Y38533	Y38533	YF095994, \	England
Y7777*	Y7777*	Y7777*	YF007902	Britain
Y82825*	Y82825*	Y82825*	YF009752	Scotland
BY100846	BY100846	BY100846	YF079815	England
BY17663*	BY17663*	BY17663*	YF073445	England
BY3719*	BY3719*	BY3719*	YF009887	England
		Y100501*	YF014450	England
Y82789*	Y82789*	Y82789*	YF088045	England
BY187800	Y211400	Y211400	YF086102	Scotland
PH2309*	PH2309*	PH2309*	UKB367C8	Britain
Y82698*	Y82698*	Y82698*	YF092823	England
Y82698*	Y82698*	Y82698*	YF008465	England
Y29085>Y76055	Y76055	Y76055	YF015187	England
Y19137>Y19423	Y19423	Y19423	YF065786	England
Y18959*	Y18959*	Y18959*	UK1E5B60	Britain
Y34195	Y34195	Y34195	YF005749	Scotland
Y19469*	Y19469*	Y19469*	YF065047	England
Y32826*	Y32826*	Y32826*	YF009300	England
Y32826*	Y32826*	Y32826*	YF009299	England
Y28635	Y28635	Y28635	YF068633 e\	England
FT268183*	FT268183*	FT268183*	YF016980	England

Y110671	Y110671	Y110671	YF010878	Britain
Y40983	Y40983	Y40983	YF068304, \	England
CTS6718*	CTS6718*	CTS6718*	YF072956	Britain
BY12063	BY12063	BY12063	YF009297	England
Y139456	Y139456	Y139456	YF065592, \	England
A8062	A8062	A8062	YF009334 ei	Scotland
FGC37084*	FGC37084*	FGC37084*	YF097456	England
Y87436	Y87436	Y87436	YF017134, \	England
FGC30867	FGC30867	FGC30867	YF004780, \	England
FGC69356*	FGC69356*	FGC69356*	YF093214 ei	England
FGC69356*	FGC69356*	FGC69356*	YF087719	England
S22763*	S22763*	S22763*	YF008685	England
BY148920	BY148920	BY148920	YF071616	England
FGC23887*	FGC23887*	FGC23887*	YF010823	England
Y23037*	Y23037*	Y23037*	YF065111	England
BY38452	BY38452	BY38452	UK4CA868	Britain
A8515*	A8515*	A8515*	YF005599	England
Y125239	Y125239	Y125239	HG00148	Britain
BY11796	BY11796	BY11796	YF009537	England
FT123394*	FT123394*	FT123394*	YF004369	England
Y22442*	Y22442*	Y22442*	YF005873	England
Y23200	Y23200	Y23200	YF009903 ei	Scotland
A10127	A10127	A10127	YF005521	Scotland
BY50728	BY50728	BY50728	YF013865	England
FGC53757	FGC53757	FGC53757	YF008191	England
Y11145*	Y11145*	Y11145*	YF074542	England
BY198412	BY198412	BY198412	YF065406, \	England
FGC21340>FT30022	FT30022	FT30022	YF071982	England
FGC17464*	FGC17464*	FGC17464*	YF012527	England
Y11837	Y11837	Y11837	YF002740 ei	England
			VK168	England
FGC5831*	FGC5831*	FGC5831*	YF012901	Scotland
FGC5831*	FGC5831*	FGC5831*	YF002021	England
ZP147	ZP147	ZP147	YF008126	England
Y45423*	Y45423*	Y45423*	YF065317	Scotland
ZP124	ZP124	ZP124	YF068666	England
BY71612*	BY71612*	BY71612*	YF070654	England
FGC54210	FGC54210	FGC54210	YF015530 ei	England
BY18864*	BY18864*	BY18864*	YF013709	England
Y133217	Y133217	Y133217	YF064836	England
FT124142*	FT124142*	FT124142*	YF095466	Wales
Y38140*	Y38140*	Y38140*	YF086123	England
Y29971*	Y29971*	Y29971*	YF008688	England
Y29971*	Y29971*	Y29971*	YF008187	England

Y29971*	Y29971*	Y29971*	HG00260	Britain
Y19139	Y19139	Y19139	YF004767	Britain
			VK204	Scotland
Y53375*	Y53375*	Y53375*	UK0C72FF	Britain
Y26648	Y26648	Y26648	HGDP00798	Scotland
A11482*	A11482*	A11482*	YF064332, \	England
S5443	S5443	S5443	UKD653EA	Britain
			VK170	Isle of Man
S3201*	S3201*	S3201*	HG00108	Britain
BY20774*	BY20774*	BY20774*	YF093920	England
BY20774*	BY20774*	BY20774*	YF009927	Britain
Y22217	Y22217	Y22217	HG00256	Britain
BY20122*	BY20122*	BY20122*	YF001648	England
BY20548*	BY20548*	BY20548*	YF094867	England
BY20548*	BY20548*	BY20548*	YF010115	England
Y319166*	Y319166*	Y319166*	YF070649	England
BY17919*	BY17919*	BY17919*	YF015479	Scotland
FTA16837	FTA16837	FTA16837	YF094030	England
Y19736*	Y19736*	Y19736*	YF014844	Wales
FGC11672*	FGC11672*	FGC11672*	YF097479	Scotland
FGC11696	FGC11696*	FGC11696*	YF089655	Scotland
	FGC11696>FGC7566:	FGC75661	YF090634	Scotland
	FGC11696>FGC1168:	FGC11685	YF068147 el	Scotland
	FGC11696>A5396	A5396	YF095102 el	Scotland
	FGC11696>FGC14326:	FGC14326*	YF088537	Scotland
	>FGC14326>BY1892:	BY18921	YF073099	Scotland
	>FGC14326>F190	F190	YF090631	Scotland
Y64481*	Y64481*	Y64481*	YF007097	England
BY19407	BY19407*	BY19407*	YF010665	England
	BY19407*	BY19407*	YF006188	England
FGC13343*	FGC13343*	FGC13343*	YF088186	England
S4004*	S4004*	S4004*	YF013938	England
FGC14823*	FGC14823*	FGC14823*	YF101947 el	England
FGC20580	FGC20580	FGC20580	YF097109 el	England
Y92730*	Y92730*	Y92730*	YF070632	England
Y17440*	Y17440*	Y17440*	YF011599	England
A6535	A6535*	A6535*	YF001689	Scotland
	A6535>A10592	A10592	YF004225	Scotland
BY41863*	BY41863*	BY41863*	YF072444	England
FGC8395*	FGC8395*	FGC8395*	YF067719	England
FGC8373*	FGC8373*	FGC8373*	YF013636	Scotland
FGC8373*	FGC8373*	FGC8373*	YF005014, \	England
BY41561	BY41561	BY41561	YF005103, \	England
FGC79874*	FGC79874*	FGC79874*	YF014202	Scotland

A226	A226	A226	YF005233	Scotland
A412*	A412*	A412*	HG00155	Britain
FGC50035*	FGC50035*	FGC50035*	YF007074	Scotland
			VK143	England
Y99068	Y99068	Y99068	YF011161	England
Z27559*	Z27559*	Z27559*	YF016326	England
P89.2	P89.2	P89.2	YF011591	England
FGC13608	FGC13608	FGC13608	YF064051	England
BY20283	BY20283	BY20283	YF067015 e	England
FGC13944	FGC13944	FGC13944	YF087787	England
A14208	A14208>BY41350	BY41350	YF088588, \	Scotland
Z152	Z152	Z152	HG00156	Britain
BY64941	BY64941	BY64941	YF102290 e	England
Y31448	Y31448	Y31448	YF071597, \	England
BY72144	BY72144	BY72144	YF079654, \	England
Y37240	Y37240	Y37240	YF011220, \	England
BY166647	BY166647	BY166647	YF015650	England
Y22180	Y22180	Y22180	YF003879	England
JFS0009*	JFS0009*	JFS0009*	YF015071	England
FGC43819*	FGC43819*	FGC43819*	YF083033	England
BY54956	BY54956	BY54956	YF004093	England
Y23815	Y23815	Y23815	YF006658, \	England
BY2951	BY2951	BY2951	YF011760	England
S4076*	S4076*	S4076*	YF008124	England
FGC37140	FGC37140	FGC37140	YF007537	England
Y14063	Y14063	Y14063	YF002870	England
JFS0169	JFS0169	JFS0169	YF004315	England
FGC12307*	FGC12307*	FGC12307*	UK072667	Britain
Y150877	Y150877	Y150877	YF013922, \	England
BY28765*	BY28765*	BY28765*	YF009490	England
FGC76387	FGC76387	FGC76387	YF084813, \	England
Y28669	Y28669	Y28669	YF082480	England
Y19279*	Y19279*	Y19279*	YF014921	England
BY18067*	BY18067*	BY18067*	YF011189	England
BY18065*	BY18065*	BY18065*	UKE3831E	Britain
Y59719	Y59719	Y59719	YF080568	England
BY12507*	BY12507*	BY12507*	YF014381	England
BY12507*	BY12507*	BY12507*	YF002505	England
A11431*	A11431*	A11431*	YF088823	England
Y31330	Y31330	Y31330	YF066814, \	Scotland
A764	A764	A764	YF011223 e	Scotland
Y23102*	Y23102*	Y23102*	YF013788	England
BY12202	BY12202	BY12202	YF008308	Scotland
Y30779>Y59617	Y59617*	Y59617*	YF071619	Scotland

	Y59617*	Y59617*	YF071425	Scotland
'30779>FGC60976>BY5475	BY54755	BY54755	YF070505, \	Scotland
>FGC60976>FT127451	FT127451	FT127451	YF013047, \	Scotland
>FGC60976>BY109860	BY109860	BY109860	YF017130, \	Scotland
>FGC60976>FGC60992	FGC60992	FGC60992	YF074327	Scotland
FGC6202*	FGC6202*	FGC6202*	YF071074	England
Y23215	Y23215	Y23215	YF015778	England
BY35823	BY35823	BY35823	YF016543	England
Y136085*	Y136085*	Y136085*	HG00265	Britain
Y136072	Y136072	Y136072	YF012439	Wales
PH4931*	PH4931*	PH4931*	UK5E5B15	Britain
CTS1863	CTS1863	CTS1863	YF009889	England
FGC30627*	FGC30627*	FGC30627*	YF013241	England
FGC30627*	FGC30627*	FGC30627*	YF011474	Britain
BY62942	BY62942	BY62942	YF072370, \	Scotland
Y46067	Y46067	Y46067	YF075573, \	Scotland
S18883	S18883	S18883	YF084103	England
FTA24810	FTA24810	FTA24810	YF082775, \	Scotland
Y32817*	Y32817*	Y32817*	YF009044	Scotland
BY35817*	BY35817*	BY35817*	YF068096	Scotland
FTA85935	FTA85935	FTA85935	YF101655	England
PH2129	PH2129	PH2129	YF012086	England
Y23828	Y23828	Y23828	YF002481	Britain
Y6462*	Y6462*	Y6462*	YF004458	England
BY87656	BY87656	BY87656	YF010597	Britain
FGC17310	FGC17310	FGC17310	YF010167	England
S9742*	S9742*	S9742*	YF009973	Scotland
CTS13009*	CTS13009*	CTS13009*	HG00131	Britain
BY16601*	BY16601*	BY16601*	YF066849	England
Y3465*	Y3465*	Y3465*	YF008623	England
FGC52085	FGC52085	FGC52085	YF008049	England
Y101927*	Y101927*	Y101927*	YF071819	England
Y101927*	Y101927*	Y101927*	YF008053	England
Y101927>BY157409	BY157409	BY157409	YF015391, \	England
Y3464*	Y3464*	Y3464*	YF001580	England
A10236*	A10236*	A10236*	UK87BD26	Britain
S22494	S22494	S22494	YF016087	Scotland
BY36004	BY36004	BY36004	YF014246	England
FGC18846*	FGC18846*	FGC18846*	YF002113	England
Y20959	Y20959	Y20959	YF006624 el	Britain
BY20675*	BY20675*	BY20675*	YF011820	England
BY20675*	BY20675*	BY20675*	YF005195	England
FGC19972	FGC19972	FGC19972	YF012145	Britain
PH1822	PH1822	PH1822	YF010788,	Scotland

Y146154	Y146154	Y146154	YF013361, \	Scotland
BY40178	BY40178	BY40178	YF014155	England
YP4158	YP4158	YP4158	YF001933	England
FGC41777	FGC41777	FGC41777	YF011016, \	England
FGC17347	FGC17347	FGC17347	YF007172	England
Y28576*	Y28576*	Y28576*	YF090433	England
Y28576*	Y28576*	Y28576*	YF086241	England
Y3159*	Y3159*	Y3159*	YF084670	England
FTB90596	FTB90596	FTB90596	YF102909 e1	Scotland
BY17979	BY17979	BY17979	YF076024	Scotland
Y130596	Y130596	Y130596	YF011721	Scotland
FT124389	FT124389	FT124389	YF095474	England
Y111707	Y111707	Y111707	YF011150	England
BY70305	BY70305	BY70305	YF066858	England
S20422*	S20422*	S20422*	YF062831	England
FGC5264*	FGC5264*	FGC5264*	YF103287	England
FGC5264*	FGC5264*	FGC5264*	YF014063	England
BY35940	BY35940	BY35940	YF072511	Britain
BY13132*	BY13132*	BY13132*	YF013808	England
Y131075>BY53614	BY53614	BY53614	YF015634, \	England
PF889*	PF889*	PF889*	YF014302	England
Y30304	Y30304	Y30304	YF007781	England
Y19921	Y19921	Y19921	YF008199 e1	England
A10937	A10937	A10937	YF009925, \	Britain
BY14512*	BY14512*	BY14512*	YF012740	Scotland
BY14512*	BY14512*	BY14512*	YF009159	Scotland
BY14512*	BY14512*	BY14512*	UKB5E082	Britain
Y215936	Y215936	Y215936	YF100787, \	England
A20848	A20848	A20848	YF015911 e1	England
A298*	A298*	A298*	YF004537	England
A5898*	A5898*	A5898*	YF066854	England
FGC17230	FGC17230	FGC17230	HG00149	Britain
S10415*	S10415*	S10415*	YF001449	England
Y154249*	Y154249*	Y154249*	YF067392	England
Y154249*	Y154249*	Y154249*	YF014831	Scotland
Y154249*	Y154249*	Y154249*	HG00143	Britain
Y12853*	Y12853*	Y12853*	YF012015	England
Y12853>Y12854	Y12854	Y12854	YF014767 e1	England
FGC12983	FGC12983	FGC12983	YF062601	England
S5246*	S5246*	S5246*	YF017016	Scotland
S5246*	S5246*	S5246*	YF015392	England
S5246>FGC15254	FGC15254	FGC15254	YF018852, \	Scotland
Z343*	Z343*	Z343*	HG00251	Britain
FGC11773*	FGC11773*	FGC11773*	YF001520	England

S6881*	S6881*	S6881*	YF013694	England
Y21526*	Y21526*	Y21526*	YF018725	Britain
FGC76295*	FGC76295*	FGC76295*	YF004862	England
FGC76295*	FGC76295*	FGC76295*	UKBCED7A	Britain
BY41899	BY41899	BY41899	YF087390, \	England
BY16170	BY16170	BY16170	YF016080 ei	England
FT153218	FT153218	FT153218	YF083757	England
FGC57021	FGC57021	FGC57021	YF018758	England
BY105611*	BY105611*	BY105611*	YF067179	England
S3334*	S3334*	S3334*	YF001445	Britain
BY20467	BY20467	BY20467	YF012205	England
Y18211	Y18211	Y18211	YF004351	England
Z30596*	Z30596*	Z30596*	YF064955	Scotland
Z30596*	Z30596*	Z30596*	YF002879	Scotland
S16027*	S16027*	S16027*	YF008093	England
	BY15478	BY15478	YF012177, \	England
BY41521	BY41521	BY41521	YF100978, \	Scotland
Z2247*	Z2247*	Z2247*	YF009039	Britain
FT7240*	FT7240*	FT7240*	HG00157	Britain
S6932	S6932	S6932	YF019616 ei	England
Y11660*	Y11660*	Y11660*	HG01334	Britain
BY18415	BY18415	BY18415	YF065893, \	England
A6291*	A6291*	A6291*	YF063753	Scotland
BY193914*	BY193914*	BY193914*	YF080303	England
FT50453*	FT50453*	FT50453*	YF086358	England
BY19597	BY19597	BY19597	YF065217, \	England
Z39400	Z39400	Z39400	YF007367	England
BY39853*	BY39853*	BY39853*	YF013852	England
BY39853*	BY39853*	BY39853*	HG00138	Britain
Z39898*	Z39898*	Z39898*	UK64379B	Britain
DF88*	DF88*	DF88*	YF002816	Scotland
BY106488	BY106488	BY106488	YF015819 ei	England
S4268*	S4268*	S4268*	UKE8DC4E	Britain
Y11522	Y11522	Y11522>Y13835	YF064959	England
FT26900*	FT26900*	FT26900*	YF073818	England
Z29039*	Z29039*	Z29039*	HG00139	Britain
BY110882	BY110882	BY110882	YF080071 ei	England
Z21088*	Z21088*	Z21088*	YF008518	Britain
Z17122*	Z17122*	Z17122*	YF078450	England
Y262491*	Y262491*	Y262491*	YF083152	England
Y262491*	Y262491*	Y262491*	YF001739	England
Z30496	Z30496	Z30496	UK31EDD4	England
U152*	U152*	U152*	UK39B2EB	Britain
Y22161*	Y22161*	Y22161*	YF012047	England

Y22161>BY488	BY488	BY488	YF006081	England
BY117303*	BY117303*	BY117303*	YF089888	England
BY3854*	BY3854*	BY3854*	YF015920	England
BY42785	BY42785>BY43852	BY43852	YF015862, \	Scotland
BY3851*	BY3851*	BY3851*	YF068505	Scotland
Y29879	Y29879	Y29879	YF008063, \	England
BY6638	BY6638	BY6638	YF008943, \	England
BY3949	BY3949	BY3949	YF072049	England
BY70282	BY70282	BY70282	UK1C9883	Britain
Y262855	Y262855	Y262855	YF014178	England
PH2982*	PH2982*	PH2982*	YF068365	England
FGC36902*	FGC36902*	FGC36902*	YF002345	England
BY186940	BY186940	BY186940	YF084897	England
Y60298	Y60298	Y60298	YF087153, \	England
BY9459*	BY9459*	BY9459*	YF015148	England
Y37921	Y37921	Y37921	YF011325, \	Scotland
FGC59783*	FGC59783*	FGC59783*	YF002052	Scotland
FGC71023*	FGC71023*	FGC71023*	YF015508	England
Y16885	Y16885	Y16885	YF008357 el	England
Y16884*	Y16884*	Y16884*	YF016643	England
L2*	L2*	L2*	YF094964	Britain
L2*	L2*	L2*	HG00129	Britain
FGC11577	FGC11577	FGC11577	YF001521	Britain
YF012582*	YF012582*	YF012582*	YF012582	England
Y84137	Y84137	Y84137	YF011768	England
Y139637*	Y139637*	Y139637*	YF065725	Scotland
Y19742	Y19742	Y19742	YF004980	England
PAGES00073*	PAGES00073*	PAGES00073*	YF076704	England
A197*	A197*	A197*	YF007679	England
FGC5308	FGC5308	FGC5308	YF009751 el	England
FTB7362	FTB7362*	FTB7362*	YF101610	Scotland
BY3490*	BY3490*	BY3490*	YF005774	Scotland
FGC42933*	FGC42933*	FGC42933*	UK1097F9	Britain
FT59110*	FT59110*	FT59110*	YF007508	England
FT59110*	FT59110*	FT59110*	YF087215	England
Y31324	Y31324	Y31324	YF075694 el	England
Y22312*	Y22312*	Y22312*	YF016040	Scotland
BY820	BY820	BY820	YF095024 el	Scotland
FT112540*	FT112540*	FT112540*	HG00145	Britain
BY171286*	BY171286*	BY171286*	YF094933	England
Y43738	Y43738	Y43738	YF001647	England
L196>A1721*	A1721*	A1721*	YF007894	England
L196>A1721>L196a	L196a	L196a	YF008139 el	England
FG668*	FG668*	FG668*	HG00152	Britain

BY98312	BY98312	BY98312	YF093750	Scotland
BY3491	BY3491	BY3491	YF005252	Scotland
FGC36255*	FGC36255*	FGC36255*	YF013523	England
FGC79468	FGC79468	FGC79468	YF078728, \	Scotland
Y21277>Y22216	Y22216	Y22216	YF087883	England
BY34110	BY34110	BY34110	YF006997	England
FT190968	FT190968	FT190968	UK92A44E	Britain
Y146179	Y146179	Y146179	YF068241, \	England
L20*	L20*	L20*	YF011036	Wales
S11621*	S11621*	S11621*	YF016132	England
Y111961	Y111961	Y111961	YF008477	Britain
Y139223	Y139223	Y139223	YF019931 ei	Scotland
Z1909*	Z1909*	Z1909*	YF094083	England
Y74239	Y74239	Y74239	YF097858, \	England
FT40040*	FT40040*	FT40040*	YF008277	Scotland
Y23243*	Y23243*	Y23243*	YF006376	England
Y23243*	Y23243*	Y23243*	YF002125	Britain
FT87109	FT87109	FT87109	YF086286	England
Y15105	Y15105	Y15105	YF064032,	England
CTS7275	CTS7275	CTS7275	YF008409	Scotland
Y300559*	Y300559*	Y300559*	YF084005	Scotland
BY3555	BY3555	BY3555	YF008590	Britain
A13341	A13341*	A13341*	YF008972	Scotland
	A13341>A15851	A15851	YF009721	Scotland
	A13341>Y7956	Y7956	YF008129	Scotland
BY33990	BY33990	BY33990	YF074239	England
BY55682	BY55682>FT10357	FT10357	YF081250, \	Britain
Y11178>BY84212	BY84212	BY84212	YF077468	England
A20445	A20445	A20445	YF065068, \	England
Y44772	Y44772	Y44772	YF003288	England
Y55766	Y55766	Y55766	YF012647	England
Y24530*	Y24530*	Y24530*	YF007007	England
FGC12384*	FGC12384*	FGC12384*	YF006577	Britain
FGC12384*	FGC12384*	FGC12384*	YF001489	Britain
FGC12384>FGC47884	FGC47884	FGC47884	YF006431	England
Y23226	Y23226	Y23226	YF002596, \	England
FT38430*	FT38430*	FT38430*	YF015052	Wales
BY33580	BY33580	BY33580	YF009124	England
S42*	S42*	S42*	YF007889	England
CTS11381	CTS11381	CTS11381	YF005326,	England
BY42705*	BY42705*	BY42705*	YF001926	Scotland
FGC69675*	FGC69675*	FGC69675*	YF075826	England
CTS9462	CTS9462	CTS9462	YF002844	Scotland
CTS324	CTS324	CTS324	HG00142	Britain

Y23824*	Y23824*	Y23824*	YF067486	England
FT92823*	FT92823*	FT92823*	YF003912	England
Y302902*	Y302902*	Y302902*	YF093474	England
Y302902*	Y302902*	Y302902*	YF070512	England
Y302902*	Y302902*	Y302902*	YF006664	England
BY1544*	BY1544*	BY1544*	YF067627	England
BY1544*	BY1544*	BY1544*	YF00795	England
FT129526	FT129526	FT129526	YF095164, \	England
BY153508*	BY153508*	BY153508*	YF093182	Scotland
CTS7906*	CTS7906*	CTS7906*	YF100273	England
CTS4706*	CTS4706*	CTS4706*	YF101436	England
FTA8779*	FTA8779*	FTA8779*	YF102117	England
FTA8779*	FTA8779*	FTA8779*	YF102086	England
FTA8779*	FTA8779*	FTA8779*	YF101997	England
FT76302	FT76302*	FT76302*	YF093876	England
	FT76302*	FT76302*	YF093874	England
	FT76302*	FT76302*	YF090015	England
Z16629	Z16629	Z16629	YF065402	England
A11619*	A11619*	A11619*	YF101563	Scotland
A11619*	A11619*	A11619*	YF006494	Scotland
BY187503*	BY187503*	BY187503*	YF073147	England
FT182413	FT182413	FT182413	YF081832, \	Scotland
Y175517	Y175517	Y175517	YF064113	England
Y161662	Y161662	Y161662	YF016329	Britain
Y11849	Y11849	Y11849	HG00264	Britain
Y30754*	Y30754*	Y30754*	YF003957	England
BY20186*	BY20186*	BY20186*	YF063394	Scotland
BY20186*	BY20186*	BY20186*	YF007587	England
Y176485	Y176485	Y176485	YF090307	England
FGC23066*	FGC23066*	FGC23066*	YF087449, \	Scotland
FGC23066*	FGC23066*	FGC23066*	YF018905	Scotland
PF6550*	PF6550*	PF6550*	YF016721	Scotland
BY159700*	BY159700*	BY159700*	HG01789	Britain
Y151233*	Y151233*	Y151233*	YF014196	Scotland
Y151171*	Y151171*	Y151171*	YF081291	Scotland
Y151171>BY103089	BY103089	BY103089	YF078448 ei	Scotland
BY19228	BY19228	BY19228	YF004361	England
Y49770*	Y49770*	Y49770*	YF083668	Scotland
BY15966*	BY15966*	BY15966*	YF007103	Britain
A15697	A15697	A15697	YF013014, \	Scotland
FGC40678	FGC40678	FGC40678	YF064229, \	Scotland
FGC49738*	FGC49738*	FGC49738*	YF090701	Wales
BY653*	BY653*	BY653*	YF002839	England
BY21120	BY21120	BY21120	YF009994, \	Scotland

BY45079	BY45079	BY45079	YF014262, \ England
A5305	A5305>FGC39559	FGC39559	YF014225, \ Wales
Y36976	Y36976	Y36976	YF008744 Wales
Y36306	Y36306	Y36306	YF010640 ei England
Y23216*	Y23216*	Y23216*	YF006752 England
BY22194*	BY22194*	BY22194*	YF068024 Britain
BY22194*	BY22194*	BY22194*	YF005889 Scotland
BY71452	BY71452	BY71452	YF073443, \ England
BY135146	BY135146	BY135146	YF064501 ei England
FGC67371*	FGC67371*	FGC67371*	YF075605 England
FGC17107*	FGC17107*	FGC17107*	YF088811 England
FGC17107*	FGC17107*	FGC17107*	YF001626 Wales
BY3290*	BY3290*	BY3290*	YF006896 England
BY34387	BY34387	BY34387	YF013611 England
Y13142*	Y13142*	Y13142*	YF010755 England
Y13804	Y13804	Y13804	YF003125 ei England
FGC39929>FGC52930	FGC52930	FGC52930	YF013465 England
FGC39929>FT74881	FT74881>FGC39928	FGC39928	YF004543 England
Y14529*	Y14529*	Y14529*	YF070768 England
Y15787	Y15787	Y15787	YF002376, \ Scotland
BY19308*	BY19308*	BY19308*	YF071421 England
L881	L881	L881	YF015652 England
BY49854	BY49854	BY49854	YF064294 Scotland
Y14084	Y14084	Y14084	YF065514 ei England
Z2565*	Z2565*	Z2565*	YF002470 England
FGC49010*	FGC49010*	FGC49010*	YF001847 Scotland
A11637	A11637	A11637	YF002807 England
FGC57007*	FGC57007*	FGC57007*	YF008486 England
FGC57007*	FGC57007*	FGC57007*	YF007452 England
FGC57007>Y31896*	Y31896*	Y31896*	YF008859 England
FGC57007>Y31896*	Y31896*	Y31896*	YF008566 England
FGC57007>Y31896*	Y31896*	Y31896*	YF008810 England
PH2054*	PH2054*	PH2054*	YF006955 England
Y77621*	Y77621*	Y77621*	YF007754 England
Y3267*	Y3267*	Y3267*	YF006117 England
BY19153*	BY19153*	BY19153*	YF005704 England
BY164509	BY164509	BY164509	YF090277, \ Scotland
Y15639*	Y15639*	Y15639*	YF006726 England
Y22184	Y22184	Y22184	YF064316 ei England
Y234976	Y234976	Y234976	YF097876 Scotland
BY31431*	BY31431*	BY31431*	YF014310 Britain
Y8397*	Y8397*	Y8397*	HG00107 Britain
Y235960	Y235960	Y235960	YF086968, \ England
A16155>BY117649	BY117649	BY117649	YF014426, \ Scotland

FGC39763	FGC39763	FGC39763	YF062930	ei	Scotland
Y32852*	Y32852*	Y32852*	YF009182		England
Y32851	Y32851	Y32851	YF009181		Scotland
FGC11414*	FGC11414*	FGC11414*	YF014812		England
L617*	L617*	L617*	YF004446		England
Y150902	Y150902	Y150902	YF013935,	\	England
Y17452	Y17452	Y17452	YF074982	ei	England
FTA78382*	FTA78382*	FTA78382*	YF087048		England
Y11281*	Y11281*	Y11281*	UK14F6AD		Britain
Y101605	Y101605	Y101605	YF011060		Britain
Y84567	Y84567	Y84567	YF071207		England
A11366*	A11366*	A11366*	YF005344		England
Y62177	Y62177	Y62177	YF019247		England
BY36541	BY36541	BY36541	YF016853,	\	England
FGC66827	FGC66827	FGC66827	YF015334		England
BY22335*	BY22335*	BY22335*	YF066065		England
Y17444	Y17444	Y17444	YF004247		England
Y153322*	Y153322*	Y153322*	YF014367		England
FT234339	FT234339	FT234339	HG00141		Britain
Y59659*	Y59659*	Y59659*	YF091045		England
Y59659*	Y59659*	Y59659*	YF003208		England
Y3470*	Y3470*	Y3470*	YF006437		England
Y134059*	Y134059*	Y134059*	YF014254		England
PH92*	PH92*	PH92*	YF018718		Britain
Y38511*	Y38511*	Y38511*	YF001557		Scotland
M428*	M428*	M428*	YF089908		Britain
Y23193	Y23193	Y23193	YF006446,	\	Scotland
Y64389	Y64389	Y64389	UK0E6FFA		Britain
FGC28368	FGC28368	FGC28368	YF002541		England
BY32742	BY32742	BY32742	YF089436		England
Y82202*	Y82202*	Y82202*	YF068554		England
Z295*	Z295*	Z295*	YF011661		England
FGC23196*	FGC23196*	FGC23196*	YF003159		England
BY36243	BY36243	BY36243	YF088401		England
Y96610*	Y96610*	Y96610*	YF008607		England
Y13213*	Y13213*	Y13213*	YF003038		England
Y17458	Y17458	Y17458	YF007378	ei	England
Y10797*	Y10797*	Y10797*	YF002734		England
FGC15748*	FGC15748*	FGC15748*	YF002849		England
BY31939	BY31939	BY31939	YF004300		England
FGC29748*	FGC29748*	FGC29748*	YF072028		Scotland
Z216*	Z216*	Z216*	YF094678		England
PH1909*	PH1909*	PH1909*	YF007854		England
PH3372	PH3372	PH3372	HG00112		Britain

FGC35858	FGC35858	FGC35858	YF085738	ei	England
BY13623	BY13623	BY13623	YF014826,	\	Scotland
BY3209*	BY3209*	BY3209*	YF073737		Scotland
Y5113*	Y5113*	Y5113*	YF065394		Scotland
FT50341	FT50341	FT50341	YF063017,	\	Scotland
Y17482	Y17482	Y17482	YF019922	ei	Scotland
Y5135*	Y5135*	Y5135*	YF004154		Scotland
Y5108	Y5108	Y5108	YF013185	ei	Scotland
BY27739*	BY27739*	BY27739*	YF007424		England
Y60581*	Y60581*	Y60581*	YF007555		Scotland
S11475*	S11475*	S11475*	YF102366		England
S11475*	S11475*	S11475*	YF009748		Britain
Y303155*	Y303155*	Y303155*	YF093637		England
Y8412	Y8412	Y8412	YF003619	ei	England
Y34472	Y34472>Y60690	Y60690	YF079341,	\	England
Y7729	Y7729	Y7729	YF002328		Scotland
Y28570*	Y28570*	Y28570*	YF007595		England
			VK166		England
BY33836	BY33836	BY33836	HG01791		Britain
FT115084	FT115084	FT115084	YF100323,	\	England
Z208*	Z208*	Z208*	YF092942		England
PF2462	PF2462	PF2462	YF011477		Britain
BY86549*	BY86549*	BY86549*	YF016391		England
BY33784*	BY33784*	BY33784*	YF011028		England
CTS4863*	CTS4863*	CTS4863*	HG00126		England
BY12123	BY12123	BY12123	YF087847		England
BY40726	BY40726	BY40726	YF086409		England
FGC11225	FGC11225	FGC11225	YF002155		England
			I27380		England
Y18454	Y18454	Y18454	YF004710	ei	England
A7908	A7908	A7908	YF008792,	\	Scotland
S3687	S3687	S3687	HG00243		Britain
BY20330*	BY20330*	BY20330*	YF011226		England
Y224702	Y224702	Y224702	UK0D2BB4		Britain
Z16245*	Z16245*	Z16245*	YF066487		Scotland
BY2596*	BY2596*	BY2596*	YF011051		Scotland
FT19191	FT19191	FT19191	YF065543,	\	England
FGC36423*	FGC36423*	FGC36423*	YF005619		England
Y163732	Y163732	Y163732	YF016692		Wales
DF13*	DF13*	DF13*	YF087388		England
Y176317	Y176317	Y176317	YF064224		England
BY23434	BY23434	BY23434	YF008079		England
FGC24305*	FGC24305*	FGC24305*	YF093629		England
BY23593	BY23593	BY23593	YF082739		England

CTS2139	CTS2139	CTS2139	HG00119 <i>I21180</i>	Britain England
FGC33755	FGC33755	FGC33755	YF006961	England
BY3925	BY3925	BY3925	YF005809	England
FGC13749*	FGC13749*	FGC13749*	YF005242	Wales
Y112885*	Y112885*	Y112885*	YF080583	Wales
Y112885*	Y112885*	Y112885*	YF011085	Wales
BY19430	BY19430	BY19430	YF009851	England
Y62830*	Y62830*	Y62830*	YF006391 <i>I2445</i>	England England
Y66184*	Y66184*	Y66184*	YF070835	England
Y66184*	Y66184*	Y66184*	YF005084	Scotland
A9850*	A9850*	A9850*	YF001866	England
Y46780*	Y46780*	Y46780*	UKE7EF69	Britain
A11313	A11313	A11313	YF004332	England
Y16225*	Y16225*	Y16225*	YF066248	England
BY248	BY248	BY248	YF014259	Scotland
Y16765*	Y16765*	Y16765*	YF003939	Isle of Man
Y16765>A7298>A7300	A7300	A7300	YF081032	Scotland
Y16765>A7298>Y131094	Y131094	Y131094	YF011769	Scotland
S19268*	S19268*	S19268*	YF064859	Scotland
FT44417	FT44417	FT44417	YF065628	Wales
BY72119	BY72119	BY72119	YF064304	England
S1026*	S1026*	S1026*	YF006652	England
BY2666	BY2666	BY2666	YF007371 <i>I21181</i>	England England
FT5949*	FT5949*	FT5949*	YF063532	Scotland
BY54624*	BY54624*	BY54624*	YF015668	Scotland
BY30586*	BY30586*	BY30586*	YF103210	Wales
BY30586*	BY30586*	BY30586*	YF009446	Wales
FGC49773*	FGC49773*	FGC49773*	YF009975	England
FGC49766*	FGC49766*	FGC49766*	YF008146	England
FGC49766>FGC49777	FGC49777	FGC49777	YF008300,	England
BY30439>BY30431	BY30431	BY30431	YF011848	Scotland
BY161172	BY161172	BY161172	YF014541	England
Y49374*	Y49374*	Y49374*	YF003860	England
Y32764	Y32764	Y32764	YF009322	Scotland
Y48868	Y48868	Y48868	YF065399	Scotland
S1051*	S1051*	S1051*	YF074391	England
FGC29516*	FGC29516*	FGC29516*	YF015228 VK203	Wales Scotland
BY23657	BY23657	BY23657	YF011381	England
FGC52285	FGC52285	FGC52285	YF015644,	England
FGC42321*	FGC42321*	FGC42321*	YF012540	Britain

FGC42336*	FGC42336*	FGC42336*	YF067672	England
FGC42336*	FGC42336*	FGC42336*	YF011562	Britain
FGC46820*	FGC46820*	FGC46820*	UK48CE67	Britain
FGC46823	FGC46823	FGC46823	YF013813	England
FGC19428*	FGC19428*	FGC19428*	YF016846	Scotland
FGC19436	FGC19436	FGC19436	YF064700	Scotland
FGC28635*	FGC28635*	FGC28635*	YF100872	Scotland
FGC28635*	FGC28635*	FGC28635*	YF015994	Scotland
FGC28625*	FGC28625*	FGC28625*	YF014522	Scotland
FGC28625*	FGC28625*	FGC28625*	YF014028	Scotland
BY24822	BY24822	BY24822	YF097762 el	England
FGC5494*	FGC5494*	FGC5494*	YF019957	England
FGC5494*	FGC5494*	FGC5494*	HG00115	Britain
			/16592	England
FGC19914	FGC19914	FGC19914	YF007461, \	England
A1148*	A1148*	A1148*	YF008712	England
A1148*	A1148*	A1148*	YF002605	Wales
Y9097*	Y9097*	Y9097*	YF012171	England
A7677	A7677	A7677	YF003561	England
A12817	A12817	A12817	YF010222, \	Scotland
Y31855*	Y31855*	Y31855*	YF066278	Wales
Y31855*	Y31855*	Y31855*	YF008547	England
Y136898*	Y136898*	Y136898*	YF012514	Scotland
FGC7448*	FGC7448*	FGC7448*	YF062750	Scotland
S1088*	S1088*	S1088*	YF010080	England
FGC5549*	FGC5549*	FGC5549*	YF007753	England
FGC5511*	FGC5511*	FGC5511*	YF083780	Scotland
FGC5517	FGC5517	FGC5517	YF003272	Isle of Man
FT123778	FT123778	FT123778	YF080527	England
FGC43417*	FGC43417*	FGC43417*	YF013421	Britain
A13160>BY33497	BY33497	BY33497	YF089351	England
A13160>FGC43427	FGC43427	FGC43427	YF009879	England
A8450*	A8450*	A8450*	YF071774	Scotland
BY17875	BY17875	BY17875	YF073661	Scotland
Y83886	Y83886	Y83886	YF009288	England
BY17700*	BY17700*	BY17700*	YF007785	Scotland
Y82840	Y82840	Y82840	YF015478 el	Scotland
Z16431*	Z16431*	Z16431*	HG00246	Britain
			/2859	Scotland
BY30952*	BY30952*	BY30952*	YF011831	Scotland
Y23345	Y23345	Y23345	YF006306, \	Britain
BY34871*	BY34871*	BY34871*	YF065089 el	Scotland
Y83315	Y83315	Y83315	YF014211 el	England
FGC11271*	FGC11271*	FGC11271*	YF006825	Scotland

FGC11271*	FGC11271*	FGC11271*	YF001463	England
BY20958	BY20958	BY20958	YF076462	England
A210*	A210*	A210*	YF086838, \	Scotland
BY24324	BY24324	BY24324	YF016812 el	England
A541*	A541*	A541*	YF004391	Wales
			VK202	Scotland
FGC29768*	FGC29768*	FGC29768*	YF006978	Scotland
Z251*	Z251*	Z251*	YF101441	Scotland
Y44741	Y44741	Y44741	YF003840	England
A968	A968	A968	YF010616	Wales
A241*	A241*	A241*	YF013331	England
S11556*	S11556*	S11556*	YF011429	England
Y82327	Y82327	Y82327	YF089744	Wales
Y11273*	Y11273*	Y11273*	UKAED6EE	Britain
FGC65746	FGC65746	FGC65746	YF016658, \	England
FGC11986*	FGC11986*	FGC11986*	YF087789	England
BY107437	BY107437	BY107437	YF016815, \	England
BY9005*	BY9005*	BY9005*	YF003753	England
A2158>Y15785	Y15785	Y15785	YF003499, \	Scotland
A2158>A11526	A11526	A11526	YF006568, \	Scotland
A11648	A11648	A11648	YF006623	England
FT74121*	FT74121*	FT74121*	YF006445	Scotland
BY112589	BY112589	BY112589	YF097895, \	Scotland
FT249591	FT249591	FT249591	YF069450, \	England
BY23397*	BY23397*	BY23397*	YF019462	Scotland
BY23397*	BY23397*	BY23397*	YF009010	Wales
Y105803	Y105803	Y105803	YF065197, \	Wales
FT98630	FT98630	FT98630	YF009249	England
FT169596*	FT169596*	FT169596*	YF087818	England
FT169596*	FT169596*	FT169596*	YF013032	Scotland
BY39033*	BY39033*	BY39033*	YF077955	England
BY39033*	BY39033*	BY39033*	YF012247	England
		FGC40253*	YF073784, \	Scotland
Y307848*	Y307848*	Y307848*	YF095489	England
Y307848*	Y307848*	Y307848*	YF094983	England
Y31305>Y31307	Y31307	Y31307	YF009745	Britain
A874*	A874*	A874*	YF103073	Wales
A875*	A875*	A875*	YF012833	England
BY23505*	BY23505*	BY23505*	YF003979	England
BY38359	BY38359	BY38359	YF077291 el	England
FGC36627	FGC36627	FGC36627	YF017015, \	England
BY160>FGC36974	FGC36974	FGC36974	YF008619 el	Wales
MC13	MC13	MC13	YF071210	Scotland
MC00	MC00	MC00	YF002319	Scotland

Y5655*	Y5655*	Y5655*	YF003099	England
Y5650>Y5649	Y5649	Y5649	YF003253	el Scotland
A600*	A600*	A600*	YF011786	England
A600*	A600*	A600*	YF005285	Britain
L744	L744	L744	YF002025	el Scotland
Y22229>A1541	A1541	A1541	YF005826	Scotland
Y5740>Y12933	Y12933	Y12933	YF003005	Scotland
Y23191*	Y23191*	Y23191*	YF004563	England
Y214646>Y214641	Y214641	Y214641	YF097752	Scotland
Y7359*	Y7359*	Y7359*	UKDEA88B	Britain
FGC10124*	FGC10124*	FGC10124*	YF002260	Scotland
FGC10124>FT66561	FT66561	FT66561	YF007917	Scotland
FGC10124>A5919	A5919	A5919	YF005987	Scotland
FGC10124>FGC10122	FGC10122>FGC10121	FGC10120	YF093589,	\ Scotland
FGC10124>Y132210	Y132210	Y132210	YF015352,	\ Scotland
S744*	S744*	S744*	YF067925	Scotland
A9354	A9354	A9354	YF009172	Scotland
Y16858*	Y16858*	Y16858*	YF014457	Scotland
Y16858*	Y16858*	Y16858*	YF012786	Scotland
A1141>Y19135	Y19135	Y19135	YF004734,	\ Scotland
A1141>Y23839	Y23839	Y23839	YF006897,	\ Scotland
FGC32890	FGC32890	FGC32890	YF002112	England
Y7845*	Y7845*	Y7845*	YF002267	England
A5908	A5908	A5908	YF009028	Scotland
A5911	A5911	A5911	YF003968,	\ Scotland
S691*	S691*	S691*	YF003679	Scotland
S691*	S691*	S691*	YF001490	Scotland
Y22160	Y22160	Y22160	YF006227,	\ Scotland
S7361*	S7361*	S7361*	YF008921	Scotland
Y32811	Y32811	Y32811	YF009120,	\ Scotland
CTS5356*	CTS5356*	CTS5356*	YF006697	England
CTS6024	CTS6024	CTS6024	YF077701	Scotland
Y29908	Y29908	Y29908	YF075604	el Scotland
S695*	S695*	S695*	YF017065	Scotland
A6931	A6931	A6931	YF081840	England
A5291	A5291	A5291	YF014940,	\ Scotland
FGC9572*	FGC9572*	FGC9572*	YF014446	Scotland
FGC9572*	FGC9572*	FGC9572*	YF011679	Scotland
FGC46882*	FGC46882*	FGC46882*	YF064221	Scotland
FGC32577	FGC32577	FGC32577	YF004857	Scotland
S764*	S764*	S764*	YF103186	England
FTA81912	FTA81912	FTA81912	YF093621	Scotland
L743	L743	L743	YF001931	Scotland
Z17614	Z17614	Z17614	YF001687	Scotland

BY205916	BY205916	BY205916	YF073675	Scotland
FT133802	FT133802*	FT133802*	YF100852	Scotland
	FT133802*	FT133802*	YF095481	Scotland
BY22054	BY22054	BY22054	YF010839	Scotland
Y11804*	Y11804*	Y11804*	YF010643	Scotland
Y11804*	Y11804*	Y11804*	YF010520	Scotland
Y11804*	Y11804*	Y11804*	YF008390	Scotland
Y11804>A861	A861	A861	YF008767 e	Scotland
Z17611*	Z17611*	Z17611*	YF003180	Scotland
FGC17595*	FGC17595*	FGC17595*	YF007590	Scotland
FGC17595>BY150	BY150	BY150	YF009180, \	Scotland
FGC17595>FGC17603	FGC17603	FGC17603	YF004698	Scotland
BY23333	BY23333	BY23333	YF015885, \	Scotland
GC18447>BY23354>BY69236	BY69236	BY69236	YF015208, \	Scotland
BY19745*	BY19745*	BY19745*	YF010085	Scotland
A6099	A6099	A6099	YF003710	Scotland
BY25532	BY25532	BY25532	YF013114, \	Scotland
Z16328*	Z16328*	Z16328*	YF013149	Scotland
BY23073	BY23073	BY23073	YF095443	Scotland
Y31372	Y31372	Y31372	YF011753 e	Scotland
BY154	BY154	BY154	YF012033 e	Scotland
Y44961	Y44961	Y44961	YF004470	England
Z23534*	Z23534*	Z23534*	YF078125	Scotland
Z23534>Y97532	Y97532	Y97532	YF065770, \	Scotland
Z17909*	Z17909*	Z17909*	YF006442	Wales
Y3556*	Y3556*	Y3556*	UKC8A0B0	Britain
CTS3087*	CTS3087*	CTS3087*	YF005943	England
Z17629	Z17629	Z17629	UKA866BF	Britain
BY11280	BY11280	BY11280	HG00103	Britain
BY182*	BY182*	BY182*	YF015892	Scotland
FT18700	FT18700	FT18700	YF086947, \	Scotland
			VK263	England
S5668*	S5668*	S5668*	YF001524	England
Z16854	Z16854	Z16854	YF010279, \	England
A11138	A11138	A11138	YF006110	England
FGC82702	FGC82702	FGC82702	YF100928	Wales
A20238*	A20238*	A20238*	YF011472	England
BY54262	BY54262	BY54262	YF079757, \	Scotland
S23634	S23634	S23634	YF009619	England
BY11186	BY11186	BY11186	YF009977	Scotland
S5982*	S5982*	S5982*	YF006224	Scotland
Z17816*	Z17816*	Z17816*	YF080536	Scotland
BY193326*	BY193326*	BY193326*	YF101361	Scotland
BY193326*	BY193326*	BY193326*	YF019002	Scotland

A1067	A1067	A1067	YF005328	Scotland
ZS4584*	ZS4584*	ZS4584*	YF068064	Scotland
ZS4584*	ZS4584*	ZS4584*	YF015515	Scotland
ZS4584*	ZS4584*	ZS4584*	YF011444	Scotland
Y32809	Y32809	Y32809	YF009335	Scotland
FGC32004*	FGC32004*	FGC32004*	YF097610	Scotland
BY2634*	BY2634*	BY2634*	YF011200	Scotland
Y31361>Y31364*	Y31364*	Y31364*	YF008796	Scotland
Y31361>Y31364>Y106836	Y106836	Y106836	YF011827, \	Scotland
A3*	A3*	A3*	YF016414	Scotland
FGC32838	FGC32838	FGC32838	YF068248, \	Scotland
Y11640>A16843	A16843	A16843	YF071681 el	Scotland
Y11640>Y11639	Y11639	Y11639	YF064668, \	Scotland
Z253*	Z253*	Z253*	YF084100	England
Y13500*	Y13500*	Y13500*	YF087257	Scotland
	FT291097*	FT291097*	HG00105	Britain
Y198506	Y198506	Y198506	YF093819	England
BY23575*	BY23575*	BY23575*	YF064185	Wales
FGC3251	FGC3251	FGC3251	YF001419	Britain
FGC41893	FGC41893	FGC41893	YF079790	England
BY4072	BY4072	BY4072	YF004772	Scotland
Y247080	Y247080	Y247080	YF100840 el	England
BY20037	BY20037	BY20037	YF071366 el	England
A276*	A276*	A276*	YF097804	Scotland
Y96072*	Y96072*	Y96072*	YF008560	England
Y28579>Y28581	Y28581	Y28581	YF006843	Scotland
L226*	L226*	L226*	YF102146	Scotland
FGC5660*	FGC5660*	FGC5660*	YF005471	Scotland
BY62794*	BY62794*	BY62794*	YF013799	Britain
PH1704*	PH1704*	PH1704*	YF078749	Scotland
PH1704>FT130337	FT130337	FT130337	YF082753 el	Scotland
BY19824*	BY19824*	BY19824*	YF010173	England
BY19824*	BY19824*	BY19824*	YF004281	England
BY2684*	BY2684*	BY2684*	YF008474	Isle of Man
FGC35529*	FGC35529*	FGC35529*	YF097574	England
			<i>117264</i>	England
FGC23702*	FGC23702*	FGC23702*	YF008798	England
FGC23702*	FGC23702*	FGC23702*	YF005170	England
A11736*	A11736*	A11736*	UKDC29B8	Britain
Y29970	Y29970	Y29970	YF007816 el	Scotland
FT194739	FT194739	FT194739	YF068397	England
Y90771*	Y90771*	Y90771*	YF065747	England
Y90771>Y37309	Y37309	Y37309	YF013168 el	Scotland
BY40372*	BY40372*	BY40372*	YF014328	England

BY40372*	BY40372*	BY40372*	YF014327	Wales
A2072*	A2072*	A2072*	YF007167	Scotland
DF21*	DF21*	DF21*	YF101205	England
BY13823	BY13823	BY13823	YF006717	Isle of Man
Y15984	Y15984	Y15984	YF002796	Scotland
BY99030*	BY99030*	BY99030*	YF090311	Scotland
FT258227	FT258227	FT258227	YF075872	England
Y34280	Y34280	Y34280	YF064141,	England
BY75265	BY75265	BY75265	YF086548,	Wales
Z16533*	Z16533*	Z16533*	YF014435	Scotland
Y101563*	Y101563*	Y101563*	YF011133	Scotland
BY23456	BY23456	BY23456	YF012679	Scotland
BY2719*	BY2719*	BY2719*	YF011264	Scotland
BY23532	BY23532	BY23532	YF010455	England
BY75560*	BY75560*	BY75560*	YF082921	England
BY75560*	BY75560*	BY75560*	YF009996	England
FT76179>BY103974	BY103974	BY103974	YF066322	Scotland
FT76179>BY139464	BY139464	BY139464	YF065403	Scotland
FGC51730*	FGC51730*	FGC51730*	YF080797	Scotland
3C51730>FT265144>Y1639.	Y163942	Y163942	YF016766	Scotland
>FT265144>FGC51733	FGC51733	FGC51733	YF095486	Scotland
FGC3212*	FGC3212*	FGC3212*	YF008256	Scotland
FGC3212*	FGC3212*	FGC3212*	YF001416	Scotland
FGC3212>S425	S425	S425	YF080930	Scotland
Y67231	Y67231	Y67231	YF007686	England
Z39298*	Z39298*	Z39298*	YF063390	Scotland
Z36747*	Z36747*	Z36747*	YF010457	England
Y16486	Y16486	Y16486	YF003877	Scotland
Z29545	Z29545	Z29545	YF013384	England
Z29552	Z29552	Z29552	YF012040	England
Y16002*	Y16002*	Y16002*	YF006916	Scotland
Y16004>Y16063*	Y16063*	Y16063*	YF003790	Scotland
Z29953>Z4685	Z4685	Z4685	YF003844,	Scotland
DF25*	DF25*	DF25*	YF006396	Wales
Y41120	Y41120	Y41120	YF001585	England
FGC72907	FGC72907	FGC72907	YF013336,	England
L1446*	L1446*	L1446*	YF003853	Wales
L1446*	L1446*	L1446*	YF003700	Wales
Y7346*	Y7346*	Y7346*	YF002296	Wales
Y7346*	Y7346*	Y7346*	HG00242	Britain
BY23524	BY23524	BY23524	YF071981	England
A5409*	A5409*	A5409*	YF011316	Britain
A682*	A682*	A682*	YF002681	Scotland
Y12651*	Y12651*	Y12651*	HG00116	Britain

Y63034	Y63034*	Y63034*	YF080051	Scotland
	Y63034*	Y63034*	YF005436	England
L626	L626	L626	YF090213	el Britain
BY3368>Y133164	Y133164	Y133164	YF095221	Scotland
BY3368*	BY3368*	BY3368*	YF090862	Scotland
			/3132	Scotland
S5488*	S5488*	S5488*	YF007017	Scotland
A6484	A6484	A6484	YF009285	Scotland
Y142580*	Y142580*	Y142580*	YF067551	Scotland
L1336*	L1336*	L1336*	UK174659	Britain
BY11111>Y85597	Y85597	Y85597	YF010768	Scotland
S6000*	S6000*	S6000*	YF011892	Scotland
BY11112	BY11112	BY11112	YF006201	Scotland
BY11119	BY11119	BY11119	YF008996	Scotland
A14029	A14029	A14029	YF015137,	\ Scotland
BY205877	BY205877	BY205877	YF079356,	\ England
FGC58900*	FGC58900*	FGC58900*	YF090602	Scotland
FGC58900*	FGC58900*	FGC58900*	YF007446	England
FGC47949*	FGC47949*	FGC47949*	YF086983	England
FGC47949*	FGC47949*	FGC47949*	YF066746	England
FGC47949>FT146986	FT146986	FT146986	YF078841	el England
FGC47949>Y133668	Y133668	Y133668	YF078843	England
Y134091*	Y134091*	Y134091*	YF078817	England
Y134091*	Y134091*	Y134091*	YF078780	Wales
Y134091>Y134077	Y134077	Y134077	YF012106	Wales
BY23924*	BY23924*	BY23924*	YF010622	England
FGC11175*	FGC11175*	FGC11175*	YF003842	Scotland
ZP80>BY19056*	BY19056*	BY19056*	YF094061	England
>BY19056>BY19074*	BY19074*	BY19074*	YF093299	England
>>BY19074>BY19071	BY19071	BY19071	YF097529	el England
Y32784*	Y32784*	Y32784*	YF073404	England
Z2980*	Z2980*	Z2980*	YF075609	England
Z2980*	Z2980*	Z2980*	YF001514	Scotland
FT94077	FT94077	FT94077	YF014914	Scotland
Y94317	Y94317	Y94317	YF008021	Britain
BY35100*	BY35100*	BY35100*	YF018920	England
BY35100*	BY35100*	BY35100*	YF014930	Scotland
Y24529	Y24529	Y24529	YF007100	England
ZP171*	ZP171*	ZP171*	YF100150	Wales
Y36722*	Y36722*	Y36722*	YF008729	England
FGC30377>FGC30385	FGC30385	FGC30385	YF019829	Scotland
A8255*	A8255*	A8255*	YF079801	Wales
A8255*	A8255*	A8255*	YF009547	England
			/27382	England

FGC51330	FGC51330*	FGC51330*	YF006352	England
	FGC51330*	FGC51330*	YF008838	Scotland
BY3437>BY3440	BY3440	BY3440	YF016282	Wales
Y281106*	Y281106*	Y281106*	YF001992	Isle of Man
FGC5862	FGC5862	FGC5862	YF005120	Scotland
FGC12948*	FGC12948*	FGC12948*	YF005677	Scotland
	A2182*	A2182*	YF001552	Scotland
FT27424	FT27424	FT27424	YF089028,	England
A725*	A725*	A725*	YF010227	Scotland
A11360*	A11360*	A11360*	YF014177	Scotland
A10661*	A10661*	A10661*	YF007035	Scotland
A10663	A10663	A10663	YF011236,	Scotland
Y134650	Y134650	Y134650	YF072038	England
FGC4133>Y187329	Y187329	Y187329	YF068038	Scotland
	BY21182*	BY21182*	YF095007	England
A16160	A16160	A16160	YF065734	England
		A11246*	YF005994	Scotland
A982	A982	A982	YF005024,	Scotland
FGC36289*	FGC36289*	FGC36289*	YF007012	Scotland
BY11698	BY11698	BY11698	YF006650	Scotland
FGC35906>BY137822	BY137822	BY137822	YF074571	Scotland
FGC35906>FGC35910>FT841	FT84190	FT84190	YF078414	Scotland
Y3646*	Y3646*	Y3646*	YF013367	Scotland
BY184899	BY184899	BY184899	YF080862	Isle of Man
A22790	A22790	A22790	YF064701	Scotland
FT74122	FT74122	FT74122	YF065716	Scotland
FGC16740*	FGC16740*	FGC16740*	YF103425	England
FGC16740*	FGC16740*	FGC16740*	UK2200DC	Britain
FGC19831*	FGC19831*	FGC19831*	YF011915	Scotland
FGC19832	FGC19832	FGC19832	UK2ABD6B	Britain
S7814*	S7814*	S7814*	YF004327	Scotland
FGC59192	FGC59192	FGC59192	YF006461	England
A10526*	A10526*	A10526*	YF004535	Wales
Y23074*	Y23074*	Y23074*	YF067324	Scotland
A11215	A11215	A11215	YF064860	Scotland
	Y66755*	Y66755*	YF072081	Scotland
	BY35720*	BY35720*	YF081394	Scotland
Y34170>Y104964	Y104964	Y104964	YF008451	Scotland
BY18350	BY18350	BY18350	YF012170	Scotland
Y136497*	Y136497*	Y136497*	YF101235	England
BY25887	BY25887	BY25887	YF089861	England
	BY21203*	BY21203*	YF011361	Scotland
	BY21203*	BY21203*	YF009106	Scotland
Z29319*	Z29319*	Z29319*	YF011626	Scotland

County/city	Branch origin	Closest match	Split (yBP)
unknown	Northeast Africa	Morocco	5600
unknown	Northeast Africa	Sardinia	4900
unknown	West Africa	Gambia	3000
Cornwall	Paleolithic Europe	ES, ARM	4700/500
Essex	Paleolithic Europe	UKR	4000/1600
unknown		PT	2600
unknown	Northwest African	IT	4100
unknown		Sardinia	2900
unknown			
Orkney		ES	2200
Iverness		IE	1150
Orkney		Nigeria	4500
Iverness		Nigeria	4100
unknown	Sub-Saharan Afric	Sierra Leone	6100
unknown		Arabia	1600
unknown		Gambia	4200
London		Nigeria	4100
unknown		Nigeria	3600
unknown		Arabia	2700
unknown	Berbers	SRD, NL, PL. ES	2800
Stirling		SYR [IE int.]	3500
unknown	Near East	DK	1200
Powys		FR, IT	3100
unknown		IE, ES, TUN	3300/1450
unknown		FR, BE	1750
unknown		LBN [IE int.]	4600
unknown	Near East	Arabia, IT	4400
Somerset		MNG [IE int.]	4300
unknown	Hallstatt culture?	PL	2900
unknown	Hallstatt culture?	IT, HU	2600
unknown			
unknown	Early Indo-Europe	MT, TR, FI, SYR	3700
London			
Northampton	Greeks/Phoeniciar	GR, ARM	3100
East Sussex	Early Indo-Europe	various [IE int.]	4400
unknown	Hallstatt culture?	TR	2700
Cornwall	Hallstatt culture?	PL, IT	2600
unknown			
unknown	Hallstatt culture?	CZ	3000
unknown			
unknown	Early Indo-Europe	CZ	3700
Liverpool			

unknown	Hallstatt culture?	CZ, PT, ES	2700
unknown			
unknown	Early Indo-Europe	various EUR	3700
unknown	Early Indo-Europe	various EUR	3700
North Yorkshire	Hallstatt culture?	TR	2400
unknown	Roman era	HR, DE	1850
unknown	Early Indo-Europe	various EUR	4400
unknown	Belgae	NL	2300
unknown	Belgae	DE	2100
unknown	Greeks/Phoenician	SYR, LBN	3300
unknown	Greeks/Phoenician	LBN	3100
unknown	Early Indo-Europe	ARM	4000
unknown			
Dunbarton	Early Indo-Europe	various EUR	3900
Dunbarton			
unknown			
unknown	Early Indo-Europe	various EUR	3900
Caithness	Early Indo-Europe	various EUR	3900
unknown	Hallstatt?	IT	2900
unknown	Greeks/Phoenician	PT, ARM	3100
unknown	Early Indo-Europe	various EUR	3700
unknown	Hallstatt?	FI, SE	2700
unknown	Hallstatt?	BG, UA, RO, MK	2500
unknown			
unknown	Roman era	IT (aDNA), UA	2100
unknown			
unknown	Hallstatt?	BG	2500
unknown			
unknown	Hallstatt?	DE	2900
unknown	East Germanic?	SE	1800
Perth			
unknown	Berbers	North Africans	2200
unknown		Morocco	1900
Herefordshire	Northwest Africa	Gambia	4200
Devon	Berbers	North Africans	2200
unknown	Berbers	Canary Islands	500
unknown	Semitic	IRQ, ISR, IT	4300
unknown	Paleo/Mesolithic	SRD, ISR [IE int]	9800
unknown	Semitic	FR	3600
unknown	Semitic	IRQ	2700
unknown	Semitic	Arabia	5600
Devon	Paleo/Mesolithic	IT, DE	13300
London	Jewish	Ashkenazi Jews	700
unknown	Near East	Arabia, China	7600
Manchester	Near East Neolithic	IT, TR, NL, PAK	9900

unknown	Near East Neolithic	PAK, MAR, IT	7500
unknown	North Caucasus	Kabarda, Ossetia	3800
unknown	Near East Neolithic	PAK, CZ (aDNA)	11000
unknown	Neolithic Farmers	aDNA (PT,ES,SF)	10600
Surrey Suffolk	Near East	GEO [LBN, SYR int.]	4400
unknown	Near East	TR, IT, PAK, PT	4000
unknown	Near East	DE, PAK	5700
unknown	Near East	PT, GEO	4200
unknown	Near East	ISR, ARM, GR	4000
Cumbria			
unknown	Near East	RU	3300
unknown	Near East Neolithic	various	11800
unknown			
Moray/Elgin	Near East	ARM	7900
unknown			
Lancashire	Mediterranean	ES, PT, FR, IT, N	4000
unknown		FR, IT	3700
unknown	Bronze Age	PL, SK	3700
Wiltshire	Near East	AFG, TR, ES	3200
unknown			
unknown	Near East	BG, FR, IT, ARM	3600
unknown			
Suffolk			
unknown	Near East	TR, IT, etc.	3400
unknown			
unknown	Northwest Caucasus	DE + Adyghe	2700
unknown			
Bedford		TR + DE cluster	2700
unknown	German immigrants	DE, AT, CZ, PL,	1250
West Sussex	West Caucasus	GEO, North Cauca	1950
unknown	German immigrants	CH	1250
unknown		PL, EE, DE	4100
unknown	Neolithic Farmers		
unknown	later migrating to	DE, IT, FR, SE	4400
unknown	Britain	SE	2500
unknown		AT	3600
Kent	Vikings	NO	1650
unknown		various EUR	4200
Lancashire	Vikings	SE	1400
unknown			
Northumberland	Neolithic Farmers		
Northumberland	later migrating to	NO, DE, CH	2900

Northumberland	Britain		
North Yorkshire			
unknown		various EUR	4000
Kent	Neolithic Farmers	DE	3200
unknown	later migrating to	FR	3900
unknown	Britain		
unknown		Sardinia	3600
North Yorkshire	Belgae	BE	2100
York		various EUR [IE i	4000
unknown		ES	3000
unknown	Irish immigrant	IE	550
Lancashire		SE	2900
unknown	Neolithic Farmers	aDNA (PT, ES)	6000
Leeds (Yorkshire)	Hallstatt?	PL, IE, UA, FR	3200
unknown	Hallstatt?	FR	3100
Glasgow	Gypsy/Romani	BiH, FI (Roma)	1350
London	Gypsy or Arabic?	ISR	375
unknown		RU, Tatar	3600
unknown		FR, NL	3800
unknown			
unknown	Saxons	NL (Zuid Holland	1700
unknown			
Dunbarton	Early Indo-Europe	SE	4200
Cambridgeshire			
Leicestershire			
York	Early Indo-Europe	[FR, SE int]	4000/1450
unknown	Early Indo-Europe	various	4500
Aberdeenshire	Early Indo-Europe	DE, NO	3600
Isle of Man	Vikings	NO	1000
Skye			
Kent	Angles	PL, DK	1500
unknown			
unknown	Vikings	NO, SE	1850
unknown			
unknown	Vikings	NO, SE	1450
Aberdeenshire			
unknown		various	4400
unknown			
York	Early Indo-Europe	various [DE int.]	4300
Midlothian			
East Sussex			
York			
unknown		various	4400
unknown			

unknown			
York		NL, RU, CZ, UA	2600
unknown		[SE int.]	
York			
Lincolnshire			
Suffolk		DE, PT [IT, PL in	3400
unknown			
unknown		DE [IE int]	4300
Kent		various	3700
unknown			
unknown		various	3700
Cornwall			
Gloucestershire			
Norfolk		DE, BE/NL	3000
Lincolnshire		BY, AL, MNE, IT	3700
unknown		DE, IT, ES, PT	3500
Essex			
Kent		DE, UA, IT	3700
unknown			
unknown		various	3000
unknown			
unknown		SE	2900
unknown		DE	2400
unknown			
unknown		various	2900
Lanarkshire			
Angus		SE	3600
unknown		NO	2200
Renfrewshire	Vikings	SE	1550
Renfrewshire			
unknown		various	4000
Argyll	Vikings	SE, NO	1650
unknown			
Northampton		NO, FI, PL, SE	3300
Iverness	Vikings	NO	1300
Iverness	Vikings	NO	1200
unknown	Vikings	DK	1250
unknown	Vikings	NO, FI	1850
Wiltshire	Vikings	NO, FI	1650
Gloucestershire		SE	2500
Cumbria	Vikings	SE	1150
unknown	Saxons	DE	2000
unknown			
unknown			
unknown			
unknown		NO, SE, RU [DE	3400
Berwickshire		int.]	

Fife			
Somerset			
unknown		DE, SE	2400
London		SE	2000
York		SE, NL, RU	2500
unknown		NO, SE	2900
unknown		SE	1950
unknown		IT, NL, FR	3100
Suffolk	Vikings	DK (aDNA)	1950
unknown		SE (+aDNA)	2100
unknown	Vikings	NO	1500
unknown	Vikings	NO	1350
unknown		PL, FR	2100
Bradford (Yorkshire)	Swedish immigrant	SE	550
Dumfries		SE, IE	2300
Fife		SE, NO	2800
unknown	Vikings	SE, NO	1050
unknown	Vikings	NO, aDNA:SE,IZ	1350
unknown	Longobard	HU aDNA	1750
unknown	Vikings	DK, FR	1650
Essex	Vikings	FR	1550
Newcastle/Tyne			
unknown		EE, SE, NO	3000
unknown		NO	2000
Hampshire	Vikings	RU	1400
unknown	Vikings	SE, IT	1750
unknown		SE, IT, FI	2500
unknown		SE	2100
York	Vikings	SE	1050
North Yorkshire			
Worcestershire		SE, RU	2400
Essex	Vikings	EE	1500
unknown	Vikings	EE aDNA	1800
unknown			
unknown	Vikings	NL (from SE)	1150
unknown			
Renfrewshire			
unknown	Vikings	SE, NO, EN aDN	1800
unknown			
unknown	Vikings	DK	1000
West Berkshire	Vikings	SE, DK, DE	1700
unknown			

unknown			
unknown			
Buckinghamshire	Angles or Vikings	SE (aDNA)	2200
Northampton			
Worcestershire		SK	2100
Kent			
unknown		SE, FI	3100
unknown		NO	2200
unknown	Vikings	SE	1900
Moray/Elgin	Vikings	NO, SE	1850
Cheshire			
unknown	Vikings	DK, NO, FR	750
unknown	Vikings	IE (from SE, NO)	1150
unknown			
Argyll	Vikings	SE	1250
unknown			
unknown			
unknown	Vikings	SE	1150
unknown	Romans or Germans	IT	1850
unknown			
unknown		DE, HU	3800
unknown		DE	2100
unknown		SK	2200
unknown			
unknown		DK, DE	2700
unknown			
East Lothian		DK, DE	2600
unknown	Saxons	DK, DE	1650
unknown	Vikings	NO	1650
Suffolk	Saxons	DE	1900
York	Saxons	DE	1550
Kent	Saxons	DE	1550
unknown		DE, AL, PL	3400
Fife			
unknown		PL, FR, DK	2100
unknown			
unknown		AL	2400
unknown		RU, FR, SE, DE	2900
Caithness		DE, PL	1950
unknown	Vikings	SE	1150
unknown	Saxons or Normans	FR, NL	1400
unknown	Saxons or Normans	NL	1150
unknown	Saxons or Normans		
unknown			
unknown			

unknown		FR, NL	1400
Flintshire			
Liverpool			
unknown			
Scottish Borders		various	4500
unknown			
unknown		DK	3700
unknown			
unknown		DK (aDNA)	2100
unknown			
Wigan (Lancashire)		SE	2200
unknown		SE	2500
unknown		SE, NO	2800
Yorkshire		NO	2800
unknown	Vikings	DK, SE	1750
unknown			
unknown		NL	2200
unknown	Vikings	NO	1750
unknown			
unknown	Vikings	SE, IE	1600
unknown			
unknown	Vikings	DK (aDNA)	1300
unknown		NL	1850
Monmouthshire			
unknown		NL, DK	1850
unknown			
unknown		NL [IE int.]	1650
unknown		BE	1400
unknown			
Surrey		FI	2400
unknown		DE	3900
unknown			
unknown		IT, DE	3900
unknown			
Lanarkshire			
Lanarkshire		DE	2300
Lanarkshire			
Stirlingshire			
London		NL	2300
unknown			
unknown		SE	3000
unknown			
unknown			
Norfolk		SE	3100
unknown			
unknown		SE, LT	2600

unknown			2500
unknown		BY, AT, NL	2400
unknown			1300
Lanarkshire		NL	2500
unknown		FR, DE, SE	3700
unknown	German immigrant	DE	1050
unknown		SE, PL	1900
unknown			
unknown		SE	1450
Islay			
Western Isles	Vikings	NO	1250
Somerset			
unknown	Vikings	NO	950
unknown		various	4000
unknown		SE, PT	3100
unknown		NL [IE int.]	2500
unknown			
Kent			
unknown		FR	3100
unknown		FR, IT, DK	2500
East Lothian		PT	2600
unknown			
unknown		various	3700
Isle of Man			
London		SE, FI	2300
unknown		FR	1900
unknown			
unknown		RU, CH, DE	1850
unknown	Saxons?	CH	1500
Stirlingshire		DE, SE, CH	2700
Warwickshire	Vikings	SE	1050
unknown			
unknown			
unknown		SE, FI	3000
Staffordshire			
North Yorkshire			
Galloway			
Lancashire		FR, IT	3800
unknown		IT	2500
unknown		IT [IZ aDNA int]	2700
unknown		SE	2500
Hertfordshire	Vikings	SE	1450

unknown		RU	2300
unknown		IT	2100
Caithness		DE	2700
unknown		DE, SI	2600
unknown			
unknown		HU	2500
unknown			
Cornwall			
Galloway		NL, CZ	2900
unknown		NL, CZ	1800
Hertfordshire		NO, PL, RO	2900
Staffordshire			
Derbyshire		SE	2800
London			
Cambridgeshire		SE	1750
Derbyshire		SE	1300
unknown		DE, NO, RU	1800
Dorset	Anglo-Saxons	DK, NL [IE int.]	1450
Derbyshire		DE, NO, RU	1800
Lanarkshire			
Lanarkshire		NL	750
Dunbartonshire			
unknown			
unknown			
unknown		SE, DE	2400
unknown			
Iverness			
Suffolk		NL	2400
unknown			
unknown		DE	2300
unknown			
unknown		SE, DE, NL [IE in	2400
unknown			
unknown		HU, FI, DK	3900
unknown		GEO, ARM, Che	3900
unknown	IE immigrant	IE	3500
unknown	IE immigrant	IE	500
London			
Cornwall	IE immigrant	IE	3400
unknown	Neolithic Farmer	DE (aDNA)	5600
Bedford		ES	2500
Bedford			

unknown		ES, FR [IE int.]	3100
Norfolk			
unknown	Neolithic Farmer	IT, FR, PT (aDN/	5800
unknown			
Hampshire		ES	2800
Gloucestershire	Neolithic Farmer	IT, IE	5600
unknown			
unknown		FR, PT	3200
North Yorkshire		FR, PT	3200
unknown	Neolithic Farmer	IT, FR [IE int.]	5500
West Sussex			
unknown		FR, PL	3800
Herefordshire	Neolithic Farmer	DK, DE, ES	4700
unknown			
Dorset	Roman settlement	ES	1650
Ayrshire			
Wiltshire			
unknown			
unknown			
Cumbria	Neolithic Farmer	Sardinians	4700
unknown			
Ayrshire			
Kincardineshire			
Dundee			
unknown	Neolithic from FR	FR	4000
unknown			
unknown	Neolithic from FR	FR	1800
Bedford			
Wiltshire			
Sutherland			
unknown			
unknown	Belgae tribe in Scotland? A8462 = 75 BigY; TMCRA 23 SNPs	various [IE int.]	2100
Dumfries			
Lanarkshire			
Midlothian			
Fife			
Lanarkshire			
Renfrewshire			
unknown			
unknown			
Essex			
unknown			
unknown			
unknown			

unknown	Belgae tribe in		
unknown	England? Y4252		
unknown	= 161 BigY;	NL, FR [PL, SE,	1900
unknown	TMRCA: 28	FI int]	
unknown	SNPs, around 1		
Gloucestershire	CE		
unknown			
unknown			
unknown			
unknown			
Surrey			
unknown			
Midlothian	German immigrant	DE	800
unknown			
Dumfries			
unknown			
unknown			
Isle of Man	Neolithic farmer	ES (aDNA) [DE,	6900
Isle of Man		IE int]	
East Yorkshire			
Lanarkshire			
Easter Ross			
unknown	IE immigrant	IE	3000
unknown			
unknown	IE immigrant	IE	2800
Orkney			
Orkney			
unknown			
Orkney	Orkney Neolithic	IE Neolithic [FR	6500
Orkney		int.]	
Orkney			
Pembrokeshire			
Argyll and Bute	Neolithic Scotland	DE, SE Neolithic	6900
unknown			
unknown			
unknown	Neolithic England	DE, SE Neolithic	5800
unknown			
Dorset		ES	3200
unknown	Neolithic	DE, SE [IE int.]	4600
unknown		RO	3700
unknown			
unknown		SE	3000
unknown			
unknown			
unknown			

Angus			
unknown	Neolithic Britain	DE, SE Neolithic	6500
unknown		[FR Bretagne +	
Leicestershire		IE int.]	
Glasgow			
York	IE immigrant	IE	2800
Aberdeenshire	IE immigrant	IE	1000
Lancashire	IE immigrant	IE	1000
unknown	IE immigrant	IE	1450
London		DE	2100
unknown			
unknown	Neolithic Britain	DE, PL [IE int.]	5000
Kintyre			
Somerset	Mesolithic Britain	L38 all	11000
unknown		DE	3500
Doncaster			
unknown			
unknown	Late Neolithic	NL [FR, FI, IE int.	4700
unknown			
Dumfries			
unknown			
unknown			
unknown	Angles?	SE	2100
unknown			
unknown	Vikings	FI	1100
Caithness			
unknown		DE, IT	3500
unknown			
unknown		DE, IT	2900
unknown		DE, IT, MOR, AT	4100
unknown		MOR	3200
unknown		DE, IT, AT	3600
Cambridgeshire		AT, FR, SE, DK	3000
unknown			
unknown		HU, SE, HR, PL	2400
unknown		SE	1250
unknown			
unknown	Mesolithic Britain	aDNA: DE, CZ	7900
unknown		Neolithic	
unknown			
unknown		IT	3800
unknown			
unknown	Mesolithic Britain	SRB aDNA; Sard	8700

unknown			
Argyll			
unknown	Dal Riata Scots		
Argyll	from Mesolithic		
unknown	stock (Y4751 has	[IE, NO int.]	1600
Peebles	more than 18		
unknown	sons, 1575 yBP		
unknown	per FTDNA)		
unknown			
unknown			
unknown			
Ayrshire			
unknown			
unknown			
unknown			
unknown			
unknown			
unknown			
Perthshire			
Perthshire			
unknown	IE immigrant	IE	1250
unknown	Mesolithic Britain	various	7400
unknown	Early IE migration	NL	4200
Ayrshire	Saxons?	DE	2400
Cheshire			
Gloucestershire		FR, IT, CH	3500
unknown		SE, MT	3000
Orkney		DE, GR	9200
unknown	Belgae?	PL, BE	1950
unknown	Belgae?	PL, BE	1900
unknown	Belgae?	BE [IE int.]	1800
Shropshire			
Shropshire		NL, BE, DK, NO	3400
Dorset	Angles?	NO	1600
unknown	Saxons or Jutes?	NL	1500
unknown	Belgae?	SE, FR [IE int.]	1950
unknown			
unknown		various [IE int.]	3000
unknown			
unknown		SE, PL [IE int.]	2100
unknown			
Scottish Borders		AL, IE	2500
unknown			
unknown			
unknown			

unknown			
Dumfries	Early IE	various [IE, DE, CH int.]	4100
Devon			
unknown			
unknown			
Oxfordshire		DE	1650
Northumberland		DE, IT	2400
unknown		IT	1800
unknown		various	4000
Wiltshire		FR	2800
Bristol		DE	1800
unknown		SE, NO	1700
unknown		DE, UA	3400
unknown		NO, SE	2300
unknown		BE	3000
unknown	Saxons or Jutes?	BE	1450
Gloucestershire			
Berwickshire		IT, IE, RU	3300
Lancashire			
Lancashire		NO, SE	1800
Ayrshire			
unknown			
Lincolnshire			
unknown		DE, NO, DK, IE	3300
Arran			
Midlothian			
unknown		DE	3200
unknown		RU, DE, FR [IE ir	3400
unknown		SE	2400
Stirlingshire			
Leeds (Yorkshire)		NL, SE, FI	2900
unknown			
Devon	Saxons?	CZ, NL, DE, NO	1750
Devon			
unknown	Saxons		
Lanarkshire		NL (Friesland)	1800
Renfrewshire			
unknown			
West Lothian			
unknown		NL, CZ, DE, NO [IE int.]	2600
Lancashire			

unknown			
Suffolk			
Midlothian		SE	2900
unknown			
unknown			
Lancashire		SE, DE	2300
unknown			
unknown		NL (Friesland)	2700
unknown			
<hr/>			
Leeds (Yorkshire)	Neolithic Near Eas	ARM	13200
Devon		ARM	2800
Somerset	Neolithic Near Eas	ARM, LBY	5900
North Yorkshire	Arabic	UA, TR	1500
London	Jewish	DE, AT, BY, UA	800
unknown	proto-Semitic	TR, EGY	5500
Dumfries	Arabic	KWT, UAE, IRN	2300
Renfrewshire	Arabic	YEM, RU, UAE	2900
unknown	Arabic	ARM,TR,OMN,S	4000
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Dorset	Near East	YEM	2300
Fife	Near East	IT	2300
unknown		PAL	5900
Aberdeen		UA, IRN	4200
Suffolk	Neolithic Farmer	various + SR aD	5000
Western Isles		HU,SE,FR, PL	3300
Pembrokeshire		FR, PL	2000
Essex		various	3100
Suffolk		various (AL clust	4200
Devon		BE	3000
unknown		ES, CH	2200
unknown		DK,SRB [IE int.]	2600
unknown		BG, DE	2800
unknown		DE	2200
Wiltshire		DE	2600
Lancashire			
Lancashire	Jutes/Saxons	BE/NL	1650
unknown			
Oxfordshire			2600
unknown		ISR	2400
Norfolk			2600
York		BG	2300
Hertfordshire		Chechen	2300
unknown		ES	1900
unknown		MK, AL	3000
unknown		various	2000

unknown		various	2900
unknown		IT, ES	2200
unknown		PT,CH	2500
London	Jewish	DE,UA,HU,LT,M	850
unknown		various [FI int.]	4000
Wiltshire			
unknown	Near East	TR, ARM, Arabs	3900
Lincolnshire		Arabs, IRN	5000
Liverpool	Jewish	various	500
Durham (Northum	Near East	LBN, TR, SAU	3900
Essex		PL	3000
West Sussex/Surrey		various	9200
unknown			
unknown		ARM,TR,ALG	5800
Devon			
London		ES	750
Dumfries		LV, LT, PL	3200
Kircudbright		AL	2300
Ayrshire		various	2800
Roxburgh		Arabia	3600
Borders	IE immigrant	IE	500
Banffshire		Arabia	3200
unknown		Adyghe	4300
unknown		GEO	3200
unknown		GR	3400
unknown		ES	3600
unknown		ES	2300
unknown	Jewish	HU, UA, RU	700
unknown		RO	850
unknown		IT, AT	3200
Norfolk	Near East	IND, LBN	6900
Essex	Near East	TR, Arabia	7100
unknown	Near East	IRQ, Arabia	2800
unknown	Near East	IT, ISR, Arabia	6300
unknown	Near East	ES, TR	4100
unknown	Near East	Arabia	5200
unknown	Near East	LBN, IRQ, ISR	3100
Devon	Bronze Age migra	RU	3600
Reading	Scandinavian	FI, EE	2000
Scottish Borders	Vikings	FI	1450
West Yorkshire			
Suffolk	Vikings	NO, SE	1600
unknown			
unknown	Vikings	SE, RU, EE (aD)	1700

Somerset	Scandinavian	SE,FI,DE,PL,RU	2500
unknown	Scandinavian	FI,LV,RU,DE	2600
unknown	Near East	LBN, UZB,IRQ	4900
Norfolk	South Asian	PAK, IND	7200
unknown	Inner Asian	China	2200
unknown	Inner Asian	RU, MNG (aDNA)	3700
unknown	Inner Asian	CZ, ES	4700
Gloucestershire	Scandinavian	SE, NO	2400
unknown	Vikings	NO, SE, FI	1850
West Yorkshire			
Buckinghamshire			
York			
West Yorkshire	Bronze Age Eurasians?	NO, SE, DE	3200
Cheshire			
unknown			
unknown	German immigrati	DE	850
unknown	Saxons or Vikings	DE, NO, DK, FR	1750
unknown	Vikings	NO	1300
unknown			
Lancashire	Norwegians	NO	500
unknown	Paleolithic Eurasia	Mexico	11400
Lancashire			
Midlothian			
Stirlingshire		IT	1400
East Lothian			
Moray			
unknown	Mesolithic Britain	all other R1a	8700
York	Early IE	various	4600
unknown			
unknown		PL, CZ	1900
unknown		SE, PL [IE int.]	3600
unknown		SE, PL, DE, NL	1950
Mull / Iona (Argyll)		NO, SE	3000
unknown	Vikings	NO	1450
unknown	Vikings	SE	1250
Devon			
unknown			
Gloucestershire			
unknown			
unknown			
unknown			
unknown	Saxon tribe (YP282 et al. TMRCA 24 SNPs, 4th-5th		
East Sussex		SE, FR [IE int.]	1950

unknown	century), 198 x		
unknown	BigY		
unknown			
unknown			
unknown			
unknown			
unknown			
West Yorkshire	Early IE	IND, Arabia	4600
unknown			
unknown		ES	3800
unknown		CH	2600
unknown		China	300
unknown		Pamiri Tadjiks,	
Galloway		UA, ES	2700
unknown	Jewish	Ashkenazi variou	550
Kent	Turkic	KYR, China, IRQ	3700
unknown	Turkic	Bashkiria aDNA	3000
Renfrewshire	Turkic	AFG, PL, VNM	3700
unknown	Turkic	Kabard; TR	3000
unknown	Early IE	all Z283 [IE int.]	4800
unknown		UA, RU	1750
unknown	Viking slaves?	DE, SK	1300
Glasgow	Viking slaves?	PL	1250
unknown	Early IE	FI, other Z280	4400
unknown	Viking slaves?	PL	1500
unknown		NO	650
Essex		NO	2300
unknown		NL	900
unknown	Early IE	HU	4500
unknown		SE	1550
Bristol		RU	2300
Staffordshire	Viking slaves?	FI	1400
unknown		SK	700
unknown	Viking	NO	1100
Dorset	Viking aDNA	NO	700
unknown		SE	2200
North Yorkshire			
Cheshire		NO, SE	1850
unknown			
unknown		NO	1250
Orkney			
unknown	Vikings	NO	1550
Shetland			
unknown		NO, SE, PL	3100

Northumberland	Vikings	NO (aDNA)	1250
Oxfordshire	Viking aDNA	SE	1600
unknown	Vikings	NO, FI	1350
unknown		NO, LT	1800
Lincolnshire		NO	1800
Aberdeen	Vikings	NO	1250
Isle of Man			
Isle of Man			
Isle of Man	Vikings	NO	1150
Isle of Man			
Isle of Man			
Aberdeen		SE, FI	1800
Bradford (Yorkshire)		NO, SE	1950
unknown	Vikings	SE	1500
unknown			
unknown			
Dumfries		NO, SE [IE int.]	2400
unknown			
Oxfordshire		SE, NO	2500
North Yorkshire		SE	1900
unknown		NO	1850
unknown			
unknown		NO	2300
York			
Essex		SE, DE	2300
Cambridgeshire			
unknown		FI [IE int.]	1950
Ayrshire	Langobards		
Northumberland		HU (aDNA), FI [IE int.]	2100
unknown			
Lancashire		SE, NO	2500
unknown		SE, NO	2500
unknown		SE	1450
unknown		NO, SE, FI	1700
Inverness			
unknown		NO, SE	1450
unknown			
unknown			
York	Vikings	Feroer aDNA	900
North Yorkshire			
Lancashire			
Orkney			
Leeds (Yorkshire)	Viking aDNA	SE [IE int.]	1600

unknown			
Warwickshire		SE, NO, IZ (aDN	1750
unknown			
unknown			
unknown			
unknown			
Argyll			
unknown			
unknown			
Argyll			
Perthshire	Somerled/ Norse		
Argyll	tribe; YP274		
Bute	TMRCA 22 SNPs	NO (Oppland)	1750
Perthshire	= around 500 CE;		
Inverness	235 BigY		
Renfrewshire			
Skye			
unknown			
Inverness			
unknown			
Lanarkshire			
Inverness			
Dorset	Vikings	PL	1250
unknown			
unknown	Paleolithic Eurasia	IT + North Africa	9300
unknown	North Africans	ALG, Arabia	2600
Somerset	Mesolithic pre-IE	LV	4300
unknown	Roman era	TR	1950
unknown	Proto-Indo-Iranian	IRN, TR, PAK	4900
unknown	Jewish	DE	150
unknown	Proto-Armenian	ARM, TR, Arabia	3300
Sutherland	early Indo-Europe	various [IE int.]	5400
unknown		ES	3200
unknown		Arabia	3600
Devon			
Cheshire			
North Yorkshire	Roman settlement	IT	2000
unknown		various	4700
unknown		DE	2500
unknown		various	3800
unknown		ES	3800
unknown			
unknown		IT	3400
unknown	Roman settlement	DE	2200

unknown		IT [IE int.]	2400
unknown			
unknown		various	5100
Worcestershire		FR, PT, DE	4300
unknown			
East Lothian	Pre-Proto-Celtic	various [PT, DE, IE int.]	4800
unknown			
Lancashire	Pre-Proto-Celtic	FR [IE int.]	4800
Devon	Pre-Proto-Celtic	various	4600
Surrey			
Somerset	Jutes or Saxons	FR / NL	1500 / 1700
unknown			
unknown	Pre-Proto-Celtic	various	4400
unknown		DE	3200
unknown	Vikings	SE, NO	1500
unknown		DK	2400
Cheshire			
unknown		DK [IT int.]	2900
unknown		FR/BSQ	3800
East Yorkshire		NL, DE	3500
Bristol		DE	2700
Argyll		NL, DE	3500
unknown	Early IE	various	4600
unknown		EE [IE int.]	3300
unknown		NL, SE	3400
unknown		NL, FR, PT, FI	3000
unknown		various	4100
unknown		DE [IE int.]	1450
unknown		NO	2300
unknown		SE	2200
Oxfordshire	Viking aDNA	DE	3300
West Lothian			
unknown		various	3700
Norfolk			
Angus		IT, CH, PL	2700
Essex	Saxons	DE, NL, BE	1750
unknown	Vikings	NO	1150
unknown		SE, NO, IE	2000
unknown		DK, SE, AL	3500
unknown		NL, BY	3500
unknown	Saxons	NL, BY	1500
Lincolnshire			
unknown		SE, BG	3000
unknown			

unknown			
unknown		LT	1450
Orkney	Viking aDNA		
unknown	Vikings	NO	1150
Orkney	Angles?	SE, DE	1900
Lancashire			
unknown		UA, FR	2000
Isle of Man	Viking aDNA		
unknown	Vikings	SE	1750
Hertfordshire			
unknown	Early IE	various	4600
unknown			
Kent			
York		EE, FI	3900
Worcestershire			
unknown			
unknown		ES	3700
London		SE, DE, GR	3300
unknown		PT [IE int.]	3200
Fife			
Argyll			
unknown			
Kintyre	Scottish tribe booming from 1100 yBP		
Argyll		TR [IE int.]	3100
Argyll			
unknown			
Perthshire			
North Yorkshire		DE, IT [JP int.]	3700
unknown			
unknown		DE, IT	2800
Staffordshire		SE, FR	3500
unknown			
unknown		NO	3700
unknown		NO, SE	3000
unknown	Vikings	SE	1250
unknown			
unknown		HU, DE, SE	3400
unknown			
Norfolk		DE, AL	2800
unknown	Saxon	DE, FI, IE	1750
unknown			
unknown		FI	1450
unknown			
unknown	Saxon	DE, FI, IE	1750
Inverness		DE SE FI NI	2500

Ayrshire		DE, SE, FI, NL	2300
unknown	Saxon	NL	1400
unknown		ES	3300
Oxfordshire	Viking aDNA	NO descendant	
unknown		PL	2300
unknown		PL [DE int.]	2700
unknown	Saxons	NL	1550
unknown		NL, RU	3000
unknown		SE	2200
Aberdeenshire		various	4200
unknown		EE, DE	2100
Lancashire		EE, DE	2300
Herefordshire			
unknown	Saxons	DE	1400
unknown		FR, SE, PT	3400
unknown		FR	2300
unknown			
Staffordshire		SE, PT [NO int.]	3400
unknown			
unknown			
Nottinghamshire		SE, PT [NO-FI-EE-NL int.]	3100
unknown			
unknown		PL	2900
unknown		SE, NL, IE	2700
unknown			
Dorset			
Isle of Wight		SE [NL int.]	2300
unknown			
Somerset			
Essex		BE	3800
unknown	Angles	DK	1600
unknown		AT	2000
unknown		DE	1900
unknown			
unknown			
Lancashire			
Dunbartonshire			
unknown			
unknown	Early IE (later migrating to Continent)	various / all L48 [DE, SE, FI int.]	4600
Fife			
unknown			

unknown			
unknown			
Renfrewshire			
unknown			
unknown			
unknown		DE, PL, CZ	3300
unknown	Saxons	DE [IE int.]	1600
unknown			
unknown			
unknown			
unknown	Celtic tribe in England?	DE, PL, CZ, IT	3600
Reading			
unknown			
unknown			
Aberdeenshire			
unknown			
unknown		SE, FR	3500
Argyll			
Moray			
Angus		SE, FR [IE int.]	3000
Gloucestershire		DK (aDNA)	2400
unknown		RU	2600
unknown		RU	2600
Kent			
unknown		SE [PL int.]	2600
unknown			
Orkney	Vikings	DK (aDNA)	1100
unknown		DE, FR	2500
Northamptonshire		FR	1550
unknown			
unknown			
unknown	Saxon or Belgae tribe	DE [PT, Ashkenazi int.]	2600
Wiltshire			
unknown			
Derbyshire			
unknown		DE, CH	2400
unknown		DE	2100
unknown		DE	2100
Dorset	Angles	DK	1800
unknown		NO	1850
unknown			
unknown		DE	1950
unknown			
unknown		DE	2900
Fife		PL	2200

Aberdeenshire		SE	2700
unknown		FI	3600
unknown		SE, DE	2300
York		FI, DE	2300
unknown		DE	2300
unknown		DE	2000
unknown		SE, DE, UA	3400
Lanarkshire	Vikings	FI	750
unknown		various	3400
Lanarkshire			
Suffolk		SE, NO	2800
unknown		SE	2400
Warwickshire		NL, DK, NO	2900
unknown		NL, DK, NO	1900
unknown			
unknown		various	2800
unknown			
unknown			
Lincolnshire		SE [FR, FI int.]	2200
Kent			
unknown			
unknown			
Aberdeenshire	Vikings	FI	1500
unknown			
unknown			
Herefordshire		NO, NL, UA, FI	2100
unknown		SE	2100
unknown			
North Yorkshire		NO	2400
unknown			
unknown			
unknown			
Glasgow		DE, DK, SE [DE int.]	2500
unknown			
London			
unknown			
unknown		DE	1950
unknown			
Durham (Northum.)		DE [IE int.]	1200
Caithness			
unknown		various	2800
unknown			

unknown			
unknown		various	
unknown		[Friesland,	2800
unknown		Bretagne int.]	
unknown			
Lincolnshire			
Leeds (Yorkshire)		DE, FR, SE, FI	2800
unknown			
unknown		DE	1250
unknown		SE, FI, DE, NL	2300
Suffolk		FR (aDNA)	4200
Durham (Northum.)		various	4500
Fife	Bell Beaker	various [IE, AZE	4500
Midlothian	aDNA in Moray	int]	
unknown		IT, BE	2400
unknown		UA	700
Glasgow		Various	4400
unknown		Various	4300
unknown			
York		FR	2000
unknown		SE, AT	3400
unknown	Vikings	NO	1650
Stirlingshire	Vikings	NO, SE, IZ (aDN	1500
unknown	Vikings	DK	1500
unknown	Vikings	NO	1250
Lincolnshire	Vikings	DK	1050
unknown	pre-proto-Celtic	various	4500
unknown			
unknown	pre-proto-Celtic	RU, IT (aDNA)	3700
unknown		[IZ int.]	
unknown		various	4500
unknown	Angles/Jutes?	DK	2200
unknown		DE, NL, CZ [IE	3700
unknown		int.]	
unknown		DE, NL, CZ	3100
unknown		SE (aDNA)	2100
York			
unknown			
Lincolnshire		DE, NL, CZ [SE,	3100
Devon		IE int.]	
Devon			
Devon			
unknown	pre-proto-Celtic	various	4500
unknown	pre- proto- Celtic	IT, GR, SE	3000

unknown	pre-Proto-Celtic	IT, GR, SE	3900
unknown	pre-Proto-Celtic	various	4500
unknown	pre-Proto-Celtic	various	4500
Lanarkshire			
Selkirkshire (Bord...	Hallstatt?	SE, BY	3000
Gloucestershire	pre-Proto-Celtic	IT	4300
unknown	Hallstatt?	IT	3100
unknown	Hallstatt?	ES	3300
unknown	Hallstatt?	FR, IT	3400
unknown	pre-Proto-Celtic	ES	3900
unknown	Hallstatt?	IT	3300
unknown	Hallstatt?	IT	3400
London	Hallstatt?	IT	3000
unknown	pre-Proto-Celtic	FI	3900
unknown	pre-Proto-Celtic	var. [IE, SE int.]	4500
Shetland	Hallstatt?	HU [IE int.]	3300
unknown			
Dorset		IT, SRB	3700
Somerset			
unknown	pre-Proto-Celtic	various	4300
unknown	pre-Proto-Celtic	various	4500
unknown	pre-Proto-Celtic	various	4500
unknown	pre-Proto-Celtic	various	4500
unknown		ES	3000
Oxfordshire	pre-Proto-Celtic	various	4500
Argyll	pre-Proto-Celtic	PT, NL	4100
unknown	Hallstatt?	DE	3300
unknown	Saxons	DE	1850
unknown			
unknown	pre-Proto-Celtic	various	4500
unknown			
Lanarkshire	La Tene/Roman	IT [IE int.]	2500
unknown		BE	3600
unknown		BE	3200
unknown			
unknown	Hallstatt?	DE	3100
Suffolk			
unknown			
Lanarkshire/Renf	pre-Proto-Celtic	IT, DE	3900
unknown	Hallstatt?	FR, FI	3300
London	Hallstatt?	FR	2800
unknown		NL	3700
unknown		NL	3700
Lancashire			
unknown	pre-Proto-Celtic	various	4500

Glasgow	pre-proto-Celtic	CZ, IT	3800
Midlothian unknown	pre-proto-Celtic	IT, DE, SE	4500
Scottish Borders unknown	pre-proto-Celtic	PL, FR, DE, DK	4500
unknown	Gaulish	FR	2200
unknown	Hallstatt?	FR, DE	2900
unknown		SE, FR, DK	3600
unknown		FR	3300
unknown	pre-proto-Celtic	various	4000
unknown			
unknown	pre-proto-Celtic	various	4000
West Lothian unknown		FR, LT, ES	3500
Devon unknown		ES	1700
Lancashire unknown		BE	2800
unknown		IT	3300
unknown		IT	3500
unknown		various	3700
unknown		SE, IT, IE	3700
unknown		ES	3700
unknown			
unknown	Gaulish	IT, CH	2200
unknown			
unknown	Hallstatt?	SE, AT	3100
unknown	pre-proto-Celtic	various	4500
Cornwall	pre-proto-Celtic	various [IE int.]	4300
unknown		AT, RU	3800
unknown		FR, FI	3100
unknown		DE	3400
Cumbria		NL	2800
unknown			
unknown		FR, ES, CZ	3300
unknown			
unknown		FR, IT, SE, PL	3600
unknown		FR	3300
unknown	Gaulish	FR	1950
unknown	Hallstatt?	PL	3200
unknown	Gaulish	FR	2100
unknown	Hallstatt?	FR, RU, HU	2800
unknown	Hallstatt?	GR	3100
unknown	Angles? Vikings?	SE	2100

unknown			
unknown			
Essex		DE, FR, IT	3600
Essex			
Essex			
unknown	Hallstatt?	DE, IT [FR breton]	3100
unknown			
unknown	pre-proto-Celtic	CH, FI	4000
West Lothian	pre-proto-Celtic	DE [IE int.]	3800
unknown		ES	3300
unknown		ES	2900
unknown			
unknown	Hallstatt?		
unknown	(BY33658		
unknown	TMRCA 41 SNP	RU, DE	3200
unknown	in Britain), 8 BigY		
unknown			
Kent	pre-proto-Celtic	all DF27	4500
unknown	pre-proto-Celtic	all DF27	4500
unknown		PT	2500
unknown	pre-proto-Celtic	all DF27	4500
unknown	pre-proto-Celtic	ES (BrA aDNA)	4300
unknown	pre-proto-Celtic	all DF27	4500
unknown	pre-proto-Celtic	all DF27	4500
unknown		FR, SE	3400
Midlothian			
unknown	pre-proto-Celtic	all DF27 [RU int.]	4500
London	Gaulish	FR	1950
unknown			
Caithness	pre-proto-Celtic	CZ	4100
unknown		Sardinia	3800
unknown			
Aberdeenshire			
Roxburgh	pre-proto-Celtic	all DF27 [CH, NO int.]	4500
Roxburgh			
unknown			
unknown		ES	2400
Banffshire	pre-proto-Celtic	all DF27 [FR, Azc	4500
Dundee			
Vale of Glamorgan	pre-proto-Celtic	all DF27 [ES int.]	4500
unknown			
unknown	pre-proto-Celtic	all DF27 [ES,PT,UA,IT	4500

unknown		int.]	
unknown		ES (Galicia) -int?	3600
unknown	pre-proto-Celtic	Sardinia, ES int.	4500
Kent			
Devon		Portuguese migrar	PT 850
unknown	pre-proto-Celtic	all DF27 [IE int.]	4500
unknown			
Buckinghamshire	pre-proto-Celtic	all DF27 [FR-ES-IT-PT int.]	4500
Essex			
Devon			
unknown			
unknown	pre-proto-Celtic	all DF27 [FI-SE int.]	4500
unknown			
unknown			
unknown	pre-proto-Celtic	all DF27 [FR int.]	4500
unknown			
unknown			
unknown	pre-proto-Celtic	all DF27 [FR-ES-NO-PT int.]	4500
unknown			
Lancashire		ES	3900
unknown		IT	2300
Hampshire	pre-proto-Celtic	all DF27	4500
unknown			
unknown		IT, CZ, FR, SE	3500
unknown			
unknown		FR	3100
unknown			
unknown	Gaulish tribe or Norman family?	FR	1900
unknown			
unknown			
Northamptonshire			
unknown	pre-proto-Celtic	BSQ, SE-DK-DE int.	4500
unknown			
unknown			
York		FR	2500
unknown		ES	2500
Dumfries	pre-proto-Celtic	ES, PT	4500
unknown	pre-proto-Celtic	Sardinia	4500
unknown			
North Yorkshire			
Midlothian	pre-proto-Celtic,		

Midlothian	early mediaval tribe in Nothumbria?	all DF27 [SE, IE, PT int.]	4500
unknown			
unknown			
unknown			
unknown	pre-proto-Celtic	all DF27 [ES, LT-PL int.]	4500
unknown		ES, PL	3200
unknown		IT	4100
unknown		ES, PT	4000
East Yorkshire		ES, PT	4100
unknown		ES, PT	4000
unknown		ES	2900
unknown			
Northamptonshire	pre-proto-Celtic	IT, PT [IE int.]	4100
unknown			
unknown	pre-proto-Celtic	PT	4200
unknown	pre-proto-Celtic	all Z195	4500
unknown		FR, ES	3500
unknown			
unknown		FR, IT	3400
unknown			
unknown		ES, PT, IT	3500
unknown		ES, IT	2400
unknown	Roman era	IT	1700
unknown			
unknown		DE	2900
unknown			
unknown		DE, UA	2100
unknown		FR, NL	3600
Manchester		PL [IE int.]	1400
Norfolk		all Z295	4500
unknown		ES, PT	3400
Lancashire		DE	3000
unknown		PT	3000
unknown			
unknown		DK, FR	3200
unknown			
unknown		FR	3200
unknown			2800
unknown		IT	3700
Fife		DE	3100
unknown		various	4500
unknown			
unknown	pre-proto-Celtic	all Z198	4500

unknown			
Kintyre			
Ayrshire			
unknown			
Western Isles	Picts?	all Z198 [FR, IE int.]	4500
Caithness			
Moray			
Argyll and Bute			
Kent		PL, SK (aDNA)	3200
unknown		UA	1650
unknown			
unknown		FR, ES, PT	3300
unknown			
unknown		ES	2900
unknown		IT	2900
Devon		FR	3500
Banffshire			
Cornwall			
Oxfordshire		PT [DE int.]	3100
unknown			
Suffolk		various	3300
Liverpool		various	3300
unknown		various	3300
unknown		ES	2200
unknown		various	2900
Kent		LV	2900
Liverpool		BE	2600
Wiltshire		ES	2900
unknown		BE, CH	2700
<hr/>			
West Sussex		<i>closest internal</i>	
unknown	Bell Beaker survival	FR	450
unknown		IE	2100
unknown		Bretagne, Pfalz	4300
unknown		ES	3700
unknown		various	4500
Shetland			
Berwickshire			
unknown		FR	4500
unknown			
unknown		SE (aDNA)	3900
unknown			
unknown		FR (Calais)	4100
unknown			
unknown			
London		RO	2900
unknown			

unknown			
Oxfordshire			
unknown			
unknown		FR	4100
unknown		DE, DK	3700
unknown			
unknown		ES	3500
unknown			
Oxfordshire			
unknown		FR	4100
Oxfordshire		US colonial desc.	
Northumberland			
unknown		FR	3800
unknown			
unknown		IE	800
unknown		FR	3400
London		FR	1100
unknown			
Lanarkshire			
Isle of Man			
Inverness	Britons taken by Vikings	NO (aDNA)	1300
Inverness			
Dunbartonshire		FR	3500
unknown	Britons taken by Vikings		
Norfolk		IE, FI, SE	1350
unknown			
unknown		FR	4100
unknown			
Oxfordshire			
Lanarkshire		FI	3400
Dumfries		UA	3500
unknown			
unknown		PT	3900
unknown			
unknown			
unknown			
Ayrshire		IE	4100
unknown		FR, IE, DE	3700
Buckinghamshire			
unknown			
Inverness		IE	1250
Hertfordshire		FR, IE	3600
unknown		IE	1100
Orkney			
unknown			
unknown			
unknown		PL, PT	3600

unknown			
unknown			
unknown			
Somerset			
unknown		FR, PT	3400
unknown			
Dundee			
unknown			
Midlothian			
Dumfries			
unknown		IE	1000
unknown			
unknown			
Somerset			
unknown			
unknown			
unknown			
Cheshire		NO, IE	4100
unknown			
unknown		NL, SE	3200
unknown		IE	1250
Angus			
Stirlingshire			
East Sussex		IE	4100
unknown		Bretagne	3800
Angus			
Isle of Man		IE	3600
Northumberland		BE/NL	1100
unknown		BE/NL	2800
Liverpool		BE/NL	1950
unknown		FR (Calais)	500
Western Isles	Dal Riata settlers	IE	1650
Dumfries		IE	1700
unknown	Irish settlement	IE	1500
unknown			
unknown	Dal Riata settlers	IE	1500
unknown			
unknown	Irish settlement	IE	1000
Moray			
unknown		SE	2400
unknown	Irish settlement	IE	950
Angus			
unknown			
unknown		IE	2600

unknown		IE	3000
Cornwall		IE / UA	3800/2000
Islay	Dal Riata settlers	IE / DE	1800/800
Manchester		IE	1800
unknown	Irish settlement	IE	1800
Orkney			
unknown			
Glasgow			
Somerset		IE, PT	3600
unknown			
unknown			
Hampshire		IE, ES	4100
unknown			
unknown			
Hampshire			
Durham (Northum)		RU, UA, LV, DK	3700
unknown		RU, UA, LV, DK	3700
Cornwall		NL	3400
unknown			
unknown			
unknown		IT, ES	3800
unknown			
Dumfries			
unknown			
Perthshire		PT	3600
unknown			
unknown		IZ aDNA	2500
unknown		IE	3000
unknown			
unknown		BE/FR; IE	3400
unknown			
unknown			
Ayrshire	Irish immigration	IE	200
unknown		PL	1750
unknown			
unknown			
unknown			
unknown		DE	3600
Gloucestershire			
unknown			
unknown			
unknown			
Kirkcudbright			
unknown			

Essex			
Glasgow	IE		1300
Lancashire			
unknown			
Kintyre	IE		650
unknown			
unknown			
unknown	IE, SE		1250
Inverness			
unknown			
Argyll			
unknown			
unknown			
Ayrshire	IE		550
Galloway	IE		150
unknown	IE		1700
unknown			
Angus			
Inverness			
unknown			
Perthshire			
Lincolnshire			
unknown			
unknown			
unknown			
Aberdeenshire			
unknown	NO		1550
unknown			
unknown			
unknown			
unknown			
Orkney			
unknown			
Glasgow			
unknown			
Lanarkshire	Scottish or Pictish tribe (ancestor 1800 yBP)	SE	500
Inverness			
Perthshire			
unknown			
unknown	NO/IE		1300/500
unknown			
Moray			
unknown			
unknown			

Fife		
Fife		
unknown		
unknown		
unknown		
unknown		
unknown		
unknown		
unknown		
unknown		
unknown		
unknown		
Stirlingshire		
Argyll		
unknown		
Fife		
Sutherland		
Perthshire		
Western Isles		
Argyll		
Inverness		
unknown		
Inverness		
Easter Ross	IE	900
unknown	IE, SE	1150
unknown		
unknown		
unknown	DE	1700
unknown	IE	1600
Inverness	IE	1600
unknown		
Dorset	NO	1950
Warwickshire	BE/NL	3900
unknown		
unknown	MOR	3900
unknown		
York	IE	1100
Aberdeenshire	BE/NL	2000
unknown	IE	2600
Skye		
unknown		
Midlothian		
Roxburgh		
Aberdeenshire	IE	1050

unknown			
unknown			
Wester Ross (Isle:			
Perthshire	Pictish tribe?		
Glasgow	(TMRCA 2000		
Angus	yBP)		
unknown		IE	1350
Moray			
Moray			
Glasgow			
unknown		DK	1550
Dumfries		IE	800
Scottish Borders		IE	600
North Yorkshire			
unknown		IE	1650
unknown		IE	700
Dorset			
unknown		IE	2200
unknown			
unknown		NL	4100
unknown		IE, Bretagne	3400
unknown		ES, PT	2900
unknown			
Argyll			
Cornwall			
unknown			
Aberdeenshire	Irish Dalcassians	IE	1500
unknown		IE	1300
unknown			
Ayrshire			
Kirkcudbright			
unknown			
unknown			
Isle of Man		IE	900
Lincolnshire			
Hampshire			
Cornwall			
unknown			
unknown			
Argyll			
Derbyshire			
unknown			
unknown			
unknown		IE	1000

unknown		IE	1900
Scottish Borders		RU	1300
Lancashire			
Isle of Man			
Perthshire			
Lanarkshire			
Lancashire			
unknown			
unknown			
Caithness		IE	1700
Stirlingshire	Irish immigrant	IE	800
Ayrshire		IE	4100
Skye			
Kent			
Herefordshire			
unknown			
unknown			
unknown			
Kirkcudbright			
unknown			
Aberdeenshire			
unknown			
unknown			
Midlothian		IE	950
South Yorkshire			
Perthshire	Britonic tribe	IE	1650
unknown	(Strathclyde?)		
Lanarkshire	TMRCA 1650		
unknown	yBP		
unknown			
unknown			
Glasgow		IE	750
unknown			
unknown			
unknown			
Lincolnshire			
unknown			
unknown			
unknown			
unknown			
unknown	Irish immigrant	IE	2200
unknown	Irish immigrant	IE	800
unknown			

Orkney		FR	4000
unknown			
unknown		SE	1750
unknown		IE	275
Ayrshire			
Moray			
unknown			
unknown			
Fife		IT	2800
unknown			
Inverness		IE	2000
Angus			
unknown			
unknown			
West Lothian			
unknown			
Banffshire			
Cambridgeshire			
unknown			
unknown			
unknown			
unknown			
unknown			
unknown			
unknown			
Cornwall			
unknown			
unknown			
unknown		IE	950
unknown			
Merseyside	Irish immigrant	IE	900
unknown			
Aberdeenshire			
Kinross (Perth)			
unknown			
Worcestershire			
Perthshire			
unknown			
unknown		IE	1950
Liverpool			
Ayrshire		IE	450
unknown			
unknown			
Dorset			

unknown			
unknown			
unknown		IE	350
Isle of Man		IE	1500
Inverness		IE	1750
Western Isles		IE	1050
unknown		IE	650
unknown		IE	1400
unknown		IE	1750
Fife		IE	1050
unknown			
Inverness		IE	1800
unknown		IE	1800
Dumfries		IE	1800
Devon		IE	500
unknown		IE	1500
unknown		IE	375
Dumfries/Galloway		IE	1150
unknown			
unknown			
Dunbartonshire		IE /IE int.	1450/800
Ayrshire			
Perthshire	Irish tribe of	IE	1450
Isle of Man	Connachta, Irish	IE	1400
Ayrshire	immigration	IE	900
Renfrewshire		IE	900
Newcastle/Tyne		IE	
unknown		IE	1300
Banffshire		IE	1500
unknown			
Inverness		IE	1500
unknown		IE	800
unknown			
Skye		IE	1100
Islay			
Lanarkshire		IE	500
Ayrshire		IE	500
West Lothian		IE [FR int]	1700
Ayrshire		IE	1700
London		IE	1700
unknown		IE	1700
Galloway		IE	700
Galloway			
Banffshire		IE	1700

Haplogroup/County	Unk IE	Kerry	Cork	Limerick	Tipperary	Waterford	Clare	Galway	Roscommon	Mayo	Sligo	Leitrim	Longford	Westmeath	Meath	Louth	Dublin	Kildare	Offaly	Laois
A1a																				
E1b1a-M2	2												1							
E1b1b-M35>V12	1		1																	
E1b1b-M35>V22	2																			
E1b1b-M35>V13	1									1										
E1b1b-M35>L19	1																			
E1b1b-M35>M34			1																	
G2a-P15>L91	1																			
G2a-P15>L30 (xL497)	1		1					1						1						
G2a-P15>L30>L497	3										1									
H2																				
I1(xL22,Z58)	3					2														1
I1-L22	7		1	3		1								1						
I1-Z58	11		1		1		1	1						1			1			
I2a1-P37>CTS595	4	3	3	1		1			1											
I2a1-P37>L233	3		2							1	1									
I2a1-P37>M423	16	1	8	3	2		2	3	3	2			1	2	1					
I2b2-L38	1		2									1				1				
I2b1-M223>L1229	1									1										
I2b1-M223>M284	31						1	3				1	1	2	1	1				
I2b1-M223>P78	8		2					1									2			2
J1-P58	1												1							
J1-Z1828	1																			
J2a-M67				1							1									
J2a-L26																				
J2b-L283																				
T-M70				1																
Q1a-M25																				
Q1b-L245	2																			
R1a-M420			1																	
R1a-L664				1	1	1		1	1											
R1a-Z283	1																			
R1a-Z284	4		1																	
R1b-Z2106	3											1								
R1b-Z2118	2																			
R1b-A8053																				
R1b-U106	11	1	2			2									1		3			
R1b-P312*					1						2									
R1b-U152(xL2)	4		1																	
R1b-U152>L2	12		10			1			1		1						2			
R1b-DF27	10	1	2	1	4			1	1		1		1		2		1			
R1b-L21>DF13*	8		1	1	3		1			1				1						3
R1b-DF13>Z255	7	2	1	2	3	1	1	2		1								1		
R1b-DF13>FGC11134	7	1	8			1	1													
R1b-DF13>Z251	2		1		1			1	1											
R1b-DF13>CTS2501	4							1								1				
R1b-DF13>L1335	6				1							2				2				

Kilkenny	Carlow	Wicklow	Wexford	Cavan	Monaghan	Donegal	Fermanagh	Tyrone	Derry	Armagh	Antrim	Down	unk.NIE	Total HG	Munster	Connacht	Leinster	Ulster	Laigin	Osraige
						1								1	0	0	0	1	0	0
														3	0	0	1	0	0	0
														2	1	0	0	0	0	0
		1	2									1		6	0	1	3	1	3	0
										1				2	0	0	0	1	0	0
														1	1	0	0	0	0	0
														1	0	0	0	0	0	0
		1									1		1	6	1	1	1	2	0	0
														4	0	1	0	0	0	0
			1											1	0	0	1	0	1	0
1				1	3	1	1		1		1	1		8	2	0	1	2	0	1
					1	2					2			24	5	0	2	10	1	0
											2			22	3	1	3	4	0	1
					1						1	1		16	8	1	0	3	0	0
1				1	1	2		2	1	1	3	2	1	20	2	2	0	13	0	0
											2			48	16	8	5	3	0	1
														5	2	1	1	0	0	0
1				1	2	1	1	1	1	1	1	1		5	0	1	0	3	0	0
		1	2								5	6	2	63	1	4	6	21	0	1
						1					1		1	23	2	1	7	5	3	2
												1		3	0	0	1	1	0	0
					1									1	0	0	0	0	0	0
									1					3	1	1	0	1	0	0
											2			3	0	0	0	3	0	0
										1				1	0	0	0	1	0	0
	1													2	1	0	1	0	1	0
											1			1	0	0	0	1	0	0
								1						2	0	0	0	0	0	0
														1	1	0	0	0	0	0
														6	3	2	0	1	0	0
														1	0	0	0	0	0	0
				2	1		1	4			2	3		18	1	0	0	13	0	0
						1						1		6	0	1	0	2	0	0
						1								3	0	0	0	1	0	0
3		1		1	1	1	1				1			2	0	0	0	2	0	0
1											4		3	35	5	0	8	11	1	3
										1	1			6	1	2	1	2	0	1
				1										6	1	0	0	1	0	0
			2			1						1		31	11	2	4	2	2	0
1				1		1				3	4	1		36	8	3	5	10	0	1
1						1	1				1	1		24	6	1	5	4	0	4
		3	3						1					28	10	3	7	1	7	0
				1	2									21	11	0	0	3	0	0
	1													7	2	2	1	0	1	0
											1	2		9	0	1	1	3	0	0
		1				2					2	1		17	1	2	3	5	1	0

				1	1	1	3	1	1	1	1	2		30	4	2	1	11	0	0
2	1			2	1	2								49	19	6	7	5	2	2
2		1	1		4		1		2	1	2	2	1	54	16	5	11	13	2	4
					1	1					1			12	2	3	1	3	0	0
	3			2	2	17	1	2	5	2	6	3	1	143	4	23	28	41	5	2
13	6	9	11	14	20	38	10	11	15	14	48	29	11	824	152	81	116	210	30	23
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	2,6%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,1%	0,0%	0,0%	0,0%	0,5%	0,0%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,4%	0,0%	0,0%	0,9%	0,0%	0,0%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,2%	0,7%	0,0%	0,0%	0,0%	0,0%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,2%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
0,0%	0,0%	11,1%	18,2%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	3,4%	0,0%	0,7%	0,0%	1,2%	2,6%	0,5%	10,0%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	7,1%	0,0%	0,0%	0,0%	0,2%	0,0%	0,0%	0,0%	0,5%	0,0%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,1%	0,7%	0,0%	0,0%	0,0%	0,0%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,1%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	2,1%	0,0%	9,1%	0,7%	0,7%	1,2%	0,9%	1,0%	0,0%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,5%	0,0%	1,2%	0,0%	0,0%	0,0%	0,0%
0,0%	0,0%	11,1%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,1%	0,0%	0,0%	0,9%	0,0%	3,3%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	2,1%	3,4%	0,0%	1,0%	1,3%	0,0%	0,9%	1,0%	0,0%	4,3%
0,0%	0,0%	0,0%	9,1%	7,1%	15,0%	2,6%	10,0%	0,0%	6,7%	0,0%	4,2%	0,0%	9,1%	2,9%	3,3%	0,0%	1,7%	4,8%	3,3%	0,0%
7,7%	0,0%	0,0%	0,0%	0,0%	0,0%	5,3%	0,0%	0,0%	0,0%	0,0%	4,2%	0,0%	0,0%	2,7%	2,0%	1,2%	2,6%	1,9%	0,0%	4,3%
0,0%	0,0%	0,0%	0,0%	0,0%	5,0%	0,0%	0,0%	0,0%	0,0%	0,0%	2,1%	3,4%	0,0%	1,9%	5,3%	1,2%	0,0%	1,4%	0,0%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	5,0%	5,3%	0,0%	18,2%	6,7%	7,1%	6,3%	6,9%	9,1%	2,4%	1,3%	2,5%	0,0%	6,2%	0,0%	0,0%
7,7%	0,0%	0,0%	0,0%	7,1%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	4,2%	0,0%	0,0%	5,8%	10,5%	9,9%	4,3%	1,4%	0,0%	4,3%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,6%	1,3%	1,2%	0,9%	0,0%	0,0%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	6,7%	7,1%	2,1%	0,0%	0,0%	0,6%	0,0%	1,2%	0,0%	1,4%	0,0%	0,0%
7,7%	0,0%	0,0%	0,0%	7,1%	10,0%	2,6%	10,0%	9,1%	6,7%	7,1%	10,4%	20,7%	18,2%	7,6%	0,7%	4,9%	5,2%	10,0%	0,0%	4,3%
0,0%	0,0%	11,1%	18,2%	0,0%	0,0%	2,6%	0,0%	0,0%	6,7%	7,1%	2,1%	0,0%	9,1%	2,8%	1,3%	1,2%	6,0%	2,4%	10,0%	8,7%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	3,4%	0,0%	0,4%	0,0%	0,0%	0,9%	0,5%	0,0%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,1%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	5,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,4%	0,7%	1,2%	0,0%	0,5%	0,0%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	6,7%	0,0%	4,2%	0,0%	0,0%	0,4%	0,0%	0,0%	0,0%	1,4%	0,0%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	7,1%	0,0%	0,0%	0,0%	0,1%	0,0%	0,0%	0,0%	0,5%	0,0%	0,0%
0,0%	16,7%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,2%	0,7%	0,0%	0,9%	0,0%	3,3%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	2,1%	0,0%	0,0%	0,1%	0,0%	0,0%	0,0%	0,5%	0,0%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,2%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,1%	0,7%	0,0%	0,0%	0,0%	0,0%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	9,1%	0,0%	0,0%	0,0%	0,0%	0,0%	0,7%	2,0%	2,5%	0,0%	0,5%	0,0%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,1%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
0,0%	0,0%	0,0%	0,0%	14,3%	5,0%	0,0%	10,0%	36,4%	0,0%	0,0%	4,2%	10,3%	0,0%	2,2%	0,7%	0,0%	0,0%	6,2%	0,0%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	2,6%	0,0%	0,0%	0,0%	0,0%	0,0%	3,4%	0,0%	0,7%	0,0%	1,2%	0,0%	1,0%	0,0%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	2,6%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,4%	0,0%	0,0%	0,0%	0,5%	0,0%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	2,6%	0,0%	0,0%	0,0%	0,0%	2,1%	0,0%	0,0%	0,2%	0,0%	0,0%	0,0%	1,0%	0,0%	0,0%
23,1%	0,0%	11,1%	0,0%	7,1%	5,0%	2,6%	10,0%	0,0%	0,0%	0,0%	8,3%	0,0%	27,3%	4,2%	3,3%	0,0%	6,9%	5,2%	3,3%	13,0%
7,7%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	7,1%	2,1%	0,0%	0,0%	0,7%	0,7%	2,5%	0,9%	1,0%	0,0%	4,3%
0,0%	0,0%	0,0%	0,0%	7,1%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,7%	0,7%	0,0%	0,0%	0,5%	0,0%	0,0%
0,0%	0,0%	0,0%	18,2%	0,0%	0,0%	2,6%	0,0%	0,0%	0,0%	0,0%	0,0%	3,4%	0,0%	3,8%	7,2%	2,5%	3,4%	1,0%	6,7%	0,0%
7,7%	0,0%	0,0%	0,0%	7,1%	0,0%	2,6%	0,0%	0,0%	0,0%	21,4%	8,3%	3,4%	0,0%	4,4%	5,3%	3,7%	4,3%	4,8%	0,0%	4,3%
7,7%	0,0%	0,0%	0,0%	0,0%	0,0%	2,6%	10,0%	0,0%	0,0%	0,0%	2,1%	3,4%	0,0%	2,9%	3,9%	1,2%	4,3%	1,9%	0,0%	17,4%

0,0%	0,0%	33,3%	27,3%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	6,7%	0,0%	0,0%	0,0%	0,0%	3,4%	6,6%	3,7%	6,0%	0,5%	23,3%	0,0%
0,0%	0,0%	0,0%	0,0%	7,1%	10,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	2,5%	7,2%	0,0%	0,0%	1,4%	0,0%	0,0%
0,0%	16,7%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,8%	1,3%	2,5%	0,9%	0,0%	3,3%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	2,1%	6,9%	0,0%	1,1%	0,0%	1,2%	0,9%	1,4%	0,0%	0,0%
0,0%	0,0%	11,1%	0,0%	0,0%	0,0%	5,3%	0,0%	0,0%	0,0%	0,0%	0,0%	4,2%	3,4%	0,0%	2,1%	0,7%	2,5%	2,6%	2,4%	3,3%	0,0%
0,0%	0,0%	0,0%	0,0%	7,1%	0,0%	2,6%	30,0%	9,1%	6,7%	7,1%	2,1%	6,9%	0,0%	0,0%	3,6%	2,6%	2,5%	0,9%	5,2%	0,0%	0,0%
15,4%	16,7%	0,0%	0,0%	14,3%	5,0%	5,3%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	5,9%	12,5%	7,4%	6,0%	2,4%	6,7%	8,7%
15,4%	0,0%	11,1%	9,1%	0,0%	20,0%	0,0%	10,0%	0,0%	13,3%	7,1%	4,2%	6,9%	9,1%	0,0%	6,6%	10,5%	6,2%	9,5%	6,2%	6,7%	17,4%
0,0%	0,0%	0,0%	0,0%	0,0%	5,0%	2,6%	0,0%	0,0%	0,0%	0,0%	2,1%	0,0%	0,0%	0,0%	1,5%	1,3%	3,7%	0,9%	1,4%	0,0%	0,0%
0,0%	50,0%	0,0%	0,0%	14,3%	10,0%	44,7%	10,0%	18,2%	33,3%	14,3%	12,5%	10,3%	9,1%	0,0%	17,4%	2,6%	28,4%	24,1%	19,5%	16,7%	8,7%
38,5%	83,3%	55,6%	36,4%	42,9%	50,0%	63,2%	60,0%	27,3%	60,0%	28,6%	29,2%	37,9%	18,2%	0,0%	47,8%	49,3%	59,3%	56,0%	42,4%	60,0%	52,2%
15,4%	0,0%	11,1%	0,0%	14,3%	15,0%	2,6%	10,0%	9,1%	13,3%	14,3%	18,8%	24,1%	18,2%	0,0%	16,7%	17,8%	18,5%	11,2%	14,3%	3,3%	8,7%
30,8%	66,7%	44,4%	36,4%	35,7%	50,0%	52,6%	20,0%	18,2%	53,3%	21,4%	18,8%	17,2%	18,2%	0,0%	37,3%	40,8%	49,4%	46,6%	31,4%	53,3%	34,8%
7,7%	16,7%	11,1%	0,0%	7,1%	0,0%	10,5%	40,0%	9,1%	6,7%	7,1%	10,4%	20,7%	0,0%	0,0%	10,6%	8,6%	9,9%	9,5%	11,0%	6,7%	17,4%
53,8%	83,3%	66,7%	36,4%	57,1%	65,0%	65,8%	70,0%	36,4%	73,3%	42,9%	47,9%	62,1%	36,4%	0,0%	64,6%	67,1%	77,8%	67,2%	56,7%	63,3%	60,9%
7,7%	0,0%	0,0%	18,2%	14,3%	0,0%	5,3%	0,0%	0,0%	0,0%	21,4%	8,3%	6,9%	0,0%	0,0%	8,9%	13,2%	6,2%	7,8%	6,2%	6,7%	4,3%
0,0%	0,0%	0,0%	0,0%	0,0%	5,0%	5,3%	0,0%	27,3%	6,7%	7,1%	6,3%	6,9%	9,1%	0,0%	3,2%	3,3%	4,9%	0,0%	6,7%	0,0%	0,0%
38,5%	0,0%	22,2%	18,2%	7,1%	5,0%	15,8%	10,0%	0,0%	6,7%	14,3%	20,8%	3,4%	36,4%	0,0%	12,0%	8,6%	4,9%	17,2%	12,9%	13,3%	34,8%
0,0%	0,0%	0,0%	9,1%	21,4%	20,0%	2,6%	20,0%	36,4%	6,7%	0,0%	8,3%	10,3%	9,1%	0,0%	5,1%	3,9%	0,0%	1,7%	11,0%	3,3%	0,0%
0,0%	16,7%	11,1%	18,2%	0,0%	5,0%	0,0%	0,0%	0,0%	6,7%	14,3%	6,3%	3,4%	9,1%	0,0%	4,1%	3,3%	4,9%	4,3%	4,3%	13,3%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	3,4%	0,0%	0,5%	0,7%	0,0%	0,9%	0,5%	0,0%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	2,6%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,5%	0,0%	0,0%	0,9%	0,5%	0,0%	0,0%

Meath	Airgialla	Ulaid	Connacht	Thomond	Desmond	Breifne	Ailech
0	0	0	0	0	0	0	1
1	0	0	0	0	0	0	0
0	0	0	0	0	1	0	0
0	0	0	0	0	0	0	0
0	0	1	1	0	0	0	0
0	1	0	0	0	0	0	0
0	0	0	0	0	1	0	0
0	0	0	0	0	0	0	0
1	0	1	1	0	1	0	0
0	0	0	1	0	0	0	0
0	0	0	0	0	0	0	0
0	0	2	0	0	2	0	0
1	3	2	0	3	2	1	3
2	0	2	1	1	2	0	2
0	1	2	1	1	7	0	0
0	2	5	2	0	2	0	5
4	0	2	8	5	11	1	0
1	0	0	0	0	2	1	0
0	1	1	1	0	0	0	1
5	3	11	3	1	0	2	4
2	1	1	1	0	2	0	2
1	0	1	0	0	0	0	0
0	0	0	0	0	0	0	0
0	1	0	1	1	0	0	0
0	0	2	0	0	0	0	1
0	1	0	0	0	0	0	0
0	0	0	0	1	0	0	0
0	0	1	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	1	0	0
0	0	0	2	1	2	0	1
0	0	0	0	0	0	0	0
0	1	5	0	0	1	2	5
0	0	1	0	0	0	1	1
0	0	0	0	0	0	0	1
0	0	1	0	0	0	0	1
4	1	4	0	0	5	1	2
0	1	1	2	0	1	0	0
0	0	0	0	0	1	1	0
2	0	1	2	0	11	0	1
4	3	5	3	1	7	1	1
1	0	2	1	2	4	0	2
0	0	0	3	3	7	0	1
0	2	0	0	1	10	1	0
0	0	0	2	0	2	0	0
1	0	3	1	0	0	0	0
2	0	3	0	0	1	2	2

1	1	3	1	1	3	2	6
3	1	0	5	7	12	3	2
5	5	4	5	4	12	0	3
1	1	1	2	0	2	1	1
21	4	9	21	1	3	4	25
63	34	77	71	34	118	24	74
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	1,4%
1,6%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,8%	0,0%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
0,0%	0,0%	1,3%	1,4%	0,0%	0,0%	0,0%	0,0%
0,0%	2,9%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,8%	0,0%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
1,6%	0,0%	1,3%	1,4%	0,0%	0,8%	0,0%	0,0%
0,0%	0,0%	0,0%	1,4%	0,0%	0,0%	0,0%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
0,0%	0,0%	2,6%	0,0%	0,0%	1,7%	0,0%	0,0%
1,6%	8,8%	2,6%	0,0%	8,8%	1,7%	4,2%	4,1%
3,2%	0,0%	2,6%	1,4%	2,9%	1,7%	0,0%	2,7%
0,0%	2,9%	2,6%	1,4%	2,9%	5,9%	0,0%	0,0%
0,0%	5,9%	6,5%	2,8%	0,0%	1,7%	0,0%	6,8%
6,3%	0,0%	2,6%	11,3%	14,7%	9,3%	4,2%	0,0%
1,6%	0,0%	0,0%	0,0%	0,0%	1,7%	4,2%	0,0%
0,0%	2,9%	1,3%	1,4%	0,0%	0,0%	0,0%	1,4%
7,9%	8,8%	14,3%	4,2%	2,9%	0,0%	8,3%	5,4%
3,2%	2,9%	1,3%	1,4%	0,0%	1,7%	0,0%	2,7%
1,6%	0,0%	1,3%	0,0%	0,0%	0,0%	0,0%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
0,0%	2,9%	0,0%	1,4%	2,9%	0,0%	0,0%	0,0%
0,0%	0,0%	2,6%	0,0%	0,0%	0,0%	0,0%	1,4%
0,0%	2,9%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
0,0%	0,0%	0,0%	0,0%	2,9%	0,0%	0,0%	0,0%
0,0%	0,0%	1,3%	0,0%	0,0%	0,0%	0,0%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,8%	0,0%	0,0%
0,0%	0,0%	0,0%	2,8%	2,9%	1,7%	0,0%	1,4%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
0,0%	2,9%	6,5%	0,0%	0,0%	0,8%	8,3%	6,8%
0,0%	0,0%	1,3%	0,0%	0,0%	0,0%	4,2%	1,4%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	1,4%
0,0%	0,0%	1,3%	0,0%	0,0%	0,0%	0,0%	1,4%
6,3%	2,9%	5,2%	0,0%	0,0%	4,2%	4,2%	2,7%
0,0%	2,9%	1,3%	2,8%	0,0%	0,8%	0,0%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,8%	4,2%	0,0%
3,2%	0,0%	1,3%	2,8%	0,0%	9,3%	0,0%	1,4%
6,3%	8,8%	6,5%	4,2%	2,9%	5,9%	4,2%	1,4%
1,6%	0,0%	2,6%	1,4%	5,9%	3,4%	0,0%	2,7%

R1a-L664	0	0	0	0	1	0	2	0	3
R1a-Z93	0	0	0	1	0	0	0	0	0
R1a-Z283*	1	0	1	0	0	0	0	0	0
R1a-M458	0	0	0	0	0	1	1	0	2
R1a-Z284	0	0	0	0	0	1	2	0	3
R1b*	0	0	0	0	0	0	1	0	1
R1b-Z2103	0	0	0	0	0	0	1	0	1
R1b-Z2118*	0	0	0	0	1	0	3	0	4
R1b-U106	3	0	3	3	0	3	5	2	10
R1b-P312*	0	0	0	0	0	0	0	0	0
R1b-L238	0	0	0	0	0	0	0	0	0
R1b-DF19	0	0	0	0	0	0	3	0	3
R1b-U152*	0	0	0	0	0	0	3	1	4
R1b-L2	2	1	3	0	0	3	1	1	5
R1b-DF27	4	1	5	4	0	2	5	1	8
R1b-L21(xDF13)	1	0	1	0	1	0	0	0	1
R1b-DF13*	9	0	9	0	1	2	2	2	7
R1b-DF13>Z255	0	0	0	0	0	0	0	0	0
R1b-DF13>FGC111	1	1	2	0	0	0	0	0	0
R1b-DF13>Z251	4	1	5	0	0	0	3	0	3
R1b-DF13>CTS250	2	0	2	0	0	1	1	0	2
R1b-DF13>L1335	0	0	0	0	0	0	0	0	0
R1b-DF13>DF1	2	0	2	0	0	0	1	0	1
R1b-DF13>Z253	2	2	4	0	0	0	2	0	2
R1b-DF13>DF21	7	0	7	1	0	0	0	0	0
R1b-DF13>DF49*	3	1	4	0	0	0	1	0	1
R1b-DF49>M222	1	0	1	0	0	0	1	1	2
TOTAL	70	12	82	17	12	27	79	22	140
R1b-L21 total	32	5	37	1	2	3	11	3	19
R1b-L21 total	###	41,67%	###	5,88%	###	###	13,92%	###	13,57%
I1+R1a+U106 total	16	2	18	11	5	13	33	6	57
Germanic total	###	16,67%	###	###	###	###	41,77%	###	40,71%
I2 Meso-Neol total	6	1	7	0	1	1	8	3	13
	8,57%	8,33%	8,54%	0,00%	8,33%	3,70%	10,13%	###	9,29%
Mediterranean total	11	2	13	5	2	9	19	8	38
Mediterranean total	15,7%	16,7%	15,9%	29,4%	16,7%	33,3%	24,1%	36,4%	27,1%
A1b	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
B	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
C-V86	0,0%	8,3%	1,2%	0,0%	0,0%	3,7%	0,0%	0,0%	0,7%
E1a-M132	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
E-M2	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	4,5%	0,7%
E-L19	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	1,3%	0,0%	0,7%
E-Z830	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	1,3%	4,5%	1,4%

E-V12, V65	1,4%	0,0%	1,2%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
E-V22	1,4%	0,0%	1,2%	0,0%	0,0%	0,0%	2,5%	0,0%	1,4%
E-V13	2,9%	8,3%	3,7%	0,0%	8,3%	0,0%	0,0%	4,5%	1,4%
G1	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
G2a-Z6553	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
G-pL91	1,4%	0,0%	1,2%	0,0%	8,3%	0,0%	0,0%	0,0%	0,7%
G-M406	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
G-L30*	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
G-L13	0,0%	0,0%	0,0%	0,0%	8,3%	0,0%	1,3%	0,0%	1,4%
G-L497	2,9%	0,0%	2,4%	11,8%	0,0%	0,0%	0,0%	0,0%	0,0%
H1	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	4,5%	0,7%
H2	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
I1*	0,0%	0,0%	0,0%	5,9%	0,0%	0,0%	0,0%	0,0%	0,0%
I1-Z63	0,0%	8,3%	1,2%	11,8%	8,3%	3,7%	1,3%	0,0%	2,1%
I1-pCTS6364*	2,9%	0,0%	2,4%	0,0%	0,0%	0,0%	3,8%	0,0%	2,1%
I1-L22	0,0%	0,0%	0,0%	5,9%	0,0%	11,1%	2,5%	4,5%	4,3%
I1-Z58	8,6%	8,3%	8,5%	11,8%	8,3%	7,4%	2,5%	13,6%	5,7%
I2c-L596	1,4%	0,0%	1,2%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
I2a1-CTS595	1,4%	8,3%	2,4%	0,0%	8,3%	0,0%	5,1%	4,5%	4,3%
I2a1-L233	0,0%	0,0%	0,0%	0,0%	8,3%	3,7%	2,5%	0,0%	2,9%
I2a1-M423	2,9%	0,0%	2,4%	0,0%	0,0%	0,0%	1,3%	4,5%	1,4%
I2a2a-pL38	2,9%	0,0%	2,4%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
I2a2b-M223*	2,9%	0,0%	2,4%	0,0%	0,0%	0,0%	1,3%	0,0%	0,7%
I2a2b-M284	2,9%	0,0%	2,4%	0,0%	0,0%	3,7%	3,8%	4,5%	3,6%
I2a2b-L701	1,4%	0,0%	1,2%	0,0%	0,0%	0,0%	10,1%	0,0%	5,7%
J1-P58	1,4%	0,0%	1,2%	0,0%	0,0%	0,0%	2,5%	4,5%	2,1%
J2b	1,4%	0,0%	1,2%	0,0%	0,0%	7,4%	2,5%	0,0%	2,9%
J2a	0,0%	0,0%	0,0%	0,0%	8,3%	3,7%	2,5%	9,1%	4,3%
L-M20	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
T-M70	0,0%	0,0%	0,0%	0,0%	0,0%	3,7%	0,0%	0,0%	0,7%
N	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	2,5%	0,0%	1,4%
R2	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
Q*	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
Q-L527	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	1,3%	0,0%	0,7%
Q-L804	0,0%	0,0%	0,0%	0,0%	0,0%	3,7%	0,0%	0,0%	0,7%
R1a*	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
R1a-L664	0,0%	0,0%	0,0%	0,0%	8,3%	0,0%	2,5%	0,0%	2,1%
R1a-Z93	0,0%	0,0%	0,0%	5,9%	0,0%	0,0%	0,0%	0,0%	0,0%
R1a-Z283*	1,4%	0,0%	1,2%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
R1a-M458	0,0%	0,0%	0,0%	0,0%	0,0%	3,7%	1,3%	0,0%	1,4%
R1a-Z284	0,0%	0,0%	0,0%	0,0%	0,0%	3,7%	2,5%	0,0%	2,1%
R1b*	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	1,3%	0,0%	0,7%
R1b-Z2103	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	1,3%	0,0%	0,7%
R1b-Z2118*	0,0%	0,0%	0,0%	0,0%	8,3%	0,0%	3,8%	0,0%	2,9%

R1b-U106	4,3%	0,0%	3,7%	17,6%	0,0%	11,1%	6,3%	9,1%	7,1%
R1b-P312*	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
R1b-L238	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
R1b-DF19	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	3,8%	0,0%	2,1%
R1b-U152*	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	3,8%	4,5%	2,9%
R1b-L2	2,9%	8,3%	3,7%	0,0%	0,0%	11,1%	1,3%	4,5%	3,6%
R1b-DF27	5,7%	8,3%	6,1%	23,5%	0,0%	7,4%	6,3%	4,5%	5,7%
R1b-L21(xDF13)	1,4%	0,0%	1,2%	0,0%	8,3%	0,0%	0,0%	0,0%	0,7%
R1b-DF13*	12,9%	0,0%	11,0%	0,0%	8,3%	7,4%	2,5%	9,1%	5,0%
R1b-DF13>Z255	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
R1b-DF13>FGC111	1,4%	8,3%	2,4%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
R1b-DF13>Z251	5,7%	8,3%	6,1%	0,0%	0,0%	0,0%	3,8%	0,0%	2,1%
R1b-DF13>CTS250	2,9%	0,0%	2,4%	0,0%	0,0%	3,7%	1,3%	0,0%	1,4%
R1b-DF13>L1335	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
R1b-DF13>DF1	2,9%	0,0%	2,4%	0,0%	0,0%	0,0%	1,3%	0,0%	0,7%
R1b-DF13>Z253	2,9%	16,7%	4,9%	0,0%	0,0%	0,0%	2,5%	0,0%	1,4%
R1b-DF13>DF21	10,0%	0,0%	8,5%	5,9%	0,0%	0,0%	0,0%	0,0%	0,0%
R1b-DF13>DF49*	4,3%	8,3%	4,9%	0,0%	0,0%	0,0%	1,3%	0,0%	0,7%
R1b-DF49>M222	1,4%	0,0%	1,2%	0,0%	0,0%	0,0%	1,3%	4,5%	1,4%
TOTAL	###	100,0%	###	###	###	###	100,0%	###	100,0%
Pre-IE Neolithic	14,3%	16,7%	14,6%	0,0%	8,3%	7,4%	11,4%	13,6%	10,7%
Goidelic	20,0%	33,3%	22,0%	5,9%	0,0%	0,0%	5,1%	4,5%	3,6%
Brythonic	25,7%	8,3%	23,2%	0,0%	16,7%	11,1%	8,9%	9,1%	10,0%
<i>Early Bronze Age</i> tc	60,0%	58,3%	59,8%	5,9%	25,0%	18,5%	25,3%	27,3%	24,3%
Continental Celtic	8,6%	16,7%	9,8%	23,5%	0,0%	18,5%	11,4%	13,6%	12,1%
Belgae	0,0%	0,0%	0,0%	0,0%	16,7%	3,7%	5,1%	0,0%	5,0%
Continental Gernar	14,3%	16,7%	14,6%	47,1%	25,0%	22,2%	27,8%	22,7%	25,7%
Norse	2,9%	0,0%	2,4%	5,9%	0,0%	22,2%	13,9%	4,5%	12,9%
Illyro-Thracian	4,3%	8,3%	4,9%	0,0%	8,3%	7,4%	2,5%	4,5%	4,3%
Mediterranean	7,1%	0,0%	6,1%	17,6%	25,0%	7,4%	10,1%	9,1%	10,7%
Semitic	1,4%	0,0%	1,2%	0,0%	0,0%	0,0%	3,8%	9,1%	3,6%
Sub-Saharan	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	4,5%	0,7%

LancashireYorkshireNorthumbriaEast AngliaMerciaANGLESEngland unKENG TotalSc.Borders

0	0	0	0	0	0	1	1	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	2	0
0	0	0	0	0	0	4	4	0
0	0	0	0	0	0	1	2	0
0	0	0	0	1	1	1	3	0
0	0	0	0	0	0	4	6	0
0	0	0	0	0	0	2	2	0
0	0	0	0	0	0	1	3	0
1	1	0	0	1	3	25	31	0
0	0	0	0	0	0	0	0	0
1	0	0	0	0	1	1	2	0
0	0	0	1	0	1	1	3	0
0	0	1	0	0	1	4	5	0
1	0	0	0	0	1	5	6	0
0	0	0	1	1	2	0	4	0
2	3	3	0	0	8	7	17	0
0	0	0	0	0	0	0	1	0
0	1	0	0	0	1	2	3	0
0	1	0	1	1	3	7	11	0
0	4	0	2	2	8	16	30	0
0	0	1	0	1	2	4	9	1
0	4	1	1	4	10	26	43	0
3	3	0	4	6	16	62	89	1
0	0	0	0	0	0	1	1	0
0	1	1	1	3	6	10	23	0
0	0	0	0	1	1	11	16	0
1	2	0	0	1	4	11	17	0
0	0	0	1	0	1	15	16	0
0	0	0	0	0	0	11	12	0
0	0	0	0	1	1	3	9	1
4	1	1	1	4	11	34	53	2
0	2	0	0	0	2	1	6	0
2	1	0	3	1	7	10	21	0
1	0	1	0	1	3	10	19	2
0	0	0	1	0	1	0	1	0
0	0	0	0	0	0	2	3	0
0	1	0	1	0	2	2	6	1
0	0	0	1	0	1	1	2	0
0	0	0	0	0	0	1	1	0
0	1	0	0	0	1	1	3	0
1	2	0	0	1	4	5	10	0
1	0	0	0	0	1	0	1	0

0	1	0	0	0	1	18	22	0
0	1	0	0	0	1	7	9	0
0	0	0	0	0	0	0	0	0
0	0	0	0	1	1	4	7	0
2	7	2	1	3	15	13	31	0
0	0	0	0	0	0	1	2	0
0	1	0	0	1	2	9	12	0
1	1	0	0	2	4	8	16	0
3	5	1	3	12	24	87	124	0
0	0	1	1	0	2	2	4	0
0	1	0	0	1	2	3	5	0
0	1	0	0	1	2	5	10	0
0	0	0	0	0	0	12	16	1
2	0	1	1	1	5	40	51	1
5	3	0	2	2	12	61	86	2
0	0	0	0	0	0	4	5	1
1	0	1	1	2	5	26	38	0
0	0	1	0	0	1	1	2	0
1	0	0	0	0	1	2	4	0
0	0	1	0	0	1	6	11	0
1	0	0	0	0	1	7	10	0
0	0	0	0	1	1	5	6	0
0	1	0	0	1	2	5	8	2
0	1	0	0	2	3	8	15	1
2	1	0	1	2	6	14	21	0
2	0	0	0	1	3	7	12	0
0	0	1	0	0	1	5	8	0
38	52	18	29	63	200	663	1032	16
7	3	4	2	9	25	90	140	4
18,42%	5,77%	22,22%	6,90%	###	12,50%	13,57%	13,57%	25,00%
15	34	9	15	39	112	318	500	4
39,47%	65,38%	50,00%	51,72%	###	56,00%	47,96%	48,45%	25,00%
1	3	1	1	5	11	25	50	1
2,63%	5,77%	5,56%	3,45%	7,94%	5,50%	3,77%	4,84%	6,25%
10	7	3	9	6	35	161	241	6
26,3%	13,5%	16,7%	31,0%	9,5%	17,5%	24,3%	23,4%	37,5%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,2%	0,1%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,2%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,6%	0,4%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,2%	0,2%	0,0%
0,0%	0,0%	0,0%	0,0%	1,6%	0,5%	0,2%	0,3%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,6%	0,6%	0,0%

0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,3%	0,2%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,2%	0,3%	0,0%
2,6%	1,9%	0,0%	0,0%	1,6%	1,5%	3,8%	3,0%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
2,6%	0,0%	0,0%	0,0%	0,0%	0,5%	0,2%	0,2%	0,0%
0,0%	0,0%	0,0%	3,4%	0,0%	0,5%	0,2%	0,3%	0,0%
0,0%	0,0%	5,6%	0,0%	0,0%	0,5%	0,6%	0,5%	0,0%
2,6%	0,0%	0,0%	0,0%	0,0%	0,5%	0,8%	0,6%	0,0%
0,0%	0,0%	0,0%	3,4%	1,6%	1,0%	0,0%	0,4%	0,0%
5,3%	5,8%	16,7%	0,0%	0,0%	4,0%	1,1%	1,6%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,1%	0,0%
0,0%	1,9%	0,0%	0,0%	0,0%	0,5%	0,3%	0,3%	0,0%
0,0%	1,9%	0,0%	3,4%	1,6%	1,5%	1,1%	1,1%	0,0%
0,0%	7,7%	0,0%	6,9%	3,2%	4,0%	2,4%	2,9%	0,0%
0,0%	0,0%	5,6%	0,0%	1,6%	1,0%	0,6%	0,9%	6,3%
0,0%	7,7%	5,6%	3,4%	6,3%	5,0%	3,9%	4,2%	0,0%
7,9%	5,8%	0,0%	13,8%	9,5%	8,0%	9,4%	8,6%	6,3%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,2%	0,1%	0,0%
0,0%	1,9%	5,6%	3,4%	4,8%	3,0%	1,5%	2,2%	0,0%
0,0%	0,0%	0,0%	0,0%	1,6%	0,5%	1,7%	1,6%	0,0%
2,6%	3,8%	0,0%	0,0%	1,6%	2,0%	1,7%	1,6%	0,0%
0,0%	0,0%	0,0%	3,4%	0,0%	0,5%	2,3%	1,6%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	1,7%	1,2%	0,0%
0,0%	0,0%	0,0%	0,0%	1,6%	0,5%	0,5%	0,9%	6,3%
10,5%	1,9%	5,6%	3,4%	6,3%	5,5%	5,1%	5,1%	12,5%
0,0%	3,8%	0,0%	0,0%	0,0%	1,0%	0,2%	0,6%	0,0%
5,3%	1,9%	0,0%	10,3%	1,6%	3,5%	1,5%	2,0%	0,0%
2,6%	0,0%	5,6%	0,0%	1,6%	1,5%	1,5%	1,8%	12,5%
0,0%	0,0%	0,0%	3,4%	0,0%	0,5%	0,0%	0,1%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,3%	0,3%	0,0%
0,0%	1,9%	0,0%	3,4%	0,0%	1,0%	0,3%	0,6%	6,3%
0,0%	0,0%	0,0%	3,4%	0,0%	0,5%	0,2%	0,2%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,2%	0,1%	0,0%
0,0%	1,9%	0,0%	0,0%	0,0%	0,5%	0,2%	0,3%	0,0%
2,6%	3,8%	0,0%	0,0%	1,6%	2,0%	0,8%	1,0%	0,0%
2,6%	0,0%	0,0%	0,0%	0,0%	0,5%	0,0%	0,1%	0,0%
0,0%	1,9%	0,0%	0,0%	0,0%	0,5%	2,7%	2,1%	0,0%
0,0%	1,9%	0,0%	0,0%	0,0%	0,5%	1,1%	0,9%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
0,0%	0,0%	0,0%	0,0%	1,6%	0,5%	0,6%	0,7%	0,0%
5,3%	13,5%	11,1%	3,4%	4,8%	7,5%	2,0%	3,0%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,2%	0,2%	0,0%
0,0%	1,9%	0,0%	0,0%	1,6%	1,0%	1,4%	1,2%	0,0%
2,6%	1,9%	0,0%	0,0%	3,2%	2,0%	1,2%	1,6%	0,0%

7,9%	9,6%	5,6%	10,3%	19,0%	12,0%	13,1%	12,0%	0,0%
0,0%	0,0%	5,6%	3,4%	0,0%	1,0%	0,3%	0,4%	0,0%
0,0%	1,9%	0,0%	0,0%	1,6%	1,0%	0,5%	0,5%	0,0%
0,0%	1,9%	0,0%	0,0%	1,6%	1,0%	0,8%	1,0%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	1,8%	1,6%	6,3%
5,3%	0,0%	5,6%	3,4%	1,6%	2,5%	6,0%	4,9%	6,3%
13,2%	5,8%	0,0%	6,9%	3,2%	6,0%	9,2%	8,3%	12,5%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,6%	0,5%	6,3%
2,6%	0,0%	5,6%	3,4%	3,2%	2,5%	3,9%	3,7%	0,0%
0,0%	0,0%	5,6%	0,0%	0,0%	0,5%	0,2%	0,2%	0,0%
2,6%	0,0%	0,0%	0,0%	0,0%	0,5%	0,3%	0,4%	0,0%
0,0%	0,0%	5,6%	0,0%	0,0%	0,5%	0,9%	1,1%	0,0%
2,6%	0,0%	0,0%	0,0%	0,0%	0,5%	1,1%	1,0%	0,0%
0,0%	0,0%	0,0%	0,0%	1,6%	0,5%	0,8%	0,6%	0,0%
0,0%	1,9%	0,0%	0,0%	1,6%	1,0%	0,8%	0,8%	12,5%
0,0%	1,9%	0,0%	0,0%	3,2%	1,5%	1,2%	1,5%	6,3%
5,3%	1,9%	0,0%	3,4%	3,2%	3,0%	2,1%	2,0%	0,0%
5,3%	0,0%	0,0%	0,0%	1,6%	1,5%	1,1%	1,2%	0,0%
0,0%	0,0%	5,6%	0,0%	0,0%	0,5%	0,8%	0,8%	0,0%
100,0%	100,0%	100,0%	100,0%	###	100,0%	100,0%	100,0%	100,0%
2,6%	7,7%	5,6%	6,9%	7,9%	6,5%	8,0%	8,0%	6,3%
13,2%	3,8%	11,1%	3,4%	7,9%	7,5%	5,6%	6,0%	6,3%
5,3%	1,9%	11,1%	3,4%	6,3%	5,0%	8,0%	7,6%	18,8%
21,1%	13,5%	27,8%	13,8%	22,2%	19,0%	21,6%	21,6%	31,3%
18,4%	5,8%	11,1%	13,8%	4,8%	9,5%	17,3%	15,2%	25,0%
0,0%	1,9%	0,0%	0,0%	1,6%	1,0%	4,4%	3,7%	0,0%
28,9%	30,8%	11,1%	37,9%	44,4%	34,0%	33,0%	32,3%	18,8%
7,9%	30,8%	22,2%	10,3%	17,5%	18,5%	8,9%	11,1%	12,5%
7,9%	3,8%	0,0%	10,3%	3,2%	5,0%	5,3%	5,0%	0,0%
15,8%	9,6%	27,8%	13,8%	6,3%	12,0%	7,8%	9,1%	12,5%
0,0%	3,8%	0,0%	0,0%	0,0%	1,0%	0,8%	1,2%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,9%	0,7%	0,0%

Sc. Lowlands W Scotlan Scottish Isles Sc. Highlands Scotland un SCO Total Britain unk

0	0	0	0	1	1	0
0	0	0	0	0	0	1
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	2	0	0	2	4
0	0	0	1	1	2	1
0	0	0	0	1	1	0
1	0	0	0	0	1	1
0	0	0	0	1	1	0
2	0	0	1	3	6	4
0	0	0	0	0	0	1
0	0	0	0	0	0	1
0	0	0	0	0	0	0
0	0	0	0	1	1	0
0	0	0	1	1	2	0
0	0	0	0	1	1	9
0	0	0	0	2	2	2
1	0	0	0	0	1	0
0	0	0	0	0	0	0
1	0	1	2	2	6	1
2	0	0	0	0	2	0
2	0	1	2	2	8	1
1	1	1	2	4	9	8
11	2	3	3	14	34	19
0	0	0	0	0	0	0
0	2	0	1	4	7	2
4	1	0	2	0	7	5
3	1	4	3	5	16	6
0	1	0	1	3	5	0
1	0	1	0	1	3	2
1	2	3	3	17	27	4
6	3	1	0	7	19	2
1	1	0	0	0	2	0
0	0	1	2	2	5	1
0	2	0	1	1	6	1
0	0	0	0	0	0	0
0	0	0	0	1	1	2
0	0	0	0	1	2	0
0	0	0	0	0	0	0
0	0	0	0	0	0	2
0	0	0	0	0	0	0
0	0	0	0	1	1	0
3	0	0	1	1	5	0

0	0	1	0	0	1	1
1	1	0	0	0	2	1
0	0	0	0	0	0	0
1	0	0	0	2	3	3
2	2	12	8	14	38	6
0	0	0	0	1	1	1
0	0	0	1	1	2	2
1	0	1	0	0	2	4
6	1	8	13	19	47	29
1	0	0	1	0	2	0
1	0	0	0	0	1	3
0	0	0	0	1	1	5
1	0	1	0	1	4	2
6	0	1	0	10	18	14
3	2	3	7	17	34	17
0	0	1	0	1	3	2
5	3	2	5	6	21	7
0	1	1	0	2	4	1
0	0	1	1	3	5	1
1	1	0	1	4	7	1
1	2	1	0	1	5	2
3	2	5	14	29	53	1
3	1	1	9	6	22	3
0	2	3	1	5	12	4
6	2	2	9	13	32	5
0	2	0	3	2	7	1
4	8	4	7	6	29	2
86	46	66	106	222	542	198
23	24	21	50	78	200	30
26,74%	52,17%	31,82%	47,17%	35,14%	36,90%	15,15%
37	11	28	33	72	185	94
43,02%	23,91%	42,42%	31,13%	32,43%	34,13%	47,47%
4	5	7	7	26	50	12
4,65%	10,87%	10,61%	6,60%	11,71%	9,23%	6,06%
14	6	6	11	36	79	40
16,3%	13,0%	9,1%	10,4%	16,2%	14,6%	20,2%
0,0%	0,0%	0,0%	0,0%	0,5%	0,2%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,5%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
0,0%	0,0%	3,0%	0,0%	0,0%	0,4%	2,0%
0,0%	0,0%	0,0%	0,9%	0,5%	0,4%	0,5%
0,0%	0,0%	0,0%	0,0%	0,5%	0,2%	0,0%

1,2%	0,0%	0,0%	0,0%	0,0%	0,2%	0,5%
0,0%	0,0%	0,0%	0,0%	0,5%	0,2%	0,0%
2,3%	0,0%	0,0%	0,9%	1,4%	1,1%	2,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,5%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,5%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
0,0%	0,0%	0,0%	0,0%	0,5%	0,2%	0,0%
0,0%	0,0%	0,0%	0,9%	0,5%	0,4%	0,0%
0,0%	0,0%	0,0%	0,0%	0,5%	0,2%	4,5%
0,0%	0,0%	0,0%	0,0%	0,9%	0,4%	1,0%
1,2%	0,0%	0,0%	0,0%	0,0%	0,2%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
1,2%	0,0%	1,5%	1,9%	0,9%	1,1%	0,5%
2,3%	0,0%	0,0%	0,0%	0,0%	0,4%	0,0%
2,3%	0,0%	1,5%	1,9%	0,9%	1,5%	0,5%
1,2%	2,2%	1,5%	1,9%	1,8%	1,7%	4,0%
12,8%	4,3%	4,5%	2,8%	6,3%	6,3%	9,6%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
0,0%	4,3%	0,0%	0,9%	1,8%	1,3%	1,0%
4,7%	2,2%	0,0%	1,9%	0,0%	1,3%	2,5%
3,5%	2,2%	6,1%	2,8%	2,3%	3,0%	3,0%
0,0%	2,2%	0,0%	0,9%	1,4%	0,9%	0,0%
1,2%	0,0%	1,5%	0,0%	0,5%	0,6%	1,0%
1,2%	4,3%	4,5%	2,8%	7,7%	5,0%	2,0%
7,0%	6,5%	1,5%	0,0%	3,2%	3,5%	1,0%
1,2%	2,2%	0,0%	0,0%	0,0%	0,4%	0,0%
0,0%	0,0%	1,5%	1,9%	0,9%	0,9%	0,5%
0,0%	4,3%	0,0%	0,9%	0,5%	1,1%	0,5%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
0,0%	0,0%	0,0%	0,0%	0,5%	0,2%	1,0%
0,0%	0,0%	0,0%	0,0%	0,5%	0,4%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	1,0%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
0,0%	0,0%	0,0%	0,0%	0,5%	0,2%	0,0%
3,5%	0,0%	0,0%	0,9%	0,5%	0,9%	0,0%
0,0%	0,0%	1,5%	0,0%	0,0%	0,2%	0,5%
1,2%	2,2%	0,0%	0,0%	0,0%	0,4%	0,5%
0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%
1,2%	0,0%	0,0%	0,0%	0,9%	0,6%	1,5%
2,3%	4,3%	18,2%	7,5%	6,3%	7,0%	3,0%
0,0%	0,0%	0,0%	0,0%	0,5%	0,2%	0,5%
0,0%	0,0%	0,0%	0,9%	0,5%	0,4%	1,0%
1,2%	0,0%	1,5%	0,0%	0,0%	0,4%	2,0%

7,0%	2,2%	12,1%	12,3%	8,6%	8,7%	14,6%
1,2%	0,0%	0,0%	0,9%	0,0%	0,4%	0,0%
1,2%	0,0%	0,0%	0,0%	0,0%	0,2%	1,5%
0,0%	0,0%	0,0%	0,0%	0,5%	0,2%	2,5%
1,2%	0,0%	1,5%	0,0%	0,5%	0,7%	1,0%
7,0%	0,0%	1,5%	0,0%	4,5%	3,3%	7,1%
3,5%	4,3%	4,5%	6,6%	7,7%	6,3%	8,6%
0,0%	0,0%	1,5%	0,0%	0,5%	0,6%	1,0%
5,8%	6,5%	3,0%	4,7%	2,7%	3,9%	3,5%
0,0%	2,2%	1,5%	0,0%	0,9%	0,7%	0,5%
0,0%	0,0%	1,5%	0,9%	1,4%	0,9%	0,5%
1,2%	2,2%	0,0%	0,9%	1,8%	1,3%	0,5%
1,2%	4,3%	1,5%	0,0%	0,5%	0,9%	1,0%
3,5%	4,3%	7,6%	13,2%	13,1%	9,8%	0,5%
3,5%	2,2%	1,5%	8,5%	2,7%	4,1%	1,5%
0,0%	4,3%	4,5%	0,9%	2,3%	2,2%	2,0%
7,0%	4,3%	3,0%	8,5%	5,9%	5,9%	2,5%
0,0%	4,3%	0,0%	2,8%	0,9%	1,3%	0,5%
4,7%	17,4%	6,1%	6,6%	2,7%	5,4%	1,0%
100,0%	100,0%	100,0%	100,0%	100,0%	100,0%	100,0%
5,8%	13,0%	12,1%	7,5%	13,5%	10,7%	7,1%
11,6%	32,6%	16,7%	19,8%	14,0%	16,4%	7,1%
15,1%	19,6%	15,2%	27,4%	21,2%	20,5%	8,1%
32,6%	65,2%	43,9%	54,7%	48,6%	47,6%	22,2%
12,8%	4,3%	7,6%	7,5%	12,6%	10,7%	16,7%
4,7%	2,2%	1,5%	1,9%	0,0%	1,5%	3,0%
31,4%	13,0%	21,2%	17,0%	19,4%	20,5%	30,3%
8,1%	6,5%	21,2%	11,3%	10,8%	11,4%	11,6%
2,3%	0,0%	1,5%	2,8%	2,3%	2,0%	2,5%
5,8%	6,5%	0,0%	4,7%	5,4%	5,0%	11,1%
1,2%	2,2%	0,0%	0,0%	0,5%	0,6%	0,0%
0,0%	0,0%	3,0%	0,0%	0,5%	0,6%	2,5%

Mutation	30	29	28	27	26
Age					
Time	65	130	195	260	325

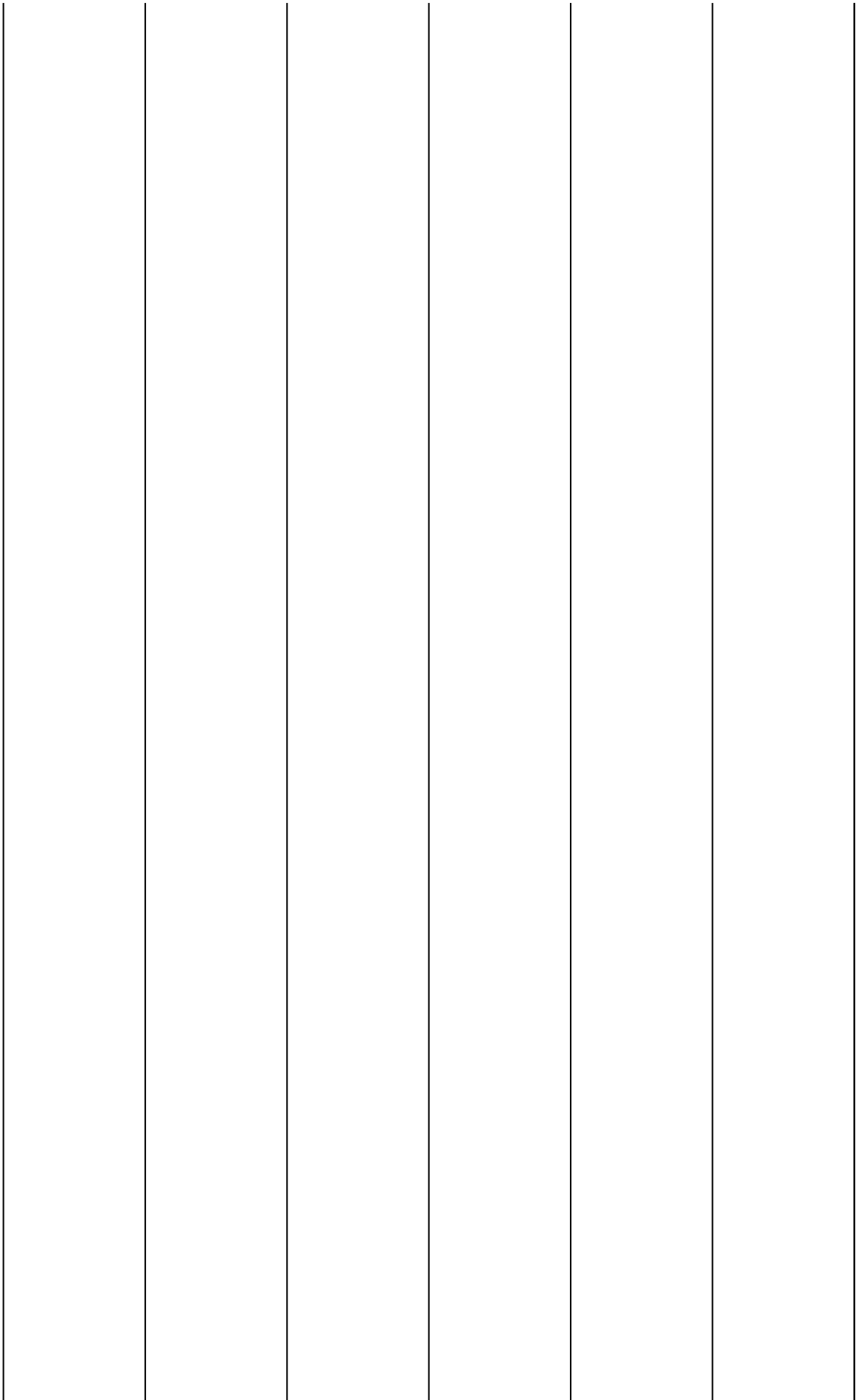
BY97599

FT45504

S568

FGC445

FGC448

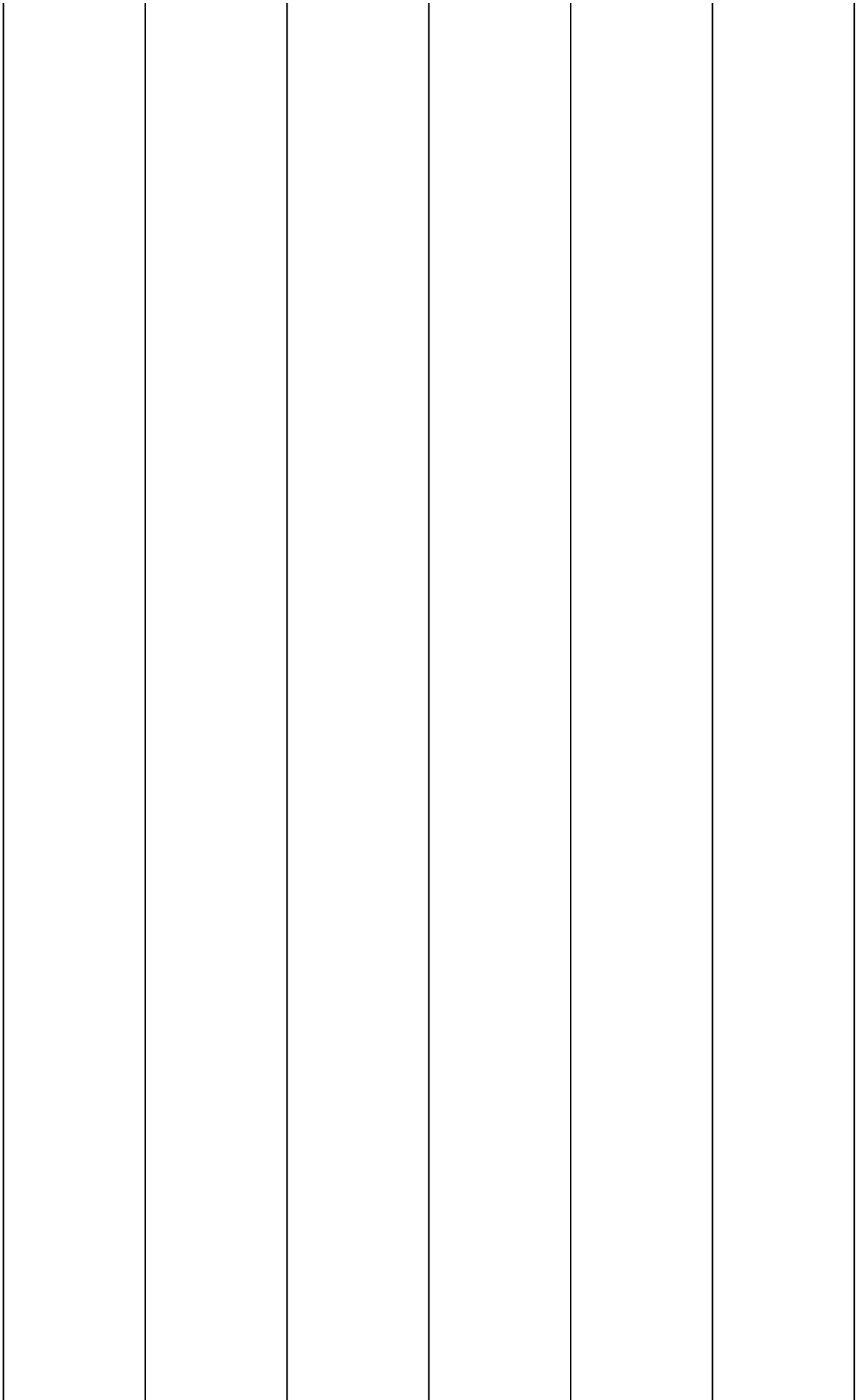


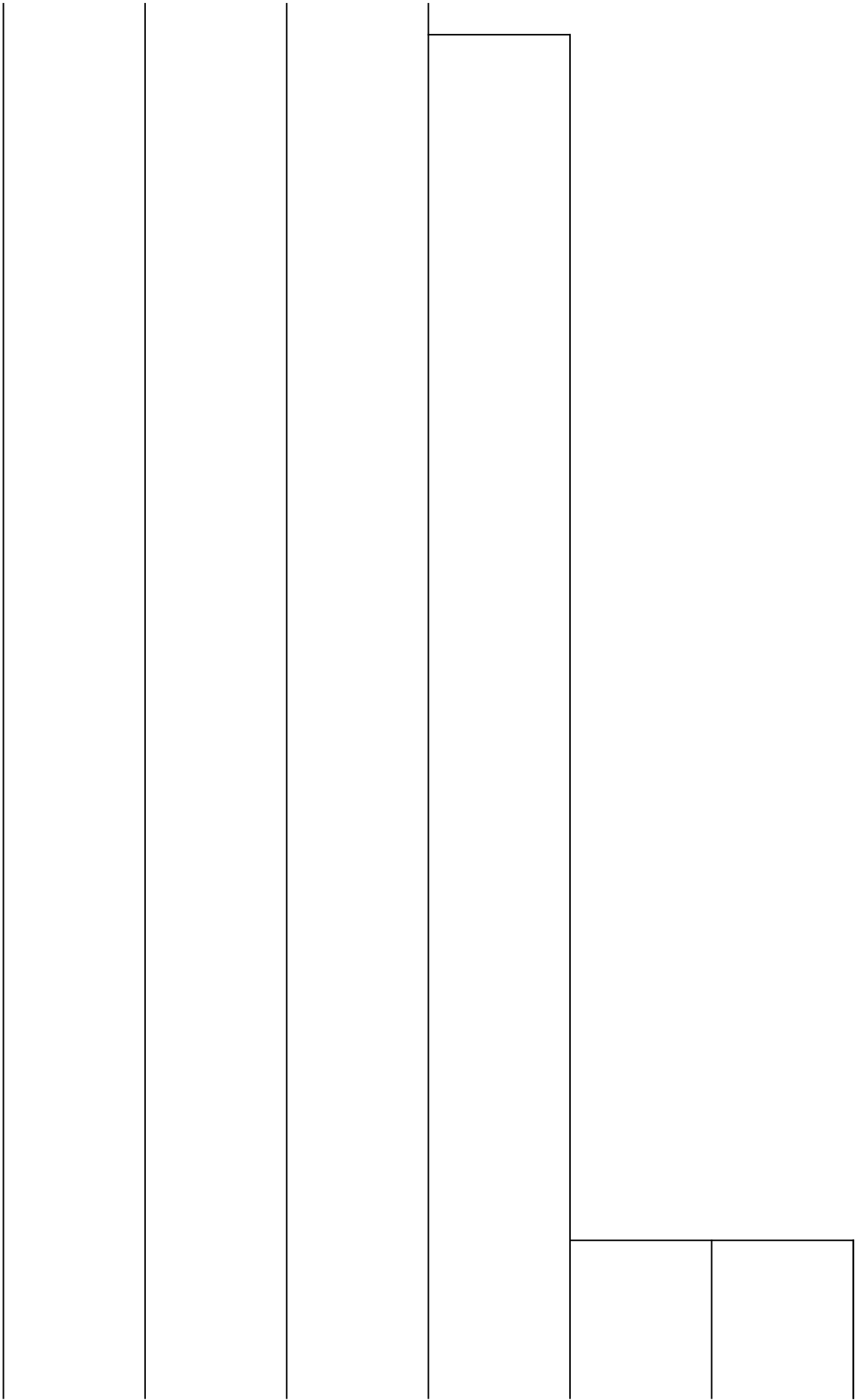
BY35297

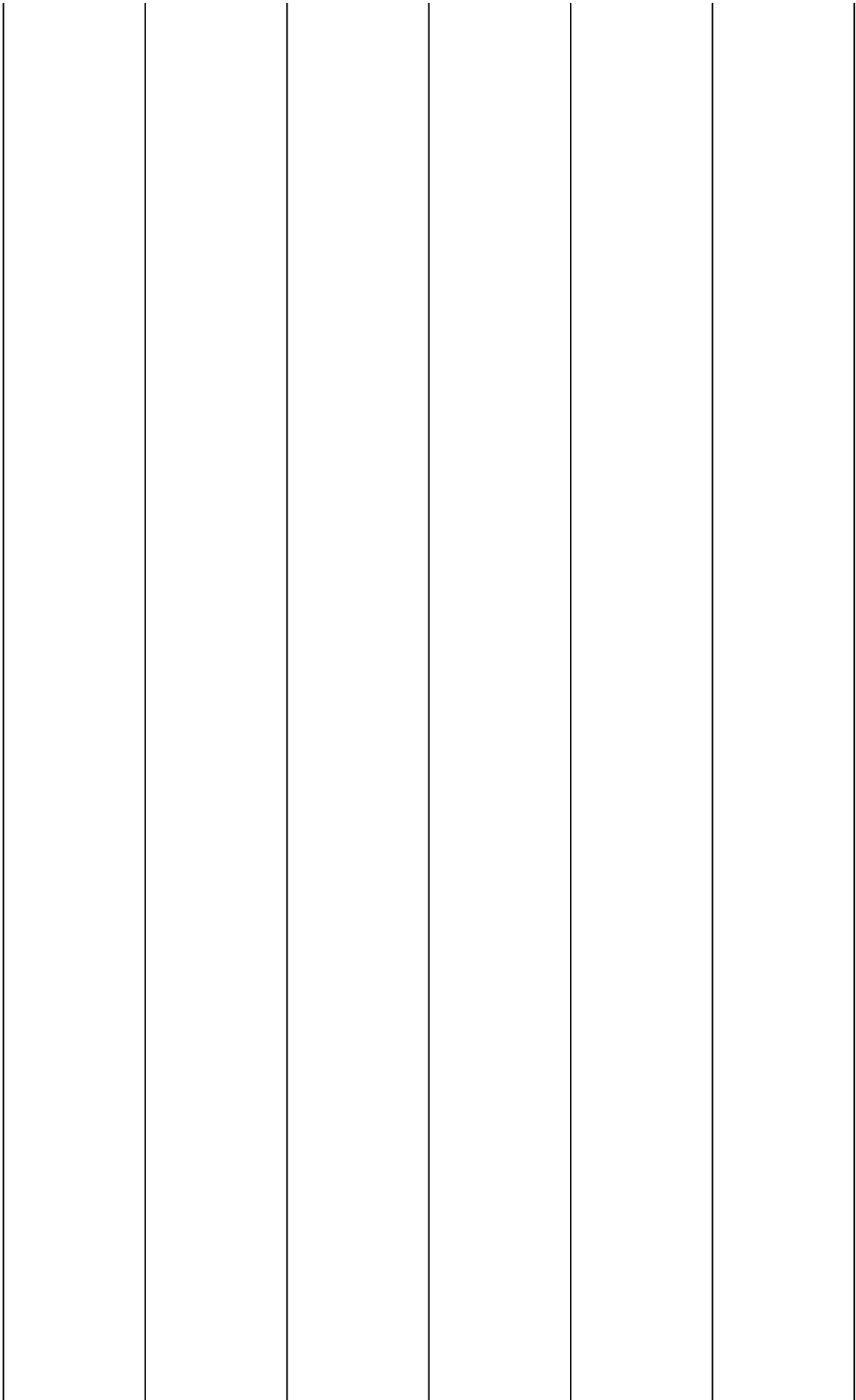
FGC4077

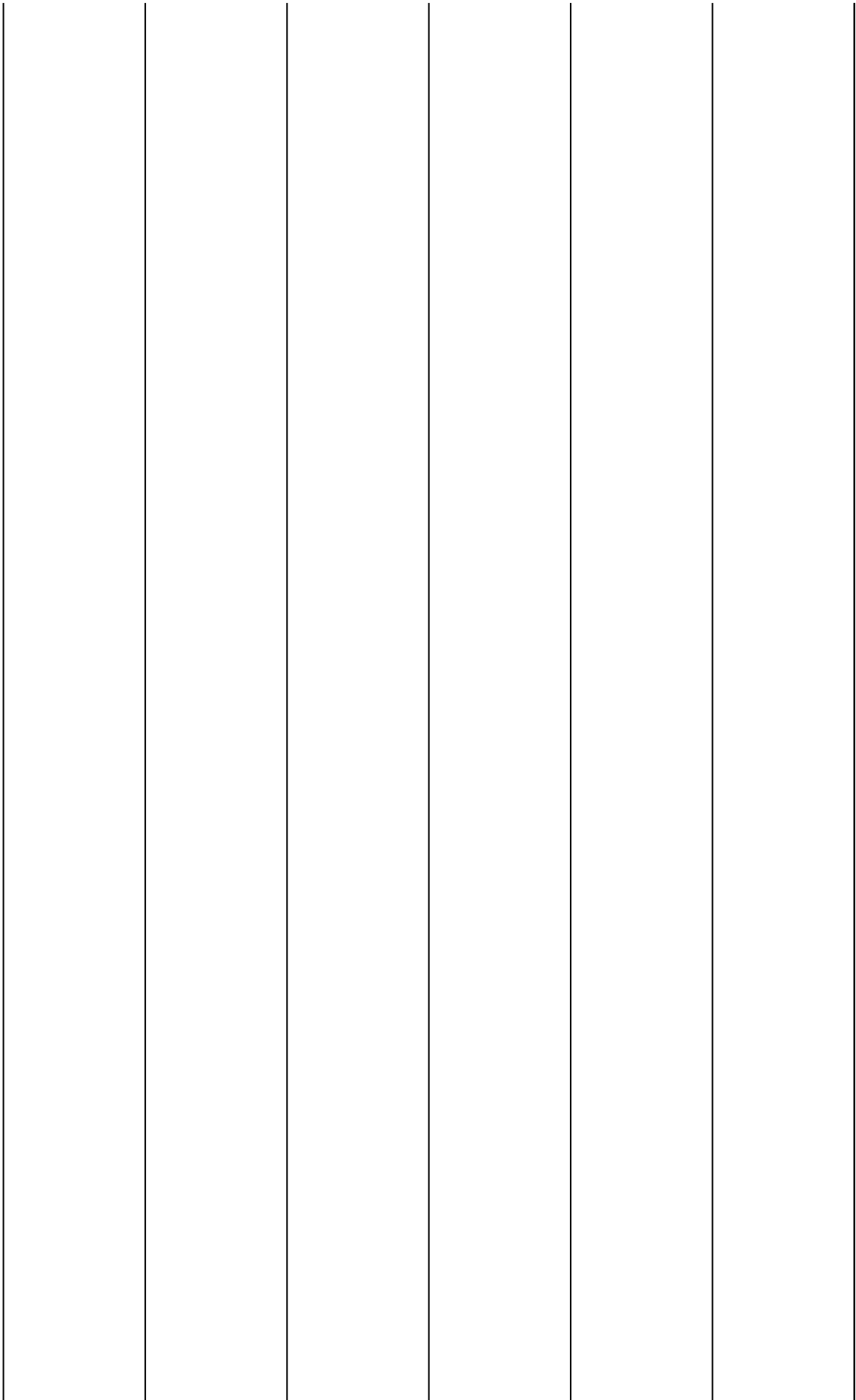
FGC4078

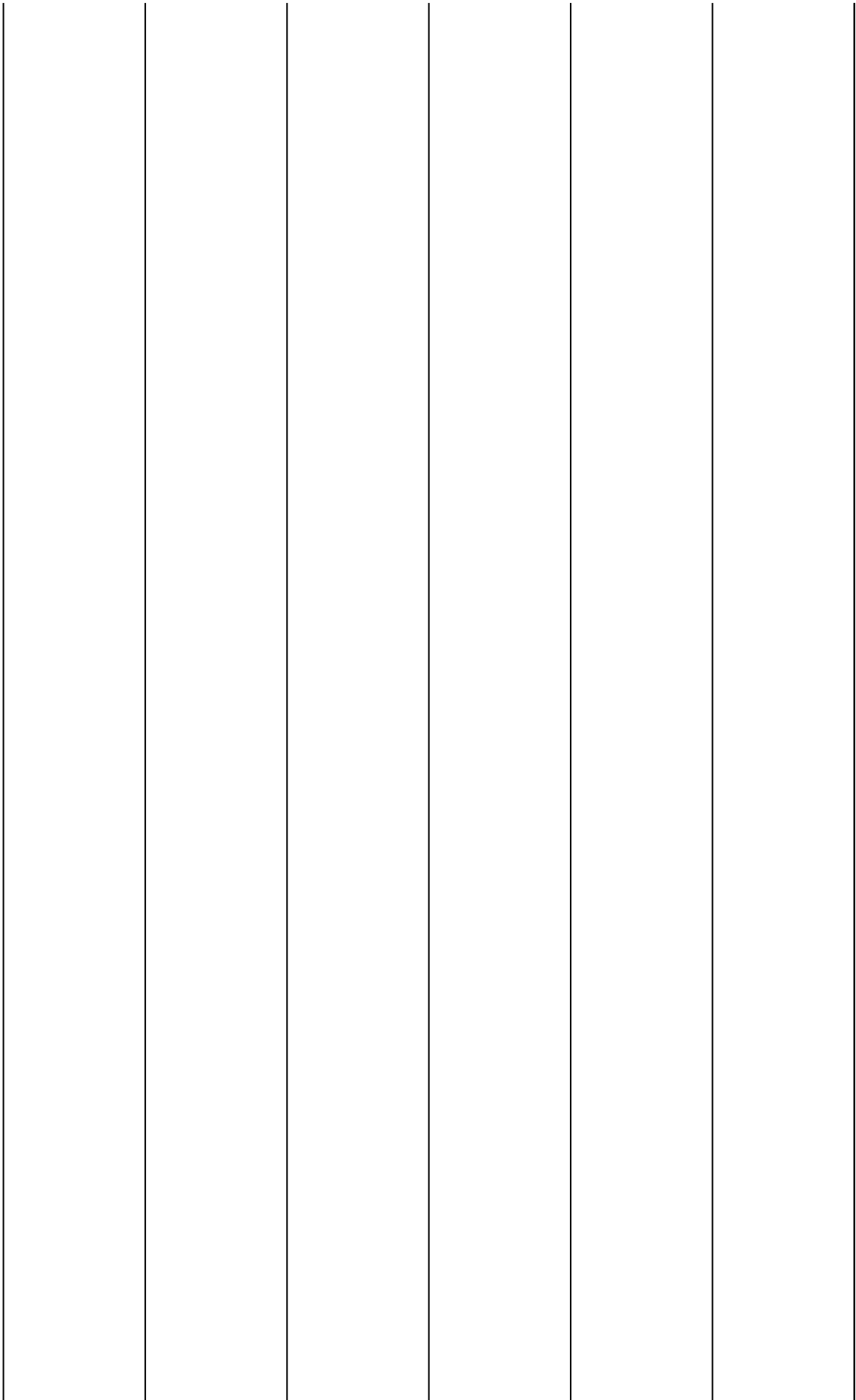
FGC4087

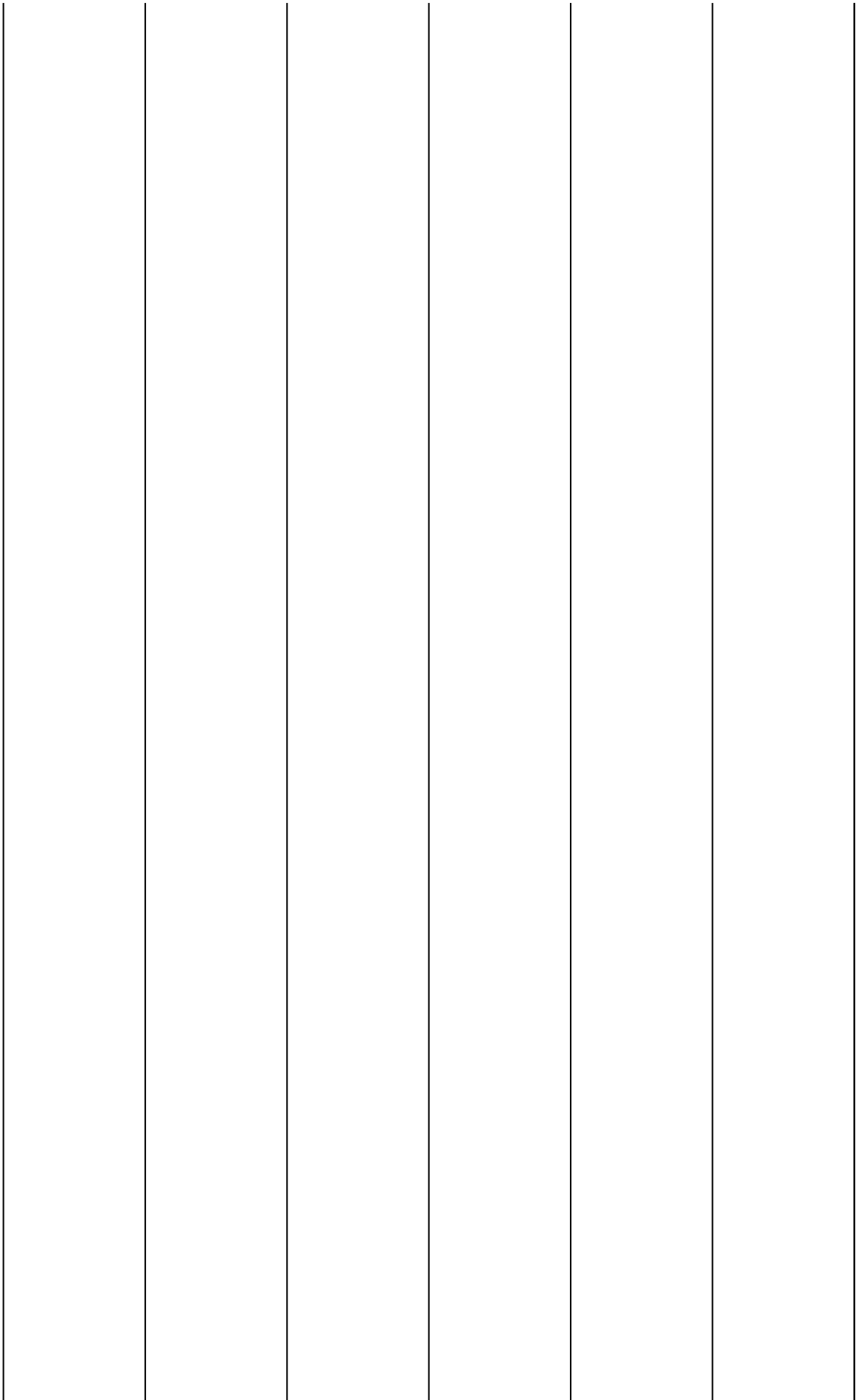


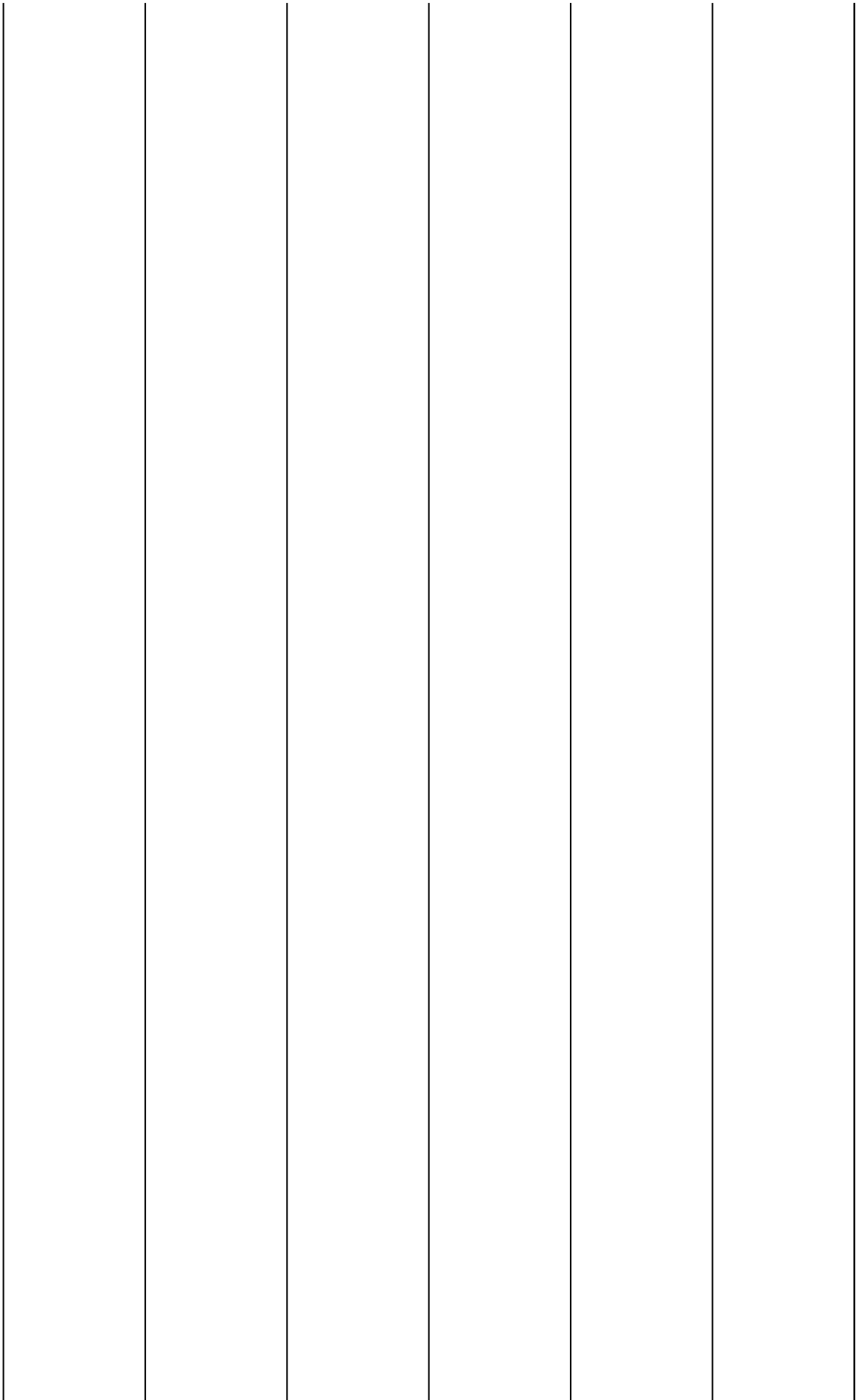


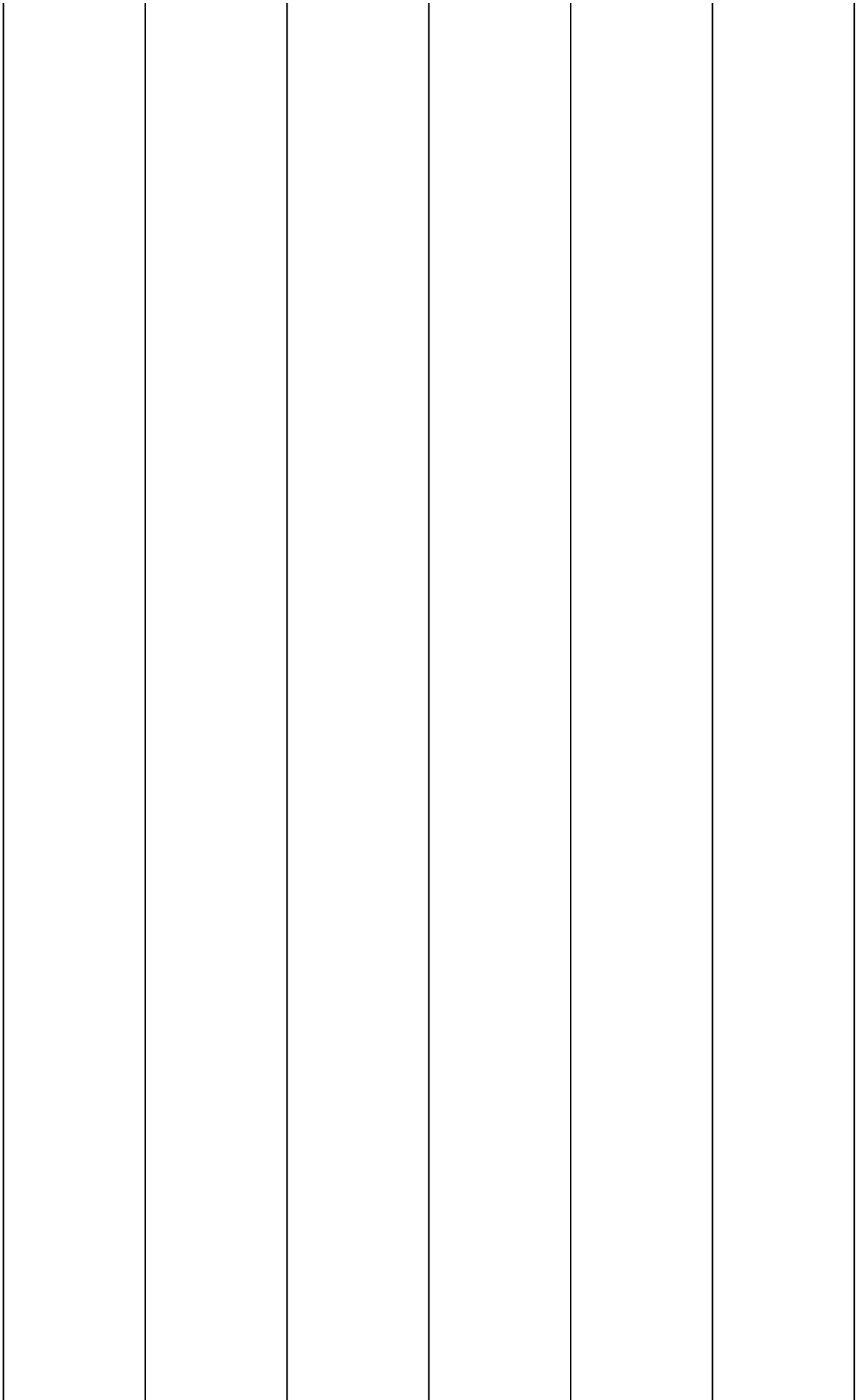


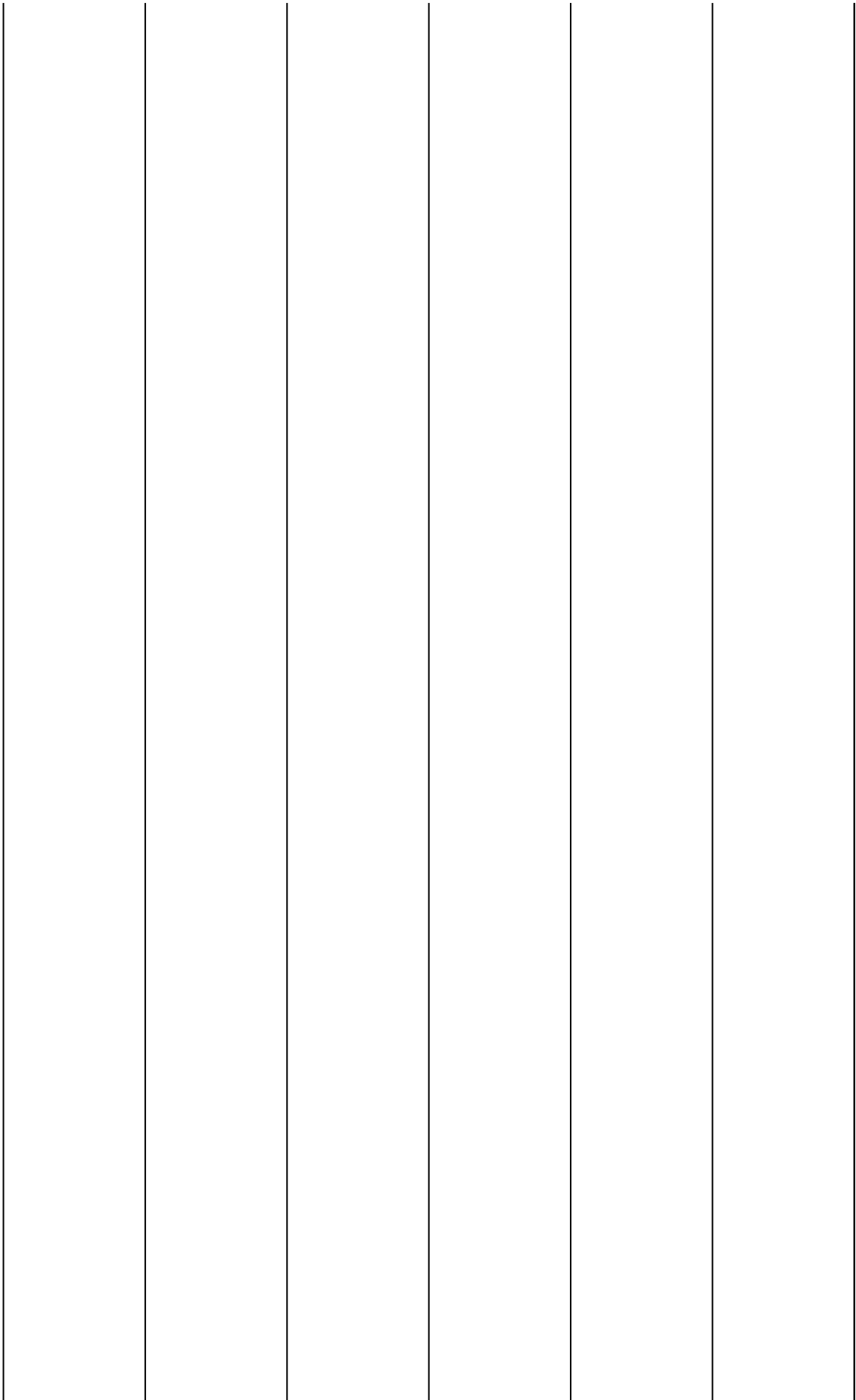


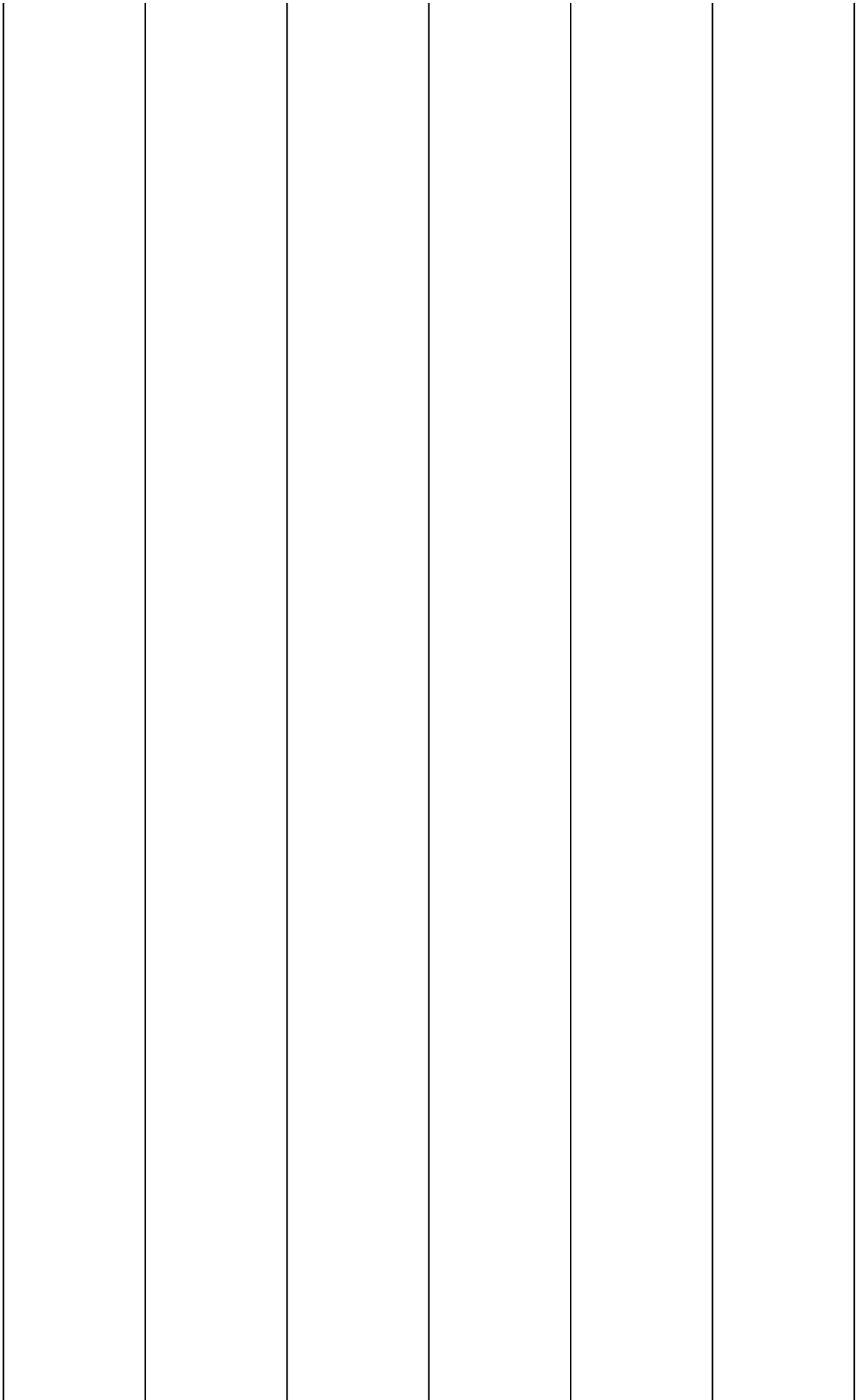


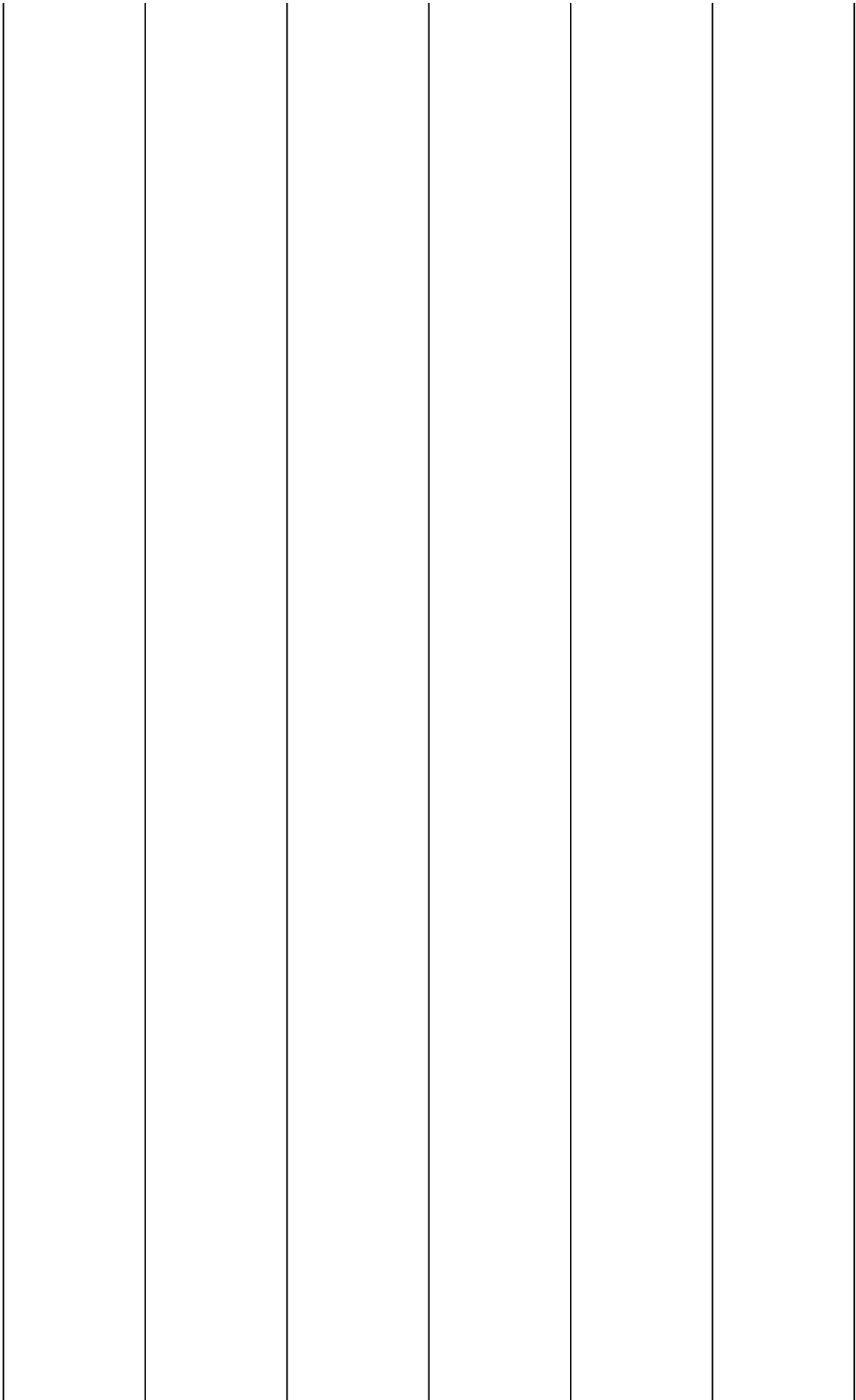


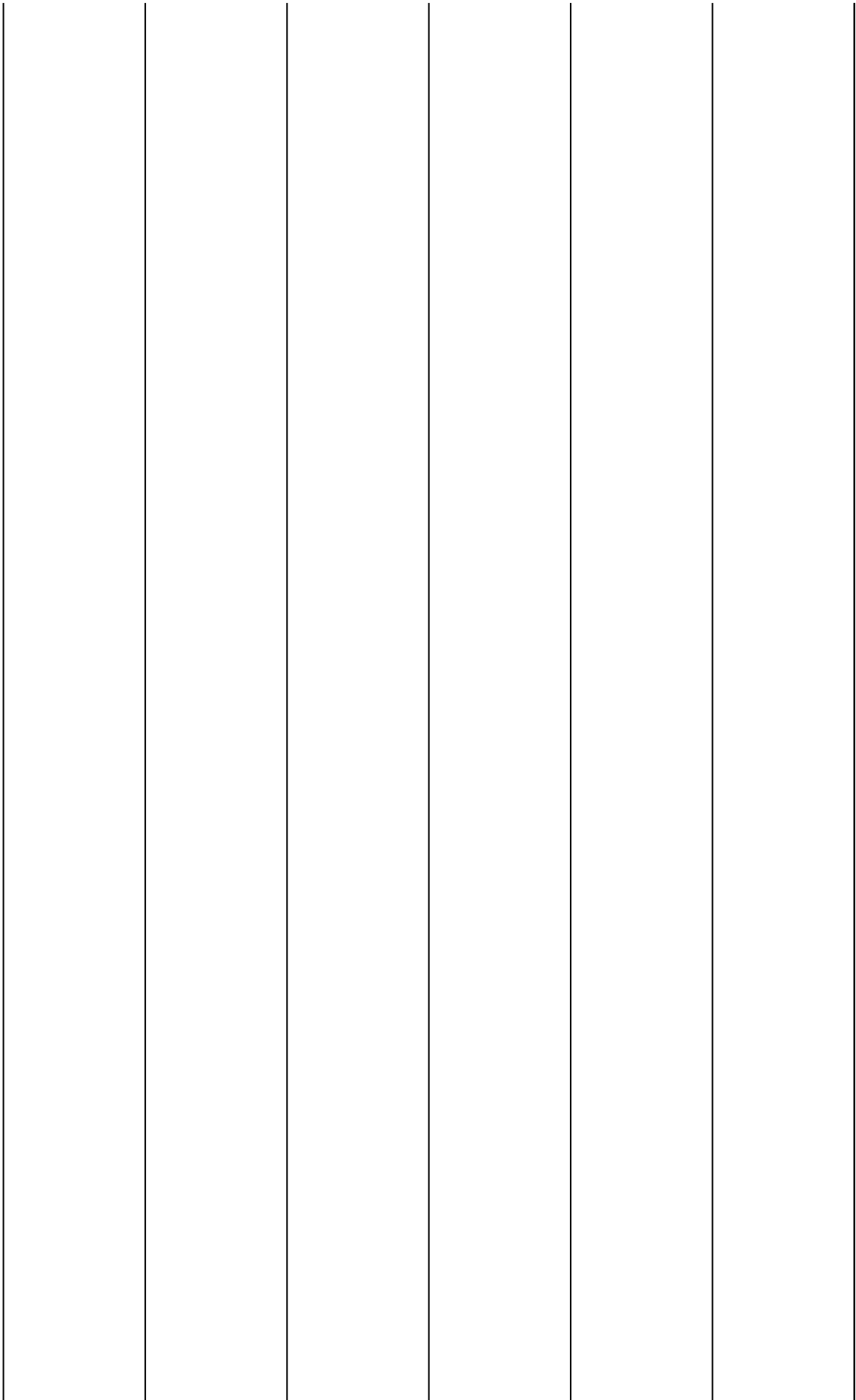


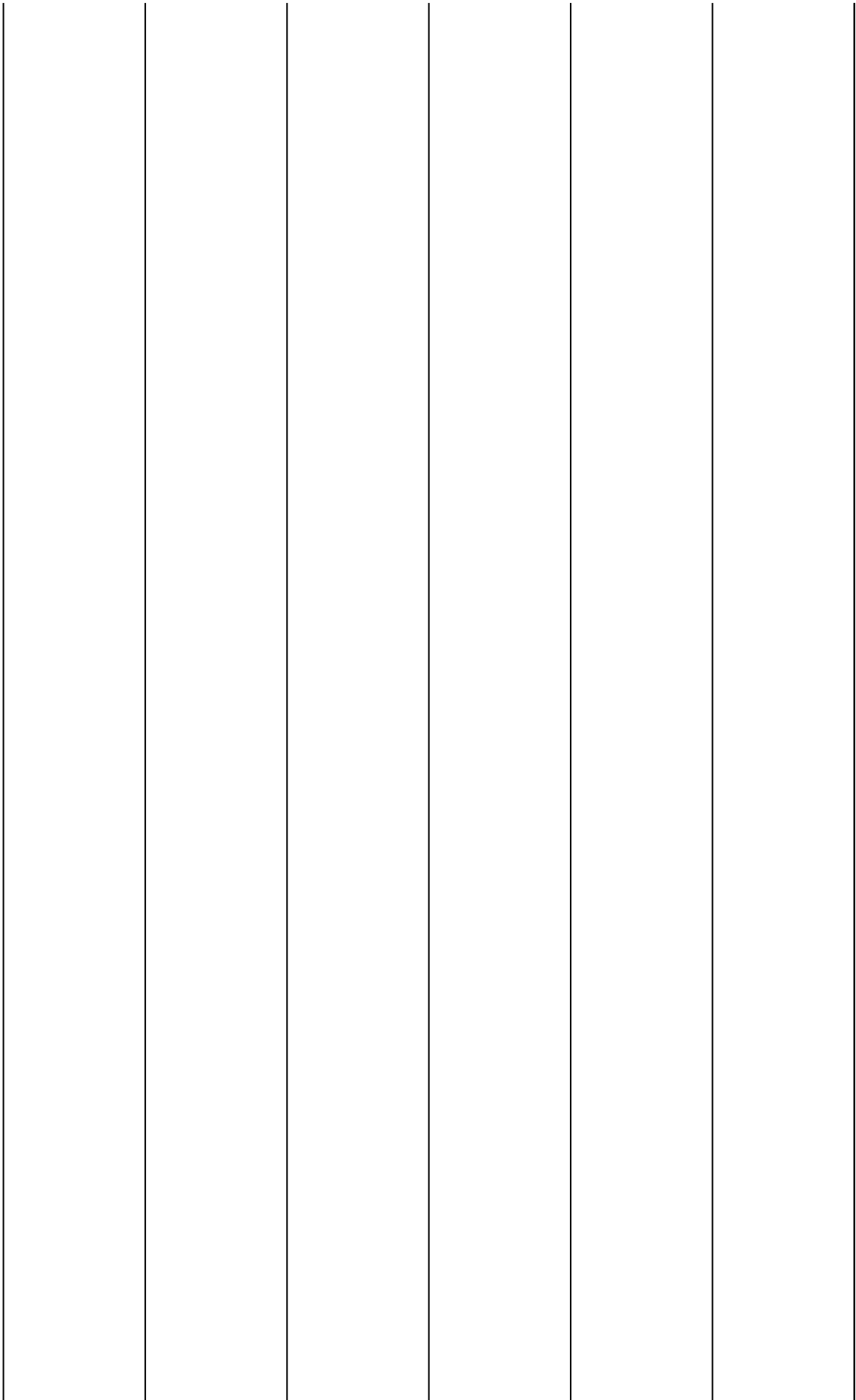


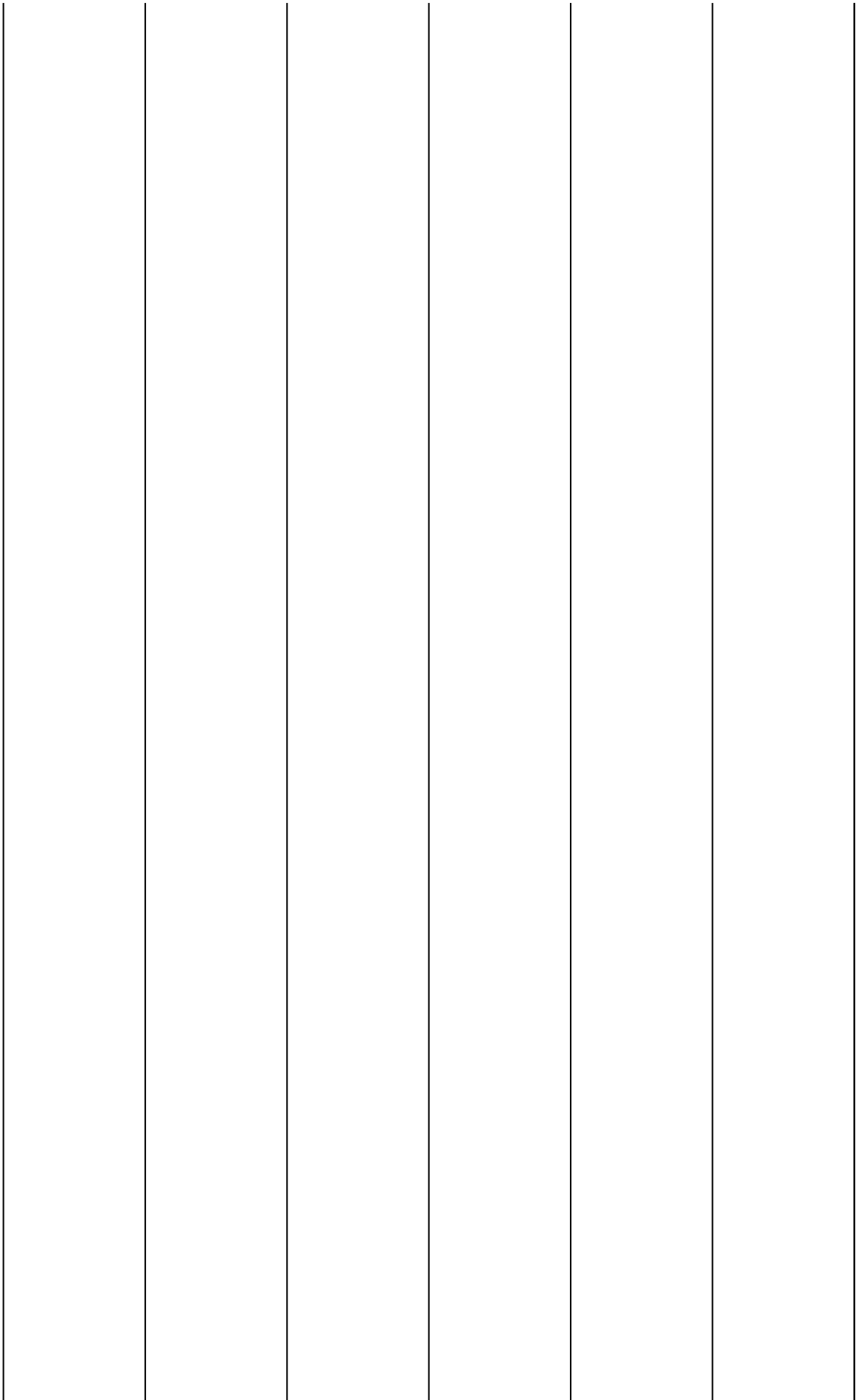


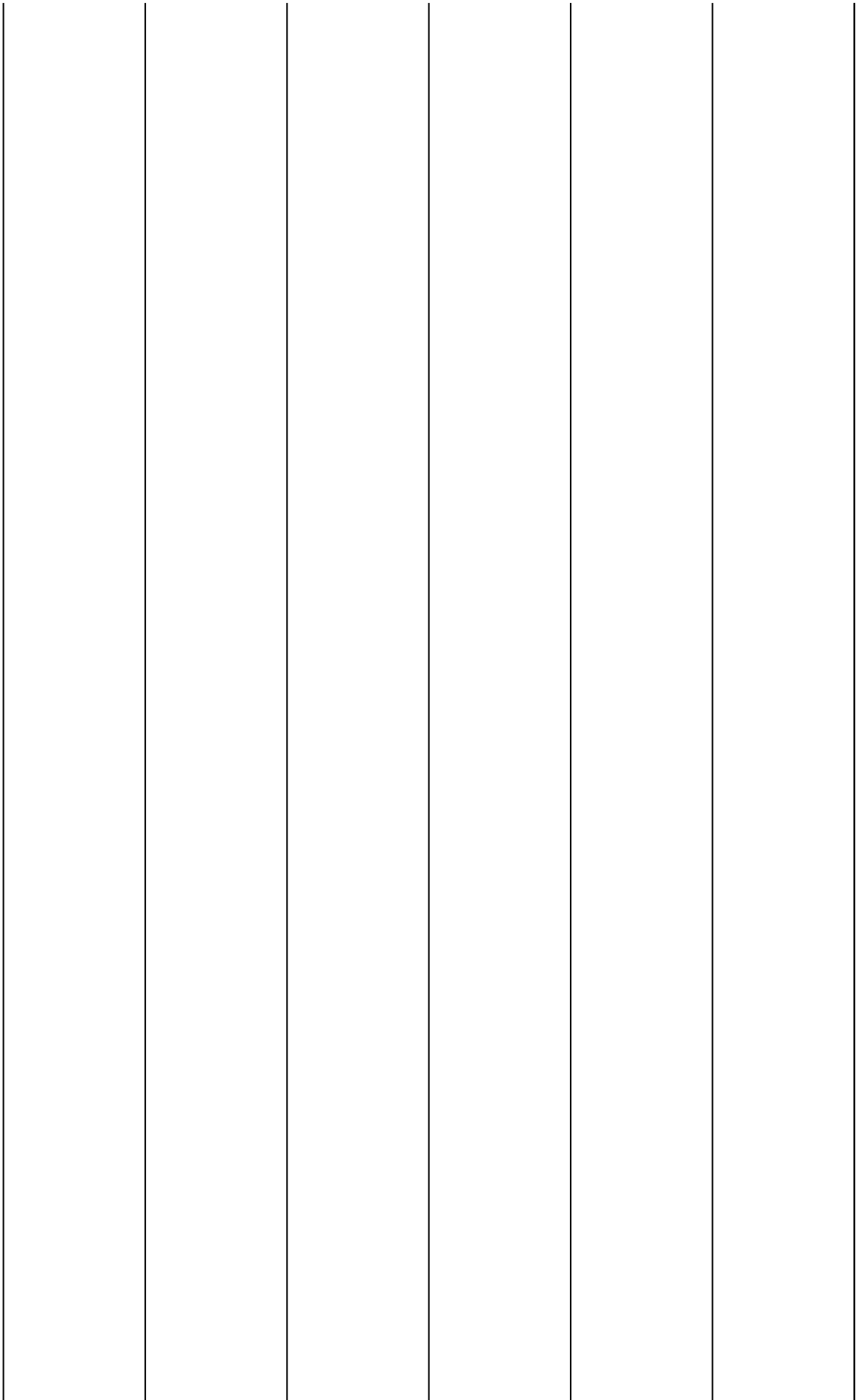


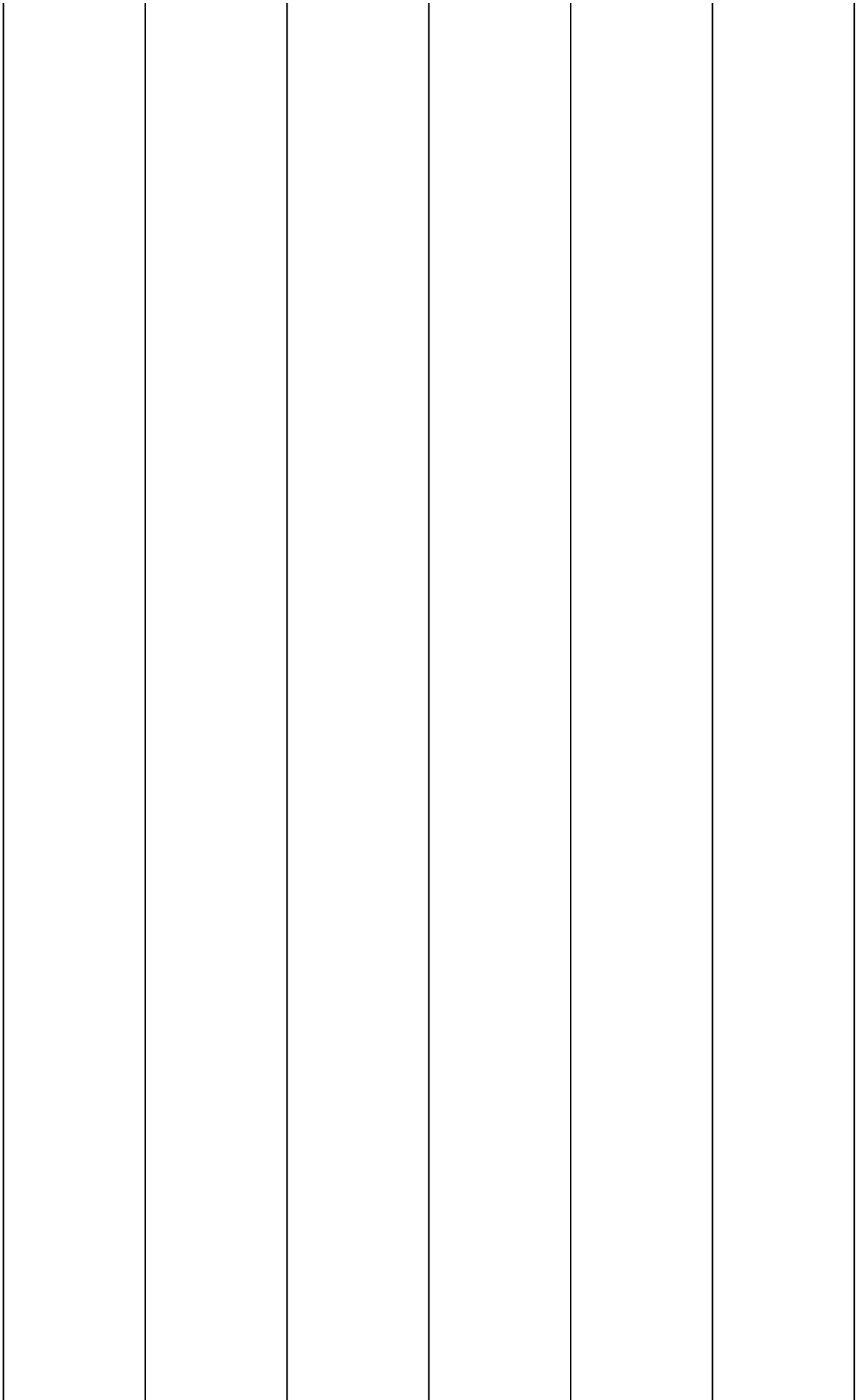


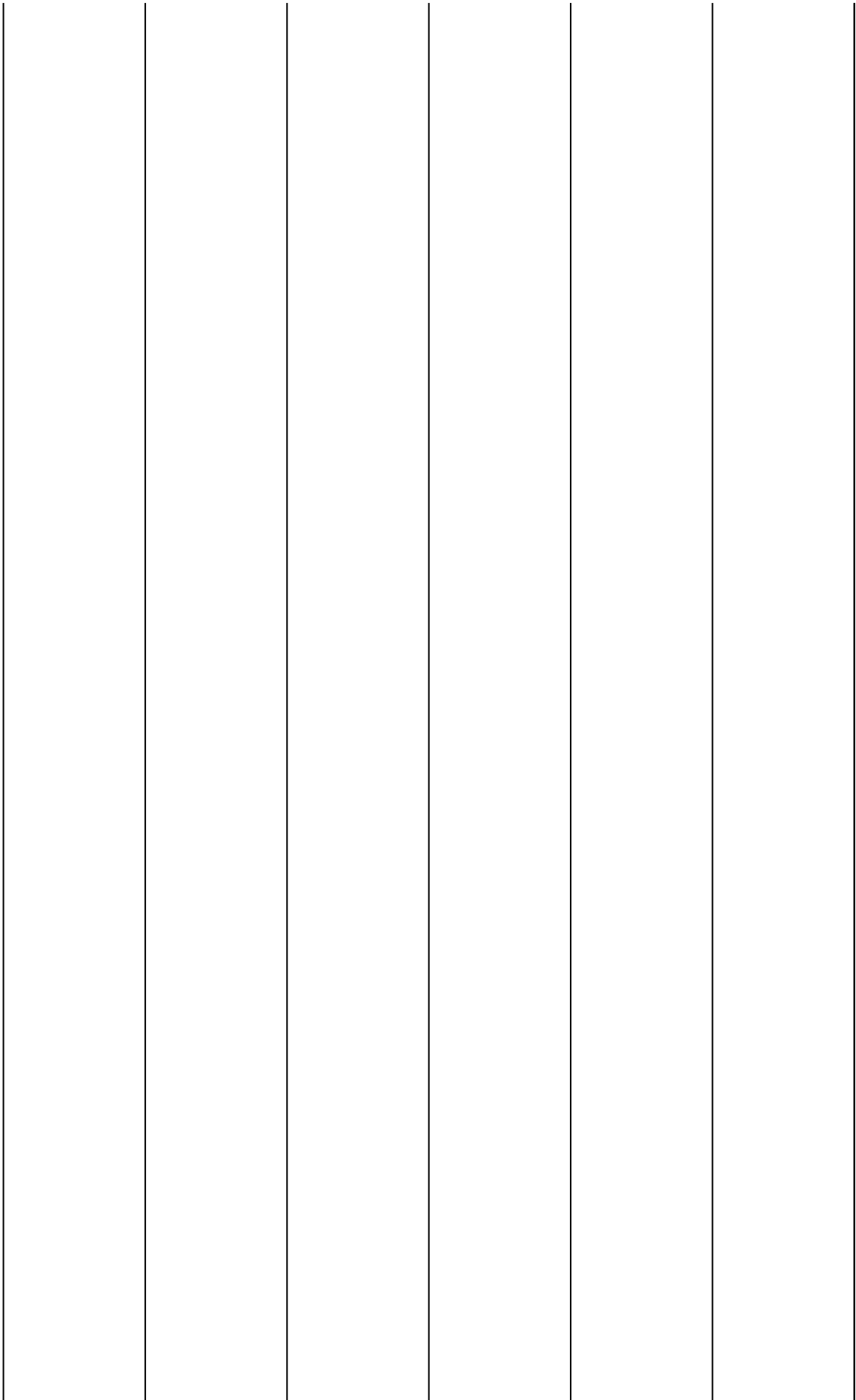


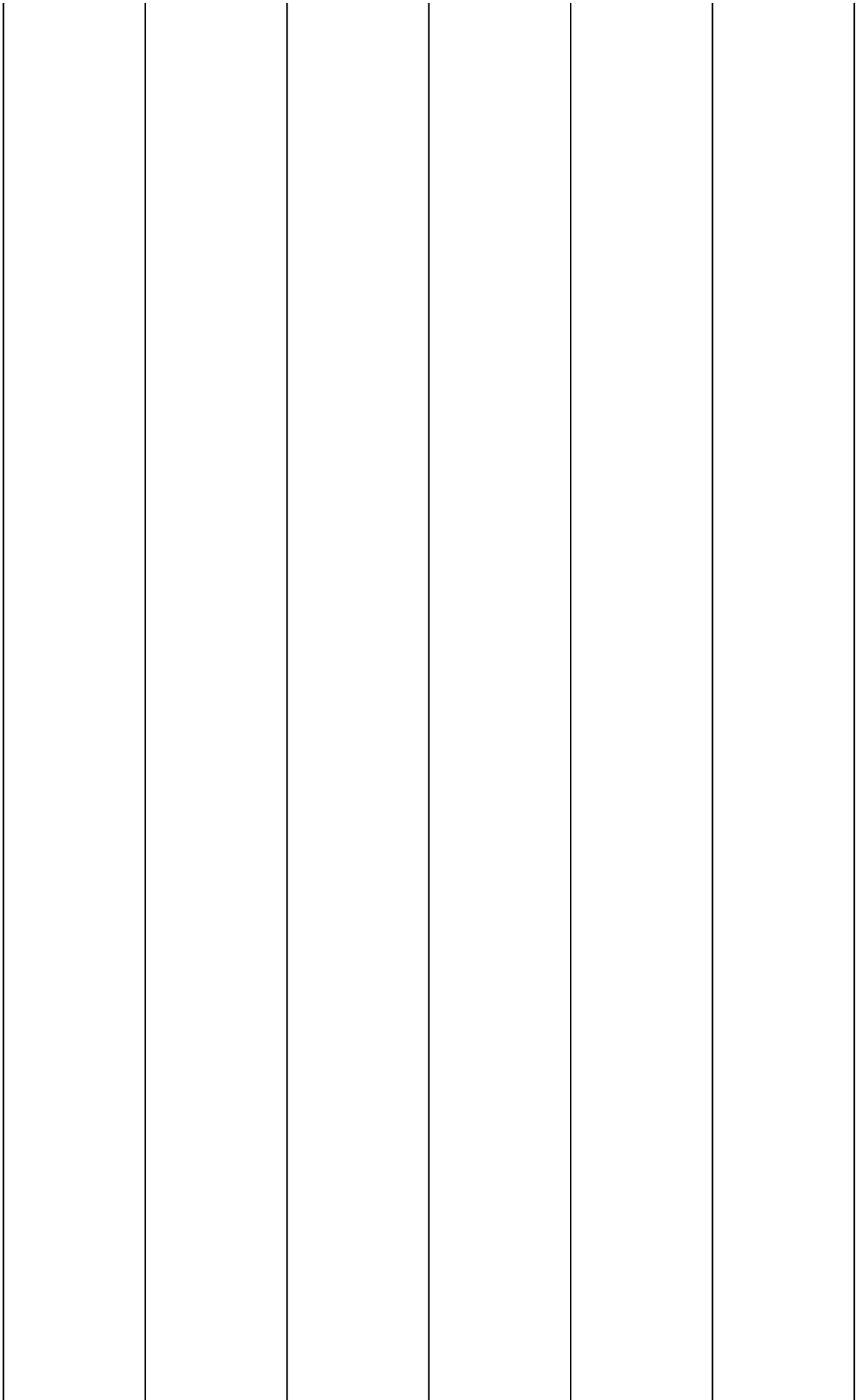


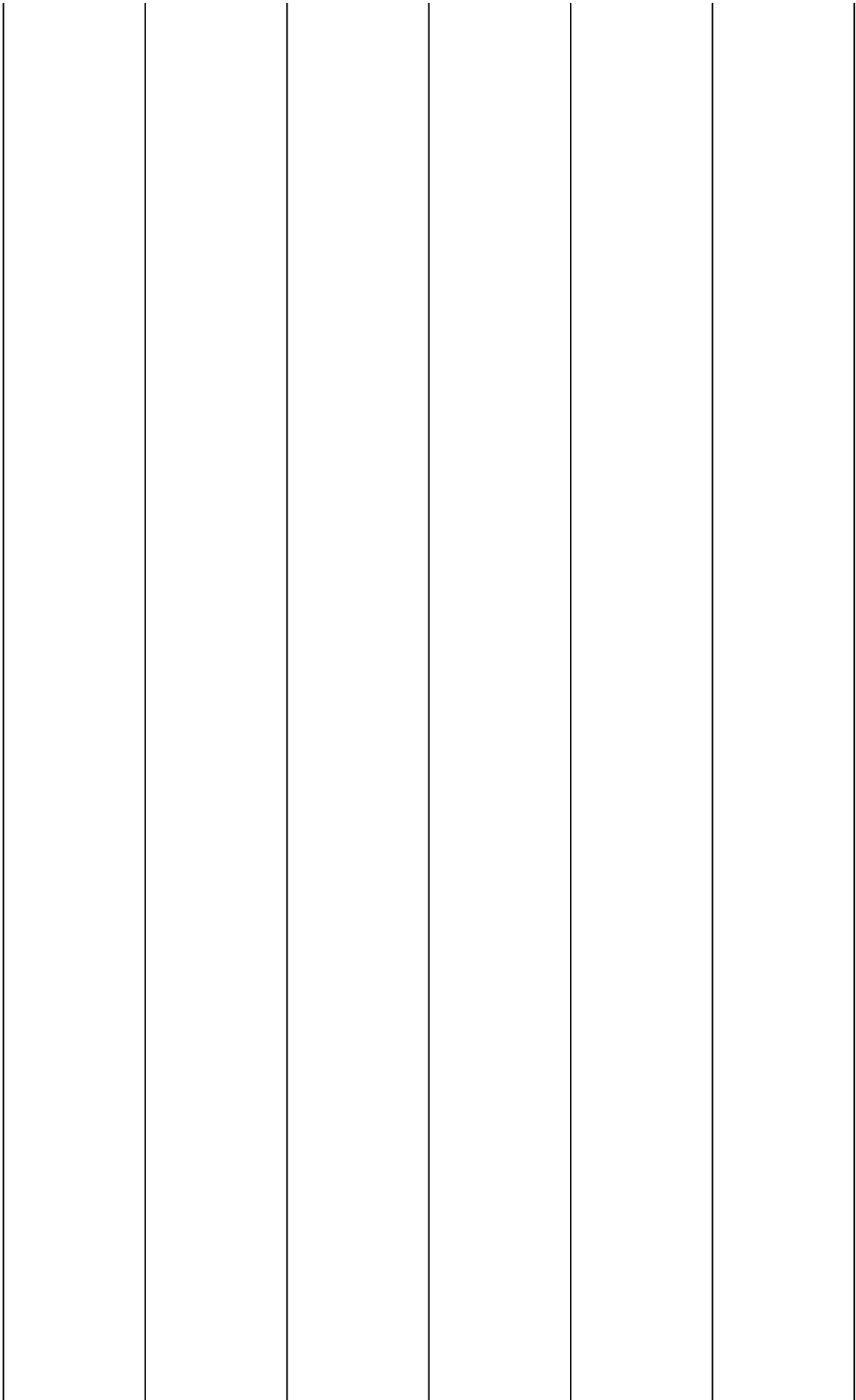


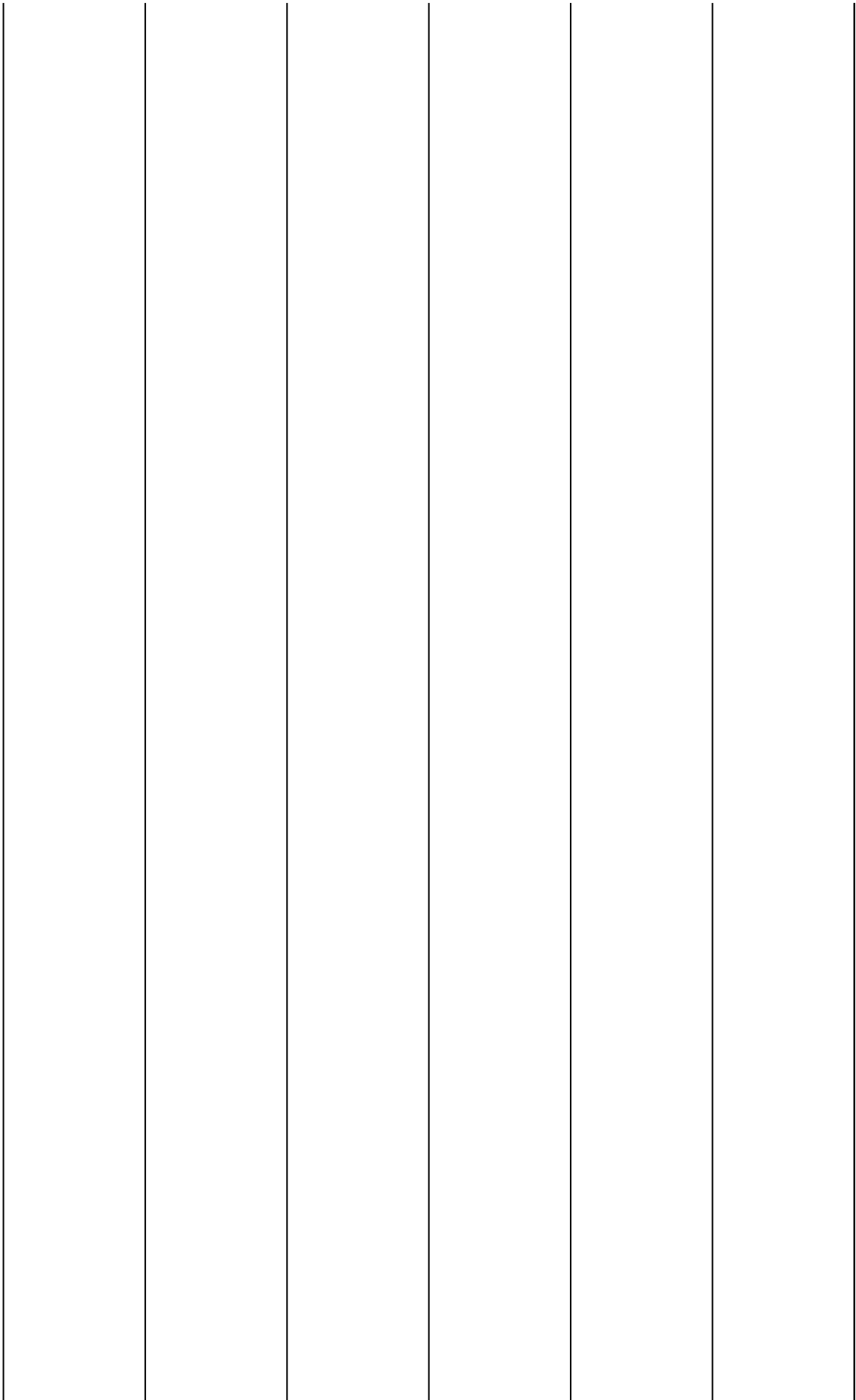


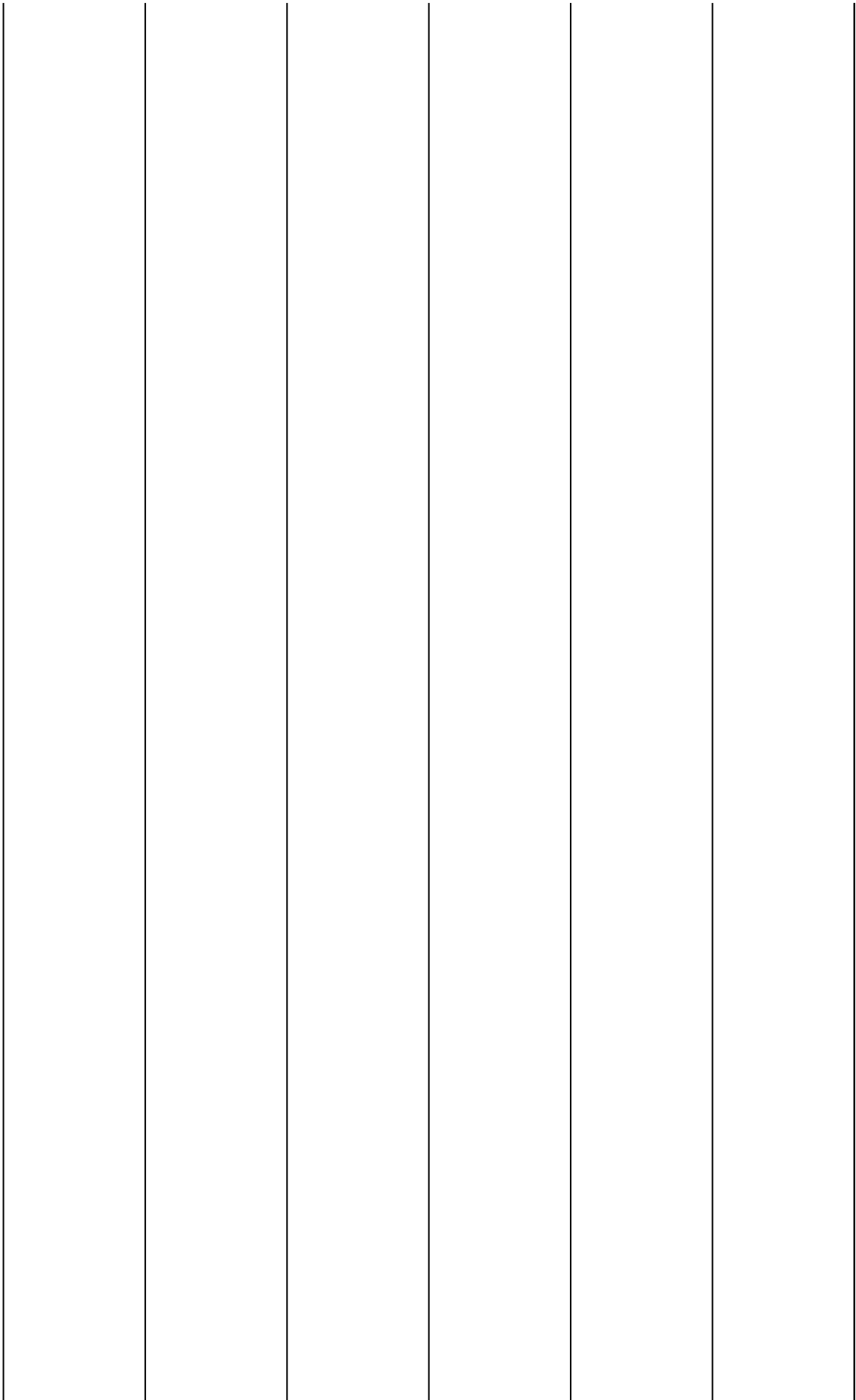


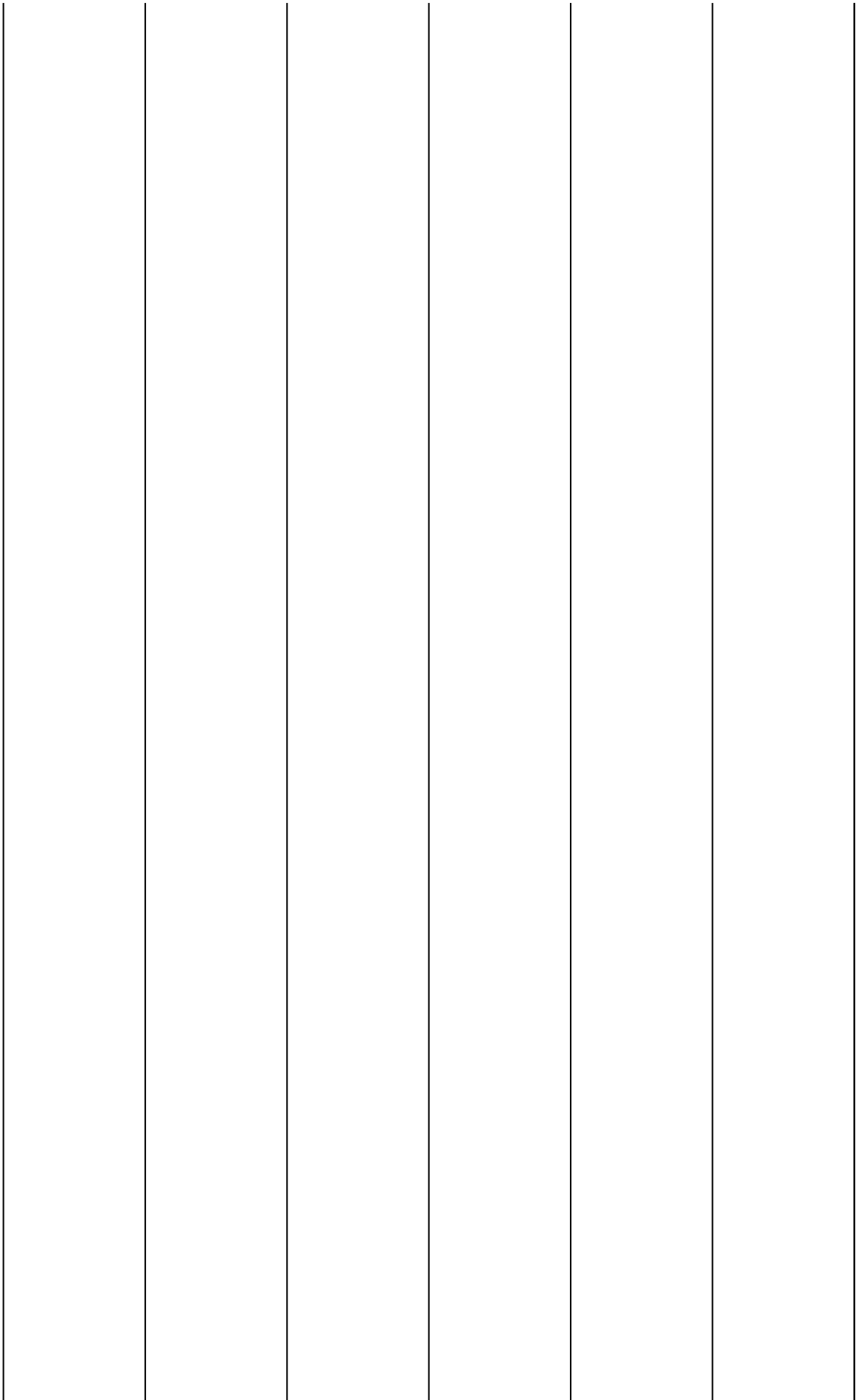






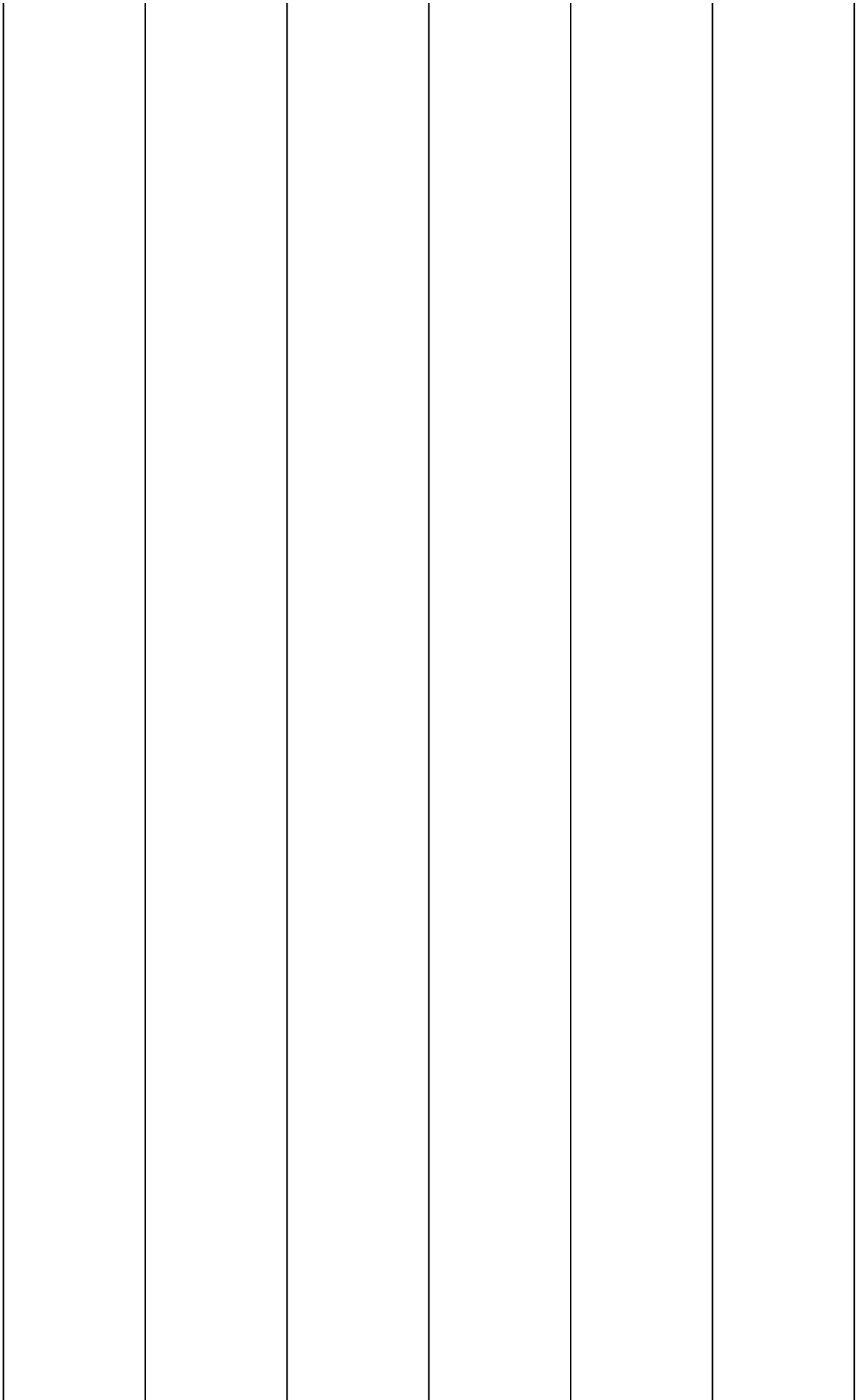


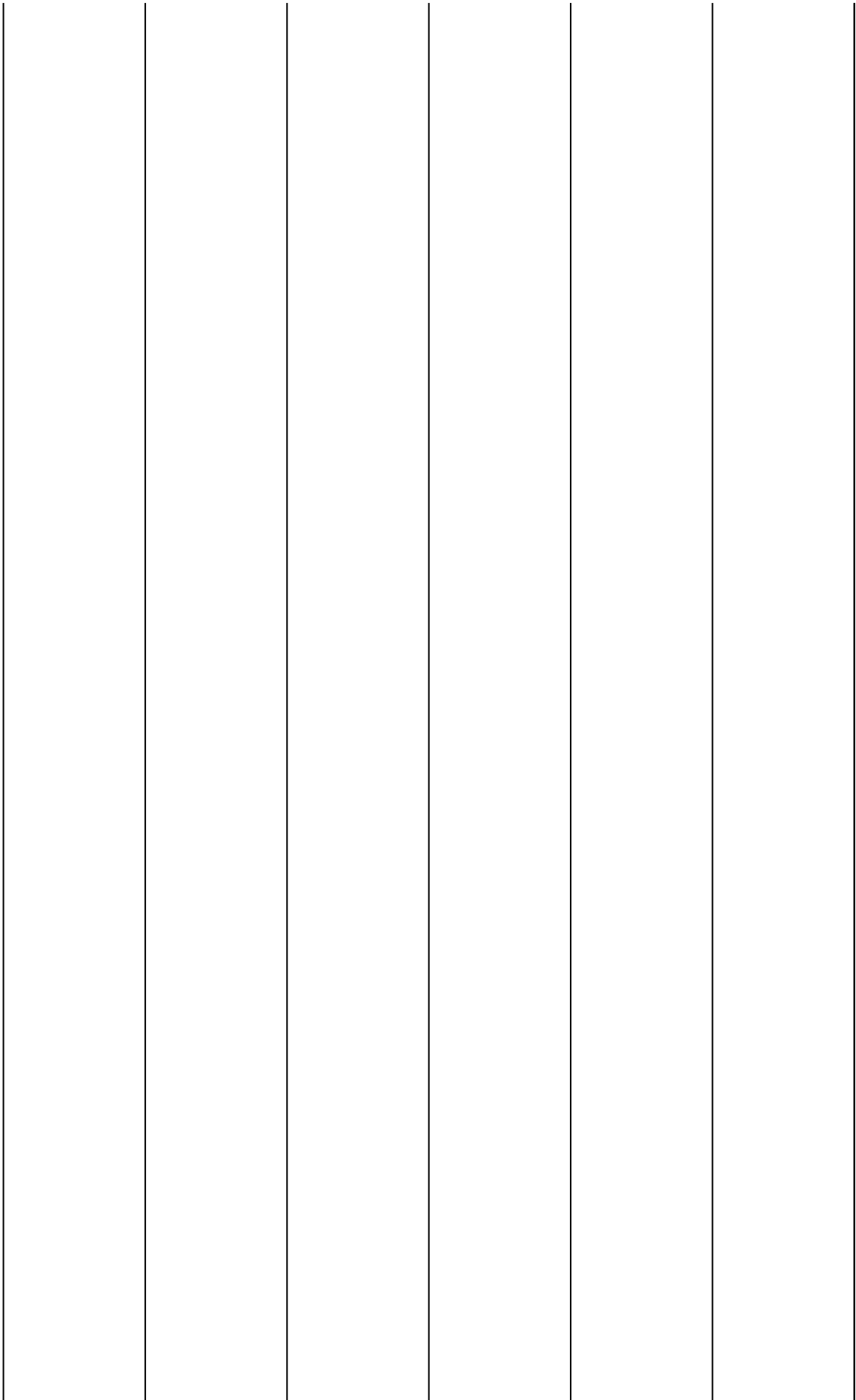




M222 et al.
(35 SNPs)
Tuathal
Techtmar
(~40-100)

Z2959
(Fedlimid
Rechtmar
~80-120 had
6 sons (7
genetic sons
known) >
Conn
Cétchathach
~110-157)



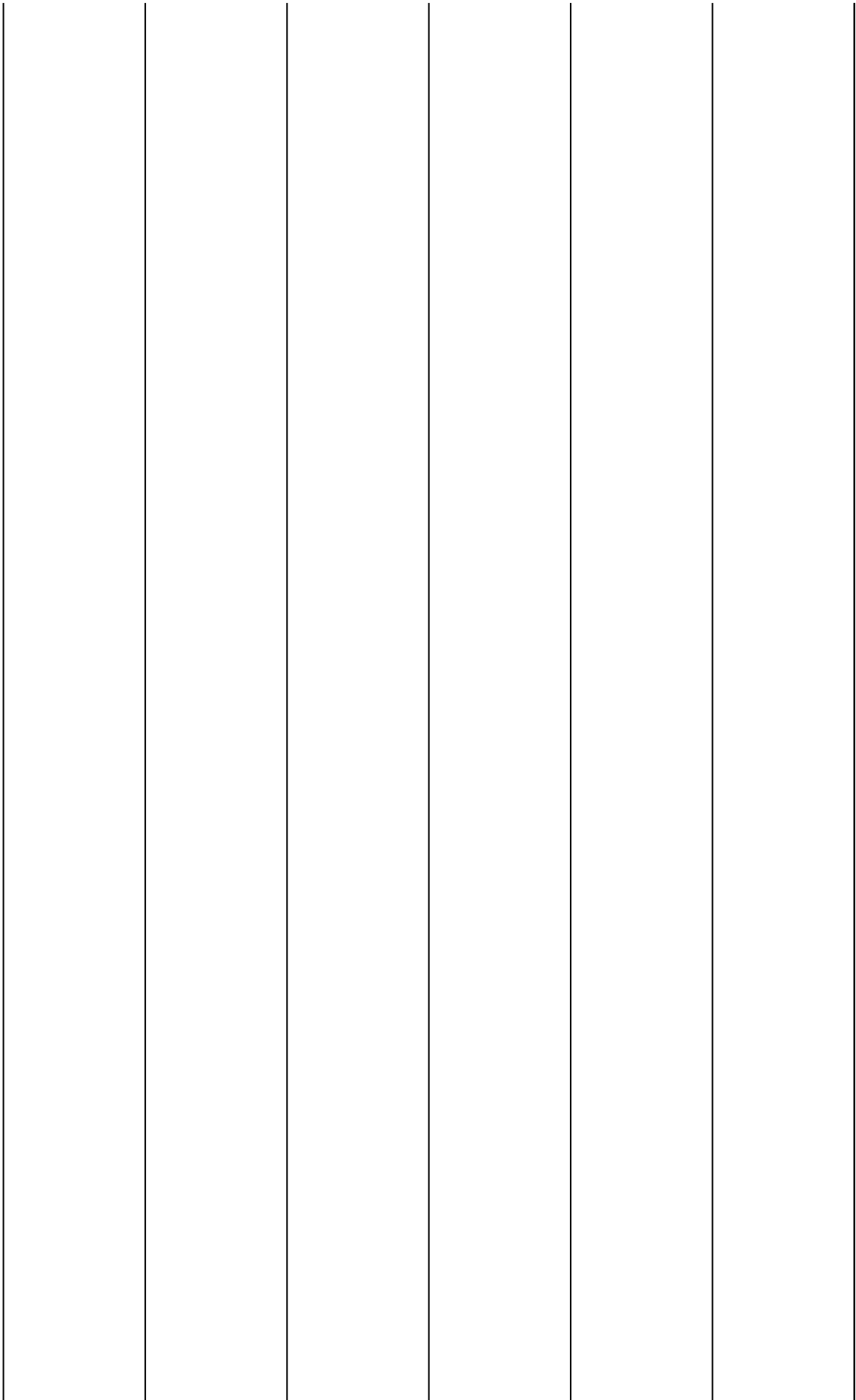


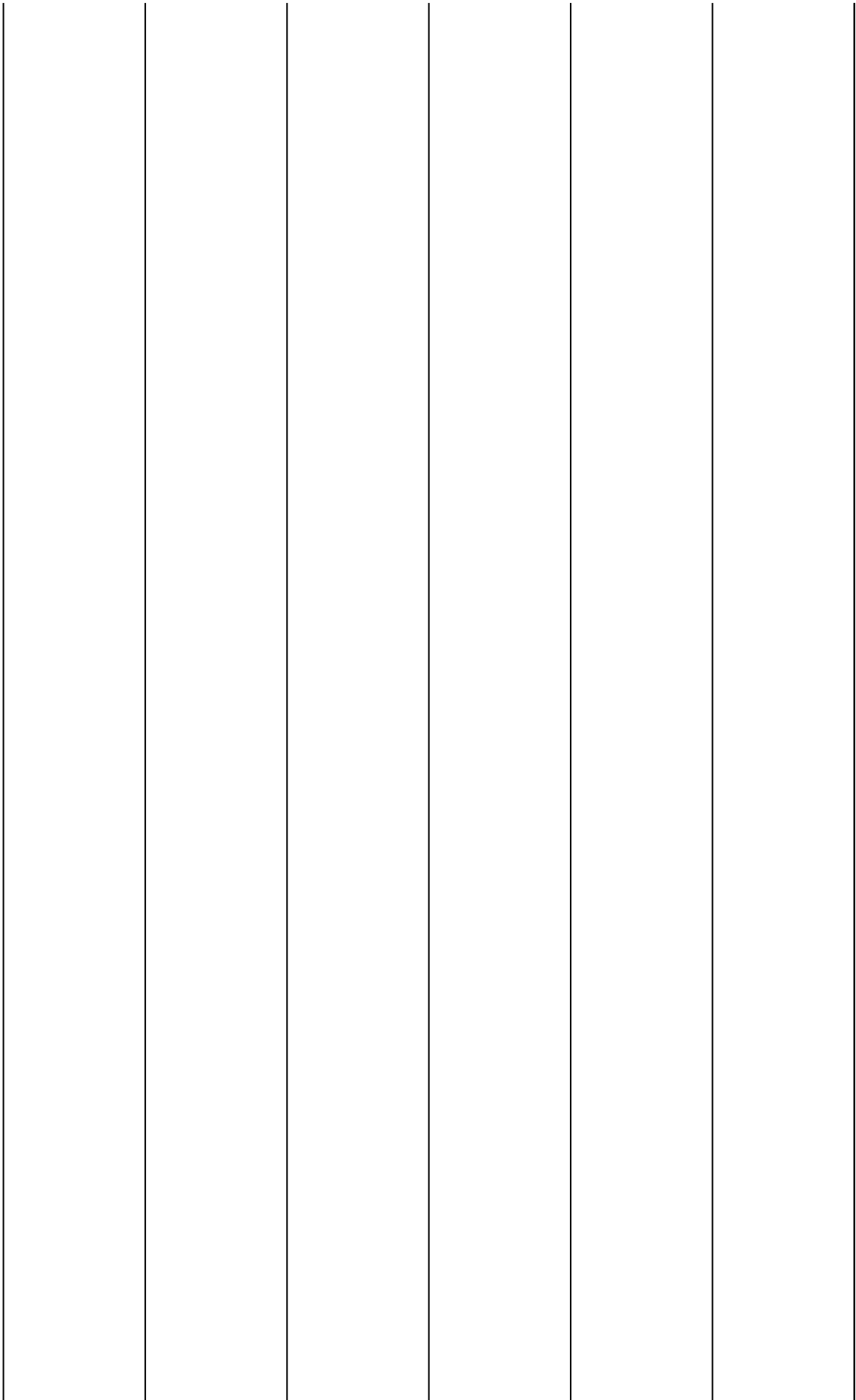
S658 (Art
mac Cuinn
~140-195>
Cormac mac
Airt ~180-
250)

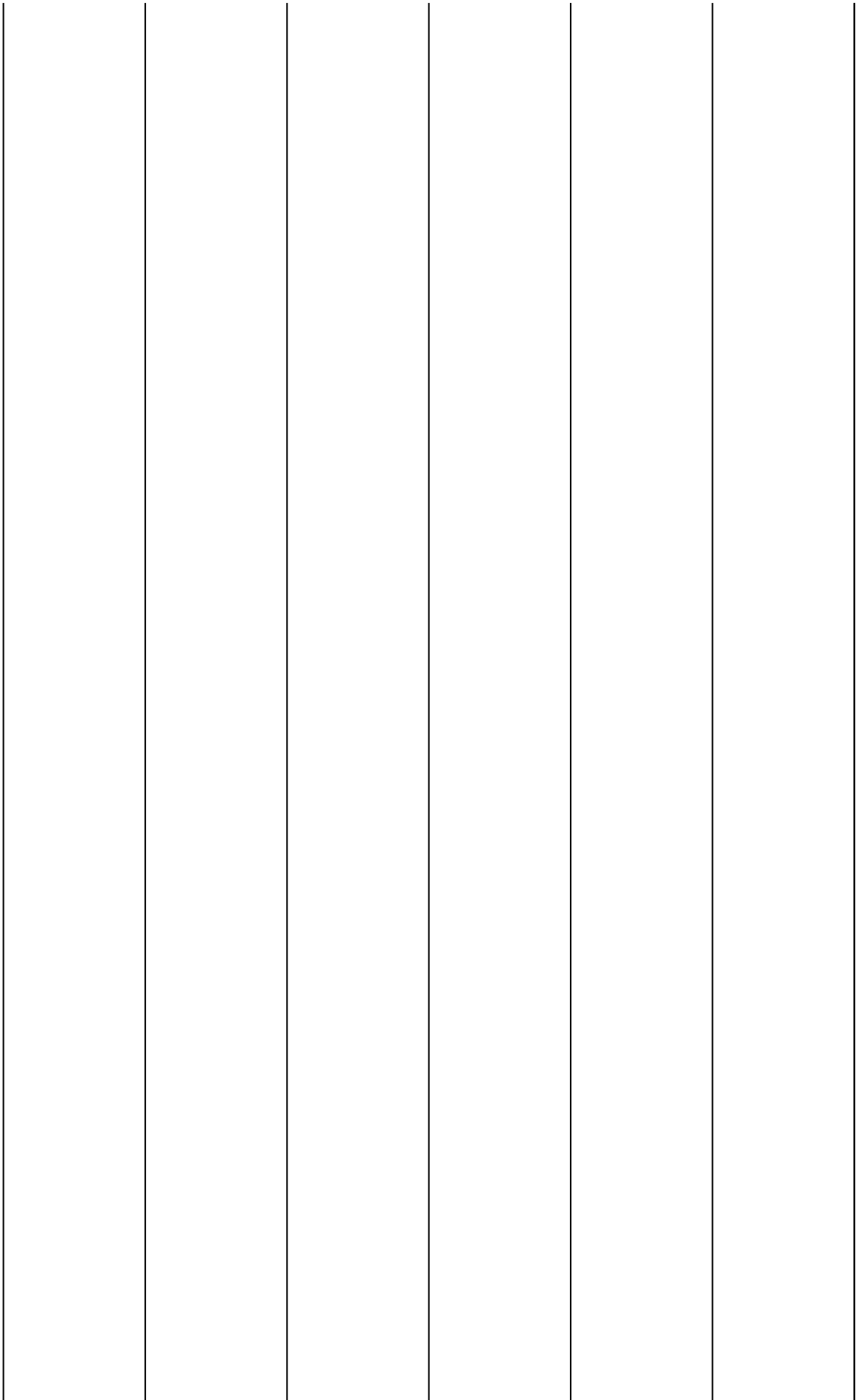
DF104
(Caibre
Lifechair
~210-272)

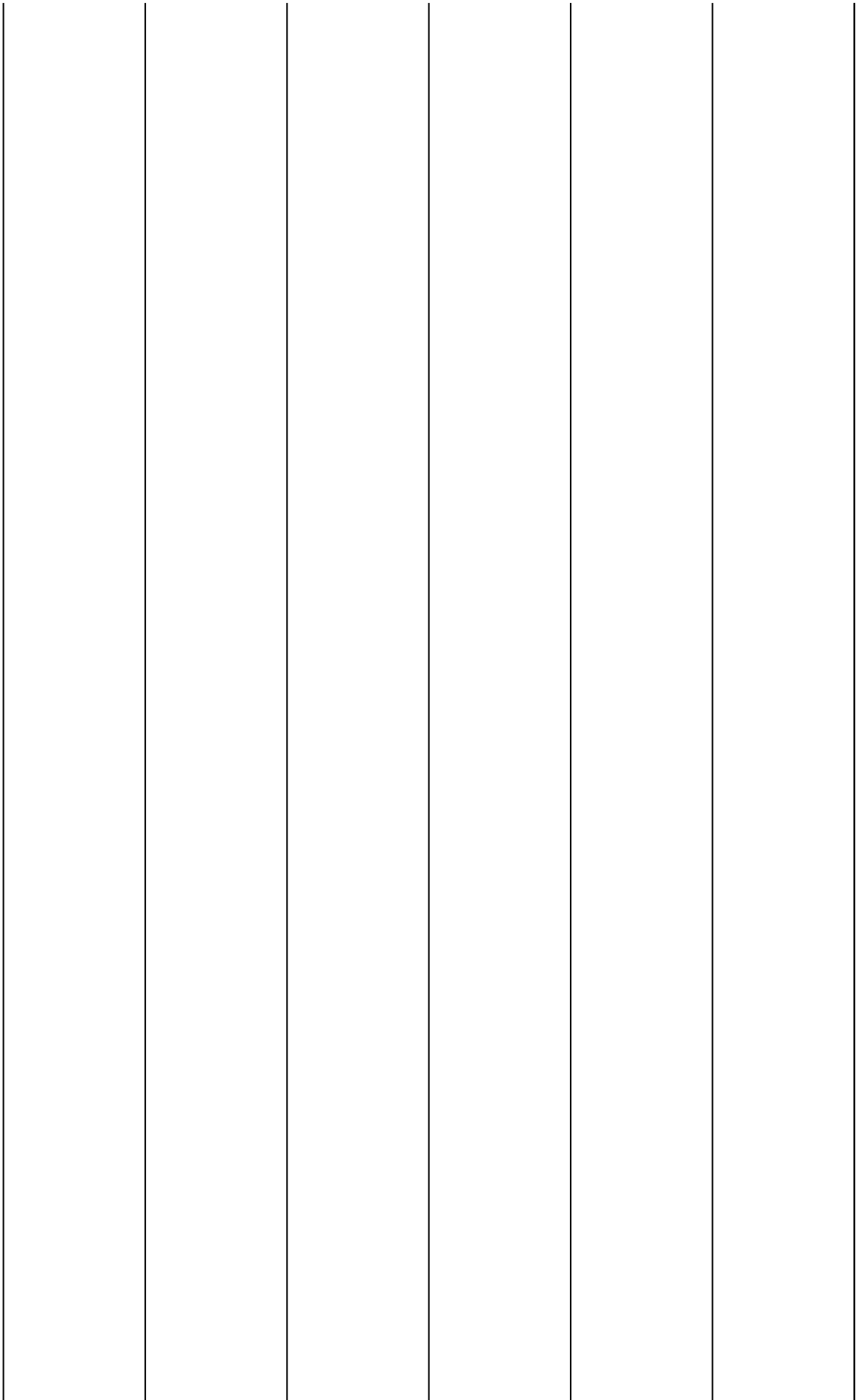
DF105
(Fiacha
Sraibhtine
~240-306 >
Muredach
Tirech ~270-
343)

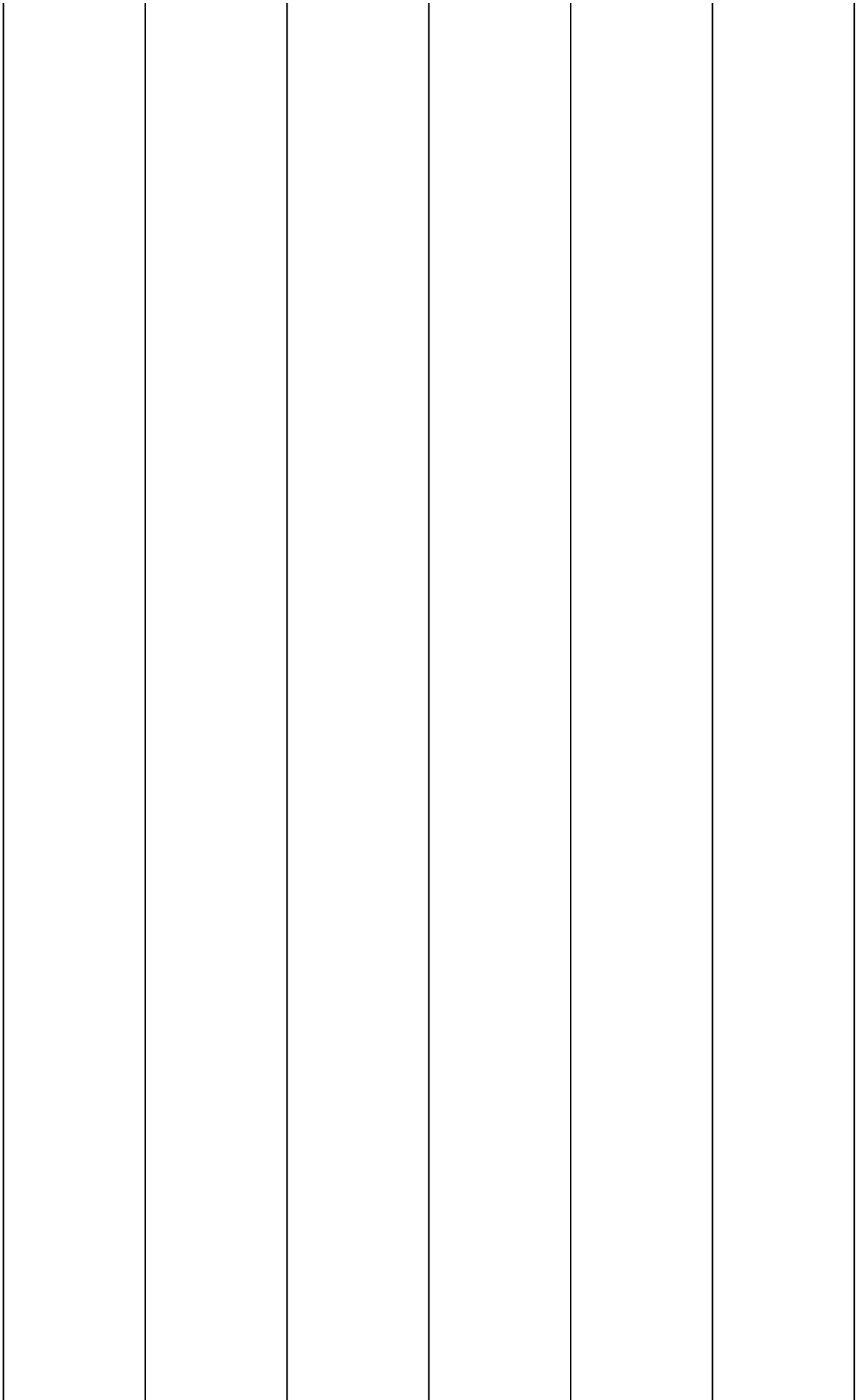
DF108
(Eochaid
Mugmedon
~310-365) >
DF109 (Niall
Noígíallach,
~340-405; 42
sons/
grandsons)

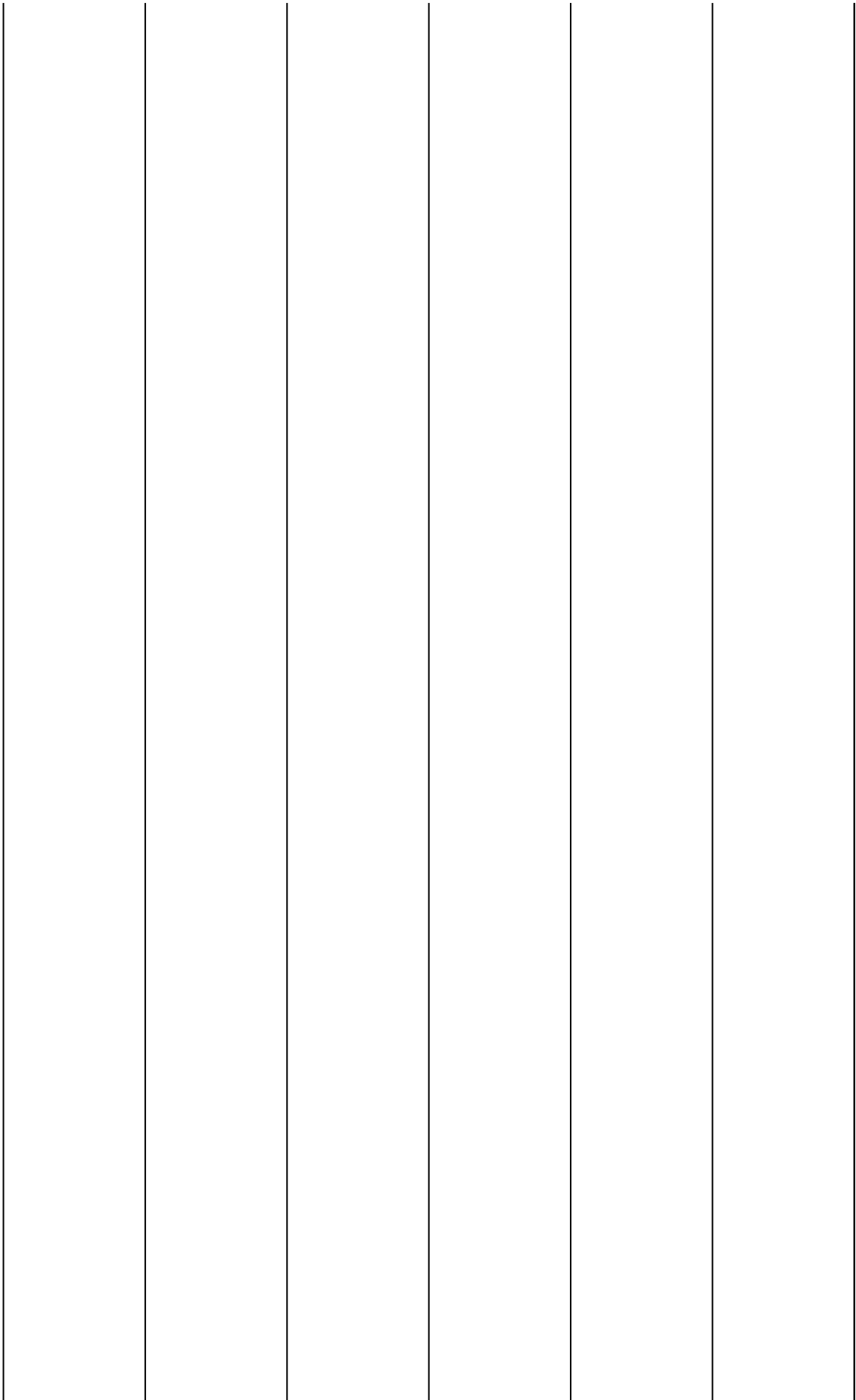


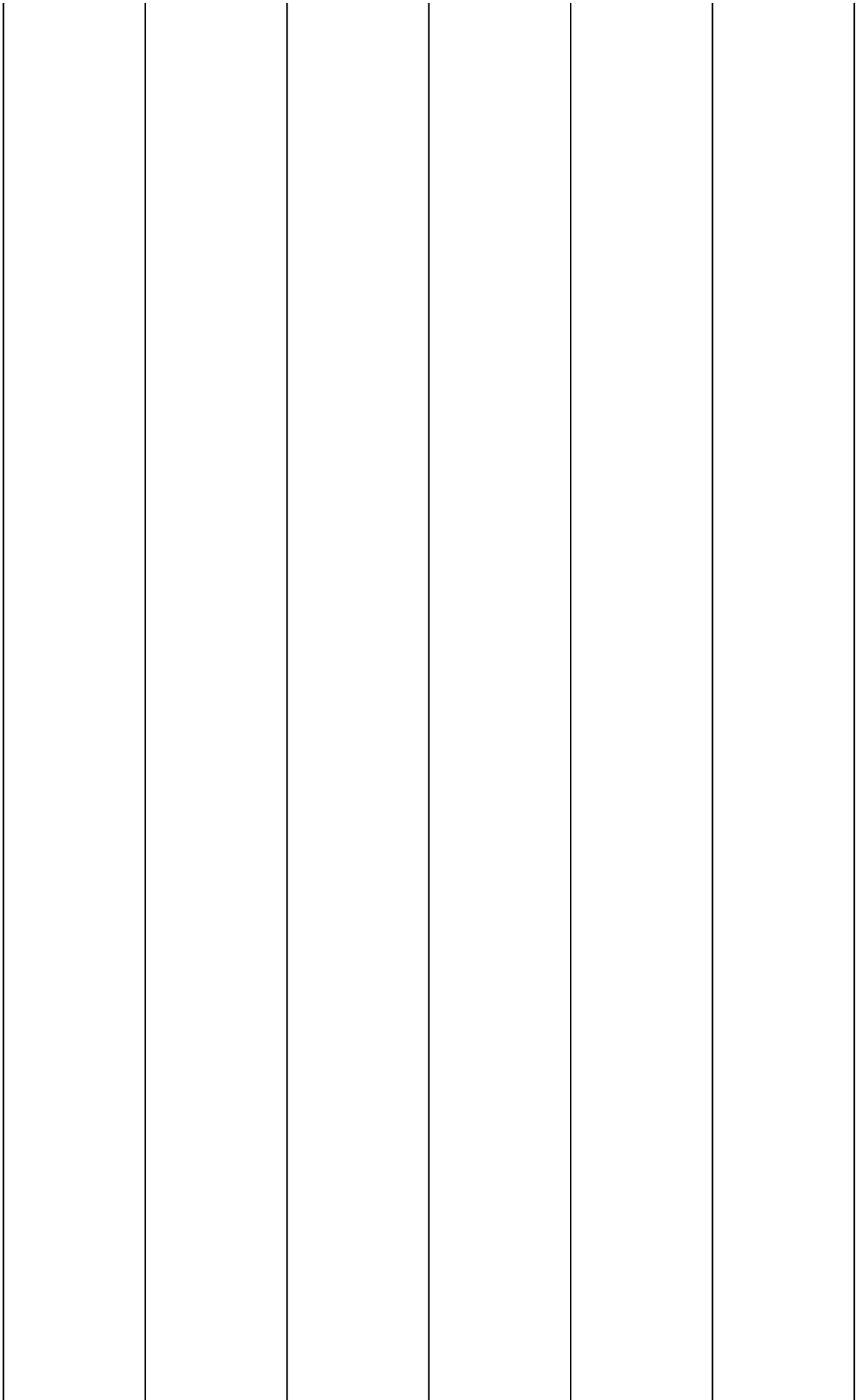


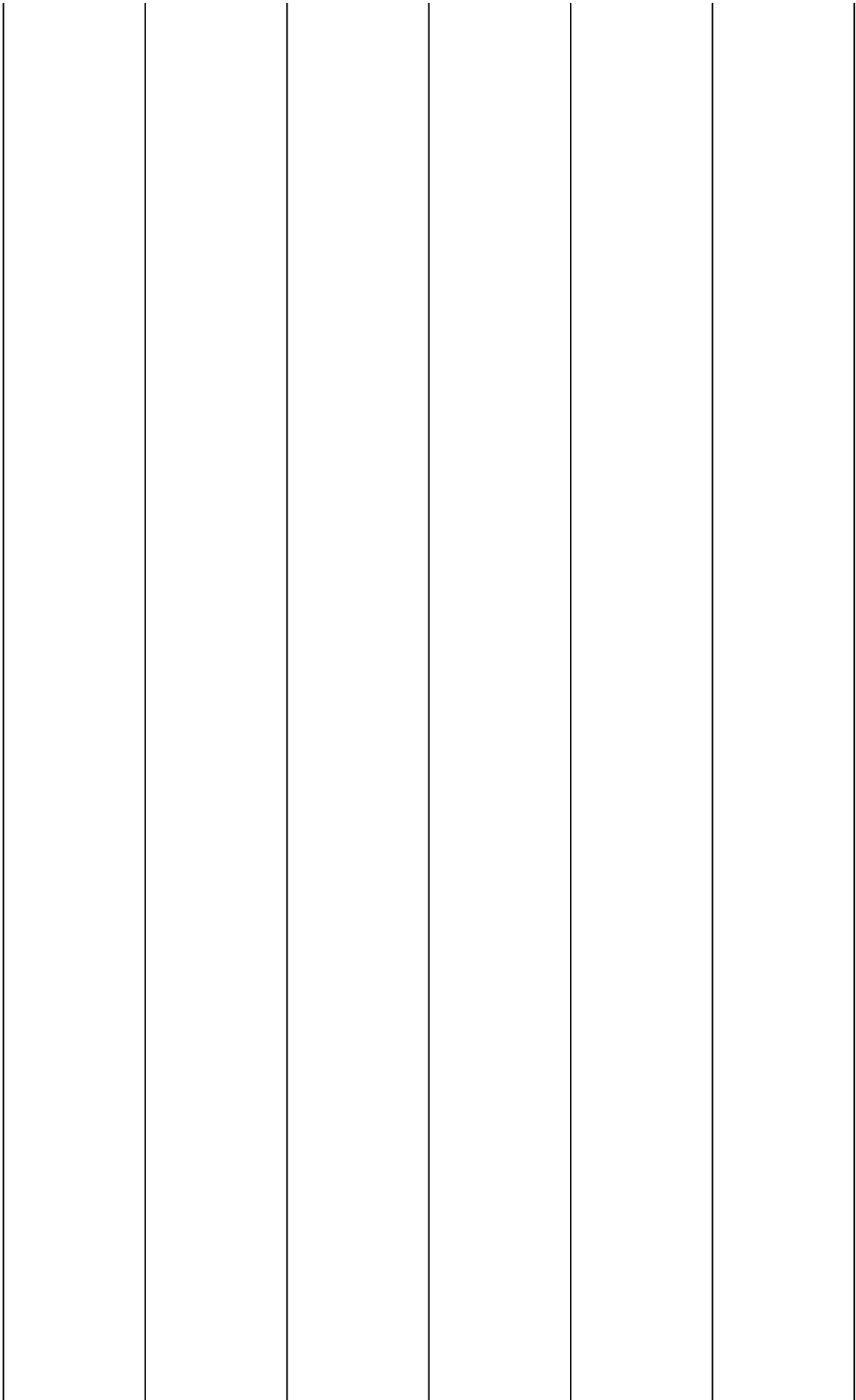


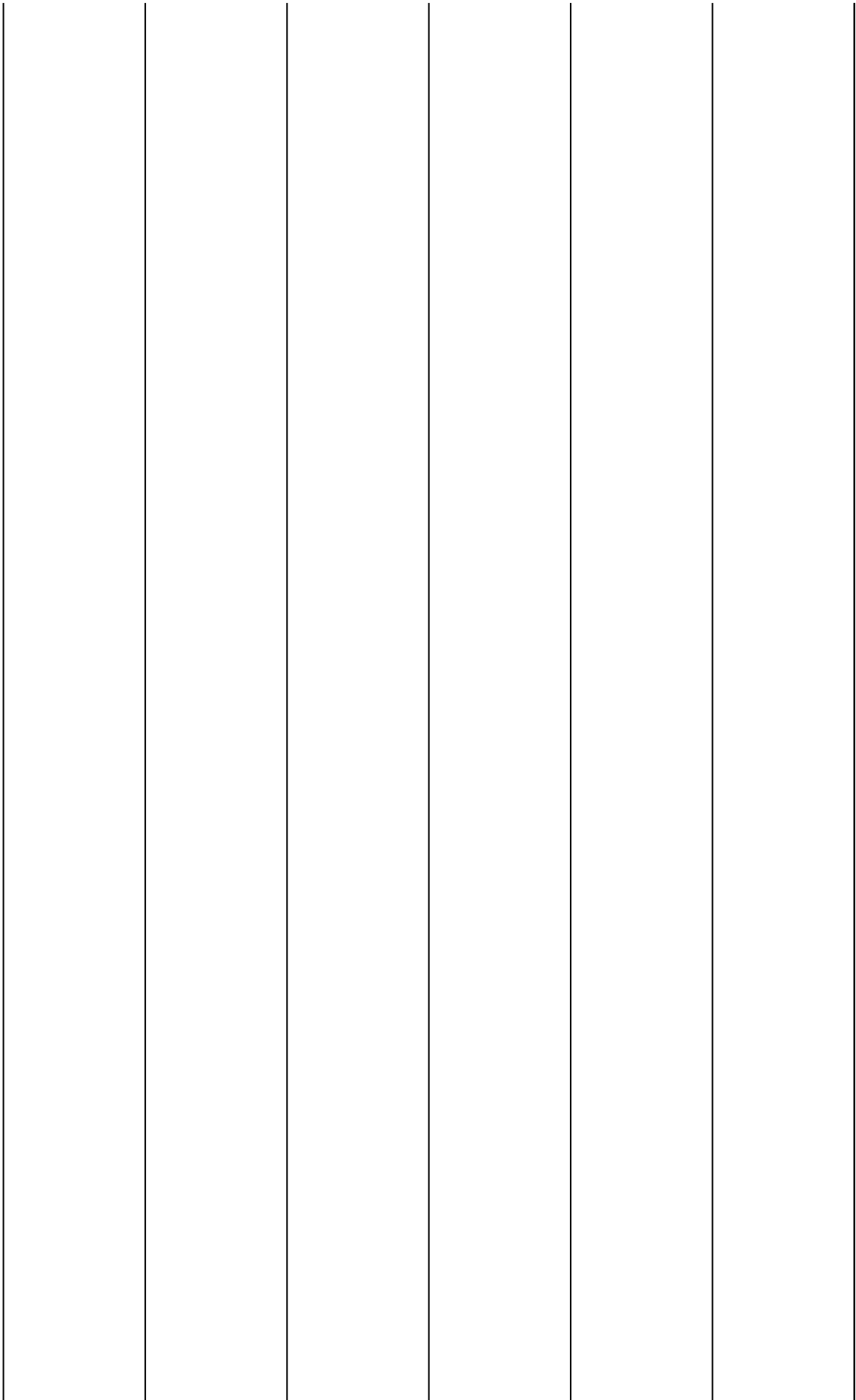


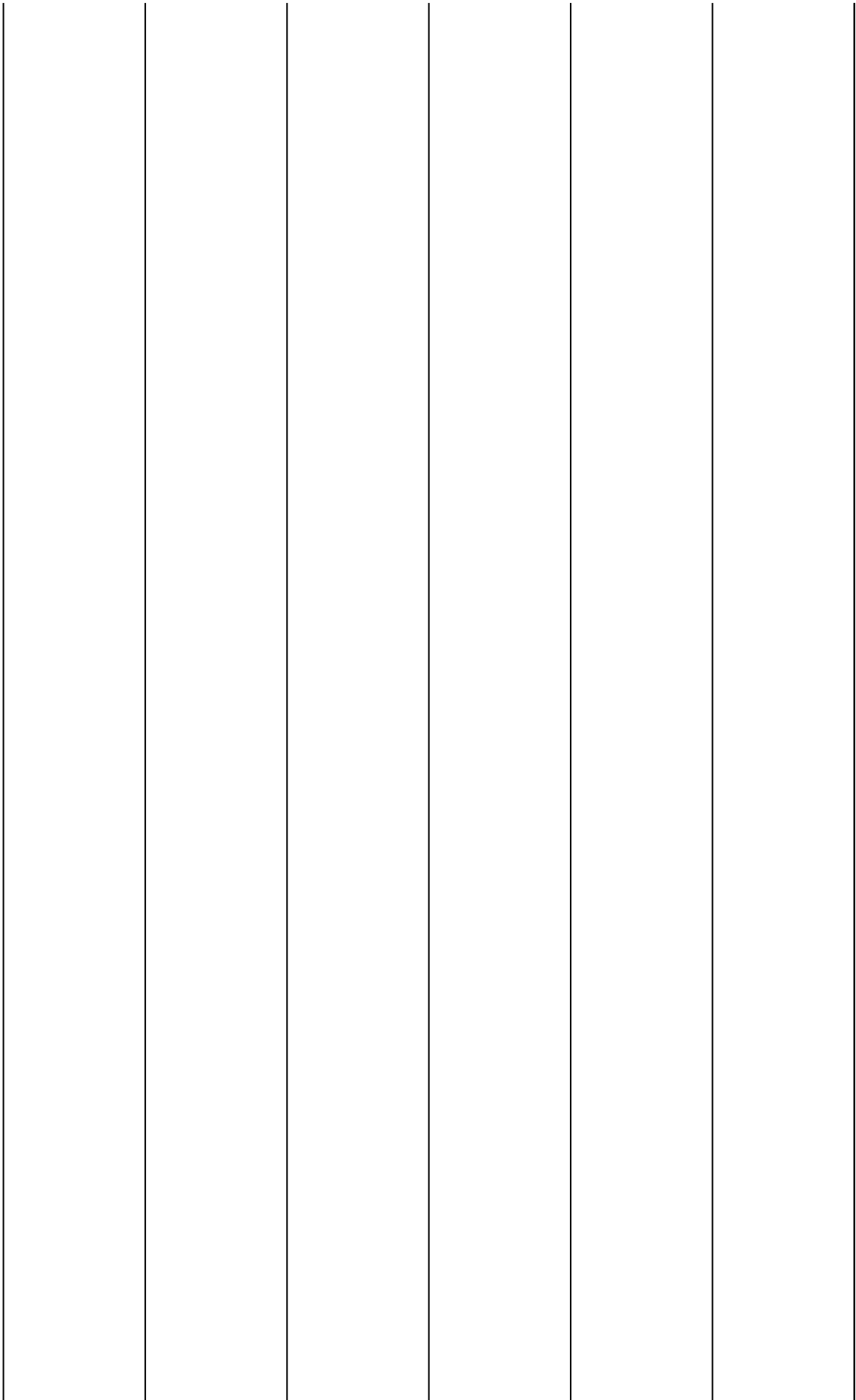


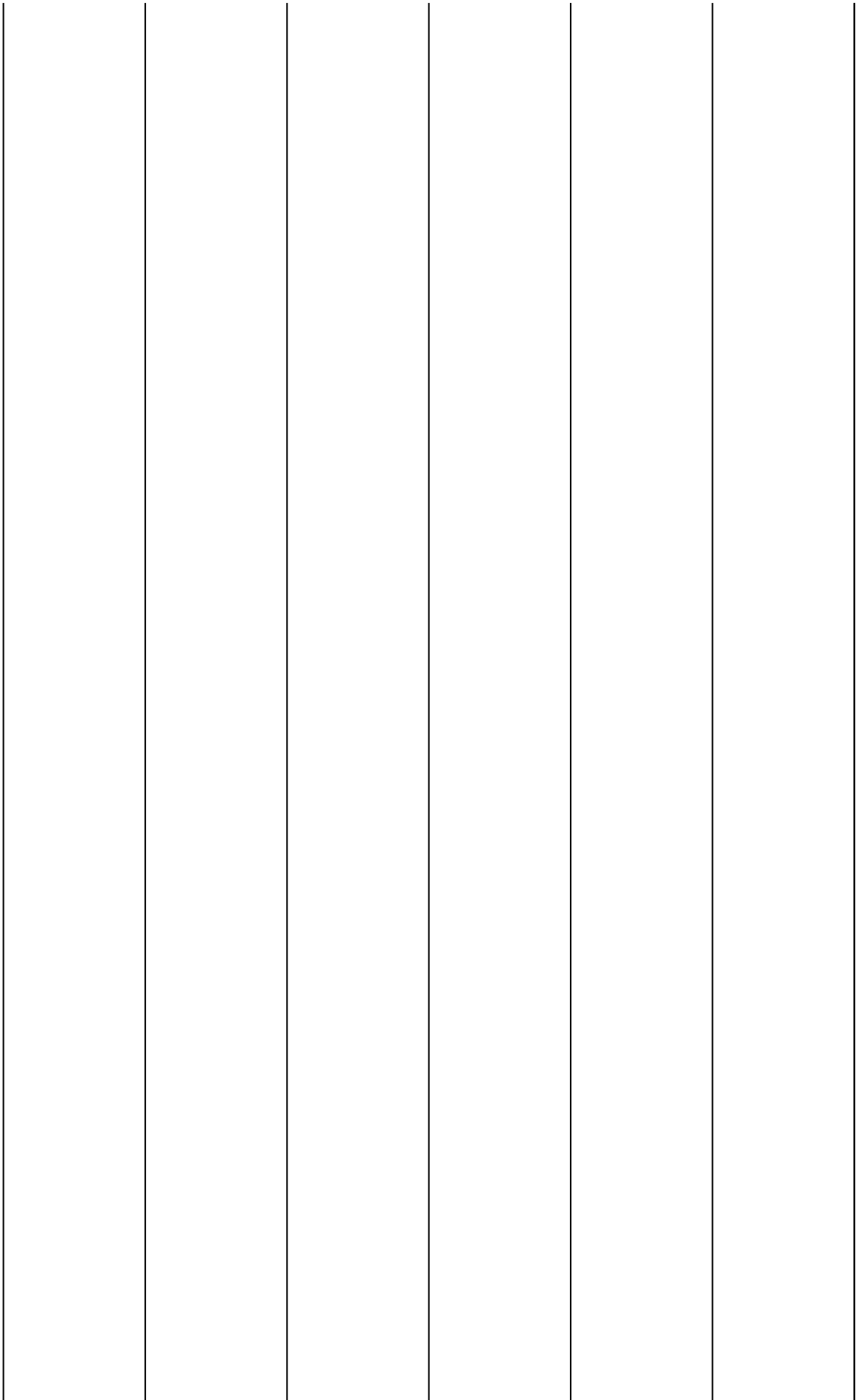


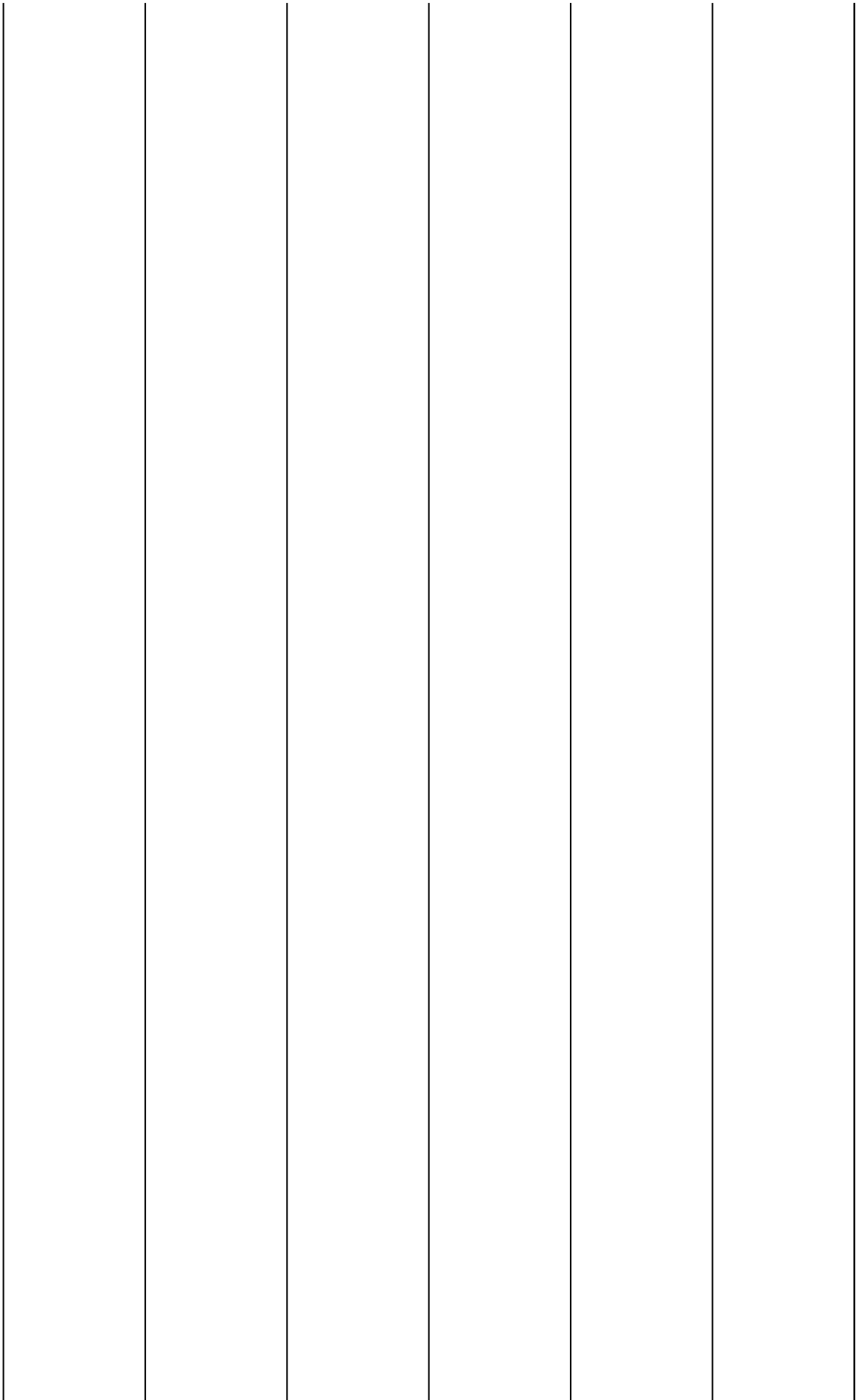


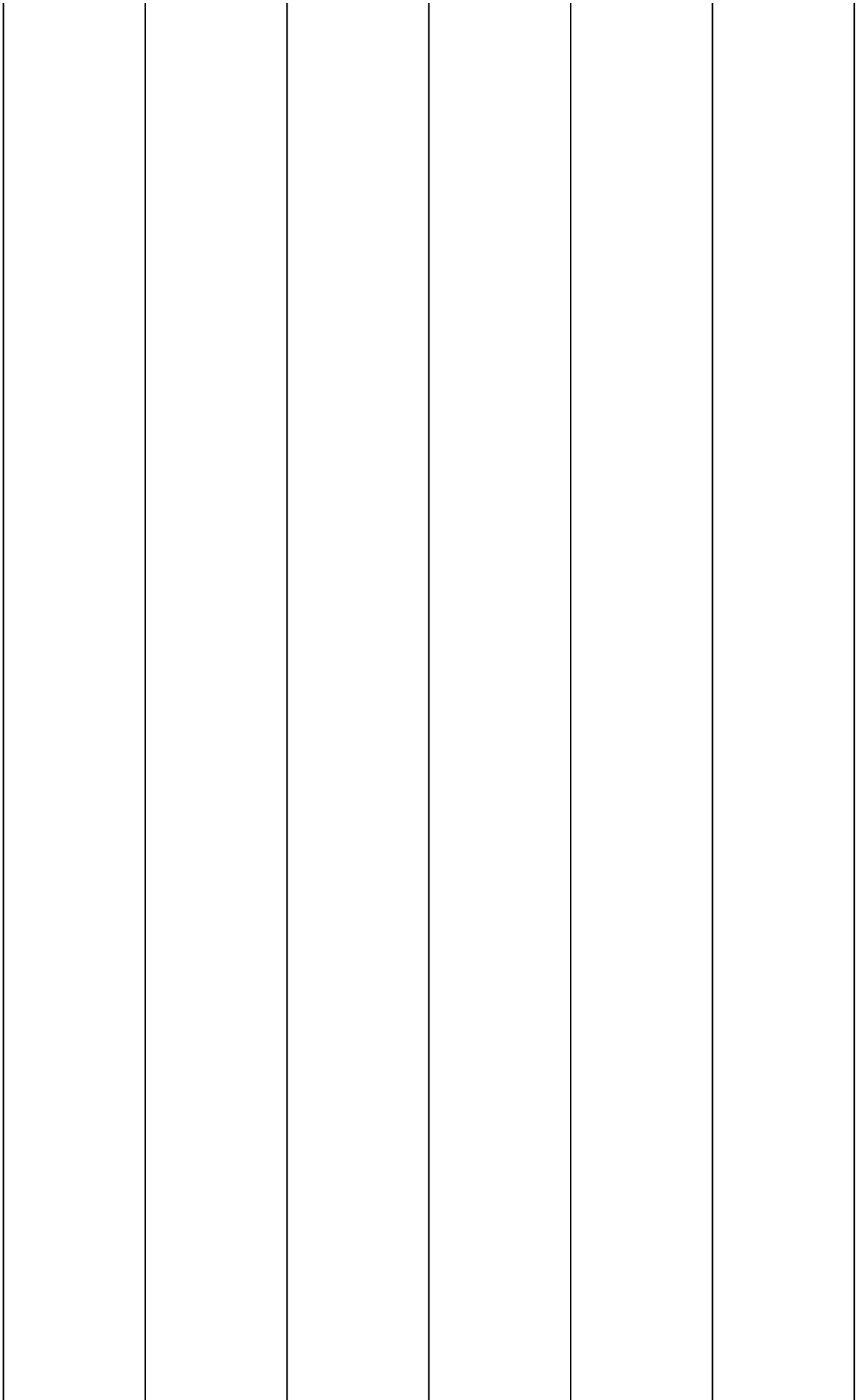


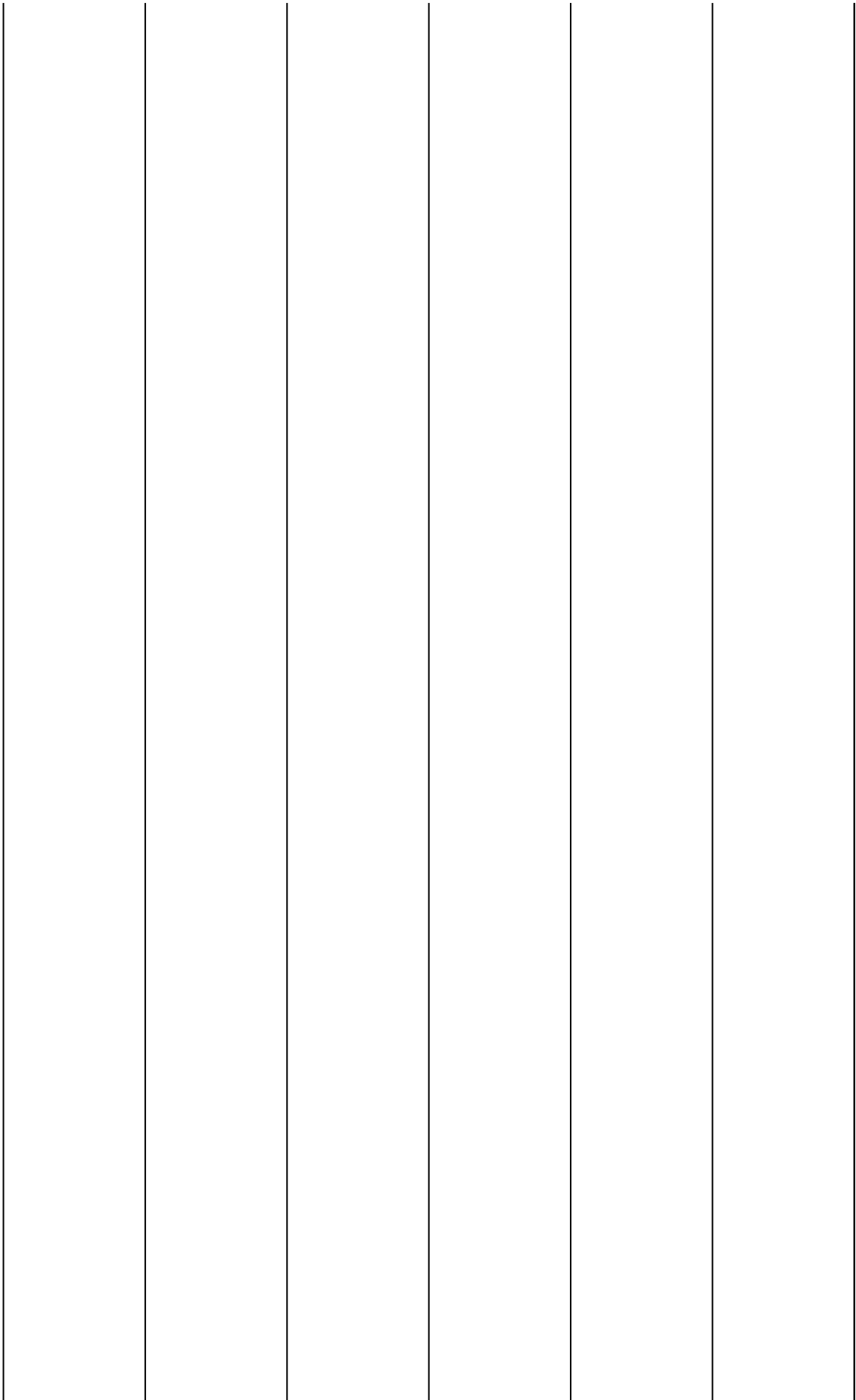


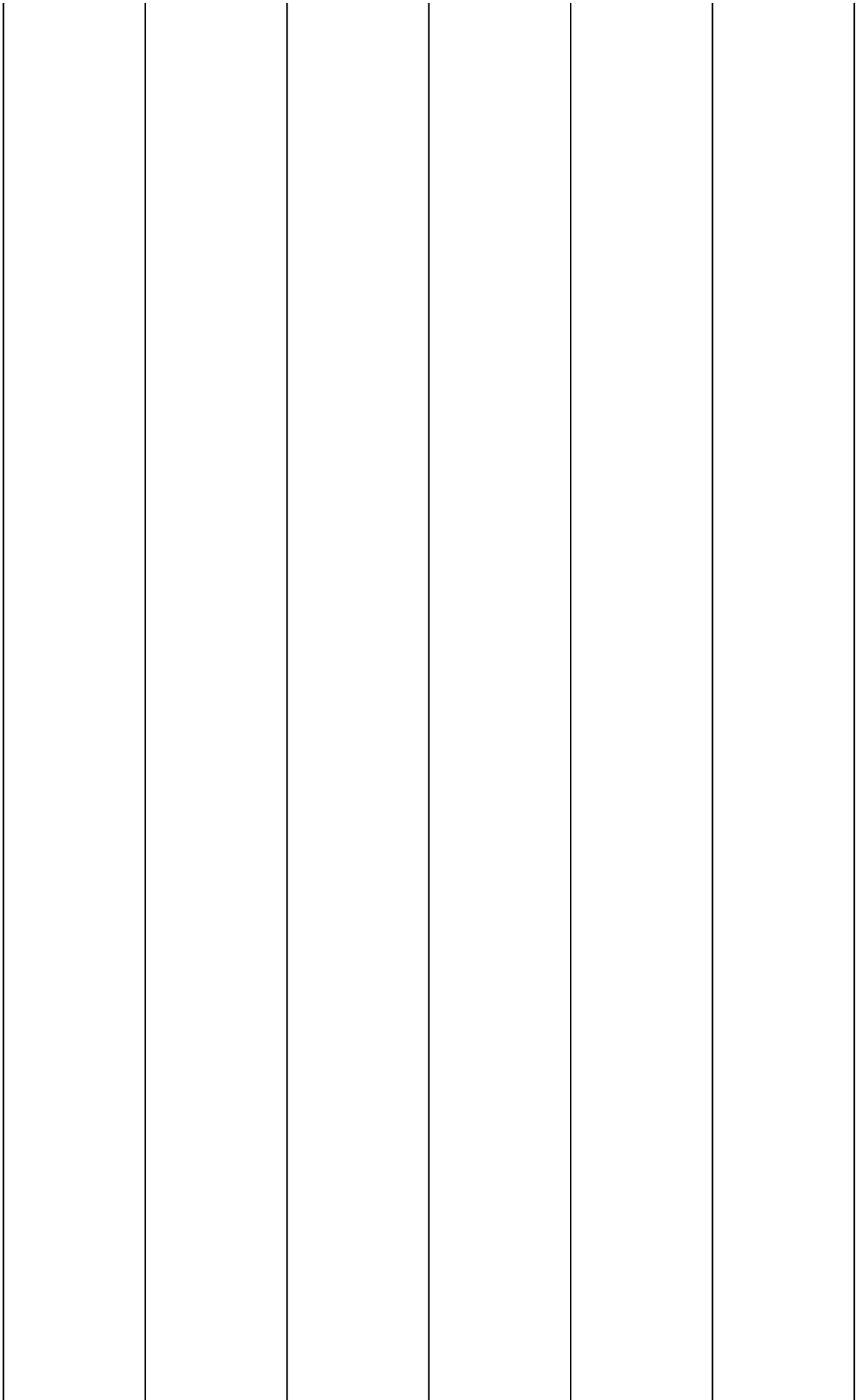


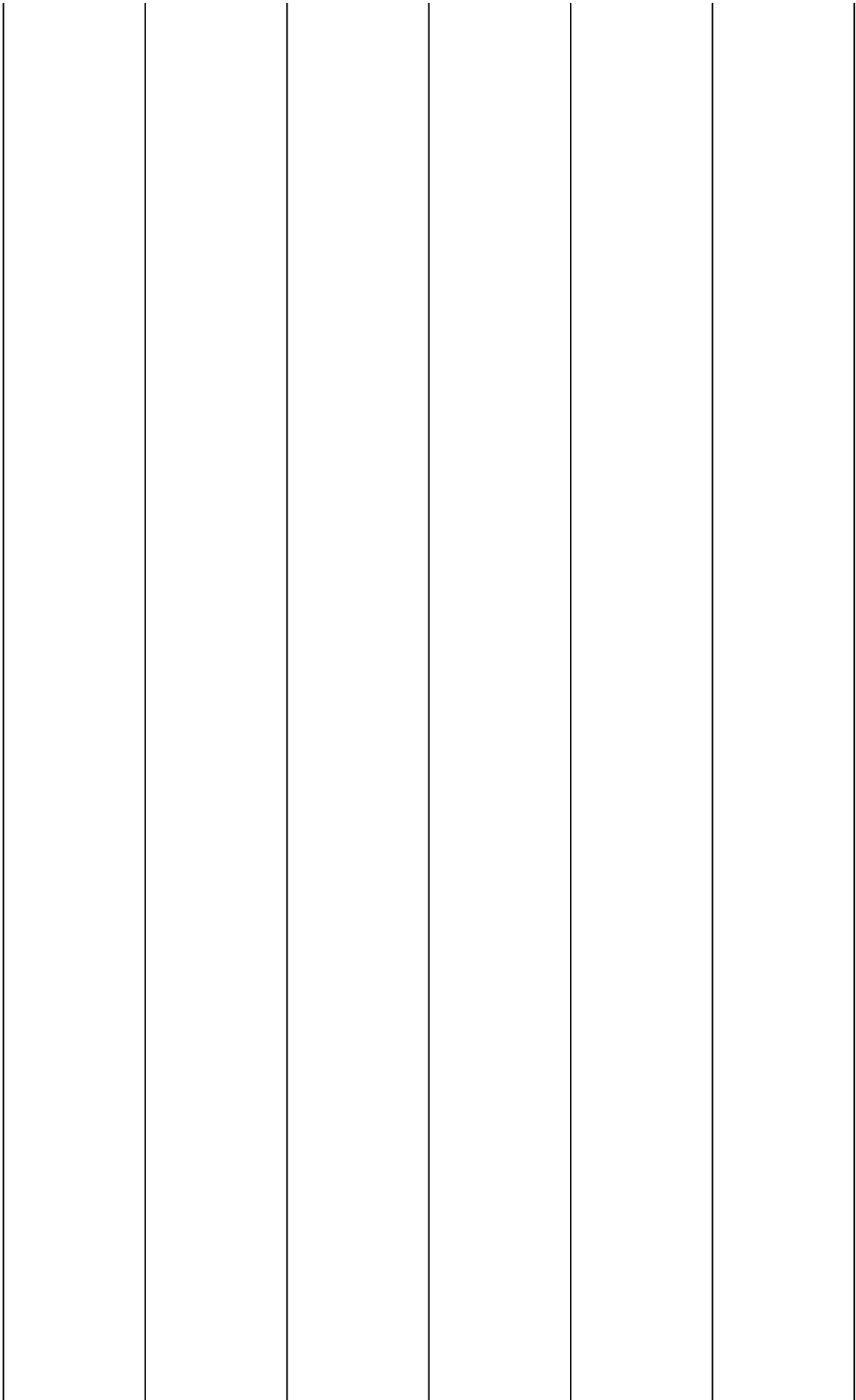


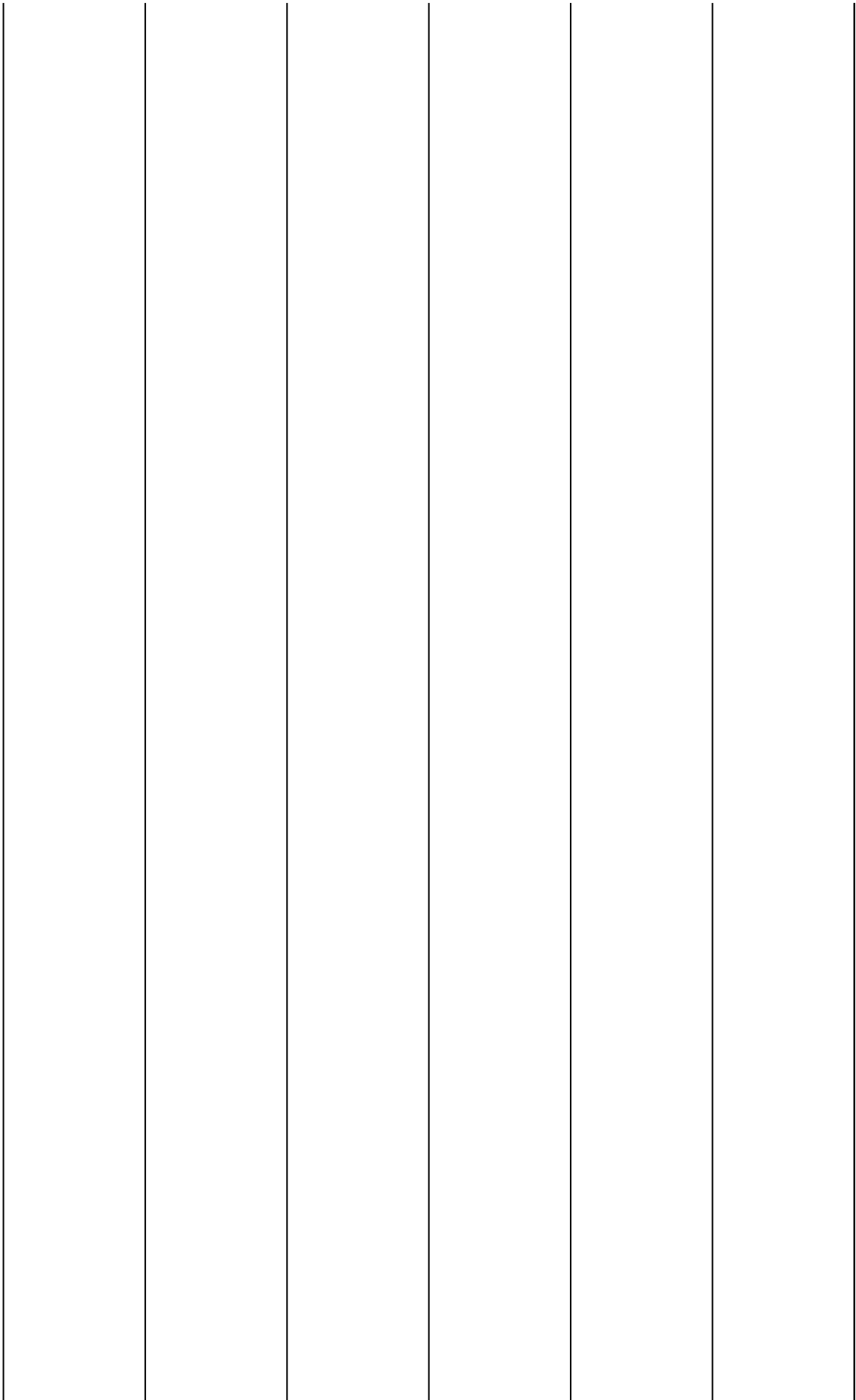


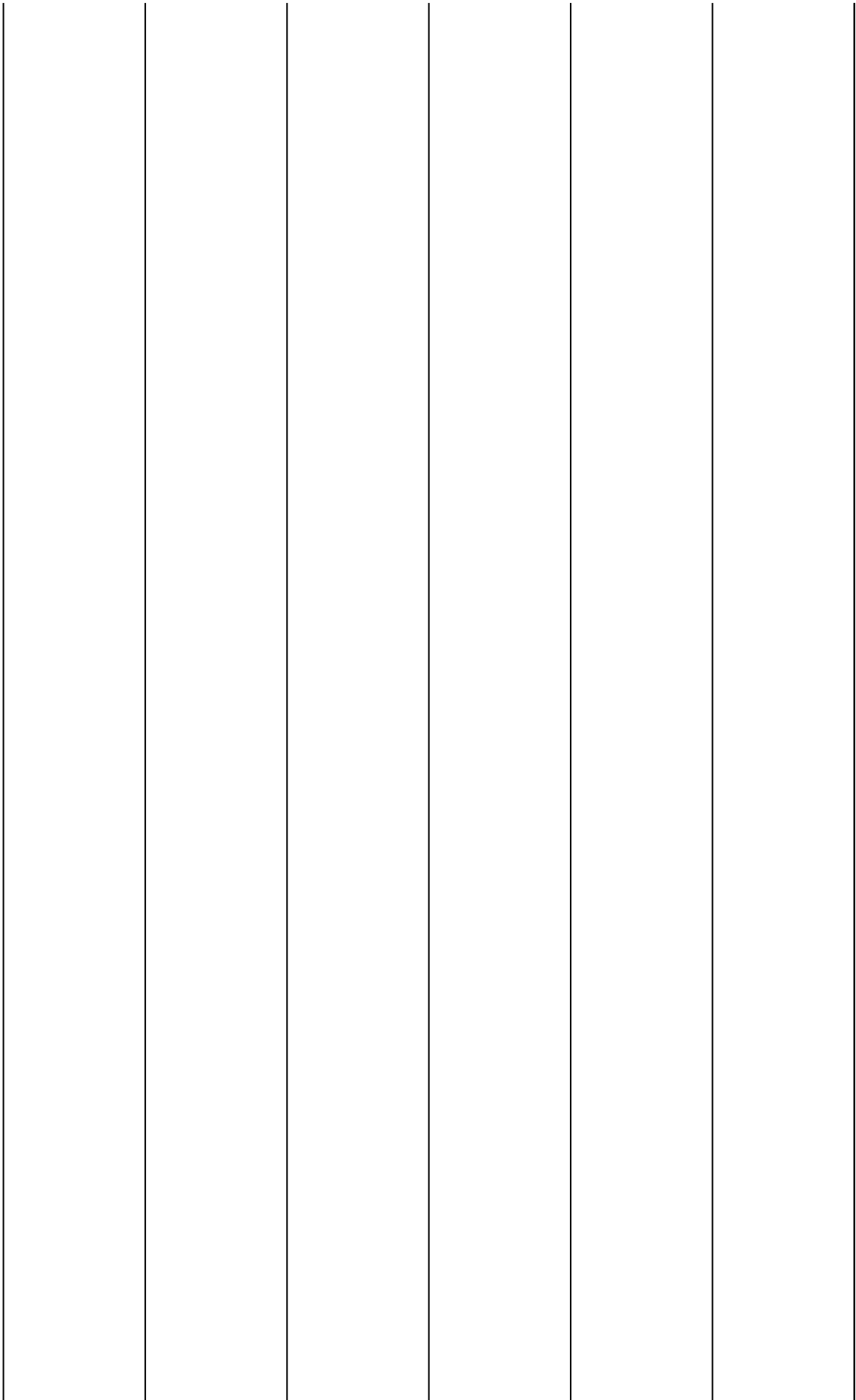


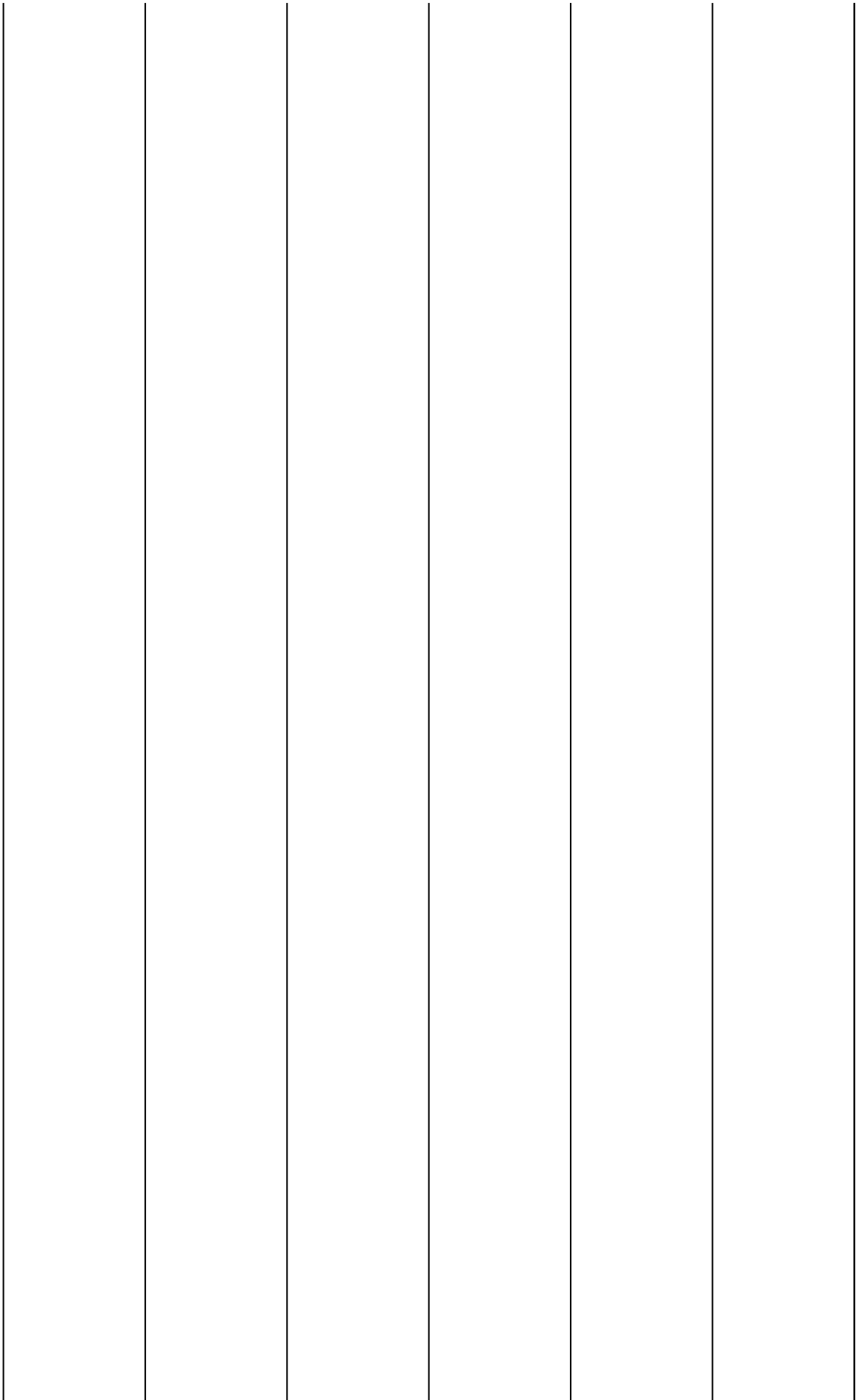


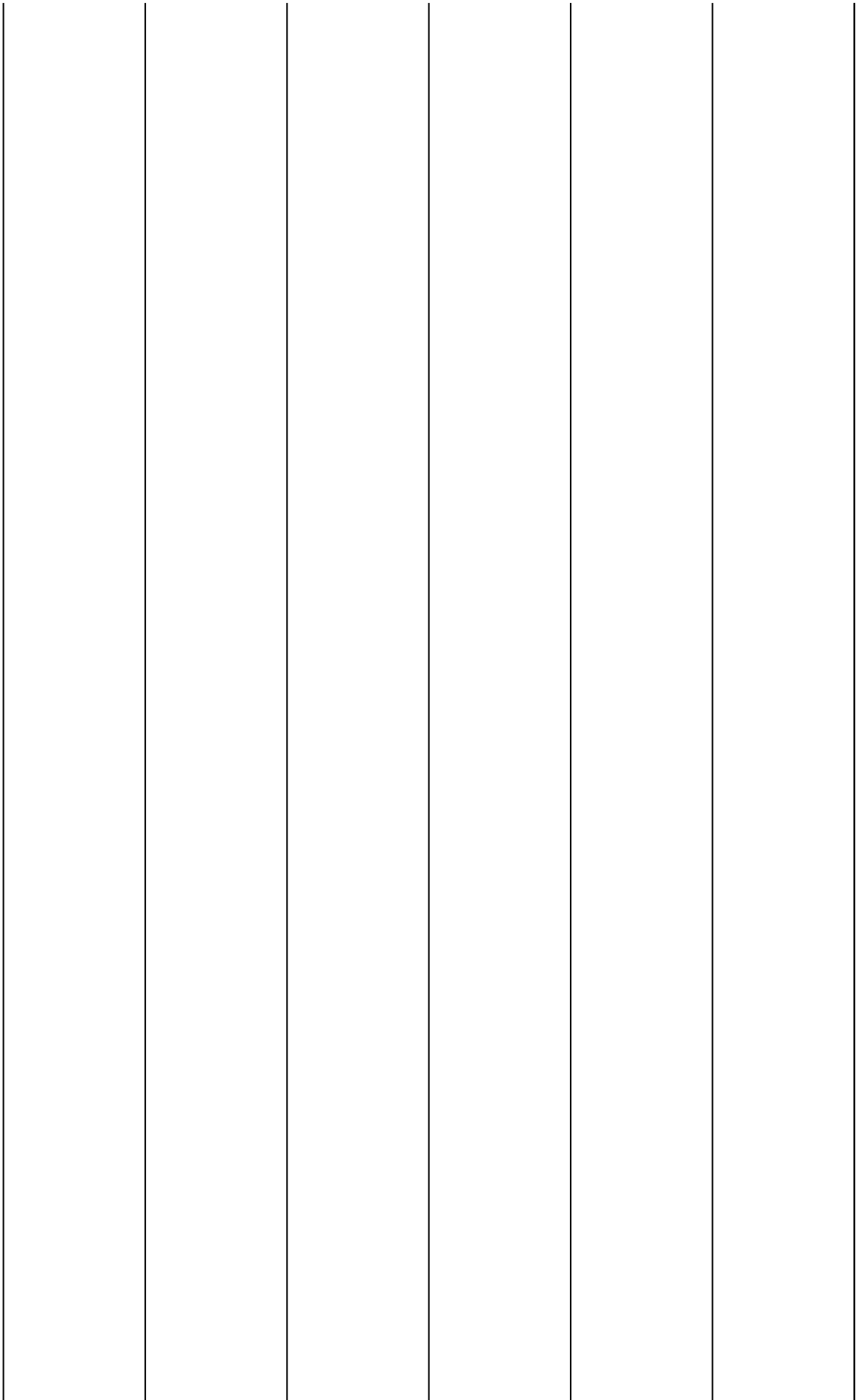


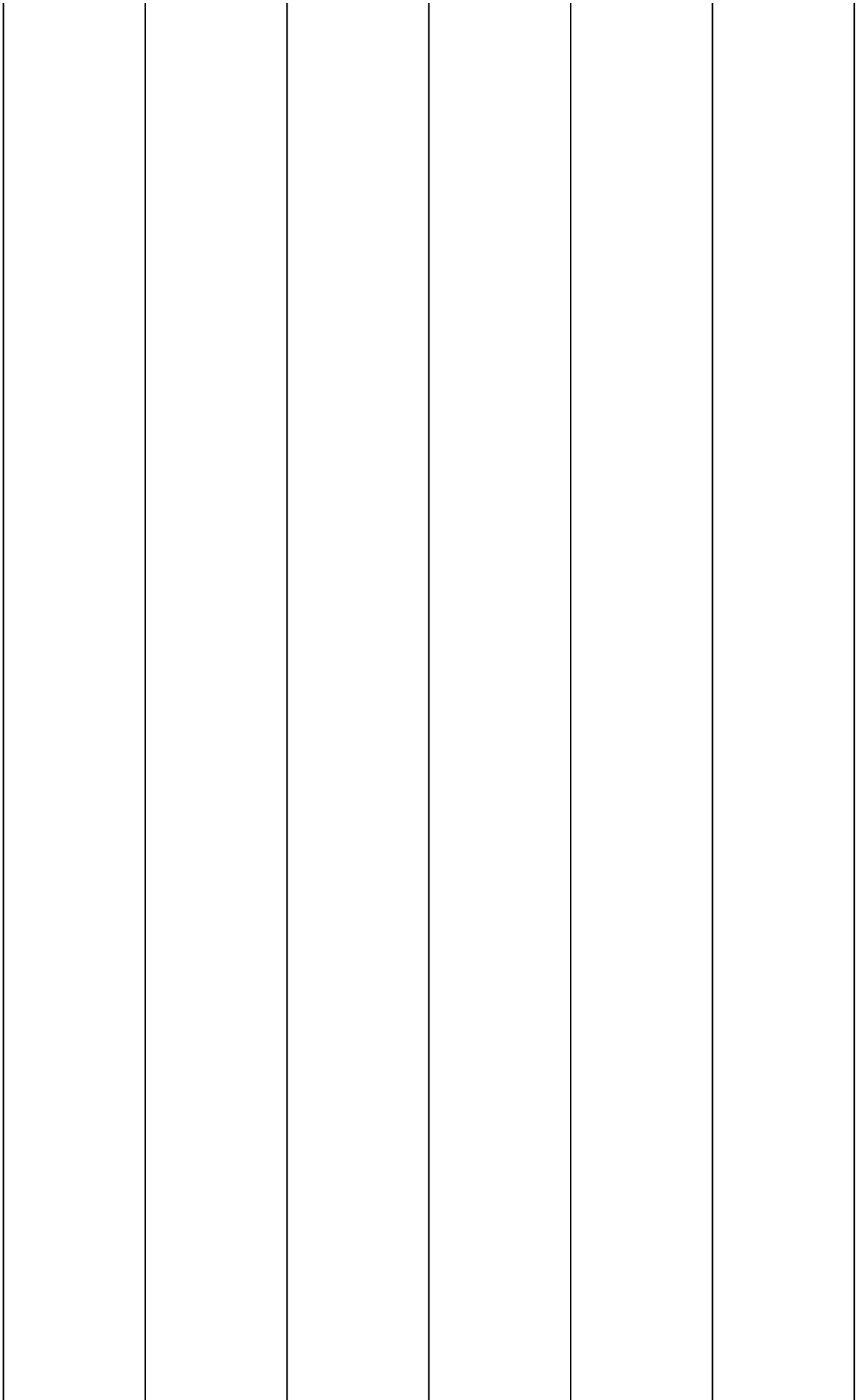


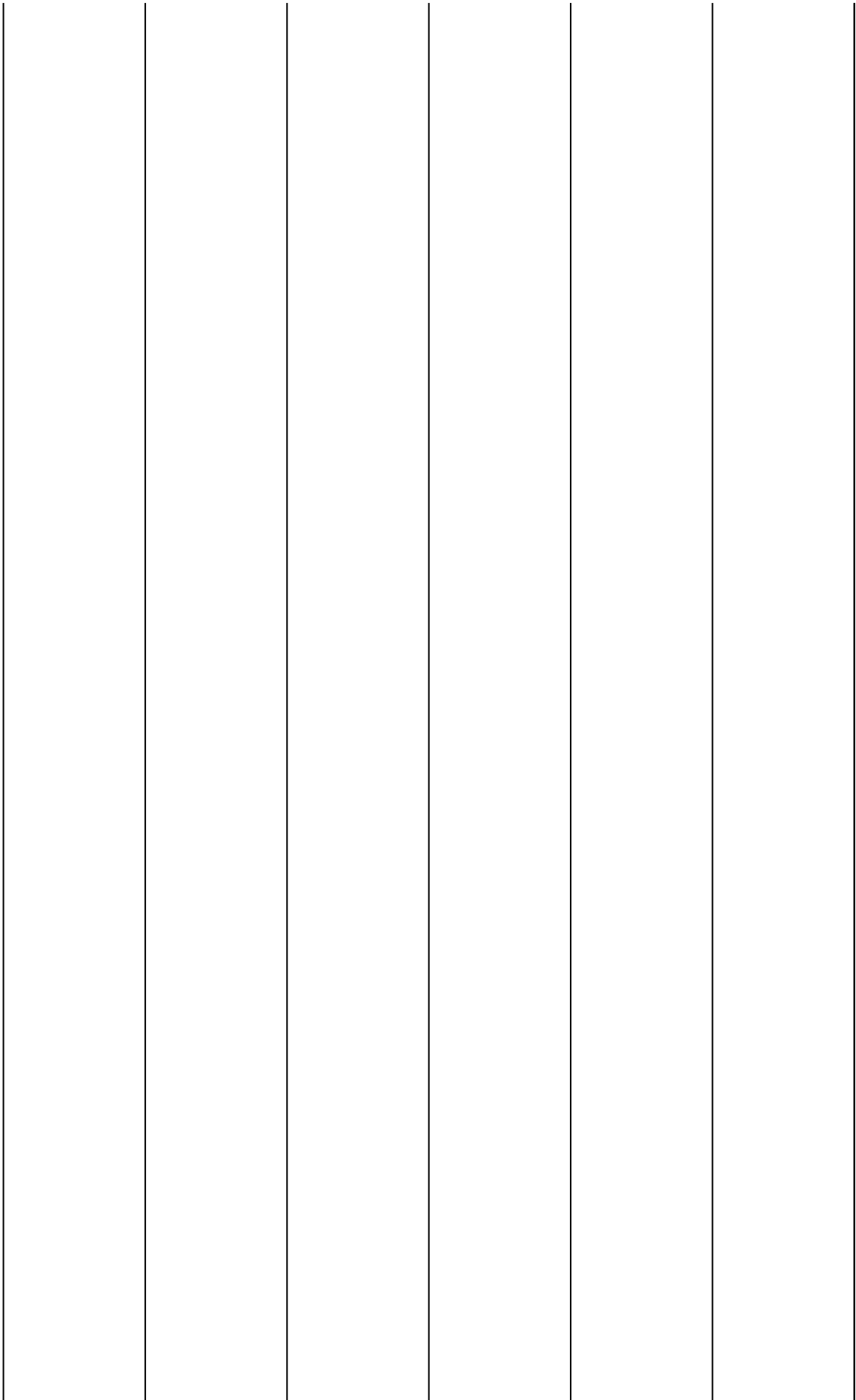


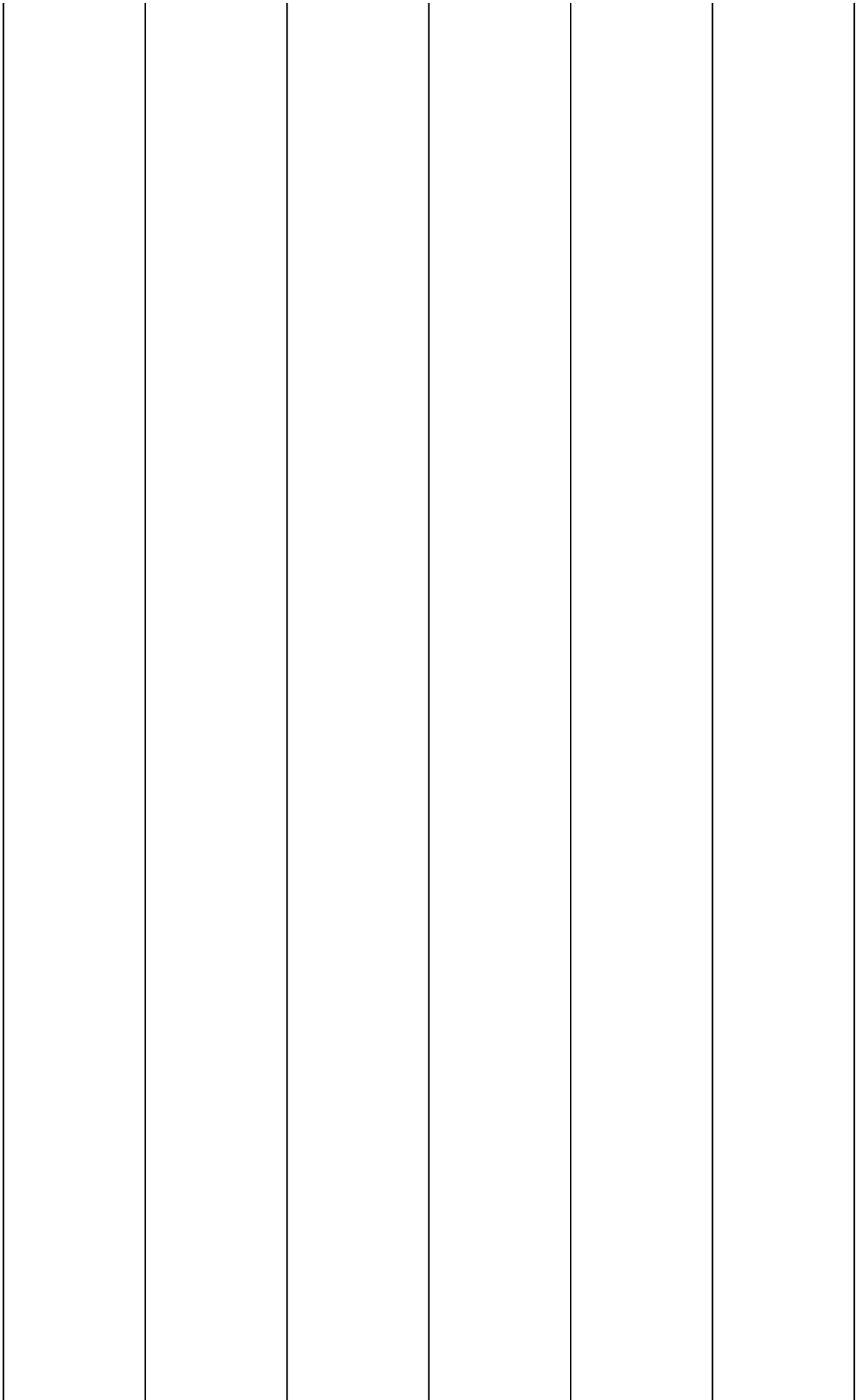










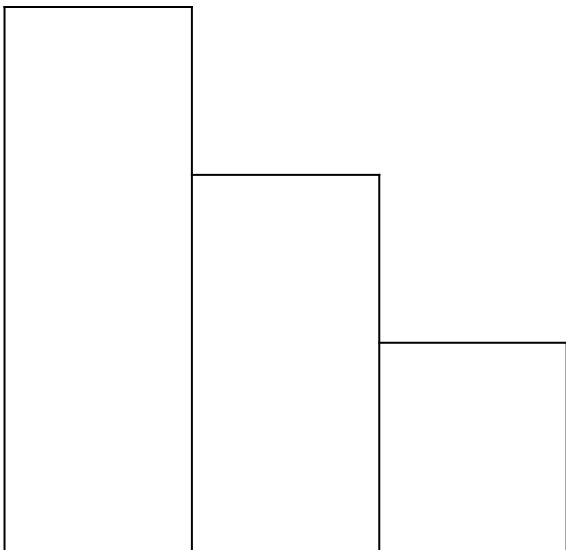


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25	24	23	22	21	20
390	455	520	585	650	715

					Z2959*
FTB77600	BY36389	FTB77889	FTB78053	FTB78250	FTB78464

	BY205747	BY206050	BY206283	BY206598
	BY11739			
		BY3340	A10675	A7361



A10857	A10853	A10854	Y6353	Y65302	Y71098
			S566	FGC440	FGC40245

		Y281106	Y281106*

BY35284	BY35285	A361	FGC37855	FGC37856	FT48510
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FGC29480	FGC29498	FGC29503	BY56226	FGC29479	FGC29489

FGC12948	FGC60031	FGC12950	FGC12936	A182	A183
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FT97905

BY61951	BY109793	BY115866	BY144176
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A725

BY18039



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FT14462
(Eochaid
Doimlén)

FT397039

FT19149

BY64330

FGC46517

A10662

A10665

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FT62759		FT367724		
BY102981		BY68177	BY131206	BY140555

BY11545	FGC28754	BY2720	BY2732	FT90198
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FGC71316 (7
sons)

BY25924	A12732	BY222523	BY25899 > BY25901
Y7082	BY18367	BY2474	FGC12186

FGC73756

BY21168

BY21171

FGC73755

BY25946

BY25894

BY224040

FGC32830

DF85 Conall
Gulban (at
least 13
genetic sons/
grandsons)

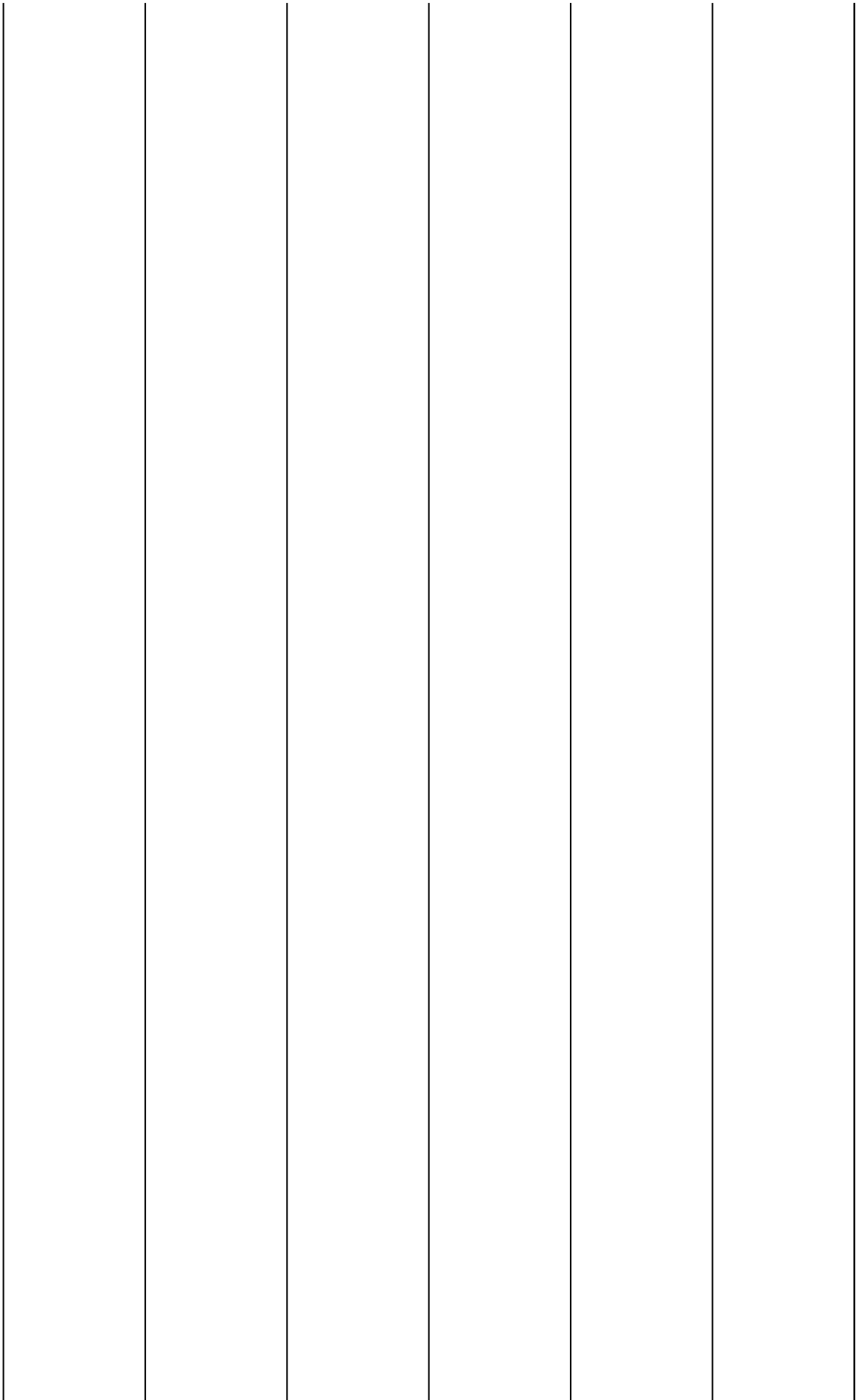
S673 (7
sons) Fergus
Cennfota

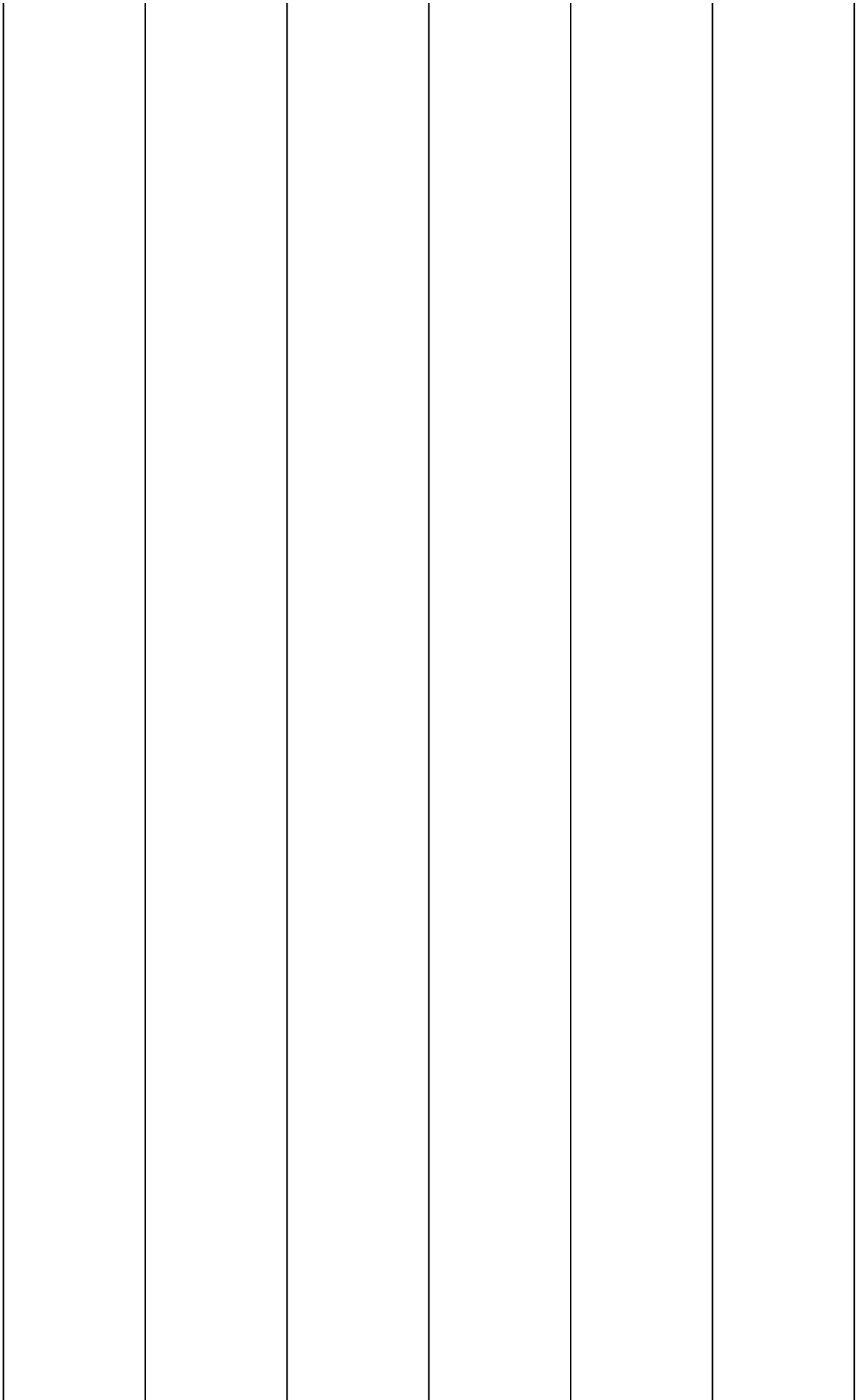
S668 (Sétna)

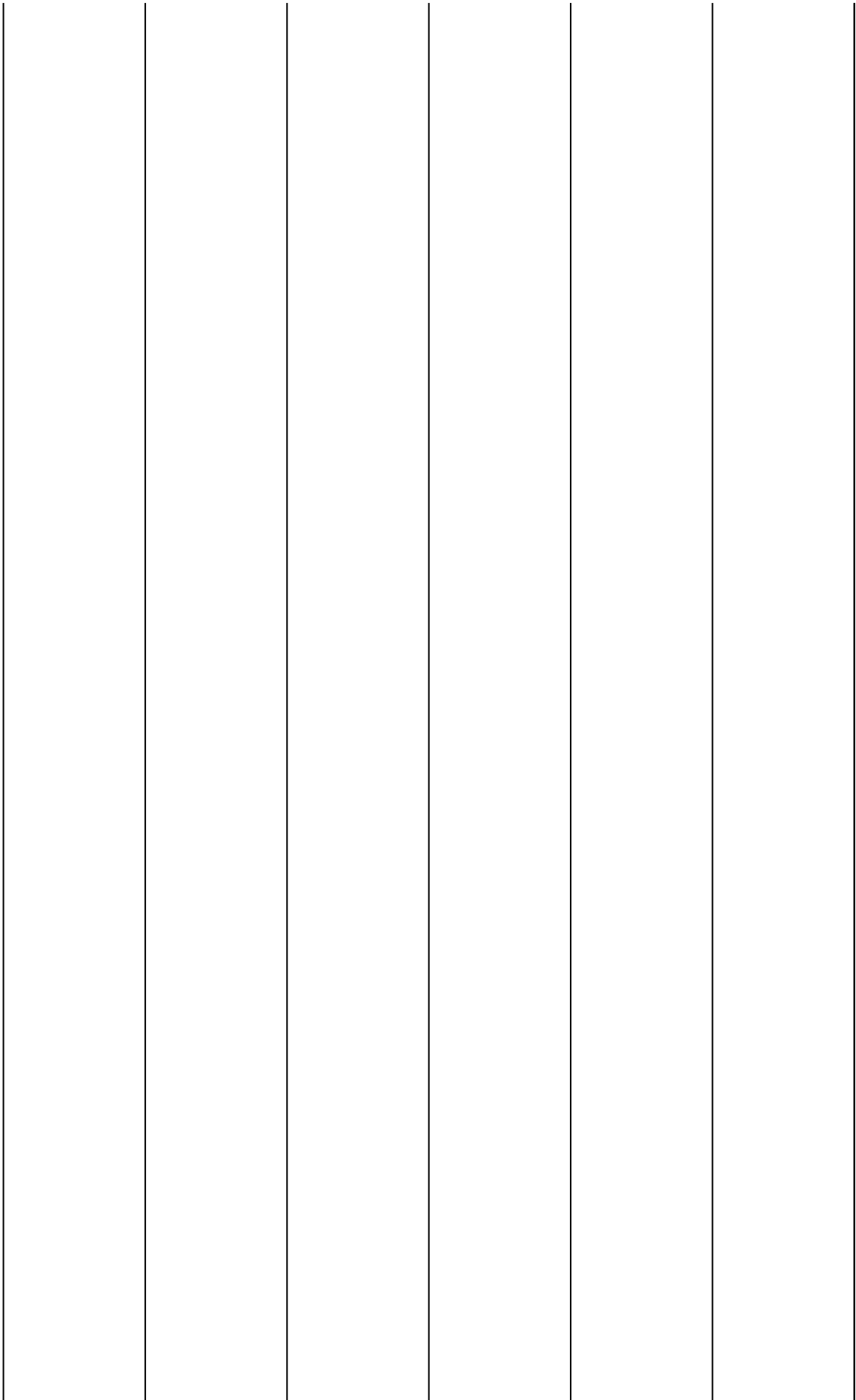
FGC8740
(Lugaid mac
Sétnai)

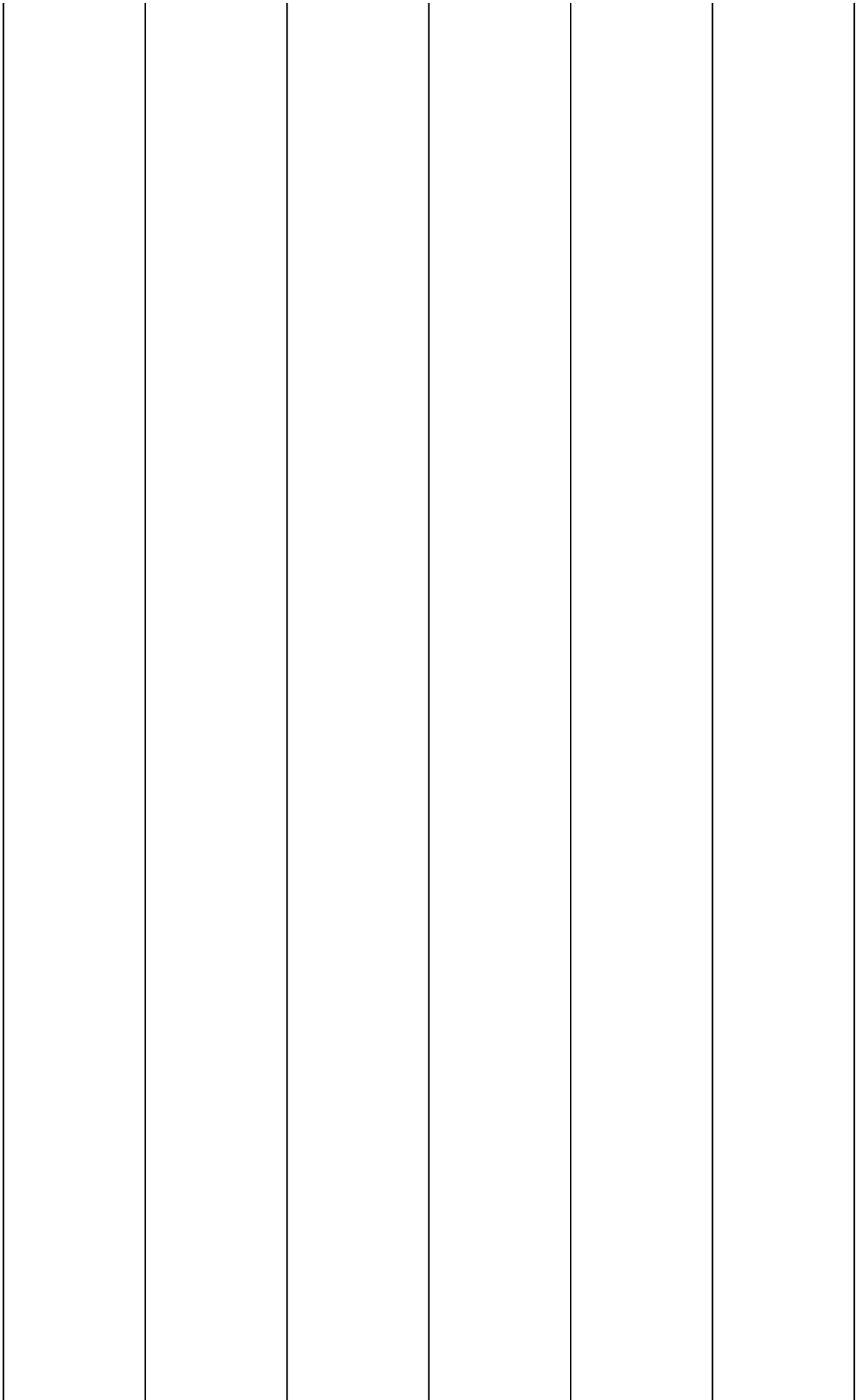
DF97
(Ronan)

FGC8738
(Garb) >
FGC8739
(Cen Faelad)









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A5388 > FT52226	A5386 > A5389	A5390 > Y30883	FT53375 > FT53563	FT91554 > FTB28678
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ETA10271	DV1E7762	DV07126	ETA11104	ETA1120E
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FT10274	BY137703	BY07430	FT11104	FT11303
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FT92296	FT27558	FT87875	FT87987	BY79813
	BY154268	BY216236	FT145378	FT146366

BY18198	BY100355	BY189478	BY95653	BY99155
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BY35717	FT96050	FT96158		BY50713
			BY55263	BY119452

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BY11432			BY13681	BY13682
	FGC30690 (Muirchertach Mac Erca, grandson of Owen)	BY11522 > BY11523	A10535 > FT81429	FGC30691 > FGC30697

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BY112462	BY101037 > BY128155	BY129227 > BY137770	BY81188
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	FGC33939	A2317	BY77941

A694

S7814

BY202

BY203

BY204

BY205

S588 (Eógan
mac Néill -?-
465) Cenél
nEogain /
Owen; at
least 21
genetic sons

FGC16740

FGC16741

FGC19831

FGC57921

A9884 >
A10628
(Feradach /
Cenél
Feradaig?)

A10629 >
A10630

FT76892 >
Y59401

A9886

S603
(Muredach
mac
Eógain ?-489
>
Muirchertach
mac
Muredaig /
Mac Ercae ?-
534)

BY3342
(Moen /
Cenél
Máien?)

FGC57780

FGC23592

FGC57782

FGC57760*(X
2)

FGC57760*(X
2)

FGC19860
(Máel Dúin
mac Máele
Fithrich ?-681
> Fergal mac
Máele
Dúin ?-722)

FGC19866
(Niall
Frossach
mac Fergaile
718-778) >
FGC19869
(Áed Oirdnide
mac Néill ?-
819)

FGC57760
(Domnall
Ilchegach
mac
Muirchertaig
?-566)

BY3347 (Áed
Uaridnach
mac Domnaill
?-612 > Máel
Fithrich mac
Áedo ?-630)

FGC57773

FGC65688

A10528 >
A10529

BY11727

FT47275

Y21576

A10526

Y96240

FGC40502

	BY198	BY20835	A15865	FT96142	FT432820	
				FT12117	ACT5021	BY198518

Y166841
(Áed mac
Echach
Tirmcharna ?
-575 > Uatu
mac Áedo ?-
600)

*Rogallach
mac
Uatach ?-649*

BY18120
(Muiredach
Muillethan
mac
Fergusso ?-
702 >
Indrechtach
mac
Muiredaig
Muillethan ?-
723)

BY18138
(Tommaltach
mac
Murgail ?-774
> Muirgius
mac
Tommaltaig
bef 774-815)

FT77253

FT64290

BY60733

BY102460

A18726 (Uí
Briúin, Brión
mac Echach
Muigmedóin)

A5902
(Eochaidh
mac
Maonach >
Oireachtach
mac
Eochaidh /
Teallach
Eochaid 7th
century >
Dúnghal mac
Oireachtach)

A5903
(Cosgrach
mac Dúnghal
> Íomhaor
mac
Cosgrach)

A259

A260

Y19870

BY3338

BY13838

FGC5939

Z17590

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	FT236610	BY79355	FT145580	FT234959	FT235757
BY35727	BY188399	DV25720	DV25720	ET12050	

		DT33720	DT33729	FT15959	FT354023
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FTC610			BY93031	BY125542
	BY84482	BY109983	BY123918	BY130145

			FT191133

BY35731

BY35732

BY35735

BY119411	BY17264	BY64784	BY81600
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FT154049	BY152532	BY153843
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BY2859	A2504	BY21216	BY21217	BY21218
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	FGC32795	FGC32794
BY35726	FT27858	FT28767

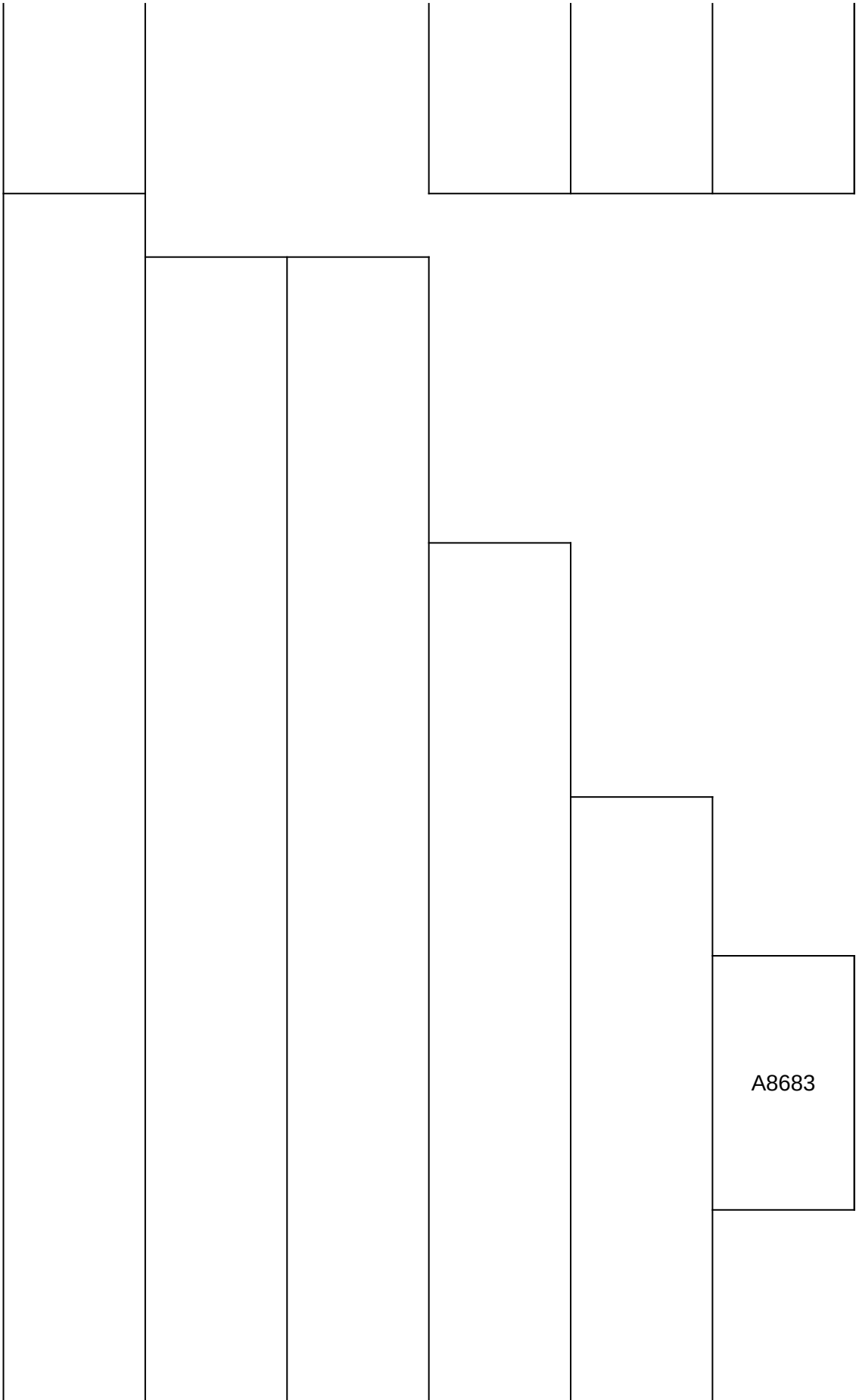
FGC4133	BY11710	BY11711
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Z8379

FT59491	FT354088	FT58998	FT59388	FT354087
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BY11707	BY11707.1	A11227
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A8683

			A822	A823	
FGC36289	A223	Z18599			

BY3339

BY11692

BY11693

FGC23742
(Uí
Fiachrach)
Fiachrae mac
Eochaid
Mugmedon

FGC46310

A1206

FGC23739

19	18	17	16	15	14
780	845	910	975	1040	1105
		FTC311	FT387578	FTC312	FTC314
Z2959*	Z2959*	Z2959*	Z2959*	Z2959*	Z2959*
FTB86136	FTC12995	FTB77600*	FTB77600*	FTB77600*	FTB77600*
		FTB77600*	FTB77600*	FTB77600*	FTB77600*
			BY80220	BY103625	BY104224
BY206952	BY207328	BY207684	BY207729	BY207939	BY208320
			BY11739*	BY11739*	BY11739*
A7363	BY3341	BY42873	A7359	A7362	BY89212
	S568*	S568*	S568*	S568*	S568*
	S568*	S568*	S568*	S568*	S568*
			FGC33695	FGC33688	FGC33689
	FGC65694	FGC65695	FGC65696	FGC65697	FGC65698

A10853*	A10853*	A10853*	A10853*
A10853*	A10853*	A10853*	A10853*
	FTA25404	FTA23400	FTA24574
	A10851	A10852	A10859

Y81107	BY38350 > FT45505	FT34593	AF9	BY100060 > BY110436	BY132096 > BY142895
		Y62520	FT27712	FT28494	Y66302

S559

FGC444	FGC450	FGC456	FGC460	FGC463	FGC84301
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Y281106*	Y281106*	Y281106*	Y281106*	Y281106*	Y281106*

BY77186

BY60318	BY100448	BY107578	BY109251	BY137980	BY70673
		FGC37857	A357	A358	A360
		BY74559	A15785	BY105264	BY147346
		FGC5857	A18822	FTB75440	FT447354
				FGC5862	FGC5866
BY35283	BY35289	BY35292	BY35294	BY35296	BY35299

FGC4086	FGC4096	FT176870	CTS8941	FGC50091	FGC50094

		BY125109	BY187586	BY186561

FGC29495	FGC29481	FGC29478	FGC29482	FGC29487	FGC29490

BY111228	BY116842	BY149609	BY184418	FGC74213	FT371610

	BY142282*
BY142282	BY142282*
	BY142282*

BY185803	BY184690	BY184728	BY185020

BY177877	FTB57554	BY81513	FT254680	FTB57435	FTB57797
					BY119761

FT9401	BY82820	FT10413	FT450838	FT7408	FTA56478
BY21228	BY21230	BY21231	FT23089	BY21224	BY21226
BY180868	FT253798	FT98578	Y128949	FT97862	BY180538
				FT253461	FT253107
				FT225836	Y92086

BY56099	BY71623	BY96084	FT210979	FT210024	BY113622
					BY158231
	S676	FGC37610	FGC37611	S682	BY189805
BY50270	BY50271	BY50272	BY80065	Z40711	BY53879
			FGC42651	FGC42645	FGC42637

		FGC40940	FGC40939	FGC40942	FGC40943
A11362	FT80690	Y23528	Y29864	BY66403	BY108876
FGC57848	FGC57855	FGC57861	FGC86107	FGC57853	A2301
			BY42598*	BY42598*	BY42598*
				BY69705	BY103020
FT421796	FT421938	FT421939	FT422792	FT422943	FT423085
			BY42778	FGC79580	FGC79581

					<i>DF104*</i>
				<i>FT14462*</i>	<i>FT14462*</i>
	FTA36430	FTA36337	FTA36341	FTA37086	FTA37123
FT18000	FT18275	FT21583	FT22707	FT23570	FT25041

	FT24418	FT14538	FT17309	FT17315	FT191157
BY121785	BY139482	BY144620	BY150322	BY59432	BY66884

	BY33236	Y255335	BY122668	FT101132	FT103180
A10668	A10671	A10656	A10660	A10661	A10659

FTA4843

CTS8580	CTS8580*	CTS8580*
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DC182	FT367552	FT367625	FT367649	FT367709	FT367725
	<i>BY102981*</i>	<i>BY102981*</i>	<i>BY102981*</i>	<i>BY102981*</i>	<i>BY102981*</i>
				FT148768	<i>FT148768*</i>
					<i>FT148768*</i>

BY155297	BY225533	BY93611	FT62481	FT62837	FT63007
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BY18325	BY31170	FT33315	FT35553	FTB49585	A15492
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	FGC57908	FGC57901	FGC57903	FGC57907
		FT390895	<i>FT390895*</i>	<i>FT390895*</i>

BY2667	BY2688	BY2692	BY2722	BY2726	BY2731
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BY21214	BY21215
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BY25920	FT258197 > FT258198	FT88562	Y126442	FT235981	FT235248 > FT235754
FGC12187	FGC12188	FGC12189	FGC12190	FGC12192	FGC71320

BY35719	FT107222	BY35718	BY120993	BY35722	BY35718*
					BY35718*
					BY35720

					A13343
	FT63386	FT180796	FT62492	FT62825	FTB21055
F22409	FT275570	FT38465	FT38524	FT38713	FT39011
BY38588	BY38591				FT167776
		BY38593	BY38590	FT117795	

FT191137				FT137198	FT135495
	FT334904	FT334300	FT334527	FT335352	FT337170
FT14226	BY169282	BY170806	BY171389	FTB83194	<i>FGC32830*</i>
				FGC49726	BY43854

		FT47343	FGC32825	FGC32820	FT360077
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FT213758	FTC5431	FTC5711	FTC5557	BY218301	FTC46200
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BY25927	FGC57584	FT45675	FT45968	FT46862	Y65305
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			BY161919	BY163298	BY163394
BY216078	BY25937	FT111767	FT191135	BY18332	BY25938
BY35725	BY168440	FT354037	BY166533	BY167201	FT213949

					DF97*
					DF97*

FTA3892	BY21179
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BY18256	Y36709	BY21261	BY90891
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BY3343 > FGC68706	A4697	FGC49797	FGC497799	FGC58598	FGC58600
			BY471* > BY471*	BY471* > BY471*	BY471*
					FT28864

			FGC49693	FGC51962	FGC49692
BY471	FGC00100	FT27575 > FTB00100			

(Flaman) >
FGC49699

FGC62103 >
FGC8840

F1B39188
(Donagh
Dochartach)

BY470

BY472

FT27528

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	BY18299	BY18252	BY35767	BY35768	BY35769
				FT3074	FT69758
			BY65078	BY100063	BY111634
	PH1066	BY11535	BY11536	BY11537	
	ECC11507	ECC11508	ECC11511	7S7000	

		FGC41507	FGC41508	FGC41514	Z37000
	Z29319 > FGC41501	BY35773	Y26014	BY35771	FT106665
			FT371271	FT94601	FT94736 > FTA17182
			BY21154	BY21155 > BY21156	BY21157 > BY21158

FGC19851 (Mael Duin)					
			FT7322	BY21206	FT38535
			FGC19846*		
			BY21190 > BY21191	BY21192 > BY21194	FTA3894

			FGC19848	FGC57795	FGC84210 > FGC84889
BY21203	BY21205	BY41036	BY43280	Y142128	BY21204

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A5387	FT52304	FT52594	FTB28823	FT53248	
				BY123092	BY130330
		BY137484	A11979	A11980	A11981

ETA11650	ETA11922	ETA12056	ETA12216	ETA12550	ETA12040
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FT11030	FT11032	FT12030	FT12210	FT12330	FT13040
					FT187328
					BY119880
					FT92296*
BY156086	BY79814	BY79815	BY123965	BY151093	BY24249
FT147295	FT147987	FT196753	BY154268*	BY154268*	BY154268*

FT16174	FT17224	FT21421	FT344808	BY18198*	BY18198*
			BY20527	BY20528	BY20530

FT166710			FTC26570	FGC46051	FTC27827
	BY50759	BY50803	BY50816	BY70943	FT165545

FT96467	FT97358				
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		BY76660	BY112156	BY86747	BY92066
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	FT165097 (Cenél Fergusa)	S7049	FGC64966	FGC64969	BY43920

BY13683	BY13685	BY21258	BY44072	BY13684	FGC50963
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A10530 (Dobhuilen / Develin) 8th century, 8th descendant of Owen	A10534	F14968 > FTC17117	FTC17116	A10531	A7989
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BY84797	BY96620	FGC33201	FT183864	FT188713 > FT189351	FT191141
A11307	BY11433	FT191235	BY120991	FT191455	FT191867

FT71959	FT165128	FT72184	FT72467	FT72753	FT71844
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FGC33940	FGC33941	FGC33942	FGC33943	FGC33944	FGC33945
				FT260023	FT258370

PF2028	BY13138	BY13139 (Áed Findliath mac Neill ?)	CTS12533 (Domnall Dabaill ?-915)		
BY4142					
	BY4140	BY4141	BY43799	BY44067	A14796
BY199	BY200	BY201			
			BY20510	BY18235	BY20506 > BY20511

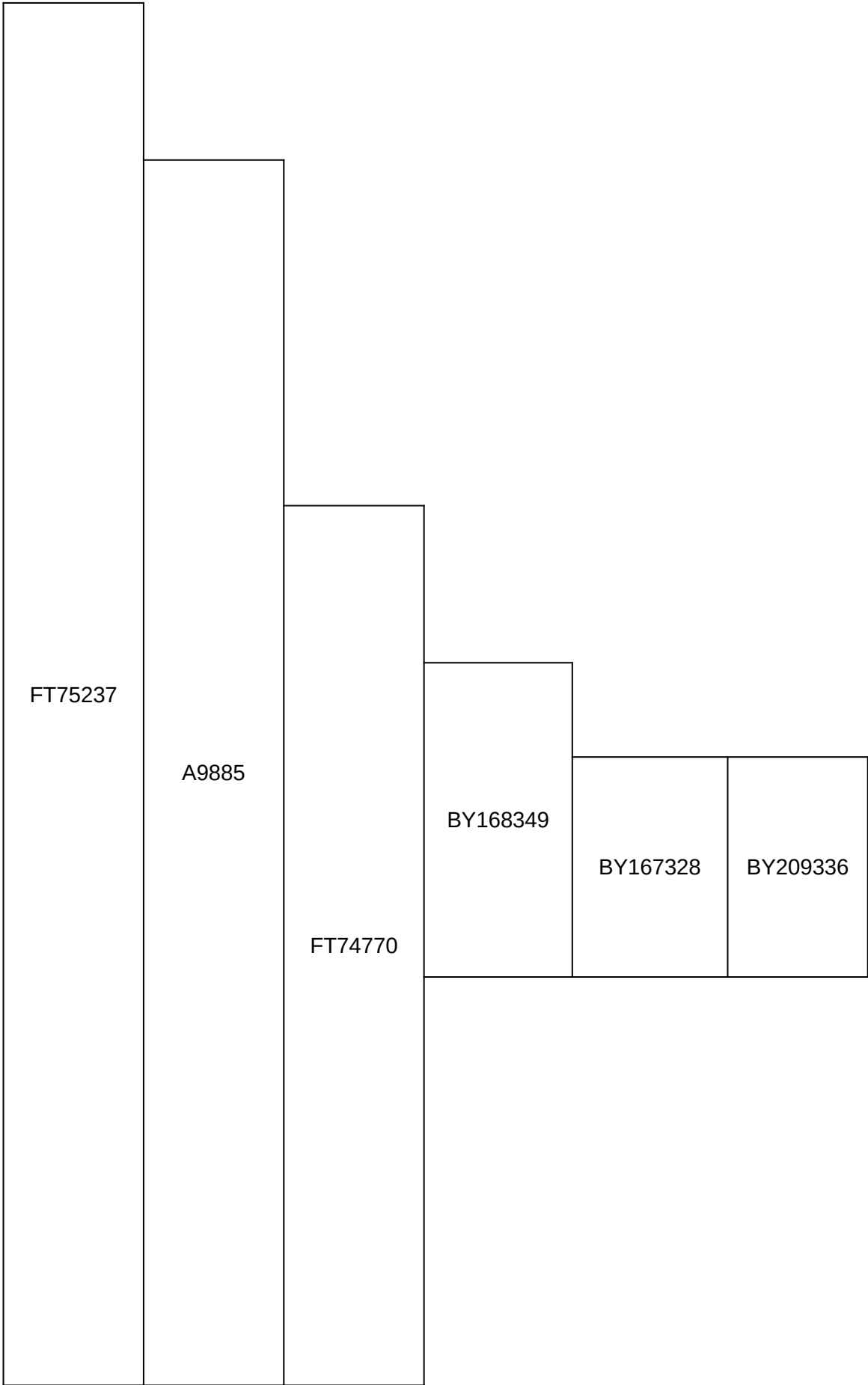
			S603*	S603*	S603*
Y101940	BY59278	Y103124	Y107603	Y96376	Y97054

			FGC4113		
				FGC7929	
					FT131975

BY62083	BY140164	BY146385	BY94517	FT190158	FT233685
	Y40047	FGC16732	FGC16744	FGC16745	Y42946
	FT305875	FT28381	FT379953	FT380105	FT380561

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FGC57924	FGC19839	FGC57923	FGC19833	FGC57922	FGC19832
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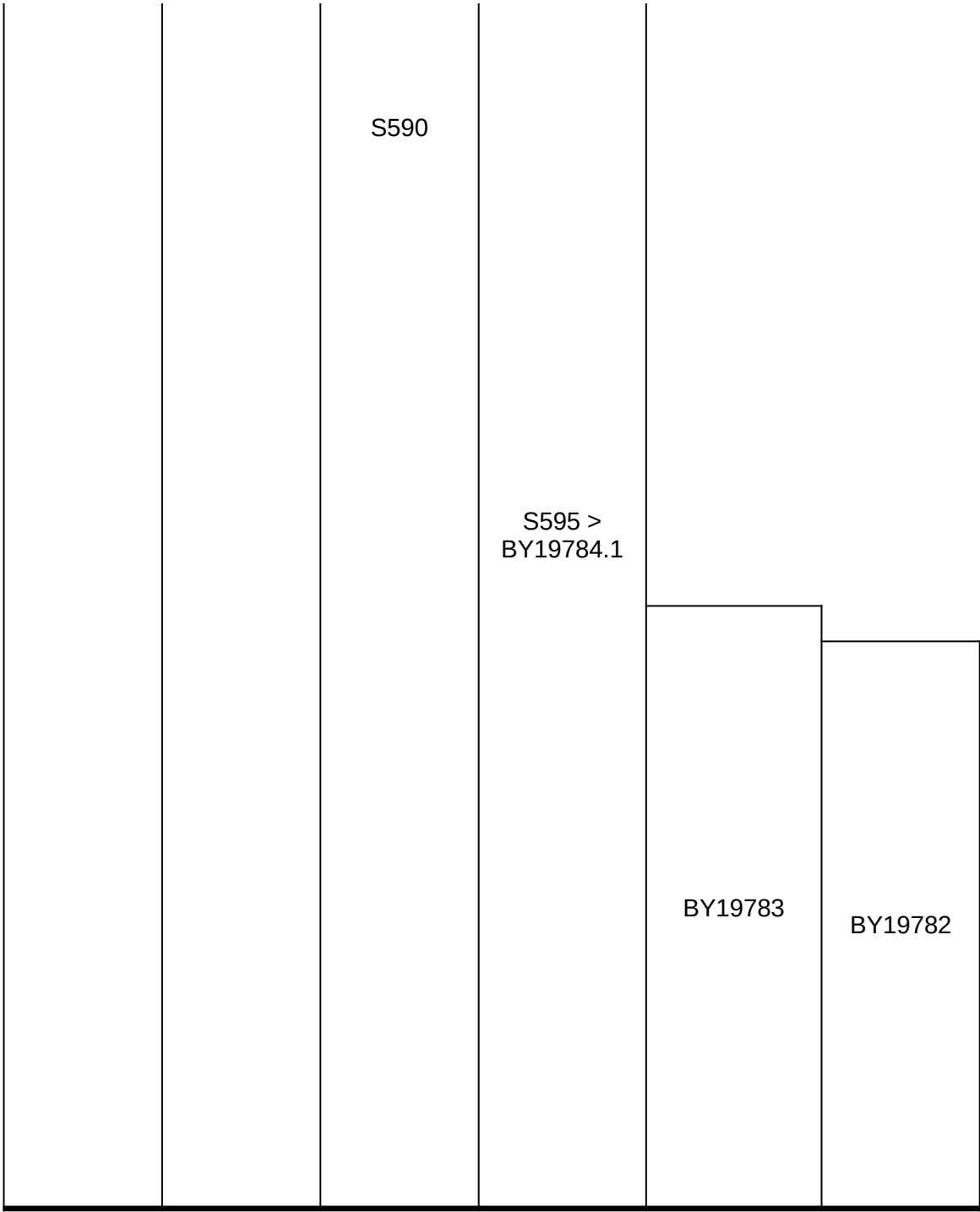
A8591	FT82561
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FT95366
FT120288
FT56993

A1742	A1743	BY35985	FGC23594 > FGC23595	FGC57781	FGC57784
<i>FGC57760*</i>	<i>FGC57760*</i>	<i>FGC57760*</i>	<i>FGC57760*</i>	<i>FGC57760*</i>	<i>FGC57760*</i>
				FT131003	<i>FT131003*</i>
					<i>FT131003*</i>

BY45355

		FT32818 (Flaithbertach mac Muirchertach)	FT32300	FT32048	FT32257
FT3299 (Niall Caille mac Áeda ?-846 > Áed Findliath mac Néill ?-879)	FT48516 (Niall Glúndub mac Áeda ~860- 919 > Muirchertach mac Néill ?- 943)	FGC19865 (Domnall ua Néill ?-980 > Muirchertach mac Domnall)	FGC19870 (Flaithbertach Ua Néill 978- 1036 > Áed ?- 1033)	FGC81022 (Ánrothán Ua Néill)	FGC81023
				FTA43928	FTA43928* FTA43928*



		BY184425
ET275107	ET117202	ET275271

			F1573497	F1117303	F1573271
Y21577	A10527	BY21259	Y23007	Y23074	Y23075
FT233033	Y110068	BY71053	BY107930	BY112204	BY57716
					BY198*
					BY198*
					BY198*
					FT183212

FGC40499	FGC40507	FGC40511	FGC40512	BY11726	FGC40501
					Y66755
					BY21186

FT95227	FT95411 > FT95571	FT95810	FT96191	FT96923	FT96958
BY20834	Y36587	A15878	Y36587*	Y36587*	Y36587*
			FTA56326		
	BY21680	A15861	A15876	A15875	A15879
			BY21673	BY21678	BY21679

			FT229166	FT227997	FT228063
BY198957	BY199648	BY199921	BY199971	BY200256	BY200936

			FT385118	FT385478	FT386014
BY18144 (Tagd Mór ?-810 > Conchobar mac Taidg Mór bef 810-882)	BY18150	BY18188 (Cathal mac Conchobar mac Taidg ?-1010)	BY42869 (Tagd in Eich Gil ?-1030> Áed in Gai Bernaig ?-1067)	BY18115 (Ruaidrí na Saide Buide ~1060-1118 > Toirdhealbhach Mór Ua Conchobhair / Turlough Mór O'Conor 1088-1156)	BY21219

FT206077	BY121032	FT206194	FT206361	FT206805	FT206905
				FT77622	BY186604
	FGC42414	FGC42412	FGC42410	FGC42413	FGC42415
				FT64290*	FT64290*

FTB32538	FT446205	FTB33919	FTB33935	FTB33938	FTB33947
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					FT109339
BY135787 > BY211810	BY52078 > BY54600	BY60833 > BY60834	BY63405 > BY95177	FT180397	FTB34768

		A10525	FT18188	A21296	FT146360
				BY18145	BY18162

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			FTC14661	BY108285	BY119914
					FGC55184
			FT130287	MF73471	Z20054
		BY100917	BY134162 > BY148309	FT183403 > FT183685	FT187289 > FT188004
FGC55176 (Ruarc mac Íomhaor > Tadhg Tir mac Ruarc)	FGC55177 (Conchobhar mac Tadhg Tir > Aonghus mac Conchobhar)				
					BY38401

		FGC59200 (Flann mac Aonghus > Fearghal mac Flann)			
			BY18134 Conchobhar mac Fearghal > Samhradhán mac Conchobhar ~1060-1115, founder of McGovern dynasty	FT76652	BY86283
		FGC34296			
			BY38400	BY38388	BY38397 > BY38398

				BY18137
V86	A18723	A18735	A18796	

BY18113	BY205483
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BY11723	Y178955	A11846	A11847	Y132137	A21195	FT89237
						FT66832
					<i>A11846*</i>	<i>A11846*</i>
					<i>A11846*</i>	<i>A11846*</i>
					Y95844	PR5761

		A883	A884 (Raghallach ?)	A886	A885
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<i>FGC5939*</i>	<i>FGC5939*</i>
<i>FGC5939*</i>	<i>FGC5939*</i>
<i>FT396104*</i>	<i>FT396104*</i>
<i>FT396104*</i>	<i>FT396104*</i>

FT396104	FT394969		
FTA43254	FT185820	FT188116	FT184490
	FT62840	FT63503	FT63002

		FT03002
		FT103653

BY20588	BY135356	FT36115	FT37187	FGC36497
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						BY18157

A6925	FT219063	BY20594	BY20597	BY20599	FT219064 (Tadhg Mor mac Maelruanaidh ?-1124 > Dermot mac Tadhg Mor ?- 1159)

			FTB89264	FT40381	FTB88536
FT235832	FT236147	FT236293	FT236376	FT236735	FT237026

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FT12323	FT45502	BY54743	ACT228	BY117516 > BY118098	FGC76831
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FT200220	FT328253	<i>FT200220*</i>	<i>FT200220*</i>	<i>FT200220*</i>	<i>FT200220*</i>
		FTB63556	FT181311	FTB62689	FTB63672

BY134840	BY149096	FT376496	FT446979	FT88225	FT88390
					BY62757

BY145238	FT90822	BY116143	FTB54284	BY152739	BY155190
				BY87775	BY165762

FT35736	FT35733 (likelyMaille mac Conall, his grandfather died in 812)					BY35736*
		BY35730	BY35734	FT86289	FT86387	

FT17642	BY50870	FT16822	BY102950	FTB59396	FTA30104
			BY77865	BY116925	BY135666

			FT410057	BY202461	FT409766
BY81963	Y110042				
		FT407343	FT406946	FT407846	FT408141
	FT168547	FT166384	FT168260	FT168944	FT169194
				FT168685	FT166924
BY155738	BY155761	FT152203	FT152471	FT152585	FT153994
			FT105225	FT105225*	FT105225*
				BY93859	BY78601
		Y61966	FTB59398	Y66797	Y77196
BY35748	BY35749	BY35750	BY35751	BY35752	BY35753
		BY35737	BY100412	BY114310	BY130361
BY2855	BY2856	BY2857	BY2858	BY2860	BY2861

FGC32796	FGC32797	FGC32799	FGC32800	FGC32802	FGC32803
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FT28375						BY21182
	BY128260	FT56555	BY75562	BY108617	BY109571	
A10642	FT215480	FT104913	FT214708	FT215123	FT215264	
				FGC9773		
						DV41027

					DT41037
		Y108758	Y83309	Y84957	Y92019
					A10022
BY43838	FGC4119	FGC4120	FGC4121	FGC78533	FT91606

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<i>FT59491*</i>	<i>FT59491*</i>	<i>FT59491*</i>
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FT59094	FT59130	FT59245	BY11911	BY17273	FT354084 > FT354085
					Y103352

A11391	A11426	BY11708	FT63909	FTA81728	FTA83236
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A223*

BY100000	BY141905
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A8684	A8685	A8687	BY39974	FT292832	FT85647
				FT113408	FT114887

BY590	BY586	BY588	BY589	FT82747
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A984				
	A11242	A11243	FT129621	Y36545

BY11694	BY11695	FGC62840 FGC62838 FGC64810		

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A5613	A5609	A5614	BY21244 > BY21245	FGC35903 > FGC35904	FT10385
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A225

FGC36288

	A224	A1774	A1775	FGC32899
				<i>FGC23742*</i>
FGC58791	BY53671	FGC58788	FGC58790	FGC58792
	FGC52029	FGC52032	FGC52024	FGC52028
				BY168066
	BY69640	BY79400	FT134825	<i>BY69640*</i>
	A11905			
		FTB60419	A11892	A11893

Y62692	BY121771	FT219116	PF7628	Y75411
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BY107609
<i>FGC46310*</i>
<i>FGC46310*</i>

FT315267	<i>FT315267*</i>	<i>FT315267*</i>	<i>FT315267*</i>
	Z34470	FT268777	FT269589

<i>A16160*</i>

A16160	A16156	A16161	A16158	FT207016	FT207302
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BY106459	FT275126	Y100168 (Aedh Ua Dubhda ?- 982)	Y105176	Y108024	Y83058
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<i>FGC46309*</i>

FGC46309	FT74116	BY24140	BY171806	BY171821
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FT382865	FT381843	FT382373	FT458837	FT382895	FT382865*
					FTA18319
					BY49672
		BY11687			
			BY11689	BY11688	BY11690

13	12	11	10	9	8
1170	1235	1300	1365	1430	1495
FTC316	FTC317	FTC318	FTC320	FTC321	FTC323
Z2959*	Z2959*	Z2959*	Z2959*	Z2959*	Z2959*
FTB77600*	FTB77600*	FTB77600*	FTB77600*	FTB77600*	FTB77600*
FTB77600*	FTB77600*	FTB77600*	FTB77600*	FTB77600*	FTB77600*
BY109285	BY11234	BY118429	BY133051	BY161334	BY177759
BY208891	BY218531	BY38651	FT87781	FT87804	FT87819
BY11739*	BY11739*	BY11739*	BY11739*	BY11739*	BY11739*
FT16842	FT16997	FT17055	FT197487	Y30427	A7360
S568*	S568*	S568*	S568*	S568*	S568*
S568*	S568*	S568*	S568*	S568*	S568*
FGC33691	FGC33694	FGC33697	FGC33698	FGC33699	FGC33701
FGC65699	FGC65700	FGC65701	FGC65703	FGC65704	FGC65705
			A10857*	A10857*	A10857*
			A10857*	A10857*	A10857*
			A10857*	A10857*	A10857*
			A10857*	A10857*	A10857*
A10853*	A10853*	A10853*	A10853*	A10853*	A10853*
A10853*	A10853*	A10853*	A10853*	A10853*	A10853*
FTA25316	FTA25525	FTA25638	FTA62500	FTA62501	Y236933
				A10855	A10860
FT146331	FT145171	FT145415	FT147941	FT146331*	FT146331*
				FT146331*	FT146331*

				Y63653*	Y63653*
BY151205	BY16518	BY220883	BY93831	FT198898	FT32991> FT33122
		BY173291	BY173294	FT28008	BY173291*
					BY173291*
					BY173291*

FT83747	FT84221	Y76918	FT83315	FT90204	Y60251 > Y62116
BY121221	BY189656	BY89754	S557	S560	S565

	FGC440*	FGC440*	FGC440*
			FGC84301*
FTA18206	FT454199	FTA19354	

FT356945

FGC458					FT151940
	BY67372			FT399438	FT67110 > BY83155
					ETD01172

		BY122229	BY177560	FT79833	FT126319
					BY176607 > BY176806
	FT125403	FT125464	FT125815	FT126309	FT126319
Y281106*	Y281106*	Y281106*	Y281106*	Y281106*	Y281106*
			BY205502	BY205571	BY206749
			FGC4077*	FGC4077*	FGC4077*
			FGC4077*	FGC4077*	FGC4077*
			FGC4077*	FGC4077*	FGC4077*
BY83284	FTB66660	Y45157	Y45849	Y47992	Y48578
					FT68436*
			FTB19441	BY64943	FTB80813
CTS442	FT27424	FT27740	FT27838	FT30837	FT31721
A363	FGC37853	FGC37854	FGC42182	FGC42183	FGC78768
BY150245	BY60087	BY97242	FT147664	FTB30361	FTB39152
FT118961	BY42855	BY44006	FT118506	FT197491	Y103936
FTB75427	FTB75718	FTB75947	FTB75967	FTB75968	FTB79150
FGC5870	FGC5862*	FGC5862*	FGC5862*	FGC5862*	FGC5862*
			FGC5856	BY89319	FGC5863
					BY35283*
BY35276	BY206562	BY35278	BY35280	BY35288	BY35290

					FGC4086*
FGC50096	FGC50097	FGC50099	FGC50106	FT173809	FT177508
	BY45899	BY106341	BY121548	BY121725	BY142385
		Z20770	BY200876	Y45335	Y46799
BY187835	BY188120	BY200499	MF1187	BY186561*	BY186561*
				BY186561*	BY186561*
				BY186561*	BY186561*
				BY186561*	BY186561*
				BY187586*	BY187586*
			BY119590	BY119590*	BY119590*
FGC29492	FGC294932	FGC29494	FGC29496	FGC29499	FGC29500 > FGC29501
			BY202441	BY203076	BY203210
FT75334	FT75750	FT76884	FT76122	FT82339	BY176386
				BY138013	BY148300
		FGC12948*	FGC12948*	FGC12948*	FGC12948*
FT128596	FT127964	FT128235	FT128751	FT129063	MF43299
BY142282*	BY142282*	BY142282*	BY142282*	BY142282*	BY142282*
BY142282*	BY142282*	BY142282*	BY142282*	BY142282*	BY142282*
BY142282*	BY142282*	BY142282*	BY142282*	BY142282*	BY142282*
			FGC12950*	FGC12950*	FGC12950*
			FGC12950*	FGC12950*	FGC12950*
			FGC12950*	FGC12950*	FGC12950*
			BY185803*	BY185803*	BY185803*
BY185355	BY185398	BY185413	BY185645	BY185950	BY210614
				FGC12936*	FGC12936*

FTB38596	BY150857	Y66579	Y70583	Y70644	Y74282	
			A2182*	A2182*	A2182*	
			A2182*	A2182*	A2182*	
			A2182*	A2182*	A2182*	
FTB57823	FTB57941	FTB58063	FTB58382	FTB58384	FTB58516	
		FT246503	FT244736	FT245651	FGC2266	
FT60566			BY76114	BY122106	BY149299	BY76662
	BY177873	BY177875	BY177878			
				FT365268	FT364295	
A725*	A725*	A725*	A725*	A725*	A725*	
A725*	A725*	A725*	A725*	A725*	A725*	
A725*	A725*	A725*	A725*	A725*	A725*	
A725*	A725*	A725*	A725*	A725*	A725*	
A725*	A725*	A725*	A725*	A725*	A725*	
A725*	A725*	A725*	A725*	A725*	A725*	
		FT371798	FT100953	FT371860	FT371887	

FTA56160	FTA56615	FTA56990	FTA57960	FTA58460	FTB11638
					FTA59863

BY21227	BY21229	FGC811	FT18131	BY21225	Y36300
BY180705	FT97600	FT97604	FT97862*	FT97862*	FT97862*
			FT97862*	FT97862*	FT97862*
FT253468	FT253472	FT253487	FT253603	FT253706	FT253878
BY224367	FT165811	FT197495	Y108185	Y92086*	Y92086*
				Y92086*	Y92086*
				Y92086*	Y92086*

FT226171	FT226933	FT227655	FT164503	FT386774	FT445687
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FT209196	FT209261	FT209326	FT209379	FT209998	FT210793
<i>BY158231*</i>	<i>BY158231*</i>	<i>BY158231*</i>	<i>BY158231*</i>	<i>BY158231*</i>	<i>BY158231*</i>
<i>BY158231*</i>	<i>BY158231*</i>	<i>BY158231*</i>	<i>BY158231*</i>	<i>BY158231*</i>	<i>BY158231*</i>
<i>BY158231*</i>	<i>BY158231*</i>	<i>BY158231*</i>	<i>BY158231*</i>	<i>BY158231*</i>	<i>BY158231*</i>
FTA91796	FTA92019	FTA92027	FTA92174	FTC78932	FTC78933

			S679	FGC37618	FT168987
BY190285	BY191217	FT445486			<i>BY189805*</i>
					<i>BY189805*</i>
			BY189768	BY189889	BY191721

BY160899	FT10409	FT11078	FT59734	FT59735	FT8243
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					<i>FGC42651*</i>
					<i>FGC42645*</i>
FGC42649	FGC42652	FGC42654	FGC42641	BY158673	FGC42642

FGC40951	FGC40947	FGC40940*	FGC40940*	FGC40940*	FGC40940*
		FGC40948	FGC75741	FGC40949	FGC40947*
					FGC40947*
FGC40952					

BY140228	BY148160	BY149806	BY57694	BY72695	BY77269	
			BY21246	BY21247	BY21248	
			FT445853	FT123736	FT123736*	
					FT124490	
			BY21223	FT88720	BY21223*	BY21223*
					BY21223*	BY21223*
A2299*	A2299*					

FGC57857	FGC57856	FGC57866	FGC57856*	FGC57856*	FGC57856*
			FGC57859	FGC57859*	
BY42598*	BY42598*	BY42598*		BY42598*	BY42598*
BY109758	BY126128	BY75259	BY84434	BY91647	FTC25877
			BY191013*	BY191013*	BY191013*
FT423278	FT423328	FT423346	FT423467	FTB98487	MF3761
		BY42778*	BY42778*	BY42778*	BY42778*
		BY42778*	BY42778*	BY42778*	BY42778*
		BY42778*	BY42778*	BY42778*	BY42778*
Z19039				FGC79580*	FGC79580*
	FGC79567	FGC79572	FGC79572	FGC79574	FGC79575

	FGC19307	FGC19312	FGC19313	FGC19314	FGC19315
<i>DF104*</i>	<i>DF104*</i>	<i>DF104*</i>	<i>DF104*</i>	<i>DF104*</i>	<i>DF104*</i>
<i>FT14462*</i>	<i>FT14462*</i>	<i>FT14462*</i>	<i>FT14462*</i>	<i>FT14462*</i>	<i>FT14462*</i>
FTA42409					
	FTA36299	FT77758	FTA35878	FTA36034	FTA36160
FT26464	FTA37661	<i>FT19149*</i>	<i>FT19149*</i>	<i>FT19149*</i>	<i>FT19149*</i>
		<i>FT19149*</i>	<i>FT19149*</i>	<i>FT19149*</i>	<i>FT19149*</i>
	PH5277	FT148415	FT148943	FT149010	<i>PH5277*</i>
					<i>PH5277*</i>
FT191158	FT191159	FT191160	FT20352	FT22446	FT22824
BY95931	BY99514	FT100564	FT100980	FT102290	FT102617
				FGC49504	A11518
<i>BY33236*</i>	<i>BY33236*</i>	<i>BY33236*</i>	<i>BY33236*</i>	<i>BY33236*</i>	<i>BY33236*</i>
FT103443	FT425872	<i>BY122668*</i>	<i>BY122668*</i>	<i>BY122668*</i>	<i>BY122668*</i>
			BY121169	BY128375	BY96068
	BY33237	BY50906	BY50907	BY50908	BY50909
	FTA73384	FTA75037	FTA75252	FTA75744	FTA75961
	FT398514	FT397038	FGC52741	FT398582	<i>FT397038*</i>
					<i>FT397038*</i>
A10663	A10664	A10666	A10669	A11548	FGC46518
					<i>DF85*</i>
					<i>DF85*</i>
					<i>DF85*</i>
					<i>DF85*</i>
			DV160525	DV170416	DV170617

		FT109480	DT109555	DT170410	DT170017
				BY25893	BY25900
FTA17181	FTA17199	FTA4399	Y11677	FTA4800	FTA4244
<i>CTS8580*</i>	<i>CTS8580*</i>	<i>CTS8580*</i>	<i>CTS8580*</i>	<i>CTS8580*</i>	<i>CTS8580*</i>
BY35723	<i>BY35723*</i>	<i>BY35723*</i>	<i>BY35723*</i>	<i>BY35723*</i>	<i>BY35723*</i>
FT367759	FT367772	FT367780	FT378702	FTB38251	FTB39243
<i>BY102981*</i>	<i>BY102981*</i>	<i>BY102981*</i>	<i>BY102981*</i>	<i>BY102981*</i>	<i>BY102981*</i>
<i>FT148768*</i>	<i>FT148768*</i>	<i>FT148768*</i>	<i>FT148768*</i>	<i>FT148768*</i>	<i>FT148768*</i>
<i>FT148768*</i>	<i>FT148768*</i>	<i>FT148768*</i>	<i>FT148768*</i>	<i>FT148768*</i>	<i>FT148768*</i>
			<i>BY68177*</i>	<i>BY68177*</i>	<i>BY68177*</i>
FT63237	FT91794 > FT91925	FT91182	FT90816	FT91270	FT77474
				<i>BY18325*</i>	<i>BY18325*</i>
				<i>BY18325*</i>	<i>BY18325*</i>
				<i>BY18325*</i>	<i>BY18325*</i>
A15493	A15495	BY41035	FT258152	FT76133	FT239425
FGC57909	FGC57911	FGC57916	FGC57917	FGC57919	FT28386
<i>FT390895*</i>	<i>FT390895*</i>	<i>FT390895*</i>	<i>FT390895*</i>	<i>FT390895*</i>	<i>FT390895*</i>
		FT186886	FT183372	FT186904	FT186905
					<i>BY2667*</i>
FT73234	FT73244	FT90200	Y13567	BY2728	BY2705

FTA26788	Y8251	FTA77138	FTB43979	FTB44036	FTB53920
<i>FGC71316*</i>	<i>FGC71316*</i>	<i>FGC71316*</i>	<i>FGC71316*</i>	<i>FGC71316*</i>	<i>FGC71316*</i>
<i>FGC71316*</i>	<i>FGC71316*</i>	<i>FGC71316*</i>	<i>FGC71316*</i>	<i>FGC71316*</i>	<i>FGC71316*</i>
<i>FGC71316*</i>	<i>FGC71316*</i>	<i>FGC71316*</i>	<i>FGC71316*</i>	<i>FGC71316*</i>	<i>FGC71316*</i>

FT236115 > FT236163	FT237030 > FT237098	FT237196 > FT234472	FT237554 > FT285105	BY174853 > HU94	<i>FT235981*</i> <i>FT235981*</i>
FGC71321	Y7089	Y7082*	Y7082*	Y7082*	Y7082*
			BY43812	FGC12182	FGC12183

					FT81271
	FT191128	FGC35551	A5904	FT160743	BY42724

BY170664	BY171007	BY171153	BY171279	BY171390	FT108233
<i>BY35718*</i>	<i>BY35718*</i>	<i>BY35718*</i>	<i>BY35718*</i>	<i>BY35718*</i>	<i>BY35718*</i>
<i>BY35718*</i>	<i>BY35718*</i>	<i>BY35718*</i>	<i>BY35718*</i>	<i>BY35718*</i>	<i>BY35718*</i>
		<i>BY35720*</i>	<i>BY35720*</i>	<i>BY35720*</i>	<i>BY35720*</i>

FT123440	BY35721		FTA15788	FT439615	FT458851
		BY167496	BY166437	BY168097	Y154616
				BY112602	<i>BY112602*</i>
					<i>BY112602*</i>
					<i>BY112602*</i>

BY102017	BY145394	BY24538	BY69669	FTA32226	Y111166
	BY103163	BY147714	BY150395	FT250741	FT251636
FT63156	FT62383	FT63443	FT63465	FT63466	FT63156*
				FT394597	FT394204
FT250979	FT250701	FT251446	FT251743	FT251966	FT359042
FT39186	FGC60466	FGC67400	Y45512	Y47909	Y48134
FT165852	FT168254	FT169112	FT169262	FT367514	FT169660
BY38589	BY38592	FT114225	FT118980	FTB30787	BY144293
BY21169	BY21170				
		Y104487	Y104487*	Y104487*	Y104487*
					BY18310

<i>BY25946*</i>	<i>BY25946*</i>	<i>BY25946*</i>	<i>BY25946*</i>	<i>BY25946*</i>	<i>BY25946*</i>
FT94064	FGC36559	FT446137	FT93617	FT93868	FT93905
FT136403	<i>FT137198*</i>	<i>FT137198*</i>	<i>FT137198*</i>	<i>FT137198*</i>	<i>FT137198*</i>
			BY18329	BY25898	BY25936
FT338659	FT338996	FT338997	FT342018	Y38757	FT342310
<i>FGC32830*</i>	<i>FGC32830*</i>	<i>FGC32830*</i>	<i>FGC32830*</i>	<i>FGC32830*</i>	<i>FGC32830*</i>

BY47752

FGC49727	FGC49729	FT11869	FT13588	FT13658	Y135731
	<i>FT47343*</i>	<i>FT47343*</i>	<i>FT47343*</i>	<i>FT47343*</i>	<i>FT47343*</i>
			BY184845	BY184712	BY185215
			BY21233	BY21234	BY146806

BY230928	FGC7978	FT359850	FT359959	FT360292	FT361104
FGC32835	FT47867	FT191148	FT47241	FT48159	Y172141
			FGC32828	FGC32827	FGC32824
			S668*	S668*	S668*
	PH4147	BY198236	BY199226	BY200805	FT125525
					PH4147*
					PH4147*

FTC5478	FTC5506	FTC5535	FTC5669	FTC5766	FTC5774
Y112235	FT140803	FT381275	FT381275*	FT381275*	FT381275*
			FT381275*	FT381275*	FT381275*
		BY25917	BY25902	BY25905	
Y72140	BY171768	BY161634	BY161893	BY162245	BY162352
	BY18346	BY25904	BY25907	FT45796	
					FT46764 > BY204201

A10680			A10680*	A10680*	A10680*
			A10680*	A10680*	A10680*
	BY18311	BY130415	BY144097	BY18312	BY61507
FT191134	FT95233	BY161919*	BY161919*	BY161919*	BY161919*
				BY161332	BY161364

				BY145857	
		BY18332*	BY18332*	BY18332*	BY18332*
		BY18332*	BY18332*	BY18332*	BY18332*
FT273676	FT272627	FT273226	FT273345	FT274080	FT274977

				BY25916	
				FT292886	FT292886*
		BY198972	FTA2179	FTA2180	Y10583
				BY92554	BY106604
				BY115822	

FTB88191	FTB80199	FTB82575	FTB82978	FTB83445	FTB83735
		BY168440*	BY168440*	BY168440*	BY168440*

FTC78780	BY166028	BY166832	FT88150	FT266402		FT259376	

<i>DF97*</i>	<i>DF97*</i>	<i>DF97*</i>	<i>DF97*</i>	<i>DF97*</i>	<i>DF97*</i>
<i>DF97*</i>	<i>DF97*</i>	<i>DF97*</i>	<i>DF97*</i>	<i>DF97*</i>	<i>DF97*</i>
			BY76755	BY164495	BY81673
					<i>FTA3892*</i>

BY21180	BY21181			BY146927	FT222136
					<i>S674*</i>
		S666	BY43797	S674	
				BY106100	BY115036
			<i>BY18256*</i>	<i>BY18256*</i>	<i>BY18256*</i>

FT27863	FT28006	FT29619	FT30267	Y100498	Y102681
					BY178847
				<i>BY3343*</i>	<i>BY3343*</i>
		FTA48475	FT268855	FTA48724	FTA48803
					BY23663

BY157503	BY118289	BY158126	BY158509	BY158540	BY205484
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FGC58597	FGC58596	FGC68704	FT161499	FGC49793 > FGC49794	FGC49795 > FGC49796
			BY21235	FTA1267	<i>FTA1267*</i>
					<i>FTA1267*</i>
				BY176927	BY177088
				BY18247 > BY18258	BY222366
				FGC68708	
					BY38377
<i>BY471*</i>	<i>BY471*</i>	<i>BY471*</i>	<i>BY471*</i>	<i>BY471*</i>	<i>BY471*</i>
BY166877	BY211384	BY211385	BY223395	F25059	<i>FT28864*</i>

BY18261

				<i>FT385091*</i>	<i>FT385091*</i>
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FGC49695	FT66117	FT385091	BY218377	FT385091*	FT385091*	
						FTA31329
		A11106	A11101	A11103	FT80775	
						BY82995

				BY93732

BY31357

A25330

Y32988

Y112144

A24484

FGC52374.1

FGC52372

			BY171706	Y132209	Y132209*
					Y132209*

		<i>FGC19851*</i>	<i>FGC19851*</i>	<i>FGC19851*</i>	<i>FGC19851*</i>
			FGC8741	FGC8742	FGC8743

FT172032	FT414800				<i>FT172032*</i>
		FT171977	FT146865	FT171893	FT172029

	BY21172	BY18248	BY18304	BY21173	BY21174
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BY35770	BY59132	FT15938	FT16229	FT18217	FT26246
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		BY113621	BY104365	BY136722	
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FT62866	FT179119	FT62952	FT63016	FT63161	FT63168
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BY111749	BY127448	BY128798	BY130924	BY62609	BY65079
BY11538	BY11539	BY11540	BY11541	FT212986	FT213444

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FT124408	FGC41503	FGC41504	FGC41516	FT123051	FT191147
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Y26014*

Y26014*

BY35771*

BY35771*

BY35771*

Y164152	BY35772	BY182428	BY35774	FT108509	
					BY193442

CTS8002

BY38841

FGC21754

Y128074

CTS8002*

Y128099

FT382411 > FT437900

FT382755 > FT303381

FT381940

FT382940

FT383132

FT383241

BY64438

BY107853

BY116440

BY130269

BY145299

BY169850

BY38577

FT47064 > Y128824

FT91663 (Domhnall Mór Ó Domhnail ?- 1241) or Gofraid O'Donnell
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BY21150

BY21160 >

BY41462 >

BY47930 >

		BY21159	BY21161	BY41463	BY48888
				FT7322*	FT7322*
		FT12253	FT12253*	FT12253*	FT12253*
FGC65264	FT7680				
		FT8654	FT8654*	FT8654*	FT8654*
			FT8654*	FT8654*	FT8654*
				BY74382	BY113745
	BY21207				
		BY21208	BY21209	BY21210	BY21212
FGC19846*	FGC19846*	FGC19846*	FGC19846*	FGC19846*	FGC19846*
FT128318	BY67070	FT128562	FT128693	FT128818	FT129137
			FT304576	FT304576*	FT304576*
				FT304576*	FT304576*
		FT144600	FT144853	FT145306	FT149893
DV10272	DV21100				

DT10273	DT21109				Y42488
		FGC42106*	FGC42106*	FGC42106*	FGC42106*

FT18931	FT15937				FT137382
		FT19291	FT17142	FT19291*	FT19291*

	BY56624	BY108280	BY122963	BY132167	BY148797
FT76519	FTA36700	FT294797	FT317754	FTA36693	FTA37296
			BY23098	FGC42103	FGC42104
					BY202797

BY18295	BY111353	BY115891	BY186546	BY188392	BY188732
		FGC19848*	FGC19848*	FGC19848*	FGC19848*
			FT101936	FT102640	FT103093

FGC19856 > BY21232	FGC19840 > FGC19844	FGC19847 > FGC57792	FT111788	BY23088	BY18275
			FGC19845	FTT35	FGC57793
BY71332	A934	BY141343	BY51975	BY90972	FT134543
FT115179	BY38596	FT379468	BY38597	BY38598	Y132759

		S588*	S588*	S588*	S588*
		S588*	S588*	S588*	S588*
		S588*	S588*	S588*	S588*
		S588*	S588*	S588*	S588*
				A5388*	A5388*

BY57166	BY124944	BY146581	FT303165	FTB88200	FT52889
BY143575	BY52104	BY61217	BY70440	BY78757	BY79346
		BY20536	BY18219	BY43658	FT165129

A11982	A11983	BY13819	BY60328	BZ462	FT271054
		BY70810	FT109684	FT110129	FT110331
ETA27720	ETA20422	ETA24102	ETA24262	ETA0440	ETA0770E

FTAZ1120	FTAZ9432	FTAZ4103	FTAZ4203	FTAZ449	FTAZ1193
BY116912	FT182520	FT187188	FT188021	FT188569	FT188999
BY126743	Y158593	FT335635	FT336602	FT335635*	FT335635*
FT92296*	FT92296*	FT92296*	FT92296*	FT92296*	FT92296*
BY123965*	BY123965*	BY123965*	BY123965*	BY123965*	BY123965*
BY123965*	BY123965*	BY123965*	BY123965*	BY123965*	BY123965*
	BY193079	BY193191	BY193199	BY193882	BY194573
BY154268*	BY154268*	BY154268*	BY154268*	BY154268*	BY154268*
	FT145926	FT145291	FT145752	FT146338	FT147090
	BY66082	BY101188	BY127401	BY198725	CTS912
BY18198*	BY18198*	BY18198*	BY18198*	BY18198*	BY18198*
		BY69003	BY122416	BY144860	BY97008
BY20531	BY42868	BY43995	FT21636	BY20527*	BY20527*

FTC28043	FTC28732	FTC29211	FTC29952	FTC26570*	FTC26570*
				FTC26570*	FTC26570*
FT166780	FT169218	FT169649	FT245101	FTB79374	BY50759*
BY170517	BY169237	BY169438	BY169714	BY170963	BY171255

BZ215	FT108591	FT108645	FT108888 > FT108891	FT108991 > FT109045	FT178554
				FT165097*	FT165097*
				FT165097*	FT165097*
			S7049*	S7049*	S7049*
	FGC64966*	FGC64966*	FGC64966*	FGC64966*	FGC64966*
FGC64965	FGC64967	FGC64970	FTA97794	FTB16956	FTB16957
		FT165098	FT90827	MF229628	FT135792
BY13681*	BY13681*	BY13681*	BY13681*	BY13681*	BY13681*
FGC57039	FT93965*				
	FT93965	BY13680	FGC57046	FT123515	FT123618
				FGC30692	A18434

			FT177237	FT172678	FT172718
FT88900	A10531*	A10531*	A10531*	A10531*	A10531*
			FTB53888	FTB53889	FTB53888*
			S7814*	S7814*	S7814*
		S7814*	S7814*	S7814*	S7814*
		S7814*	S7814*	S7814*	S7814*

FT257357	FT255536	FT255724	FT256857	FT256937	FT257136
FT233268	Y142221	BY67406	FT186694	FT189337	FT183253
FT192152	FT193158	FT193810	FT194040	FT194294	FT430644
FGC51765	FT48742	FGC51761	BY42680	FGC51763	FT51760
BY20497	BY20498	BY20499	BY20500	BY20501	BY20502
BY18197	A20534	BY63993	FTA77104	FTA77105	Y67281
			<i>FT71959*</i>	<i>FT71959*</i>	<i>FT71959*</i>
BY174785	FT165127	FT54038	FT71723	FT71847	FT71848
				FTA76566	FTA73617
FGC33946	FGC33947	FGC33948	FGC33950	FGC33951	FGC33952
FT258728	FT259096	FT259151	FT259834	FT259892	FT260266

	FGC75642	FGC75648	FT95410	BY201250	BY199114
			BY18222	BY18236	BY18236B
F12365	FGC59191	FGC59192	BY20537	BY18239	BY84239
			FT116695	A11539	A11540

A14793 > A14794	A14795	A14797	A15544	BY50864	BY50871
				BY77979	FT56561
			FT62784	BY103371	F14659
BY20507	BY20508 > BY20509	F13941	BY20512 > BY20514	FT144894 > FT145692	FT258160

<i>S603*</i>	<i>S603*</i>	<i>S603*</i>	<i>S603*</i>	<i>S603*</i>	<i>S603*</i>
Y97055	FT94703	FT94251	FT94261	FT94388	Y111435

	FT135247	FT139262	FT141082	FT449162	Y168640
FT130655	FT130692	FT131716	FT39280	FT449862	FT457457
	BY196235	BY196707	BY224154	FT103769	FT191136
		<i>FGC16740*</i>	<i>FGC16740*</i>	<i>FGC16740*</i>	<i>FGC16740*</i>
		<i>FGC16740*</i>	<i>FGC16740*</i>	<i>FGC16740*</i>	<i>FGC16740*</i>
		<i>FGC16740*</i>	<i>FGC16740*</i>	<i>FGC16740*</i>	<i>FGC16740*</i>
FTC14657	FTC14658		<i>BY62083*</i>	<i>BY62083*</i>	<i>BY62083*</i>
		FT233585		<i>FT233585*</i>	<i>FT233585*</i>
			BY104994	F499	
					FTA36796

FGC16737	FGC16730	FGC16746	<i>FGC16737*</i>	<i>FGC16737*</i>	<i>FGC16737*</i>
				<i>FT305875*</i>	<i>FT305875*</i>
FT381267	FT381585	FTB59397	FTA29029	FTA34213	FTB58833
					FTA8453

			FT440361	FT440361*
				FT440361*
				FGC19833*
FGC19832*	FGC19832*	FGC19832*	FGC19832*	FGC19832*
FGC19832*	FGC19832*	FGC19832*	FGC19832*	FGC19832*

FT91808	BY35762	BY102359
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FGC19838		BY164458	FGC13618	BY50003	BY164459
	FGC19830	FGC57925	FGC59315	FGC78682	BY94348
FT121579	FT120740	FT52125	FTC90194	Z22566	FT121579*
					FT121579*
FTC24165	FTC24640	FTC25611	FTC26130	FTC26342	FTC32238

Y128532	Y128532*				
	FT124047	BY196743	FT123276	FT123616	FT123685

BY200412	BY200365
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FTA82426	FTA82941
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FT75364	FTB5635	FTB5635*(XZ)	FTB5635*(XZ)	FTB5635*	FTB5635*
		FTB77612	FTB77730	FTB77742	FTB77863
	BY148443	FT405220	FT404506	FT406350	
		BY50792			

FT83376	FT83934		BY20521	A2710	BY20522
		BY140369	BY197297	BY197023	BY197124

		<i>FT95366*</i>	<i>FT95366*</i>	<i>FT95366*</i>	<i>FT95366*</i>
FT96154	BY165446	F363	FT251942	FT96178	FT96280
BY216377	FT371560	Y50	FT371901	FT371663	FT371969

BY157724

Z15443	FT358037	<i>FT56993*</i>	<i>FT56993*</i>	<i>FT56993*</i>	<i>FT56993*</i>
		<i>FT56993*</i>	<i>FT56993*</i>	<i>FT56993*</i>	<i>FT56993*</i>
		<i>FT358037*</i>	<i>FT358037*</i>	<i>FT358037*</i>	<i>FT358037*</i>
		<i>FT358037*</i>	<i>FT358037*</i>	<i>FT358037*</i>	<i>FT358037*</i>
		FT58042	FT358038	FT56770	FT58579

FT91673	A12551	BY18227	FT23078	FT55739	FT351177
					BY112990

<i>FGC57760*</i>	<i>FGC57760*</i>	<i>FGC57760*</i>	<i>FGC57760*</i>	<i>FGC57760*</i>	<i>FGC57760*</i>
<i>FT131003*</i>	<i>FT131003*</i>	<i>FT131003*</i>	<i>FT131003*</i>	<i>FT131003*</i>	<i>FT131003*</i>
<i>FT131003*</i>	<i>FT131003*</i>	<i>FT131003*</i>	<i>FT131003*</i>	<i>FT131003*</i>	<i>FT131003*</i>

<i>BY45355*</i>	<i>BY45355*</i>	<i>BY45355*</i>	<i>BY45355*</i>	<i>BY45355*</i>	<i>BY45355*</i>
		BY49900	BY102209	BY49868	BY50023
					<i>FT32818*</i>
FT32344	FT32389 > FT32390	FT32406	FT32754	FT32757	FT32847
				<i>FGC19865*</i>	<i>FGC19865*</i>
					BY203817
FT2494	FT2671	FT2866	Y21560		FGC19863
<i>FTA43928*</i>	<i>FTA43928*</i>	<i>FTA43928*</i>	<i>FTA43928*</i>	<i>FTA43928*</i>	<i>FTA43928*</i>
<i>FTA43928*</i>	<i>FTA43928*</i>	<i>FTA43928*</i>	<i>FTA43928*</i>	<i>FTA43928*</i>	<i>FTA43928*</i>
		BY18212	BY133194	FT165131	FT73649

F1373002	F1373704	F1373034	F1370020	F1447304	FT375497*
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		Y23074*	Y23074*	Y23074*	Y23074*
FT199058	BY196222	FT197524	FT197717	FT198397	

Y22118	Y23076	FTC41265	Y22118*	Y22118*	Y22118*
			Y22118*	Y22118*	Y22118*
					FTC41265*
			Y22116	A11215	BY21253

			BY11728	BY11729	BY11730
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				Y96240*	Y96240*
BY90302	FT430667	FT445179	FT48066	FTC67399	BY71053*
					BY71053*
					BY71053*
BY198*	BY198*	BY198*	BY198*	BY198*	BY198*
BY198*	BY198*	BY198*	BY198*	BY198*	BY198*
BY198*	BY198*	BY198*	BY198*	BY198*	BY198*
FT183874	FT184891	FT185484	FT185762	FT186119	FT186508
			FT94609	BY193002	BY193259
			BY21145	BY21146	BY21147

FGC40492	FGC40493	FGC40495	FGC40496	FGC40498	FGC40508
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FT45853	Y77953	Y195212	FTB58843	FTB58843*	FTB58843*
				FTB58843*	FTB58843*
			FT115299		FT115299*
				FT118436	FT114773

BY21187	BY21188	FTA24667			
			Y02715	FT172000	FT172220

			192713	FT172900	FT173229
FT97078	FT97234	FT97096	FT435355	FT95649	FT96064

Y36587*	Y36587*	Y36587*	Y36587*	Y36587*	Y36587*
		BY139826	FTC44162	Z46370	BY139826*
					BY139826*
FTA58456	FTA58593	FTA59229	FTA56326*	FTA56326*	FTA56326*
			FTA56326*	FTA56326*	FTA56326*

A15880	A15881	FT81096	FT81182	FT81456	A15877
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BY23493	BY21672	BY21674	A15867	FT56558	BY21671
			A259*	A259*	A259*
			A259*	A259*	A259*
FT228318	FT228372	FT228724	FT229154	FT229333	FT229377
BY201307	BY209726	BY216809	BY223375	FT11535 > FT11688	FT12189

Y238098	<i>FT385118*</i>	<i>FT385118*</i>	<i>FT385118*</i>	<i>FT385118*</i>	<i>FT385118*</i>	
		FT384406	BY212388	FT384638	FTB59399	
		BY18122	BY18194	Y103262	Y90693	
FT16621	Y31294	BY18179 Magnus Miogharan O'Conor of Tir Thuathail (Kilronan, Roscommon) , king of Connacht 1288-1293			<i>BY18115*</i>	
					<i>BY18115*</i>	
				FT16709	<i>FT16709*</i>	
				<i>BY18179*</i>	<i>BY18179*</i>	<i>BY18179*</i>
				A21124	A21125	A21126
						BY18182
						<i>BY132827*</i>
			<i>BY132827*</i>	<i>BY132827*</i>		

FT206999	FT207048	FT207292	FT207294	FT207582	FT258189
BY186727	BY186903	BY187591	BY187749	BY188253	FT110689

FGC95507	FTB20464	YFS1386777	YFS1386778	FGC42416	FGC42411
<i>FT64290*</i>	<i>FT64290*</i>	<i>FT64290*</i>	<i>FT64290*</i>	<i>FT64290*</i>	<i>FT64290*</i>

FTB34554	FTB34586	FTB39215	FTB39216	FTB39217	FTB39218
		FT63988		<i>FT63988*</i>	<i>FT63988*</i>
				<i>FT63988*</i>	<i>FT63988*</i>
		FTA8007	FTA8065	FTA8437	
FT109257	FT303170				<i>FT109339*</i>
		FT109135	FT109379	FT13326	FT303175
FTB97166 > FTB97167	FTB97230	FTB98028	FTB99321	FTB99389	FTB99458

A21746	<i>A21746*</i>
	<i>A21746*</i>
	<i>A21746*</i>
	<i>A21296*</i>

BY73003	FT144644	FT145813	FT146885	FT146913	FT147378
FGC65254	FT23525	Y168700			
			FGC65253	FGC65259	FT18239

BY145506	Y52954	Y52954*	Y52954*	Y52954*	BY108285*
		Y52954*	Y52954*	Y52954*	Y52954*
	S6687	S6687*	S6687*	S6687*	S6687*
			FT101173	FT100262	FT101317

FGC55181	FGC55175	A21783	FT207619	FT206706	FGC55175*
					FT207619*
			FT53958	FTA52124	MF60541
			FT130287*	FT130287*	FT130287*

BY9397	FT130810	FT130177	FT130663	FT130925	FT131019
FT188162 > FT219048	BY125625	BY105596	BY106145	FTB31362	BY140582

BY68058	BY116147
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FT258159	FT35830	DV10122	DV20200	DV20200	DV20202
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		DT1013Z	DT30309	DT3039U	DT3039S
					FGC59201

			BY147989		
				FTA70069	FT212179
FT75028	FT75269	FT75294	FT76946	FT77021	Y34645
			<i>FGC34296*</i>	<i>FGC34296*</i>	<i>FGC34296*</i>
			<i>FGC34296*</i>	<i>FGC34296*</i>	<i>FGC34296*</i>
	FT54120	FT51925	FT53569	FT54424	FT54575
FT67264	FT219103	FT66202	FT68180	FT68376	FTB61346
FT258166					
	BY38391	BY147758	BY38392	BY38394	FT250735

					FT268326
					FT194464
A18724	A18727	A18729	A18730	A18733	A18736
BY167936	FT258157	FT71401	FT71566	FT71608	FT72040
	<i>BY18113*</i>	<i>BY18113*</i>	<i>BY18113*</i>	<i>BY18113*</i>	<i>BY18113*</i>

	<i>BY18113*</i>	<i>BY18113*</i>	<i>BY18113*</i>	<i>BY18113*</i>	<i>BY18113*</i>
BY203677	FT111805	BY202544	BY203358	BY203369	BY203410

				BY29015	FT125252
			<i>BY11723*</i>	<i>BY11723*</i>	<i>BY11723*</i>
			<i>BY11723*</i>	<i>BY11723*</i>	<i>BY11723*</i>
			<i>BY11723*</i>	<i>BY11723*</i>	<i>BY11723*</i>

A21187	A21188	A21189	A21191	A21192	FTC82993
Y128758	Y132136	Y132143	Y132146	Y154881	Y132137*
<i>A11846*</i>	<i>A11846*</i>	<i>A11846*</i>	<i>A11846*</i>	<i>A11846*</i>	<i>A11846*</i>
<i>A11846*</i>	<i>A11846*</i>	<i>A11846*</i>	<i>A11846*</i>	<i>A11846*</i>	<i>A11846*</i>

A21174 > A21175	A21176 > A21177	A21178 > A21179	A21180 > A21181	A21182 > A21183	FT109991
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				FT223218	A21167
		BY57971	A21160 > A21161	BY151003 > BY18133	FGC47256
		FTA58716	FGC78017	FT168924	BY172959
				A887*	A887*
					FTC80977

FT3672	FGC37744	A887	BY21240	BY176875	BY21239						
						<i>FGC5939*</i>	<i>FGC5939*</i>	<i>FGC5939*</i>	<i>FGC5939*</i>	<i>FGC5939*</i>	<i>FGC5939*</i>
						<i>FGC5939*</i>	<i>FGC5939*</i>	<i>FGC5939*</i>	<i>FGC5939*</i>	<i>FGC5939*</i>	<i>FGC5939*</i>
						<i>FT396104*</i>	<i>FT396104*</i>	<i>FT396104*</i>	<i>FT396104*</i>	<i>FT396104*</i>	<i>FT396104*</i>
						<i>FT396104*</i>	<i>FT396104*</i>	<i>FT396104*</i>	<i>FT396104*</i>	<i>FT396104*</i>	<i>FT396104*</i>
								<i>FTA43254*</i>	<i>FTA43254*</i>	<i>FTA43254*</i>	<i>FTA43254*</i>
							<i>FT185820*</i>	<i>FT185820*</i>	<i>FT185820*</i>	<i>FT185820*</i>	<i>FT185820*</i>
									FT353255	<i>FT353255*</i>	<i>FT353255*</i>
										<i>FT353255*</i>	<i>FT353255*</i>
MF40082	FT184295	FT185446	FT184124	FT185865	FT187446						
		<i>FT62840*</i>	<i>FT62840*</i>	<i>FT62840*</i>	<i>FT62840*</i>	<i>FT62840*</i>					
ET102504	ET219717	ET62440	ET62214								

FT103304	FT1210747	FT02449	FT03314	FT63159	FT361616
FT104068	FT104091	FTB79375	<i>FT103653*</i>	<i>FT103653*</i>	<i>FT103653*</i>
			<i>FT103653*</i>	<i>FT103653*</i>	<i>FT103653*</i>
FT76257	FT74913			FTA12467	FTA12769
				BY2681	BY11720
		BY167265	FT88380	FT89807	<i>BY167265*</i>
				<i>BY167265*</i>	
				BY165369	BY165515

BY20586	BY20587	FT59767	FT60094	FT60415	FGC36499
	BY160768	A21756			
			A21766	<i>A21766*</i>	<i>A21766*</i>
				<i>A21766*</i>	<i>A21766*</i>
BY20816	BY20818	FT81113	FT81767	FT81812	FT81813
		<i>A6925*</i>	<i>A6925*</i>	<i>A6925*</i>	<i>A6925*</i>
		<i>A6925*</i>	<i>A6925*</i>	<i>A6925*</i>	<i>A6925*</i>
A21750	BY78995	<i>BY18157*</i>	<i>BY18157*</i>	<i>BY18157*</i>	<i>BY18157*</i>
					A21749
				FTA26855	FTA58721

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FT39788	BY20593	FT441685	BY20593*		
			FTA43921	FTA43921*	
		BY20589	BY20590	BY20591	

	BY66378	BY202690	BY202966
FGC36992	FGC36996	FT219092	FT87424

<i>DF105*</i>	<i>DF105*</i>
<i>DF105*</i>	<i>DF105*</i>
<i>DF105*</i>	<i>DF105*</i>
<i>DF105*</i>	<i>DF105*</i>
<i>DF105*</i>	<i>DF105*</i>
<i>DF105*</i>	<i>DF105*</i>
<i>DF105*</i>	<i>DF105*</i>
<i>DF105*</i>	<i>DF105*</i>
<i>DF105*</i>	<i>DF105*</i>
<i>DF105*</i>	<i>DF105*</i>
<i>DF105*</i>	<i>DF105*</i>
<i>DF105*</i>	<i>DF105*</i>
<i>DF105*</i>	<i>DF105*</i>

FTB89129	FTB89349	FTB90014	FTB91484	FTB91522	FTB91557
FT237540	FT237685	FT237720	FT237954	FT238123	FT443054
	FTB81706	FT22267	FTB80469	FTB80710	FTC11149

			FT354023*	FT354023*	FT354023*

FT11914 > FT12174	FT12537 > FT13941	FT14423	FT171154	FT23522	FT272547
	<i>FTC610*</i>	<i>FTC610*</i>	<i>FTC610*</i>	<i>FTC610*</i>	<i>FTC610*</i>
	<i>FTC610*</i>	<i>FTC610*</i>	<i>FTC610*</i>	<i>FTC610*</i>	<i>FTC610*</i>
	<i>FTC610*</i>	<i>FTC610*</i>	<i>FTC610*</i>	<i>FTC610*</i>	<i>FTC610*</i>
		<i>BY93031*</i>	<i>BY93031*</i>	<i>BY93031*</i>	<i>BY93031*</i>
<i>FT200220*</i>	<i>FT200220*</i>	<i>FT200220*</i>	<i>FT200220*</i>	<i>FT200220*</i>	<i>FT200220*</i>
FTB63776	FTB63849	FTB64243	FTB64579	FTB64636	FTB64646
		FT308796	FT309908	FT309921	FT310134

FT88486	FT88915	FT88922	FT89421	FT89748	FTA38536
BY104150	BY112958	BY124479	BY58445	FTB20344	FTB26965
				<i>BY145238*</i>	<i>BY145238*</i>

FT114765	FT116703	FTB47866	FT280617	FT113717	BY153298
FT191144	FT91003	FT91363			FT91273
			BY167209	BY167384	BY167391
<i>BY35731*</i>	<i>BY35731*</i>	<i>BY35731*</i>	<i>BY35731*</i>	<i>BY35731*</i>	<i>BY35731*</i>

BY35736*	BY35736*	BY35736*	BY35736*	BY35736*	BY35736*
FTA91076	BY35760	BY35761	FTC73000	FTC73001	FTC74597
FT200886	A16449	FT200671	FT202475	FT200886*	FT200886*
				FT200886*	FT200886*
	FT17642*	FT17642*	FT17642*	FT17642*	FT17642*
	FT319138	FT319138*	FT319138*	FT319138*	FT319138*
FTA30445	FTA32663	FTA32883	FTA33218	FTA35126	FTA30104*
					FTA30104*
		BY67410	BY105447	FT110430	FT194053
FGC45845	FT17967	FT20227	FT20228	Z40013	FT376896

FT409936	FT411423	FT411525	MF63998	<i>FT410057*</i>	<i>FT410057*</i>
				<i>FT410057*</i>	<i>FT410057*</i>
			BY63927	BY221705	BY75510
FT408727	FT409014	FT409197	FT48597	<i>FT407343*</i>	<i>FT407343*</i>
				<i>FT407343*</i>	<i>FT407343*</i>
FT169396	FT169494	FT169578	FT171194	FT390907	FT390908
FT169450	FT170845	FT219097	<i>FT168685*</i>	<i>FT168685*</i>	<i>FT168685*</i>
			<i>FT168685*</i>	<i>FT168685*</i>	<i>FT168685*</i>
FT154896	FT252196	FT258155	Y150204	Y150212	Y192401
<i>FT105225*</i>	<i>FT105225*</i>	<i>FT105225*</i>	<i>FT105225*</i>	<i>FT105225*</i>	<i>FT105225*</i>
			FT279032	Y11474	<i>FT279032*</i>
					<i>FT279032*</i>
					<i>FT279032*</i>
BY118236	BY138238	BY76590	BY87673	BY96064	<i>BY78601*</i>
					<i>BY78601*</i>
		BY154023	<i>BY154023*</i>	<i>BY154023*</i>	<i>BY154023*</i>
			BY153877	BY154258	BY155630

BY104379	BY113163	BY139124	BY139338	BY146374	BY222249
BY35754	BY35755	BY35756	BY35757	BY35758	FT86910
BY35738	BY35739	BY35740	BY35741	BY35742	BY35743
BY42915	BY44121	FT136583	FT136650	FT136832	FT137907

BY21184	BY21183	BY21185	FT140403		BY21184*
					BY21184*
				BY38594	BY32055
FGC32805	FGC32806	FGC32807	FGC32808	FGC41274	FT344813
					BY35726*
					BY35726*
		FT28767*	FT28767*	FT28767*	FT28767*

FT115064	FT119183	Y107292	Y83801	Y91047	Y97991

FTC27849	FT447472
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FT8285	FTA57359	FTA57371	FTA57894	FTA94710
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FT28094					
	FT31150	FT29369	FT56556	FT56557	Y82107

BY57933	A109	BY51523	BY51523*
		BY51523*	BY51523*
		FT198639	FT197604

FT216280	FT216758	FT440525	FT217220	FT440527	FT215947
FGC9773*	FGC9773*	FGC9773*	FGC9773*	FGC9773*	FGC9773*
FGC9773*	FGC9773*	FGC9773*	FGC9773*	FGC9773*	FGC9773*

BY129440	BY104234	BY223907
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DV11020	DV11020	DV11010	DV11011	DV11012	BY41037*
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DT41030	DT41039	DT41040	DT41041	DT41042	BY41037*
BY38349	BY38348	Y85092	BY90940	Y103149	Y107824

BY21163	BY21164	BY52157	FGGC88745	BY21166	BY18368
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FGC4134			FT48438	FT458105	FT47622
					<i>FGC4125*</i>
					<i>FGC4125*</i>
					<i>FGC4125*</i>
					<i>FGC4125*</i>
					<i>FGC4125*</i>
					<i>FGC4125*</i>
					<i>FGC4125*</i>
				FGC4125	BY73152
		DV11712	DV11001	BY11714	BY21199

	DT111712	DT44004			
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	ZS8379*	ZS8379*	ZS8379*	ZS8379*	ZS8379*
	ZS8379*	ZS8379*	ZS8379*	ZS8379*	ZS8379*
	BY66386	BY98746	FT117603	FT147100	
					Y73722
FT59491*	FT59491*	FT59491*	FT59491*	FT59491*	FT59491*

					FT372020
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FT354086	FT58980 > FT58982	FT59026	FT59070	FT59368	FT59447
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BY180943	BY39947	BY145571	BY80652	FT110521	FT111983
	FT165292	FT165442	FT166038	FT166269	FT167869

FT157351	FT155611	FT157310
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FTA85713	FTA96744	FTA97096	FTB10603	FTB12990	FTB20463
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		A11427	BY11709	FGC37882	BY21143
		PH104	BY113321	BY212810	FT95089
A223*	A223*	A223*	A223*	A223*	A223*
		FT82416	FT82825	FT82841	FT82416*
					FT82416*
BY52466	FT77472	BY100000*	BY100000*	BY100000*	BY100000*
		BY100000*	BY100000*	BY100000*	BY100000*
		BY61118	A23606	A23607	BY114480
		A17682	A17688	A17682*	A17682*
				FT99234	BY152455
				A823*	A823*
				A823*	A823*

FT101501	FT102555	FT102653	FT103155	FT292841	FT287224
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FT115248	FT115643	FT116546	FT117604	FT118688	FT119410

FT83009	FT83421	Y88837	BY587	FT82643	BY149535
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			A982*	A982*	A982*
		A982	A983	A981	FT232891

	A11242*	A11242*	A11242*	A11242*	A11242*
A11245	FT129962	FT165100		BY76915	A17476
			A11244	A11246	A11247
			BY11694*	BY11694*	BY11694*

FTB35085	FGC62835	FGC62837	FTB36108	FTB37330	FTB39236
	FT394477	FT394456	FT394556	FT394620	FT426196

BY11696	BY11698	BY43918	BY120679	BY160745	BY158964
				A5613*	A5613*

A5607	A5612	BY43888	FT84190	BY114227	Y84351

Y146184	FT128187	FT254857	<i>FT254857*</i>	<i>FT254857*</i>
		Y146204	FT96014	Y146186

				FT248833	FT248313
FT271855	FT271748	FT271854	FT271950	FT272006	FT272008
		FGC33468	FGC33469	FGC33471	FGC33473

A1774*	A1774*	A1774*	A1774*

FT39630	BY41464	FT39993	FT41425	FT42659	Y56365
	FT90196	FT90197			FT90196*
					FT90196*
					FT90196*
			FT74122	FT74040	FT74122*
FGC23742*	FGC23742*	FGC23742*	FGC23742*	FGC23742*	FGC23742*
FGC58793	FGC58794	FGC58795	FT301719	FT308185	FT308486
				FGC52029*	FGC52029*
FGC52030	FGC52031	FT438673	BY59051	BY79753	FT85937
FT6811	FT8007	BY168066*	BY168066*	BY168066*	BY168066*
BY69640*	BY69640*	BY69640*	BY69640*	BY69640*	BY69640*
			FT133387	CTS2523	FT132590
FT365706	FT365004	FT365318	FTB43280	FT365706*	FT365706*
				FT365706*	FT365706*
A11895	A11896	A11897	A11899	A11903	A11904
	FT359093*	FT359093*	FT359093*	FT359093*	FT359093*
	BY71102	BY71102*	BY71102*	BY71102*	BY71102*

FT359093	BY71102	BY71102*	BY71102*	BY71102*	BY71102*
	FT355053	FT249917	FT354974	FT355529	FT355600
				FGC31521	FGC31520
Y80700	FT217461	FT217000	FT217119	FT218703	Y12638
BY106484	BY107609*	BY107609*	BY107609*	BY107609*	BY107609*
	BY107609*	BY107609*	BY107609*	BY107609*	BY107609*
FGC46310*	FGC46310*	FGC46310*	FGC46310*	FGC46310*	FGC46310*
FGC46310*	FGC46310*	FGC46310*	FGC46310*	FGC46310*	FGC46310*
FT315267*	FT315267*	FT315267*	FT315267*	FT315267*	FT315267*
FT269637	FT269946	FT270675	FT448466		
				FTA79378	FTA82339
A16160*	A16160*	A16160*	A16160*	A16160*	A16160*

FT287180	FT206457	FT206457*	FT206457*	FT206457*	FT206457*
		S20413	FT387756	FT388037	FT389348
Y86593	Y86594	Y94073	Y95774	BY106459*	BY106459*
					FT78901
FGC46309*	FGC46309*	FGC46309*	FGC46309*	FGC46309*	FGC46309*
					FT74157
BY43051	HU407	Y100575	Y105768	Y106372	Y84412
				A1206*	A1206*
				A1206*	A1206*
				A1206*	A1206*
Y83043	Y83043*	Y83043*	Y83043*	Y83043*	Y83043*
	Y83043*	Y83043*	Y83043*	Y83043*	Y83043*

					BY212908
FGC23736	FGC23737	FGC23738	FGC23740	FGC23741	FT74952
<i>FT382865*</i>	<i>FT382865*</i>	<i>FT382865*</i>	<i>FT382865*</i>	<i>FT382865*</i>	<i>FT382865*</i>
FTB59142	FTB59198	FTC36157	Y13956	Y275713	Z16376
FT382085	FT382591	FT382716	FT382774	FT383608	FT387309
				FTA24726	FT205945
FT12671	BY183163		<i>FT12671*</i>	<i>FT12671*</i>	<i>FT12671*</i>
					<i>BY183163*</i>
				FT96339	BY182558
		FT12650	FT11990	FT12364	FT12469
BY11691	BY43720.1	FT48487	FT48488	Y168630	Y168632

Y63653*	Y63653*	Y63653*	Y63653*	Y63653*	Y63653*		
FT33638 > FT35320		FT34593*	FT34593*	FT34593*	FT34593*		
		FT34593*	FT34593*	FT34593*	FT34593*		
	PH1080	BY145473	BY140950 (Jeremiah Hayden, 1795-1840, Maganey Athol)	BY82406	FT34599		
BY173291*	BY173291*	BY173291*	BY173291*	BY173291*	BY173291*		
BY173291*	BY173291*	BY173291*	BY173291*	BY173291*	BY173291*		
BY173291*	BY173291*	BY173291*	BY173291*	BY173291*	BY173291*		
	FT83747*	FT83747*	FT83747*	FT83747*	FT83747*		
	FT83315*	FT83315*	FT83315*	FT83315*	FT83315*		
BY38351 > BY77459	FT90203	FT90205 > FT82711	Y60251*	Y60251*	Y60251*		
			FT90205*	FT90205*	FT90205*		
			BY138634 > BY21283	FTA94208	BY138634* BY138634*		
S559*	S559*	S559*	S559*	S559*	S559*		
S559*	S559*	S559*	S559*	S559*	S559*		
FGC440*	FGC440*	FGC440*	FGC440*	FGC440*	FGC440*		
FGC84301*	FGC84301*	FGC84301*	FGC84301*	FGC84301*	FGC84301*		
FTA20220	FTA21374	FTA52231	FTA52629	FT289584	FT289584*		
					FT289584*		
					FT289584*		
					FGC458*		
					FGC458*		
					FGC458*		
					FGC458*		
FTB74828	FT356945*	FT356945*	FT356945*	FT356945*	FT356945*		
	FT356945*	FT356945*	FT356945*	FT356945*	FT356945*		
	FGC40246	FTC11826	FGC40246*	FGC40246*	FGC40246*		
			FGC40246*	FGC40246*	FGC40246*		
			FTA81104	FTA83250	FTA81104* FTA81104* FTA81104*		
FT151940*	FT151940*	FT151940*	FT151940*	FT151940*	FT151940*		
FT151940*	FT151940*	FT151940*	FT151940*	FT151940*	FT151940*		
FT399439 > FT399440	FT66054 > FT66171	FT66391 > FT67224	FT67467 > FT67510	FT68174 > FT68779 (Patrick Kelly, 1807-1884)	MF60575		
				BY122229*	BY122229*	BY122229*	BY122229*
				FTB81472*	FTB81472*	FTB81472*	FTB81472*
BY221001	FTB81472*	FTB81472*	FTB81472*	FTB81472*	FTB81472*		

DI224901	FTB81472*	FTB81472*	FTB81472*	FTB81472*	FTB81472*	
BY176827 > BY176940	BY177204 > BY177408	BY177442 > BY177468	BY11000 > FT393579	FT82762 > FT83460	FT84083 > FT84149	
FT126368	FT126638	FT126804	FT127266	FT127366	FT125403* FT125403*	
Y281106*	Y281106*	Y281106*	Y281106*	Y281106*	Y281106*	
FTC26537	BY205502*	BY205502*	BY205502*	BY205502*	BY205502*	
	BY205502*	BY205502*	BY205502*	BY205502*	BY205502*	
FGC4077*	FGC4077*	FGC4077*	FGC4077*	FGC4077*	FGC4077*	
FGC4077*	FGC4077*	FGC4077*	FGC4077*	FGC4077*	FGC4077*	
FGC4077*	FGC4077*	FGC4077*	FGC4077*	FGC4077*	FGC4077*	
Y50117	Y50188	Y50775	Y58059	Y59357	BY77186*	
					BY77186*	
FT68436*	FT68436*	FT68436*	FT68436*	FT68436*	FT68436*	
FTB19441*	FTB19441*	FTB19441*	FTB19441*	FTB19441*	FTB19441*	
FTB19441*	FTB19441*	FTB19441*	FTB19441*	FTB19441*	FTB19441*	
MF1125	FT31895 (Robert Smith, 1626- 1692)				BY60318*	
					BY60318*	
		FT29492	FT31092 (Joseph Smith, Sr.)	FT29492*	FT29492*	
M4491	FGC42186	FGC42185	FT423755	FGC37857*	FGC37857*	
				FGC42184 (Fielding Sudduth, 1785-1862, Culpeper, Virginia)	FGC37858	
				FT423755*	FT423755*	
			A359	A359*	A359*	A359*
	Y67106	BY74599*	BY74599*	BY74599*	BY74599*	BY74599*
BY74599*		BY74599*	BY74599*	BY74599*	BY74599*	
Y104168	Y108227	Y92012	Y98219	FT118961*	FT118961*	
				FT118961*	FT118961*	
				FTB75440*	FTB75440*	
				FTB75440*	FTB75440*	
FTB76267	BY188728	FT251400	FTB75420	FTB78630	FTB78751	
FGC5862*	FGC5862*	FGC5862*	FGC5862*	FGC5862*	FGC5862*	
FGC5868	FGC5869	FGC5871	FGC5856*	FGC5856*	FGC5856*	
			FGC5856*	FGC5856*	FGC5856*	
BY35283*	BY35283*	BY35283*	BY35283*	BY35283*	BY35283*	
BY35295	BY35298				BY35276*	
		BY35279	BY35281	BY35279*	BY35279*	
				BY35279*	BY35279*	

				BY35279*	BY35279*
FGC4086*	FGC4086*	FGC4086*	FGC4086*	FGC4086*	FGC4086*
Y60873	FT176870*	FT176870*	FT176870*	FT176870*	FT176870*
	FT176870*	FT176870*	FT176870*	FT176870*	FT176870*
	FT176870*	FT176870*	FT176870*	FT176870*	FT176870*
BY143473	BY59674	BY87105	FGC71210	BY45899*	BY45899*
				BY45899*	BY45899*
Y46801	Y49131	Y50761	Z20770*	Z20770*	Z20770*
			Z20770*	Z20770*	Z20770*
BY186561*	BY186561*	BY186561*	BY186561*	BY186561*	BY186561*
BY186561*	BY186561*	BY186561*	BY186561*	BY186561*	BY186561*
BY186561*	BY186561*	BY186561*	BY186561*	BY186561*	BY186561*
BY186561*	BY186561*	BY186561*	BY186561*	BY186561*	BY186561*
BY187586*	BY187586*	BY187586*	BY187586*	BY187586*	BY187586*
BY119590*	BY119590*	BY119590*	BY119590*	BY119590*	BY119590*
		BY63449	BY131437	BY56176	BY76230
FGC80135	FT81102 > FT81103	FT81112	FGC29481*	FGC29481*	FGC29481*
			FGC29481*	FGC29481*	FGC29481*
BY203609	BY204218	BY204220	FT146045	FT147677	BY202441* BY202441*
FT76278	FT82340	FT82341	FT82342	BY176386*	BY176386*
				BY176386*	BY176386*
				FT279029	FT279585
BY224940	FT404796	FT405565	FT406579	FTC12869	Y279618
FGC12948*	FGC12948*	FGC12948*	FGC12948*	FGC12948*	FGC12948*
ZS9500	FT128596*	FT128596*	FT128596*	FT128596*	FT128596*
	FT128596*	FT128596*	FT128596*	FT128596*	FT128596*
BY142282*	BY142282*	BY142282*	BY142282*	BY142282*	BY142282*
BY142282*	BY142282*	BY142282*	BY142282*	BY142282*	BY142282*
BY142282*	BY142282*	BY142282*	BY142282*	BY142282*	BY142282*
FGC12950*	FGC12950*	FGC12950*	FGC12950*	FGC12950*	FGC12950*
FGC12950*	FGC12950*	FGC12950*	FGC12950*	FGC12950*	FGC12950*
FGC12950*	FGC12950*	FGC12950*	FGC12950*	FGC12950*	FGC12950*
BY185803*	BY185803*	BY185803*	BY185803*	BY185803*	BY185803*
FT238332	FT239236	FT240360	FT240516	FT240909	BY184690*
					BY184690*
					BY184690*
					BY184690*
FGC12936*	FGC12936*	FGC12936*	FGC12936*	FGC12936*	FGC12936*
FTB38596*	FTB38596*	FTB38596*	FTB38596*	FTB38596*	FTB38596*

BY115261	FT374841	Y67496	Y79997		BY115261*
				Y68816	FT88309
A2182*	A2182*	A2182*	A2182*	A2182*	A2182*
A2182*	A2182*	A2182*	A2182*	A2182*	A2182*
A2182*	A2182*	A2182*	A2182*	A2182*	A2182*
FTB58570	FTB68348	FTB58616	FTB68419	FTB57554*	FTB57554*
				FTB57554*	FTB57554*
FT246503*	FT246503*	FT246503*	FT246503*	FT246503*	FT246503*
FT246463	FT247327	FT262203	FTA16699	Z23953	FT245651*
					FT245651*
BY76114*	BY76114*	BY76114*	BY76114*	BY76114*	BY76114*
BY76114*	BY76114*	BY76114*	BY76114*	BY76114*	BY76114*
			BY177873*	BY177873*	BY177873*
			BY177873*	BY177873*	BY177873*
FT63963	FT93821	MF139766	FT365268*	FT365268*	FT365268*
			FT365268*	FT365268*	FT365268*
A725*	A725*	A725*	A725*	A725*	A725*
A725*	A725*	A725*	A725*	A725*	A725*
A725*	A725*	A725*	A725*	A725*	A725*
A725*	A725*	A725*	A725*	A725*	A725*
A725*	A725*	A725*	A725*	A725*	A725*
A725*	A725*	A725*	A725*	A725*	A725*
FT371931	FT372206	FT372484	FT372757	FT372784	FTA91081
FT9401*	FT9401*	FT9401*	FT9401*	FT9401*	FT9401*
FTB12040	FTB16466	FTA56478*	FTA56478*	FTA56478*	FTA56478*
		FTA56478*	FTA56478*	FTA56478*	FTA56478*
FT197786	FTA61508	FTA72284	FTA72490	FTA77917	FTA86206
			BY21224*	BY21224*	BY21224*
Y36301	BY21225*	BY21225*	BY21225*	BY21225*	BY21225*
		BY35287			
			Y36299	Y36299*	Y36299*
				Y36299*	Y36299*
FT97862*	FT97862*	FT97862*	FT97862*	FT97862*	FT97862*
FT97862*	FT97862*	FT97862*	FT97862*	FT97862*	FT97862*
FT253461*	FT253461*	FT253461*	FT253461*	FT253461*	FT253461*
FT253461*	FT253461*	FT253461*	FT253461*	FT253461*	FT253461*
Y92086*	Y92086*	Y92086*	Y92086*	Y92086*	Y92086*
Y92086*	Y92086*	Y92086*	Y92086*	Y92086*	Y92086*
Y92086*	Y92086*	Y92086*	Y92086*	Y92086*	Y92086*
FT226171*	FT226171*	FT226171*	FT226171*	FT226171*	FT226171*

FT58123	<i>FT164503*</i>	<i>FT164503*</i>	<i>FT164503*</i>	<i>FT164503*</i>	<i>FT164503*</i>
	<i>FT164503*</i>	<i>FT164503*</i>	<i>FT164503*</i>	<i>FT164503*</i>	<i>FT164503*</i>
FT445606		<i>FT445606*</i>	<i>FT445606*</i>	<i>FT445606*</i>	<i>FT445606*</i>
	BY75690	<i>BY75690*</i>	<i>BY75690*</i>	<i>BY75690*</i>	<i>BY75690*</i>
		<i>BY75690*</i>	<i>BY75690*</i>	<i>BY75690*</i>	<i>BY75690*</i>
FT210920	FT21600	FT268393			
			FT210089	FT210725	FT268394
<i>BY158231*</i>	<i>BY158231*</i>	<i>BY158231*</i>	<i>BY158231*</i>	<i>BY158231*</i>	<i>BY158231*</i>
<i>BY158231*</i>	<i>BY158231*</i>	<i>BY158231*</i>	<i>BY158231*</i>	<i>BY158231*</i>	<i>BY158231*</i>
<i>BY158231*</i>	<i>BY158231*</i>	<i>BY158231*</i>	<i>BY158231*</i>	<i>BY158231*</i>	<i>BY158231*</i>
Y165499	<i>FTA91796*</i>	<i>FTA91796*</i>	<i>FTA91796*</i>	<i>FTA91796*</i>	<i>FTA91796*</i>
	<i>FTA91796*</i>	<i>FTA91796*</i>	<i>FTA91796*</i>	<i>FTA91796*</i>	<i>FTA91796*</i>
S679*	S679*	S679*	S679*	S679*	S679*
S679*	S679*	S679*	S679*	S679*	S679*
FT170935	FT281319	FT8111	<i>FT168987*</i>	<i>FT168987*</i>	<i>FT168987*</i>
			<i>FT168987*</i>	<i>FT168987*</i>	<i>FT168987*</i>
<i>BY189805*</i>	<i>BY189805*</i>	<i>BY189805*</i>	<i>BY189805*</i>	<i>BY189805*</i>	<i>BY189805*</i>
<i>BY189805*</i>	<i>BY189805*</i>	<i>BY189805*</i>	<i>BY189805*</i>	<i>BY189805*</i>	<i>BY189805*</i>
BY191972	BY201450	BY201878	FT193908	FT406972	FT407131
				<i>BY18039*</i>	<i>BY18039*</i>
FT9225				BY196443	<i>BY196443*</i>
					<i>BY196443*</i>
					<i>BY196443*</i>
				BY188479	BY192033
	BY110104	BY94398	FT58989	BY65795	<i>BY65795*</i>
					<i>BY65795*</i>
					<i>BY65795*</i>
					<i>BY65795*</i>
					<i>BY65795*</i>
	<i>FGC42651*</i>	<i>FGC42651*</i>	<i>FGC42651*</i>	<i>FGC42651*</i>	<i>FGC42651*</i>
<i>FGC42645*</i>	<i>FGC42645*</i>	<i>FGC42645*</i>	<i>FGC42645*</i>	<i>FGC42645*</i>	<i>FGC42645*</i>
FGC42643	FGC42644	FGC42647	<i>FGC42641*</i>	<i>FGC42641*</i>	<i>FGC42641*</i>
			<i>FGC42641*</i>	<i>FGC42641*</i>	<i>FGC42641*</i>
				FGC42653	FGC42648
	BY35286	A18247	A18249	A18250	A18251

<i>FGC40940*</i>	<i>FGC40940*</i>	<i>FGC40940*</i>	<i>FGC40940*</i>	<i>FGC40940*</i>	<i>FGC40940*</i>
<i>FGC40947*</i>	<i>FGC40947*</i>	<i>FGC40947*</i>	<i>FGC40947*</i>	<i>FGC40947*</i>	<i>FGC40947*</i>
<i>FGC40947*</i>	<i>FGC40947*</i>	<i>FGC40947*</i>	<i>FGC40947*</i>	<i>FGC40947*</i>	<i>FGC40947*</i>
FGC75738	<i>FGC40949*</i>	<i>FGC40949*</i>	<i>FGC40949*</i>	<i>FGC40949*</i>	<i>FGC40949*</i>
	<i>FGC40949*</i>	<i>FGC40949*</i>	<i>FGC40949*</i>	<i>FGC40949*</i>	<i>FGC40949*</i>
	<i>FGC40949*</i>	<i>FGC40949*</i>	<i>FGC40949*</i>	<i>FGC40949*</i>	<i>FGC40949*</i>
	<i>FGC40949*</i>	<i>FGC40949*</i>	<i>FGC40949*</i>	<i>FGC40949*</i>	<i>FGC40949*</i>
		BY35291	BY35293	FTB59400	FTB59401
				<i>A11360*</i>	<i>A11360*</i>
				<i>A11360*</i>	<i>A11360*</i>
BY77424	FT446158	FT73957	FT80396	FT80818	Y152654
BY21249	BY21250	BY21251	BY21252	FGC67593	<i>BY21246*</i>
					<i>BY21246*</i>
		<i>FT445853*</i>	<i>FT445853*</i>	<i>FT445853*</i>	<i>FT445853*</i>
<i>FT123736*</i>	<i>FT123736*</i>	<i>FT123736*</i>	<i>FT123736*</i>	<i>FT123736*</i>	<i>FT123736*</i>
FT123610	Y85695	<i>FT124490*</i>	<i>FT124490*</i>	<i>FT124490*</i>	<i>FT124490*</i>
		<i>FT124490*</i>	<i>FT124490*</i>	<i>FT124490*</i>	<i>FT124490*</i>
		<i>FT124490*</i>	<i>FT124490*</i>	<i>FT124490*</i>	<i>FT124490*</i>
<i>BY21223*</i>	<i>BY21223*</i>	<i>BY21223*</i>	<i>BY21223*</i>	<i>BY21223*</i>	<i>BY21223*</i>
<i>BY21223*</i>	<i>BY21223*</i>	<i>BY21223*</i>	<i>BY21223*</i>	<i>BY21223*</i>	<i>BY21223*</i>
<i>A2299*</i>	<i>A2299*</i>	<i>A2299*</i>	<i>A2299*</i>	<i>A2299*</i>	<i>A2299*</i>
<i>FGC57853*</i>	<i>FGC57853*</i>	<i>FGC57853*</i>	<i>FGC57853*</i>	<i>FGC57853*</i>	<i>FGC57853*</i>
<i>FGC57856*</i>	<i>FGC57856*</i>	<i>FGC57856*</i>	<i>FGC57856*</i>	<i>FGC57856*</i>	<i>FGC57856*</i>
			FTC23978	FTC36175	<i>FTC23978*</i>
					<i>FTC23978*</i>
					<i>FTC23978*</i>
<i>FGC57859*</i>	<i>FGC57859*</i>	<i>FGC57859*</i>	<i>FGC57859*</i>	<i>FGC57859*</i>	<i>FGC57859*</i>
FTB1721	FT274034	FTA95043	FTA95397	FTA96223	<i>FTB1721*</i>
					<i>FTB1721*</i>
BY138276	<i>BY138276*</i>	<i>BY138276*</i>	<i>BY138276*</i>	<i>BY138276*</i>	<i>BY138276*</i>
	<i>BY138276*</i>	<i>BY138276*</i>	<i>BY138276*</i>	<i>BY138276*</i>	<i>BY138276*</i>
<i>BY42598*</i>	<i>BY42598*</i>	<i>BY42598*</i>	<i>BY42598*</i>	<i>BY42598*</i>	<i>BY42598*</i>
FTC32992	Y134361	<i>BY69705*</i>	<i>BY69705*</i>	<i>BY69705*</i>	<i>BY69705*</i>
		<i>BY69705*</i>	<i>BY69705*</i>	<i>BY69705*</i>	<i>BY69705*</i>
<i>BY191013*</i>	<i>BY191013*</i>	<i>BY191013*</i>	<i>BY191013*</i>	<i>BY191013*</i>	<i>BY191013*</i>
Y35225	Y58681	Y60550	Y85524	<i>FT422200*</i>	<i>FT422200*</i>
				<i>FT422200*</i>	<i>FT422200*</i>
<i>BY42778*</i>	<i>BY42778*</i>	<i>BY42778*</i>	<i>BY42778*</i>	<i>BY42778*</i>	<i>BY42778*</i>
<i>BY42778*</i>	<i>BY42778*</i>	<i>BY42778*</i>	<i>BY42778*</i>	<i>BY42778*</i>	<i>BY42778*</i>
<i>BY42778*</i>	<i>BY42778*</i>	<i>BY42778*</i>	<i>BY42778*</i>	<i>BY42778*</i>	<i>BY42778*</i>
<i>FGC79580*</i>	<i>FGC79580*</i>	<i>FGC79580*</i>	<i>FGC79580*</i>	<i>FGC79580*</i>	<i>FGC79580*</i>
<i>FGC79579*</i>	<i>FGC79579*</i>	<i>FGC79567*</i>	<i>FGC79567*</i>	<i>FGC79567*</i>	<i>FGC79567*</i>

<i>FGC79570</i>	<i>FGC79502</i>	<i>FGC79567*</i>	<i>FGC79567*</i>	<i>FGC79567*</i>	<i>FGC79567*</i>
<i>DF104*</i>	<i>DF104*</i>	<i>DF104*</i>	<i>DF104*</i>	<i>DF104*</i>	<i>DF104*</i>
<i>FT14462*</i>	<i>FT14462*</i>	<i>FT14462*</i>	<i>FT14462*</i>	<i>FT14462*</i>	<i>FT14462*</i>
		<i>FTA36430*</i>	<i>FTA36430*</i>	<i>FTA36430*</i>	<i>FTA36430*</i>
<i>FTA42408</i>	<i>FTA42693</i>	<i>FTA43104</i>	<i>FTA43157</i>	<i>FTA36299*</i>	<i>FTA36299*</i>
				<i>FTA36299*</i>	<i>FTA36299*</i>
<i>FT19149*</i>	<i>FT19149*</i>	<i>FT19149*</i>	<i>FT19149*</i>	<i>FT19149*</i>	<i>FT19149*</i>
<i>FT19149*</i>	<i>FT19149*</i>	<i>FT19149*</i>	<i>FT19149*</i>	<i>FT19149*</i>	<i>FT19149*</i>
<i>PH5277*</i>	<i>PH5277*</i>	<i>PH5277*</i>	<i>PH5277*</i>	<i>PH5277*</i>	<i>PH5277*</i>
<i>PH5277*</i>	<i>PH5277*</i>	<i>PH5277*</i>	<i>PH5277*</i>	<i>PH5277*</i>	<i>PH5277*</i>
<i>FT24460</i>	<i>FT25608</i>	<i>FT26096</i>		<i>FT404865</i>	<i>FT404865*</i>
			<i>FT19679</i>	<i>FT24874</i>	<i>FT404865*</i>
					<i>FT19679*</i>
					<i>FT19679*</i>
<i>FT103005</i>	<i>FT103356</i>	<i>FT103363</i>	<i>FTA95138</i>	<i>BY64330*</i>	<i>BY64330*</i>
				<i>BY64330*</i>	<i>BY64330*</i>
				<i>BY64330*</i>	<i>BY64330*</i>
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<i>FGC49506</i>	<i>FGC49507</i>	<i>FGC49504*</i>	<i>FGC49504*</i>	<i>FGC49504*</i>	<i>FGC49504*</i>
		<i>FGC49504*</i>	<i>FGC49504*</i>	<i>FGC49504*</i>	<i>FGC49504*</i>
<i>BY33236*</i>	<i>BY33236*</i>	<i>BY33236*</i>	<i>BY33236*</i>	<i>BY33236*</i>	<i>BY33236*</i>
<i>BY122668*</i>	<i>BY122668*</i>	<i>BY122668*</i>	<i>BY122668*</i>	<i>BY122668*</i>	<i>BY122668*</i>
		<i>BY121169*</i>	<i>BY121169*</i>	<i>BY121169*</i>	<i>BY121169*</i>
<i>FT425085</i>	<i>MF53827</i>	<i>FTA79453</i>	<i>FTA79453*</i>	<i>FTA79453*</i>	<i>FTA79453*</i>
			<i>FTA79453*</i>	<i>FTA79453*</i>	<i>FTA79453*</i>
			<i>FTA79453*</i>	<i>FTA79453*</i>	<i>FTA79453*</i>
<i>BY33237*</i>	<i>BY33237*</i>	<i>BY33237*</i>	<i>BY33237*</i>	<i>BY33237*</i>	<i>BY33237*</i>
<i>BY50910</i>	<i>BY50911</i>	<i>FT233199</i>	<i>FT425871</i>	<i>Z45683</i>	<i>Z45913</i>
<i>FTA76810</i>	<i>FTA77077</i>	<i>FTB8537</i>	<i>FTA73384*</i>	<i>FTA73384*</i>	<i>FTA73384*</i>
			<i>FTA73384*</i>	<i>FTA73384*</i>	<i>FTA73384*</i>
				<i>A10656*</i>	<i>A10656*</i>
		<i>FT398514*</i>	<i>FT398514*</i>	<i>FT398514*</i>	<i>FT398514*</i>
<i>FT397038*</i>	<i>FT397038*</i>	<i>FT397038*</i>	<i>FT397038*</i>	<i>FT397038*</i>	<i>FT397038*</i>
<i>FT397038*</i>	<i>FT397038*</i>	<i>FT397038*</i>	<i>FT397038*</i>	<i>FT397038*</i>	<i>FT397038*</i>
<i>FGC46519</i>	<i>FTA1401</i>	<i>FTA1578</i>	<i>FTA1622</i>	<i>FTA1668</i>	<i>FTA2795</i>
<i>DF85*</i>	<i>DF85*</i>	<i>DF85*</i>	<i>DF85*</i>	<i>DF85*</i>	<i>DF85*</i>
<i>DF85*</i>	<i>DF85*</i>	<i>DF85*</i>	<i>DF85*</i>	<i>DF85*</i>	<i>DF85*</i>
<i>DF85*</i>	<i>DF85*</i>	<i>DF85*</i>	<i>DF85*</i>	<i>DF85*</i>	<i>DF85*</i>
<i>DF85*</i>	<i>DF85*</i>	<i>DF85*</i>	<i>DF85*</i>	<i>DF85*</i>	<i>DF85*</i>
<i>DV171100</i>	<i>DV171671</i>	<i>DV77507</i>	<i>BY169535*</i>	<i>BY169535*</i>	<i>BY169535*</i>

DT171409	DT171071	DT17307	BY169535*	BY169535*	BY169535*
BY48891	FGC28352	FGC80912	BY25893*	BY25893*	BY25893*
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FTA4800*	FTA4800*	FTA4800*	FTA4800*	FTA4800*	FTA4800*
FTA4800*	FTA4800*	FTA4800*	FTA4800*	FTA4800*	FTA4800*
CTS8580*	CTS8580*	CTS8580*	CTS8580*	CTS8580*	CTS8580*
BY35723*	BY35723*	BY35723*	BY35723*	BY35723*	BY35723*
MF28151	MF75134	ZS864	FT367724*	FT367724*	FT367724*
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BY102981*	BY102981*	BY102981*	BY102981*	BY102981*	BY102981*
FT148768*	FT148768*	FT148768*	FT148768*	FT148768*	FT148768*
FT148768*	FT148768*	FT148768*	FT148768*	FT148768*	FT148768*
BY68177*	BY68177*	BY68177*	BY68177*	BY68177*	BY68177*
			FT91182*	FT91182*	FT91182*
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FT191321	FT194235	FT194424	Y58289	FT191321*	FT191321*
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BY18325*	BY18325*	BY18325*	BY18325*	BY18325*	BY18325*
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A15496	A15498	A15491	A15494	A15497	FT258147
A19675	A19676	A19679	A19680	FT405828	A19677
FT28387	FGC57908*	FGC57908*	FGC57908*	FGC57908*	FGC57908*
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FT390895*	FT390895*	FT390895*	FT390895*	FT390895*	FT390895*
FT188135	FT188170	FT188752	FT189244	FT390909	FT390910
BY2667*	BY2667*	BY2667*	BY2667*	BY2667*	BY2667*
				BY2728*	BY2728*
BY2698	BY2700	BY2708	FT90199	BY2698*	BY2698*
				BY2698*	BY2698*
				BY2702	FT73421
		BY21214*	BY21214*	BY21214*	BY21214*
		BY21214*	BY21214*	BY21214*	BY21214*

	Y8251*	Y8251*	Y8251*	Y8251*	Y8251*
FTB53921	MF91331	FTB43979*	FTB43979*	FTB43979*	FTB43979*
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FGC71316*	FGC71316*	FGC71316*	FGC71316*	FGC71316*	FGC71316*
FGC71316*	FGC71316*	FGC71316*	FGC71316*	FGC71316*	FGC71316*
FGC71316*	FGC71316*	FGC71316*	FGC71316*	FGC71316*	FGC71316*

FT235981*	FT235981*	FT235981*	FT235981*	FT235981*	FT235981*
FT235981*	FT235981*	FT235981*	FT235981*	FT235981*	FT235981*
Y7082*	Y7082*	Y7082*	Y7082*	Y7082*	Y7082*

FGC12185	FGC12191	Y7085	FGC12183*	FGC12183*	FGC12183*
			FGC12183*	FGC12183*	FGC12183*
MF102					FT81271*
	FT144050	BY127187	BY201517	FGCLR1036	FT144050*
					FT144050*
	FGC35551*	FGC35551*	FGC35551*	FGC35551*	FGC35551*
BY43436	BY85282	FT181419	BY42724*	BY42724*	BY42724*
			BY42724*	BY42724*	BY42724*
	FGC35555	FGC35553	FGC35553*	FGC35553*	FGC35553*
			FGC35553*	FGC35553*	FGC35553*
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BY170664*	BY170664*	BY170664*	BY170664*	BY170664*	BY170664*
BY170664*	BY170664*	BY170664*	BY170664*	BY170664*	BY170664*
BY35718*	BY35718*	BY35718*	BY35718*	BY35718*	BY35718*
BY35718*	BY35718*	BY35718*	BY35718*	BY35718*	BY35718*
BY35720*	BY35720*	BY35720*	BY35720*	BY35720*	BY35720*
	BY35721*	BY35721*	BY35721*	BY35721*	BY35721*

FTA15459	FTA15509	FTA16367	FTA16545	FTA16925	FT96958
Y154693			BY166437*	BY166437*	BY166437*
			BY166437*	BY166437*	BY166437*
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	FT216520	FT217067	FTB39235	FT216520*	FT216520*
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BY112602*	BY112602*	BY112602*	BY112602*	BY112602*	BY112602*
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	BY56799	BY136431
S673*	S673*	S673*

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Y219340	BY102017*	BY102017*	BY102017*	BY102017*	BY102017*
				BY122139	FTA31525
			BY103163*	BY103163*	BY103163*
BY73259	FTB35127	BY73259*	BY73259*	BY73259*	BY73259*
		BY73259*	BY73259*	BY73259*	BY73259*
		BY73259*	BY73259*	BY73259*	BY73259*
FT63156*	FT63156*	FT63156*	FT63156*	FT63156*	FT63156*
	FT63065	FT63537	MF35353	FT63065*	FT63065*
				FT63065*	FT63065*
FT394597*	FT394597*	FT394597*	FT394597*	FT394597*	FT394597*
FT394597*	FT394597*	FT394597*	FT394597*	FT394597*	FT394597*
					FT250979*
					FT250979*
FTB21056	FT251063	FT250880	FT251467	FT251555	FT252120
					F22409*
					F22409*
					F22409*
					F22409*
Y49881	Y54176	Y54666	Y56969	FT43614	FT283922
					BY38588*
					BY38588*
					BY38588*
	FT167776*	FT167776*	FT167776*	FT167776*	FT167776*
FT165559	FT165775	FT165908	FT166844	FT169838	FT169660*
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FT121518	FT122002	FT122883	FT121518*	FT121518*	FT121518*
			FT121518*	FT121518*	FT121518*
FT113946	FT115003				
		FTB29016	FT121975	FT29439	FTB29016*
					FTB29016*
					BY158148
		Y97241	FGC75249	Y97241*	Y97241*
				Y97241*	Y97241*
Y104487*	Y104487*	Y104487*	Y104487*	Y104487*	Y104487*
BY18316	Y104964	Y107222	Y122738	BY18310*	BY18310*
				BY18310*	BY18310*

BY25946*	BY25946*	BY25946*	BY25946*	BY25946*	BY25946*		
FT93918	FT94091	FTA52161	FTA52373	FT94064*	FT94064*		
				FT94064*	FT94064*		
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FT137198*	FT137198*	FT137198*	FT137198*	FT137198*	FT137198*		
FT136246	BY18329*	BY18329*	BY18329*	BY18329*	BY18329*		
	BY18329*	BY18329*	BY18329*	BY18329*	BY18329*		
	FT139745	BY18333	BY25908	BY25925	BY90789	BY18333	
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	FT137773	BY18333	BY25908	BY25925	BY90789	FT137773*	FT137773*
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FT333904*	FT333904*	FT333904*	FT333904*	FT333904*	FT333904*		
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FT342138	FT342310*	FT342310*	FT342310*	FT342310*	FT342310*		
	FT342310*	FT342310*	FT342310*	FT342310*	FT342310*		
FGC32830*	FGC32830*	FGC32830*	FGC32830*	FGC32830*	FGC32830*		
		BY169282*	BY169282*	BY169282*	BY169282*		
BY47752*	BY47752*	BY47752*	BY47752*	BY47752*	BY47752*		
		BY170633	BY171247	MF79138	BY170633*		
					BY170633*		
					FGC49726*		
FGC49724	FGC49728	FGC49730	FT67511	FT67567	FGC49724*		
					FGC49724*		
					BY168456		
		BY50692	BY50692*	BY50692*	BY50692*		
			Y187654	Y187654*	Y187654*	Y187654*	
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FT47343*	FT47343*	FT47343*	FT47343*	FT47343*	FT47343*		
BY185651	BY185942	FT76982	BY184845*	BY184845*	BY184845*		
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BY21233*	BY21233*	BY21233*	BY21233*	BY21233*	BY21233*		
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BY120396	BY132284	BY60807	CTS8144	BY146806*	BY146806*		
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	<i>FGC32825*</i>	<i>FGC32825*</i>	<i>FGC32825*</i>	<i>FGC32825*</i>	<i>FGC32825*</i>
FT361351	FT363996	FT426193	Y272281		
				FT362826	FT362958
		FT440594	FTC86927	MF55422	<i>FT440594*</i>
					<i>FT440594*</i>
FT47844	FT191149	FT47559	Y63064	FTB30319	FTB31218
					FT47969
		<i>FGC32828*</i>	<i>FGC32828*</i>	<i>FGC32828*</i>	<i>FGC32828*</i>
<i>FGC32827*</i>	<i>FGC32827*</i>	<i>FGC32827*</i>	<i>FGC32827*</i>	<i>FGC32827*</i>	<i>FGC32827*</i>
<i>FGC32827*</i>	<i>FGC32827*</i>	<i>FGC32827*</i>	<i>FGC32827*</i>	<i>FGC32827*</i>	<i>FGC32827*</i>
<i>S668*</i>	<i>S668*</i>	<i>S668*</i>	<i>S668*</i>	<i>S668*</i>	<i>S668*</i>
<i>PH4147*</i>	<i>PH4147*</i>	<i>PH4147*</i>	<i>PH4147*</i>	<i>PH4147*</i>	<i>PH4147*</i>
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		<i>BY67594*</i>	<i>BY67594*</i>	<i>BY67594*</i>	<i>BY67594*</i>
FTC5785	FTC5800	FTC5816	FTC8314	FTC8604	<i>FTC5557*</i>
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<i>FT381275*</i>	<i>FT381275*</i>	<i>FT381275*</i>	<i>FT381275*</i>	<i>FT381275*</i>	<i>FT381275*</i>
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BY25933	BY25934	BY25943	FT135535	FT136997	Y89788
			<i>BY171768*</i>	<i>BY171768*</i>	<i>BY171768*</i>
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BY162678	BY162681	FT200341	FT200598	FT201238	FT201722
				<i>BY18346*</i>	<i>BY18346*</i>
				<i>BY18346*</i>	<i>BY18346*</i>
				<i>BY18346*</i>	<i>BY18346*</i>
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	FT438592	BY196727	FT453309	FTB54285	<i>FT438592*</i>
					<i>FT438592*</i>
BY203025	BY203456 > BY203661	BY204504 > FT46219	<i>BY203025*</i>	<i>BY203025*</i>	<i>BY203025*</i>
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			<i>BY203025*</i>	<i>BY203025*</i>	<i>BY203025*</i>

A10680*	A10680*	A10680*	A10680*	A10680*	A10680*
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FT112369	FTB66008	FTB66971			BY18311*
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			FTB66263	FTB67486	FTC46191
BY93206	BY116505	BY133758	FT47477	FT48524	BY93206*
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BY161919*	BY161919*	BY161919*	BY161919*	BY161919*	BY161919*
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BY145857*	BY145857*	BY145857*	BY145857*	BY145857*	BY145857*
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BY18332*	BY18332*	BY18332*	BY18332*	BY18332*	BY18332*
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FT275076	FT275097	FT275269	FT451641	FT273676*	FT273676*
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BY25895	BY25941	FT412074	Y186602	BY25916*	BY25916*
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FT292886*	FT292886*	FT292886*	FT292886*	FT292886*	FT292886*
		BY157703	BY157957	BY157703*	BY157703*
		Y10583*	Y10583*	Y10583*	Y10583*
BY77436	BY92834	FT335652			BY77436*
			BY133129	BY133129*	BY133129*
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BY187945	BY188139	FT296079	FT457601	FT97089	FTA21874
BY141705	BY98296	FT126777	FT127411	BY92554*	BY92554*
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FTB83753	FTB84411	FTB87159	FTC46194	FTC46195	FTB80199*
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			BY25911	FGC3921	FGC40092
BY168440*	BY168440*	BY168440*	BY168440*	BY168440*	BY168440*
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FT266402*	FT266402*	FT266402*	FT266402*	FT266402*	FT266402*
FT266402*	FT266402*	FT266402*	FT266402*	FT266402*	FT266402*
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DF97*	DF97*	DF97*	DF97*	DF97*	DF97*
DF97*	DF97*	DF97*	DF97*	DF97*	DF97*
FT354049	FT354050	FT94310	BY76755*	BY76755*	BY76755*
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FTA3892*	FTA3892*	FTA3892*	FTA3892*	FTA3892*	FTA3892*
		BY21179*	BY21179*	BY21179*	BY21179*
			BY146927*	BY146927*	BY146927*
	FT222136*	FT222136*	FT222136*	FT222136*	FT222136*
	FT222136*	FT222136*	FT222136*	FT222136*	FT222136*
FT405406	FT405465	Y51451	FT405406*	FT405406*	FT405406*
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S674*	S674*	S674*	S674*	S674*	S674*
FGC68163	FGC68164	FTB31289			FGC68163*
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			FGC68166	FGC68166*	FGC68166*
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BY115128	BY155231	Z31871		BY106100*	BY106100*
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BY18256*	BY18256*	BY18256*	BY18256*	BY18256*	BY18256*
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Y111328	Y111821	Y86865	Y90254	Y95029	BY204236
BY178867	BY179105	BY179744	BY179323	FTC83737	BY179323*
					BY179323*
BY3343*	BY3343*	BY3343*	BY3343*	BY3343*	BY3343*
FTA48909	FTA49079	FTC13971	FTA48475*	FTA48475*	FTA48475*
			FTA48475*	FTA48475*	FTA48475*
FGC32990	FGC32992	FGC32993	FT81543	FT82127	BY23663*
					BY23663*
					BY23663*
FT45869	BY157503*	BY157503*	BY157503*	BY157503*	BY157503*
			BY166101	FT45617	BY166191*

			BY166191*	FT143017	BY166191*
			A4697*	A4697*	A4697*
		BY99465	BY211574	FTB17449	BY99465*
					BY99465*
BY98659	BY100442	BY90635	FT120488	FT121082	BY98659*
					BY98659*
FGC49798 > FGC86520	FGC86521 > FGC86522	FT158797 > FT158835	FT161499*	FT161499*	FT161499*
					FGC49800
BY21235*	BY21235*	BY21235*	BY21235*	BY21235*	BY21235*
FTA1267*	FTA1267*	FTA1267*	FTA1267*	FTA1267*	FTA1267*
FTA1267*	FTA1267*	FTA1267*	FTA1267*	FTA1267*	FTA1267*
BY177089	BY177141	FT182457	Y100528	BY176927*	BY176927*
				BY176927*	BY176927*
BY80428	FT221587	Y66665 > Y77496			
			FT221572	FT220839	FT221572*
					FT221572*
			FT76429	FT74434	BY209033
			BY21236	BY21237	BY21238
			FGC68707	Z35402	FGC68707*
					FGC68707*
	FT77538		FT57328*	FT57328*	FT57328*
		FT57328	FT57328*	FT57328*	FT57328*
			BY38377*	BY38377*	BY38377*
BY101658	BY38377*	BY38377*	BY38377*	BY38377*	BY38377*
			BY38375	BY38376	BY38378
BY471*	BY471*	BY471*	BY471*	BY471*	BY471*
FT28864*	FT28864*	FT28864*	FT28864*	FT28864*	FT28864*
				BY168134	BY168183
			(John Campbell b. 1760s, Cecil Co.,	FT69780	FT70328
A15224	BY18269	FT53098		BY18261*	BY18261*
			F17060	BY196663	F17060*
					F17060*
					F17060*
		FGC49692*	FGC49692*	FGC49692*	FGC49692*
		FGC49692*	FGC49692*	FGC49692*	FGC49692*
FT385091*	FT385091*	FT385091*	FT385091*	FT385091*	FT385091*

			Y32988*	Y32988*	Y32988*
	FTB79860	FTB80615	FTB85756		FTB79860*
					FTB79860*
				FTB82287	FTB82287*
					FTB82287*
					FTB82287*
Sir Sean O'Dogharty, c1540	Clan chief line		FTB13470	FTB10639	BY18260
		FT377889	FT378273	FT378742	FT377889*
					MF620329
BY71348	BY106494	BY14209	FTA2187	BY71348*	BY71348*
				BY71348*	BY71348*
Y112144*	Y112144*	Y112144*	Y112144*	Y112144*	Y112144*
		BY18257	BY58071	BY18257*	BY18257*
				BY18257*	BY18257*
BY54598	BY198653	FT27791	FT191129	FT191129*	FT191129*
				FT191129*	FT191129*
				FT191129*	FT191129*
FGC51814	BY18290	FGC51811	FGC51812	FGC51816	FTA2188
	BY18259	FT378906	FT2184	BY18259*	BY18259*
				BY18259*	BY18259*
				BY18259*	BY18259*
				FT377877	FT377877*
					FT377877*
FGC52374.1*	FGC52374.1*	FGC52374.1*	FGC52374.1*	FGC52374.1*	FGC52374.1*
BY51883	FT143268	Y109837		BY51883*	BY51883*
				BY51883*	BY51883*
			FT90441	FT409401	FT90441*
					FT90441*
					FT90441*
					FGC52373*
FGC52373	Y16739	Y126341	FTA2185 (Charles Daugherty, d. 1808)	A24483	A24487
		FGC52368	FGC52369	FGC52370	FGC52371
				BY171706*	BY171706*
				BY171706*	BY171706*

				BY171706*	BY171706*	BY171706*
				BY171706*	BY171706*	BY171706*
				BY171706*	BY171706*	BY171706*
				BY171706*	BY171706*	BY171706*
		FT184045	FT184208	FT184045*	FT184045*	
				FT184045*	FT184045*	
Y132209*	Y132209*	Y132209*	Y132209*	Y132209*	Y132209*	
Y132209*	Y132209*	Y132209*	Y132209*	Y132209*	Y132209*	
						FT258146*
			FT258146			Y137170*
				Y137170		Y137170*
						Y137170*
						Y137170*
						Y137170*
						Y137170*
FGC19851*	FGC19851*	FGC19851*	FGC19851*	FGC19851*	FGC19851*	
FGC8744	FGC8745	FGC8748	FGC8749	FGC8750	FGC8752	
FT172032*	FT172032*	FT172032*	FT172032*	FT172032*	FT172032*	
FT172057	FT414801	FT414802	FT171977*	FT171977*	FT171977*	
			FT171977*	FT171977*	FT171977*	
BY21175	BY21176	BY21177	BY21178	BY41467	FGC39685	
				BY18252*	BY18252*	
FT98671	FT98672	FT98673	BY121337	BY79483	Z17942	
				BY210565	FT181236	
BY147543	BY174719	BY174753	FT450531	FTA3895	BY113621*	
					BY113621*	
			FT3074*	FT3074*	FT3074*	
FT63286	FTB21016	FT63270	FT181088	FT440908	FTB20942	
Z29319*	Z29319*	Z29319*	Z29319*	Z29319*	Z29319*	
Z29319*	Z29319*	Z29319*	Z29319*	Z29319*	Z29319*	
Z29319*	Z29319*	Z29319*	Z29319*	Z29319*	Z29319*	
Z29319*	Z29319*	Z29319*	Z29319*	Z29319*	Z29319*	
BY68520	BY70258	BY73963	FTC48823	BY65078*	BY65078*	
				BY65078*	BY65078*	
FT223539	FT225420	FT225421	FT213133	PH1066*	PH1066*	
				PH1066*	PH1066*	
				FGC41507*	FGC41507*	
FT124408*	FT124408*(X 2)	FT124408*(X 2)	FT124408*(X 2)	FT124408*(X 2)	FT124408*(X 2)	

FGC41513	FGC41515	FT123179	<i>FGC41513*</i>	<i>FGC41513*</i>	<i>FGC41513*</i>
			<i>FGC41513*</i>	<i>FGC41513*</i>	<i>FGC41513*</i>
<i>BY35773*</i>	<i>BY35773*</i>	<i>BY35773*</i>	<i>BY35773*</i>	<i>BY35773*</i>	<i>BY35773*</i>
<i>Y26014*</i>	<i>Y26014*</i>	<i>Y26014*</i>	<i>Y26014*</i>	<i>Y26014*</i>	<i>Y26014*</i>
<i>Y26014*</i>	<i>Y26014*</i>	<i>Y26014*</i>	<i>Y26014*</i>	<i>Y26014*</i>	<i>Y26014*</i>
<i>BY35771*</i>	<i>BY35771*</i>	<i>BY35771*</i>	<i>BY35771*</i>	<i>BY35771*</i>	<i>BY35771*</i>
			<i>BY35772*</i>	<i>BY35772*</i>	<i>BY35772*</i>
			<i>BY35772*</i>	<i>BY35772*</i>	<i>BY35772*</i>
			<i>BY35772*</i>	<i>BY35772*</i>	<i>BY35772*</i>
			BY123034	BY72174	<i>BY123034*</i>
					<i>BY123034*</i>
BY193669 > BY194868	BY195360 > BY196078	FT106774 > FT108412	<i>BY193442*</i>	<i>BY193442*</i>	<i>BY193442*</i>
			<i>BY193442*</i>	<i>BY193442*</i>	<i>BY193442*</i>
<i>CTS8002*</i>	<i>CTS8002*</i>	<i>CTS8002*</i>	<i>CTS8002*</i>	<i>CTS8002*</i>	<i>CTS8002*</i>
Y128441	Y128843	Y130104	<i>BY38841*</i>	<i>BY38841*</i>	<i>BY38841*</i>
			<i>BY38841*</i>	<i>BY38841*</i>	<i>BY38841*</i>
	<i>FT382411*</i>	<i>FT382411*</i>	<i>FT382411*</i>	<i>FT382411*</i>	<i>FT382411*</i>
FT390323	FT430945	FTB15912	Y60409	<i>FT382755*</i>	<i>FT382755*</i>
				<i>FT382755*</i>	<i>FT382755*</i>
					<i>BY64438*</i>
BY61926	FT427672 > FT433767	FT94404 > FTB12764	<i>BY61926*</i>	<i>BY61926*</i>	<i>BY61926*</i>
			<i>BY61926*</i>	<i>BY61926*</i>	<i>BY61926*</i>
	BY76143	BY137929	FTB43688	<i>BY76143*</i>	<i>BY76143*</i>
				<i>BY76143*</i>	<i>BY76143*</i>
BY38578	BY38579	BY38580	FT222446	<i>BY38577*</i>	<i>BY38577*</i>
				<i>BY38577*</i>	<i>BY38577*</i>
				<i>FT91663*</i>	<i>FT91663*</i>
				<i>FT91663*</i>	<i>FT91663*</i>
				<i>FT91663*</i>	<i>FT91663*</i>
BY181255	BY181592	Y150199	<i>BY181255*</i>	<i>BY181255*</i>	<i>BY181255*</i>
			<i>BY181255*</i>	<i>BY181255*</i>	<i>BY181255*</i>
FT50133	<i>FT50133*</i>	<i>FT50133*</i>	<i>FT50133*</i>	<i>FT50133*</i>	<i>FT50133*</i>
	Y128090	Y128904	<i>Y128090*</i>	<i>Y128090*</i>	<i>Y128090*</i>
			<i>Y128090*</i>	<i>Y128090*</i>	<i>Y128090*</i>
		FT50589	FT51343	<i>FT50589*</i>	<i>FT50589*</i>
	<i>FT50589*</i>			<i>FT50589*</i>	
<i>BY21159*(XZ)</i>	<i>BY21159*</i>	<i>BY21159*</i>	<i>BY21159*</i>	<i>BY21159*</i>	<i>BY21159*</i>
		<i>FT47406*</i>	<i>FT47406*</i>	<i>FT47406*</i>	<i>FT47406*</i>
	BY38581	FT47168 > FT47895			

FT47406			BY38584 > BY38585	FT292722 > FT379453	BY38587 > BY61211
	BY38582 > BY38586	FT51045			BY38582*
					BY38582*
			BY117343	FT51704	BY117342*
					BY117342*
				BY38583	
FT7322*	FT7322*	FT7322*	FT7322*	FT7322*	FT7322*
FT12253*	FT12253*	FT12253*	FT12253*	FT12253*	FT12253*
BY172979	BY219535	FT11908	FT12209	FT94093	FT98670
FGC65264*	FGC65264*	FGC65264*	FGC65264*	FGC65264*	FGC65264*
FGC65264*	FGC65264*	FGC65264*	FGC65264*	FGC65264*	FGC65264*
FGC65264*	FGC65264*	FGC65264*	FGC65264*	FGC65264*	FGC65264*
FT8654*	FT8654*	FT8654*	FT8654*	FT8654*	FT8654*
FT8654*	FT8654*	FT8654*	FT8654*	FT8654*	FT8654*
		BY21207*	BY21207*	BY21207*	BY21207*
BY119508	BY97835	FGC5378	FT96019	FT96153	FT97104
BY21213	F18255	FT426183	FT426887		BY21208*
				BY21211	BY49258
FGC19846*	FGC19846*	FGC19846*	FGC19846*	FGC19846*	FGC19846*
FT358012		FT128318*	FT128318*	FT128318*	FT128318*
	FT129397	FT128186	FTA76183		
				FT128687	FT128688
				FT387209 > Y77844	FT387209*
				FT387209*	
FT304576*	FT304576*	FT304576*	FT304576*	FT304576*	FT304576*
FT304576*	FT304576*	FT304576*	FT304576*	FT304576*	FT304576*
FT149930	FT150192	FT150194 > FT150195	FT150229	FT272290	FT144600*
					FT144600*
		BY54736	BY54736*	BY54736*	BY54736*
			BY54736*	BY54736*	BY54736*

BY21195	BY21193		FT221516	BY113174	FT221005	
<i>FGC42106*</i>	<i>FGC42106*</i>	<i>FGC42106*</i>	<i>FGC42106*</i>	<i>FGC42106*</i>	<i>FGC42106*</i>	
FGC42490	FGC42491	<i>FGC42491*</i>	<i>FGC42491*</i>	<i>FGC42491*</i>	<i>FGC42491*</i>	
		FGC42484	FGC42485	FGC42488	FGC42489	
FT136381	FT138150	FT138282	FT140075	<i>FT137382*</i>	<i>FT137382*</i>	
				<i>FT137382*</i>	<i>FT137382*</i>	
				FTC36596	FTC97859	
<i>FT19291*</i>	<i>FT19291*</i>	<i>FT19291*</i>	<i>FT19291*</i>	<i>FT19291*</i>	<i>FT19291*</i>	
			FT19222	<i>FT19222*</i>	<i>FT19222*</i>	
				<i>FT19222*</i>	<i>FT19222*</i>	
		<i>FGC42105*</i>	<i>FGC42105*</i>	<i>FGC42105*</i>	<i>FGC42105*</i>	
		<i>FGC42105*</i>	<i>FGC42105*</i>	<i>FGC42105*</i>	<i>FGC42105*</i>	
		<i>FGC42105*</i>	<i>FGC42105*</i>	<i>FGC42105*</i>	<i>FGC42105*</i>	
BY224429	FT258168		<i>BY56624*</i>	<i>BY56624*</i>	<i>BY56624*</i>	
		BY67722	BY125841 > BY139714	BY59968 > BY94079	FT247000 > FT282956	
Y76138	FTA36129	FTA36402	<i>FTA36402*</i>	<i>FTA36402*</i>	<i>FTA36402*</i>	
			<i>FTA36402*</i>	<i>FTA36402*</i>	<i>FTA36402*</i>	
		FTC38307	BY113687 > FGC1386	FTC38312 > FTC44158	FTC44514 > FTC46199	
FT191138	FT75563	Y312336				
			FT75646	<i>FT75646*</i>	<i>FT75646*</i>	
				<i>FT75646*</i>	<i>FT75646*</i>	
BY204397	BY204535	<i>BY202797*</i>	<i>BY202797*</i>	<i>BY202797*</i>	<i>BY202797*</i>	
		<i>BY202797*</i>	<i>BY202797*</i>	<i>BY202797*</i>	<i>BY202797*</i>	
BY23058	FT86067	FT86081	FT86806	FT98669	<i>BY18295*</i>	
<i>FGC19848*</i>	<i>FGC19848*</i>	<i>FGC19848*</i>	<i>FGC19848*</i>	<i>FGC19848*</i>	<i>FGC19848*</i>	
FT103452	FT244591	FT102660	<i>FT101936*</i>	<i>FT101936*</i>	<i>FT101936*</i>	
					<i>FT102660*</i>	<i>FT102660*</i>
			FT100543	<i>FT100543*</i>	<i>FT100543*</i>	
				<i>FT100543*</i>	<i>FT100543*</i>	
				<i>FT100543*</i>	<i>FT100543*</i>	

		<i>FT111788*</i>	<i>FT111788*</i>	<i>FT111788*</i>	<i>FT111788*</i>
BY23087	BY23096 > BY23097	BY58740	FGC3872	FT109507	FT110076 > FT110371

<i>FTT35*</i>
<i>FTT35*</i>
<i>FTT35*</i>
<i>FTT35*</i>
<i>FTT35*</i>

	FGC30118	FGC30116	FGC30120
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FGC19852	FGC19853	FGC19854	FGC19857	FGC19858	FGC19859
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FGC19842

A1147 > FGC33216	FGC33214 > FGC57788	FGC57790 > FGC57791	FT269028	<i>FT269028*</i>	<i>FT269028*</i>		
				<i>FT269028*</i>	<i>FT269028*</i>		
				<i>FT269028*</i>	<i>FT269028*</i>		
						FGC33215	
			BY75435			<i>BY75435*</i>	<i>BY75435*</i>
						<i>BY75435*</i>	<i>BY75435*</i>

FTA29787	<i>FTA29787*</i>	<i>FTA29787*</i>
	<i>FTA29787*</i>	<i>FTA29787*</i>

FT58940	K100	<i>BY71332*</i>	<i>BY71332*</i>	<i>BY71332*</i>	<i>BY71332*</i>
		<i>BY71332*</i>	<i>BY71332*</i>	<i>BY71332*</i>	<i>BY71332*</i>
		<i>BY38596*</i>	<i>BY38596*</i>	<i>BY38596*</i>	<i>BY38596*</i>
		<i>BY38596*</i>	<i>BY38596*</i>	<i>BY38596*</i>	<i>BY38596*</i>

BY174705	FT123203	Y132758	<i>Y132759*</i>	<i>Y132759*</i>	<i>Y132759*</i>
				<i>Y132756</i>	<i>Y132756*</i>
				<i>Y132756</i>	<i>Y132756*</i>
					<i>BY169953*</i>
					<i>BY169953*</i>

	BY169953			BY171180*	BY171180*
		BY171180	FTA47217		BY170025*
				BY170025	BY170025*
					BY170025*
S588*	S588*	S588*	S588*	S588*	S588*
S588*	S588*	S588*	S588*	S588*	S588*
S588*	S588*	S588*	S588*	S588*	S588*
S588*	S588*	S588*	S588*	S588*	S588*
S588*	S588*	S588*	S588*	S588*	S588*
A5388*	A5388*	A5388*	A5388*	A5388*	A5388*
					BY134836
	FT213315				BY65624*
		BY65624	BY133978	FGC57178	BY65624*
					BY65624*
	FT53248*	FT53248*	FT53248*	FT53248*	FT53248*
	FT53248*	FT53248*	FT53248*	FT53248*	FT53248*
	FT53248*	FT53248*	FT53248*	FT53248*	FT53248*
					BY57166*
					BY57166*
FT283968	FT52368	FT52993	FT54911	FT52889*	FT52889*
				FT52889*	FT52889*
BY89074	BY95509	FT87839 > FT87856	FT88053	Y56074	BY58044
			BY20536*	BY20536*	BY20536*
				BY96491*	BY96491*
				BY96491*	BY96491*
FT165130	FT89403	BY96491	BY42627	BY96491*	BY96491*
	A9883	BY91591	FT230259	FTC70179	Y60045
FT271064	FT271358	FT429783	FTB54283	Y129960	Y93308
BY70810*	BY70810*	BY70810*	BY70810*	BY70810*	BY70810*
		BY18207	BY82462	FT450284	Y52157
FTA07706	FTA07924	ME105551	Y00000	FTA10274*	FTA10274*

FTA97790	FTA97624	MF105551	199900	FTA10274*	FTA10274*
FT187328*	FT187328*	FT187328*	FT187328*	FT187328*	FT187328*
		BY153015	BY154351	BY154371	FT183941
BY119880*	BY119880*	BY119880*	BY119880*	BY119880*	BY119880*
BY119880*	BY119880*	BY119880*	BY119880*	BY119880*	BY119880*
FT335635*	FT335635*	FT335635*	FT335635*	FT335635*	FT335635*
			FTB49930	BY51777	FTB49930*
					FTB49930*
FT92296*	FT92296*	FT92296*	FT92296*	FT92296*	FT92296*
BY123965*	BY123965*	BY123965*	BY123965*	BY123965*	BY123965*
BY123965*	BY123965*	BY123965*	BY123965*	BY123965*	BY123965*
BY194927	BY196732	FT125940	FT126408	FT127237	FT127633
BY154268*	BY154268*	BY154268*	BY154268*	BY154268*	BY154268*
FTC11828	FT145926*	FT145926*	FT145926*	FT145926*	FT145926*
	FT145926*	FT145926*	FT145926*	FT145926*	FT145926*
BY66082*	BY66082*	BY66082*	BY66082*	BY66082*	BY66082*
BY71187	FTB16945	FTB16954	BY71187*	BY71187*	BY71187*
			BY71187*	BY71187*	BY71187*
			BY71187*	BY71187*	BY71187*
BY18198*	BY18198*	BY18198*	BY18198*	BY18198*	BY18198*

BY64471	BY113184	BY115487	BY117613	BY212397	BY64471*
					BY64471*
BY20527*	BY20527*	BY20527*	BY20527*	BY20527*	BY20527*
		BY20526	BY20529	BY20532	BY20526*
					BY20526*
		BY50713*	BY50713*	BY50713*	BY50713*
FTC26570*	FTC26570*	FTC26570*	FTC26570*	FTC26570*	FTC26570*
FTC26570*	FTC26570*	FTC26570*	FTC26570*	FTC26570*	FTC26570*
BY50759*	BY50759*	BY50759*	BY50759*	BY50759*	BY50759*
			BY134633	BY134633*	BY134633*
				BY134633*	BY134633*
			FT258154*	FT258154*	FT258154*
			FT258154*	FT258154*	FT258154*
				BY142277	BY64963

BY220256	FT95569	FT96233	FTC20488		
				FT95246	BY210191
	BY76660*	BY76660*	BY76660*	BY76660*	BY76660*
	BY76660*	BY76660*	BY76660*	BY76660*	BY76660*

Y45472	BY76660*	BY76660*	BY76660*	BY76660*	BY76660*
	BY76660*	BY76660*	BY76660*	BY76660*	BY76660*
	FTA92801	FT13928	FT14119	FT14120	FTB14243
FT165097*	FT165097*	FT165097*	FT165097*	FT165097*	FT165097*
FT165097*	FT165097*	FT165097*	FT165097*	FT165097*	FT165097*
S7049*	S7049*	S7049*	S7049*	S7049*	S7049*
FGC64966*	FGC64966*	FGC64966*	FGC64966*	FGC64966*	FGC64966*
Z25507	FTB63624	FTC11827	FTB63624*	FTB63624*	FTB63624*
			FTB63624*	FTB63624*	FTB63624*
			BY94024	FGC65803	FGC65805
BY88938	FT135792*	FT135792*	FT135792*	FT135792*	FT135792*
	FT135792*	FT135792*	FT135792*	FT135792*	FT135792*
	FT135792*	FT135792*	FT135792*	FT135792*	FT135792*
	BY57627	FT165099	BY57627*	BY57627*	BY57627*
			BY57627*	BY57627*	BY57627*
			BY57627*	BY57627*	BY57627*
BY13681*	BY13681*	BY13681*	BY13681*	BY13681*	BY13681*
				BY13684*	BY13684*
FT93965*	FT93965*	FT93965*	FT93965*	FT93965*	FT93965*

FT123515*	FT123515*	FT123515*	FT123515*	FT123515*	FT123515*
FT123515*	FT123515*	FT123515*	FT123515*	FT123515*	FT123515*
			FGC57048	FGC57041	FT93850
				BY128524	BY136235

FGC30689	FGC30693	FGC30695	FT247443	FT258176	FGC30692*
					FGC30692*
FTB3121	FTB3119	FTB3575	FTB3121*	FTB3121*	FTB3121*
			FTB3121*	FTB3121*	FTB3121*
FT172824	FT175329	FT431468	FT177237*	FT177237*	FT177237*
			FT177237*	FT177237*	FT177237*
A10531*	A10531*	A10531*	A10531*	A10531*	A10531*
FTB53888*	FTB53888*	FTB53888*	FTB53888*	FTB53888*	FTB53888*
	FT89134	BY157044	FT89602	FT89134*	FT89134*
				BY137051	BY137051*
					BY137051*
S7814*	S7814*	S7814*	S7814*	S7814*	S7814*
S7814*	S7814*	S7814*	S7814*	S7814*	S7814*
S7814*	S7814*	S7814*	S7814*	S7814*	S7814*

FT257514	FT257594	FT257625	FT430800	FTA77118	<i>FT257357*</i>
					<i>FT257357*</i>
	<i>BY112462*</i>	<i>BY112462*</i>	<i>BY112462*</i>	<i>BY112462*</i>	<i>BY112462*</i>
			<i>BY67406*</i>	<i>BY67406*</i>	<i>BY67406*</i>
FT188231	FTA70588	<i>FT189337*</i>	<i>FT189337*</i>	<i>FT189337*</i>	<i>FT189337*</i>
		<i>FT189337*</i>	<i>FT189337*</i>	<i>FT189337*</i>	<i>FT189337*</i>
<i>FT191235*</i>	<i>FT191235*</i>	<i>FT191235*</i>	<i>FT191235*</i>	<i>FT191235*</i>	<i>FT191235*</i>
<i>FT191235*</i>	<i>FT191235*</i>	<i>FT191235*</i>	<i>FT191235*</i>	<i>FT191235*</i>	<i>FT191235*</i>
		<i>FGC51765*</i>	<i>FGC51765*</i>	<i>FGC51765*</i>	<i>FGC51765*</i>
FT92143			BY80837	BY149488	FT48987
	FGC51764	FGC81231			<i>FGC51764*</i>
					<i>FGC51764*</i>
					<i>FGC51764*</i>
					<i>FGC51764*</i>
					FT117376
				FT201818	FT202034
			FT81591	<i>FT81591*</i>	<i>FT81591*</i>
				<i>FT81591*</i>	<i>FT81591*</i>
	BY20503	YFS538053	<i>BY20497*</i>	<i>BY20497*</i>	<i>BY20497*</i>
		<i>BY20497*</i>	<i>BY20497*</i>	<i>BY20497*</i>	<i>BY20497*</i>
Y69091	Y74066	Y79900	<i>BY18197*</i>	<i>BY18197*</i>	<i>BY18197*</i>
			<i>BY18197*</i>	<i>BY18197*</i>	<i>BY18197*</i>
			<i>BY18197*</i>	<i>BY18197*</i>	<i>BY18197*</i>
<i>FT71959*</i>	<i>FT71959*</i>	<i>FT71959*</i>	<i>FT71959*</i>	<i>FT71959*</i>	<i>FT71959*</i>
FT72034	FT72706	<i>FT71844*</i>	<i>FT71844*</i>	<i>FT71844*</i>	<i>FT71844*</i>
			FT72054	BY199896	FT72255
FTA75457	FTA75716	FTA76357	FTA86528	FTA86555	<i>FTA76566*</i>
					FTA73938
FGC33953 > FGC33954	FT47043 > FT47044	FGC33956 > MF175458		BY152843	BY155670
			A2307	FGC33955	FT114597
			<i>PF2028*</i>	<i>PF2028*</i>	<i>PF2028*</i>
			<i>PF2028*</i>	<i>PF2028*</i>	<i>PF2028*</i>
FT260645	FT260768	FT261010	FT261412	FT262426	FT459186
	<i>FGC75642*</i>	<i>FGC75642*</i>	<i>FGC75642*</i>	<i>FGC75642*</i>	<i>FGC75642*</i>

	<i>FGC75642*</i>	<i>FGC75642*</i>	<i>FGC75642*</i>	<i>FGC75642*</i>	<i>FGC75642*</i>
		FTB85370	<i>FTB85370*</i>	<i>FTB85370*</i>	<i>FTB85370*</i>
			<i>FTB85370*</i>	<i>FTB85370*</i>	<i>FTB85370*</i>
				<i>FT95410*</i>	<i>FT95410*</i>
				<i>FT95410*</i>	<i>FT95410*</i>
BY199614	FGC7822	<i>BY201250*</i>	<i>BY201250*</i>	<i>BY201250*</i>	<i>BY201250*</i>
		<i>BY201250*</i>	<i>BY201250*</i>	<i>BY201250*</i>	<i>BY201250*</i>
FT360851	FT359612	FT455045	<i>FT360851*</i>	<i>FT360851*</i>	<i>FT360851*</i>
			<i>FT360851*</i>	<i>FT360851*</i>	<i>FT360851*</i>
			BY18237	<i>BY18237*</i>	<i>BY18237*</i>
				<i>BY18237*</i>	<i>BY18237*</i>
<i>F12365*</i>	<i>F12365*</i>	<i>F12365*</i>	<i>F12365*</i>	<i>F12365*</i>	<i>F12365*</i>
		BY11570	<i>BY11570*</i>	<i>BY11570*</i>	<i>BY11570*</i>
			<i>BY11570*</i>	<i>BY11570*</i>	<i>BY11570*</i>
V1786	<i>BY18239*</i>	<i>BY18239*</i>	<i>BY18239*</i>	<i>BY18239*</i>	<i>BY18239*</i>
	<i>BY18239*</i>	<i>BY18239*</i>	<i>BY18239*</i>	<i>BY18239*</i>	<i>BY18239*</i>
A11541	A11542	A11544	FT118099	<i>FT116695*</i>	<i>FT116695*</i>
				<i>FT116695*</i>	<i>FT116695*</i>
			<i>BY4140*</i>	<i>BY4140*</i>	<i>BY4140*</i>
			<i>BY4140*</i>	<i>BY4140*</i>	<i>BY4140*</i>
FT200595	FT200768	FT200820	FT200988	FT213950	Y146669
BY54966	BY144998	FTA32319	<i>BY54966*</i>	<i>BY54966*</i>	<i>BY54966*</i>
			BY18215	FTA31739	<i>BY18215*</i>
					<i>BY18215*</i>
FT101445			<i>FT101445*</i>	<i>FT101445*</i>	<i>FT101445*</i>
	BY198131	BY214025	FT49335	FT50573	<i>BY198131*</i>
					<i>BY198131*</i>
					<i>BY198131*</i>
FT62444	FT62847	FT62958	FT63023	FT63074	FT63370
				FT381714	<i>FT381714*</i>
		BY121797	FT238845 > FT239304		<i>FT381714*</i>
BY20513	BY68646 > BY82301				<i>BY68646*</i>
					<i>BY68646*</i>
				BY18214	BY140967

					BY20513*
					BY20513*
					BY20513*
	FT168149	FT170293	FT168149*	FT168149*	FT168149*
			FT168149*	FT168149*	FT168149*
			BY20512*	BY20512*	BY20512*
			BY20507*	BY20507*	BY20507*
S603*	S603*	S603*	S603*	S603*	S603*
			Y101940*	Y101940*	Y101940*
Y81784	Y92178	Y95133	FT94703*	FT94703*	FT94703*
			FT94703*	FT94703*	FT94703*
				FGC4113*	FGC4113*
FGC34066	BY55627	FGC34067	FGC34066*	FGC34066*	FGC34066*
			FGC34066*	FGC34066*	FGC34066*
FGC7929*	FGC7929*	FGC7929*	FGC7929*	FGC7929*	FGC7929*
FGC7929*	FGC7929*	FGC7929*	FGC7929*	FGC7929*	FGC7929*
FT135247*	FT135247*	FT135247*	FT135247*	FT135247*	FT135247*
FT135247*	FT135247*	FT135247*	FT135247*	FT135247*	FT135247*
Y290209	FT131975*	FT131975*	FT131975*	FT131975*	FT131975*
	FT131975*	FT131975*	FT131975*	FT131975*	FT131975*
			BY196235*	BY196235*	BY196235*
FT190880	BY196286	FT190466	Y194046	FT190880*	FT190880*
				FT190880*	FT190880*
FGC16740*	FGC16740*	FGC16740*	FGC16740*	FGC16740*	FGC16740*
FGC16740*	FGC16740*	FGC16740*	FGC16740*	FGC16740*	FGC16740*
FGC16740*	FGC16740*	FGC16740*	FGC16740*	FGC16740*	FGC16740*
BY62083*	BY62083*	BY62083*	BY62083*	BY62083*	BY62083*
FT233585*	FT233585*	FT233585*	FT233585*	FT233585*	FT233585*
			BY104994*	BY104994*	BY104994*
			BY104994*	BY104994*	BY104994*
FGC1716	FTA36735	FTA36849	FTA52636	FTA36796*	FTA36796*
				FTA36796*	FTA36796*
	Y40047*	Y40047*	Y40047*	Y40047*	Y40047*
FGC16737*	FGC16737*	FGC16737*	FGC16737*	FGC16737*	FGC16737*
			BY46558	BY46558*	BY46558*
				BY46558*	BY46558*
FT305875*	FT305875*	FT305875*	FT305875*	FT305875*	FT305875*
FTC87979	FTB58833*	FTB58833*	FTB58833*	FTB58833*	FTB58833*
	FTB58833*	FTB58833*	FTB58833*	FTB58833*	FTB58833*
FTA28844	FTA28555	FTA34280	FTA28844*	FTA28844*	FTA28844*
			FTA28844*	FTA28844*	FTA28844*
FT380062	FT381245	MF20275	FTA8453*	FTA8453*	FTA8453*
			FTA8453*	FTA8453*	FTA8453*
		FTA25067	FTA22182	FTA22052	FTA226057

		FT433007	FT432102	FT432033	FT420937
			FGC19839*	FGC19839*	FGC19839*
FT440361*	FT440361*	FT440361*	FT440361*	FT440361*	FT440361*
FT440361*	FT440361*	FT440361*	FT440361*	FT440361*	FT440361*
FGC19833*	FGC19833*	FGC19833*	FGC19833*	FGC19833*	FGC19833*
FGC19832*	FGC19832*	FGC19832*	FGC19832*	FGC19832*	FGC19832*
FGC19832*	FGC19832*	FGC19832*	FGC19832*	FGC19832*	FGC19832*
FT394633	FT394403		FT394633*	FT394633*	FT394633*
			FT394633*	FT394633*	FT394633*
		FTA62295	FT454185	FTA77130	FTA62295*
					FTA62295*
					FTA60830
FT163382	FT162314	FT163795	FT376277	M2718	FT163382*
					FT163382*
FGC62844	FGC62846	FGC62847	FGC62849	FT362675	FGC62844*
					FGC62844*
					FT91808*
BY160767	BY35765			BY35762*	BY35762*
		BY35763	BY35764	BY35766	BY35763*
					BY35763*
					BY46245
FGC19838*	FGC19838*	FGC19838*	FGC19838*	FGC19838*	FGC19838*
			BY164458*	BY164458*	BY164458*
BY49858	BY50090	Z8353	BY50003*	BY50003*	BY50003*
			BY71289	BY117596	BY141979
					FGC19830*
					FGC19830*
BY144996	FT191145	BY94348*	BY94348*	BY94348*	BY94348*
		BY94348*	BY94348*	BY94348*	BY94348*
		BY94348*	BY94348*	BY94348*	BY94348*
				BY123115	BY123115*
					BY123115*
	FGC19829	FGC19834	FGC57920	FGC57920*	FGC57920*
			FGC57920*	FGC57920*	FGC57920*
			FGC19837	FT71829	FGC19837*
					FGC19837*
FT121579*	FT121579*	FT121579*	FT121579*	FT121579*	FT121579*
FT121579*	FT121579*	FT121579*	FT121579*	FT121579*	FT121579*
FTC33008	FTC23635*	FTC23635*	FTC23635*	FTC23635*	FTC23635*
	FTC23635*	FTC23635*	FTC23635*	FTC23635*	FTC23635*

Y128532*	Y128532*	Y128532*	Y128532*	Y128532*	Y128532*
	FT121822	<i>FT121822*</i>	<i>FT121822*</i>	<i>FT121822*</i>	<i>FT121822*</i>
		<i>FT121822*</i>	<i>FT121822*</i>	<i>FT121822*</i>	<i>FT121822*</i>
FT123862	FT124072	FT124091	FT124136	FT124331	FT260597
		A9885*	A9885*	A9885*	A9885*
FTA57046	<i>FTA57046*</i>	<i>FTA57046*</i>	<i>FTA57046*</i>	<i>FTA57046*</i>	<i>FTA57046*</i>
	FTA56417	FTA44746	FTA56612	FTA56998	FTA59071
				FTB11393	FTB16511
BY72569	FT269882	FT269960	FT270680		<i>BY200365*</i>
					<i>BY200365*</i>
				FTB75632	BY198384
			<i>FT74770*</i>	<i>FT74770*</i>	<i>FT74770*</i>
			<i>FT74770*</i>	<i>FT74770*</i>	<i>FT74770*</i>
	BY67989	<i>BY67989*</i>	<i>BY67989*</i>	<i>BY67989*</i>	<i>BY67989*</i>
					FT108626
		<i>FTA82426*</i>	<i>FTA82426*</i>	<i>FTA82426*</i>	<i>FTA82426*</i>
FTA99213	FTA82294	FTA84156	FTA96012	FTB5503	FTB5519
	<i>BY167328*</i>	<i>BY167328*</i>	<i>BY167328*</i>	<i>BY167328*</i>	<i>BY167328*</i>
	<i>BY167328*</i>	<i>BY167328*</i>	<i>BY167328*</i>	<i>BY167328*</i>	<i>BY167328*</i>
<i>FTB5635*</i>	<i>FTB5635*</i>	<i>FTB5635*</i>	<i>FTB5635*</i>	<i>FTB5635*</i>	<i>FTB5635*</i>
FTB77886	FTB77982	FTB78179	FTB78278	FTB86017	FTC46193
			BY167479	<i>BY167479*</i>	<i>BY167479*</i>
				<i>BY167479*</i>	<i>BY167479*</i>
					<i>BY148443*</i>
FTB41592	<i>FT405220*</i>	<i>FT405220*</i>	<i>FT405220*</i>	<i>FT405220*</i>	<i>FT405220*</i>
	<i>FT405220*</i>	<i>FT405220*</i>	<i>FT405220*</i>	<i>FT405220*</i>	<i>FT405220*</i>
	<i>FT405220*</i>	<i>FT405220*</i>	<i>FT405220*</i>	<i>FT405220*</i>	<i>FT405220*</i>
<i>BY50792*</i>	<i>BY50792*</i>	<i>BY50792*</i>	<i>BY50792*</i>	<i>BY50792*</i>	<i>BY50792*</i>
<i>BY50792*</i>	<i>BY50792*</i>	<i>BY50792*</i>	<i>BY50792*</i>	<i>BY50792*</i>	<i>BY50792*</i>
<i>BY50792*</i>	<i>BY50792*</i>	<i>BY50792*</i>	<i>BY50792*</i>	<i>BY50792*</i>	<i>BY50792*</i>
<i>BY50792*</i>	<i>BY50792*</i>	<i>BY50792*</i>	<i>BY50792*</i>	<i>BY50792*</i>	<i>BY50792*</i>
<i>BY50792*</i>	<i>BY50792*</i>	<i>BY50792*</i>	<i>BY50792*</i>	<i>BY50792*</i>	<i>BY50792*</i>
<i>BY50792*</i>	<i>BY50792*</i>	<i>BY50792*</i>	<i>BY50792*</i>	<i>BY50792*</i>	<i>BY50792*</i>
FTB71305	FTB75171	FTC11854	<i>FTB71305*</i>	<i>FTB71305*</i>	<i>FTB71305*</i>
			<i>FTB71305*</i>	<i>FTB71305*</i>	<i>FTB71305*</i>
			<i>FTB71305*</i>	<i>FTB71305*</i>	<i>FTB71305*</i>

BY20523	BY20524	BY20525	BY43444	BY20521*	BY20521*
				BY20521*	BY20521*
				BY20521*	BY20521*
BY197385	BY197386	BY197593	FT276963	FT277678	BY197023*
					BY197023*
BY140369*					
FGC23592*	FGC23592*	FGC23592*	FGC23592*	FGC23592*	FGC23592*
FT95366*	FT95366*	FT95366*	FT95366*	FT95366*	FT95366*
FT96532	FT97057	S17710	Y136179	FT96154*	FT96154*
FT372107	FT372681	FT372755	FT371901*	FT371901*	FT371901*
			FT371901*	FT371901*	FT371901*
			FT371901*	FT371901*	FT371901*
BY216377*	BY216377*	BY216377*	BY216377*	BY216377*	BY216377*
BY157619	BY158319	BY158534	FT120387	FT121184	FT440960
FT56993*	FT56993*	FT56993*	FT56993*	FT56993*	FT56993*
FT56993*	FT56993*	FT56993*	FT56993*	FT56993*	FT56993*
FT358037*	FT358037*	FT358037*	FT358037*	FT358037*	FT358037*
FT358037*	FT358037*	FT358037*	FT358037*	FT358037*	FT358037*
FT58699	FT58829	FT58042*	FT58042*	FT58042*	FT58042*
		FT58042*	FT58042*	FT58042*	FT58042*
FT350981	FT350999	FT351075	FT414815	FT351177	FT351135
FT20258	FT455219	BY112990*	BY112990*	BY112990*	BY112990*
		BY112990*	BY112990*	BY112990*	BY112990*
BY18201	BY20533	BY20534		BY18201*	BY18201*
				BY18201*	BY18201*
				BY18201*	BY18201*
				BY18201*	BY18201*
			FTC14656	FGC80459	FTC14656*
					Y11250
	BY13070	BY13071	Y151124	BY13069	A12547
FGC57760*	FGC57760*	FGC57760*	FGC57760*	FGC57760*	FGC57760*
FT131003*	FT131003*	FT131003*	FT131003*	FT131003*	FT131003*
FT131003*	FT131003*	FT131003*	FT131003*	FT131003*	FT131003*
BY20516	BY20517	BY20518	BY20519	BY20520	BY20516*
					BY20516*

<i>BY45355*</i>	<i>BY45355*</i>	<i>BY45355*</i>	<i>BY45355*</i>	<i>BY45355*</i>	<i>BY45355*</i>
BY50066	FT126623	Z20835	<i>BY49900*</i>	<i>BY49900*</i>	<i>BY49900*</i>
			<i>BY49900*</i>	<i>BY49900*</i>	<i>BY49900*</i>
			<i>BY49900*</i>	<i>BY49900*</i>	<i>BY49900*</i>
<i>FT32818*</i>	<i>FT32818*</i>	<i>FT32818*</i>	<i>FT32818*</i>	<i>FT32818*</i>	<i>FT32818*</i>
<i>FT32300*</i>	<i>FT32300*</i>	<i>FT32300*</i>	<i>FT32300*</i>	<i>FT32300*</i>	<i>FT32300*</i>
<i>FT32300*</i>	<i>FT32300*</i>	<i>FT32300*</i>	<i>FT32300*</i>	<i>FT32300*</i>	<i>FT32300*</i>
<i>FGC19865*</i>	<i>FGC19865*</i>	<i>FGC19865*</i>	<i>FGC19865*</i>	<i>FGC19865*</i>	<i>FGC19865*</i>
BY203941	BY209081	FT155744	<i>BY203817*</i>	<i>BY203817*</i>	<i>BY203817*</i>
			<i>BY203817*</i>	<i>BY203817*</i>	<i>BY203817*</i>

<i>FGC19863*</i>	<i>FGC19863*</i>
<i>FGC19863*</i>	<i>FGC19863*</i>
<i>FGC19863*</i>	<i>FGC19863*</i>

FTA76741	FTB32656	FTB33696	Y52899	Z16313	<i>FTA76741*</i>	
					<i>FTA76741*</i>	
					<i>FTA76741*</i>	
			FT2973	FT2996	FT3034	<i>FTB33696*</i>
						<i>FTB33696*</i>
						FTB30270

FTA76740	<i>FTA76740*</i>	<i>FTA76740*</i>
	<i>FTA76740*</i>	<i>FTA76740*</i>
<i>BY191087*</i>	<i>BY191087*</i>	<i>BY191087*</i>

BY191087	BY190136	FT229170		<i>BY190136*</i>
				<i>BY190136*</i>
			FTA16770	<i>FTA16770*</i>
				<i>FTA16770*</i>
	FT47127	FT47363	FT47637	

FGC19862				<i>FGC19862*</i>			
				<i>FGC19862*</i>			
				<i>FGC19862*</i>			
				FT193130	FT435170	<i>FT193130*</i>	<i>FT193130*</i>
						<i>FT193130*</i>	<i>FT193130*</i>
				BY18238			

<i>FTA43928*</i>	<i>FTA43928*</i>	<i>FTA43928*</i>	<i>FTA43928*</i>	<i>FTA43928*</i>	<i>FTA43928*</i>
<i>FTA43928*</i>	<i>FTA43928*</i>	<i>FTA43928*</i>	<i>FTA43928*</i>	<i>FTA43928*</i>	<i>FTA43928*</i>
<i>BY18212*</i>	<i>BY18212*</i>	<i>BY18212*</i>	<i>BY18212*</i>	<i>BY18212*</i>	<i>BY18212*</i>
<i>BY18212*</i>	<i>BY18212*</i>	<i>BY18212*</i>	<i>BY18212*</i>	<i>BY18212*</i>	<i>BY18212*</i>

			BY125491	FT73743	FT73763
FGC65688*	FGC65688*	FGC65688*	FGC65688*	FGC65688*	FGC65688*
FGC65688*	FGC65688*	FGC65688*	FGC65688*	FGC65688*	FGC65688*
FGC65688*	FGC65688*	FGC65688*	FGC65688*	FGC65688*	FGC65688*
FT80887	YFS2120220	YFS2120222	YFS2120244	YFS2120260	BY18204*
					BY18204*
FGC57762*	FGC57762*	FGC57762*	FGC57762*	FGC57762*	FGC57762*
FGC57762*	FGC57762*	FGC57762*	FGC57762*	FGC57762*	FGC57762*
FGC57762*	FGC57762*	FGC57762*	FGC57762*	FGC57762*	FGC57762*
FGC57762*	FGC57762*	FGC57762*	FGC57762*	FGC57762*	FGC57762*
BY66397*	BY66397*	BY66397*	BY66397*	BY66397*	BY66397*
BY212474	CTS1539	FTC28885	BY184866*	BY184866*	BY184866*
			BY184866*	BY184866*	BY184866*
			BY160010*	BY160010*	BY160010*
FT118759	FT119006 > FT119165	FT71456	FT115386*	FT115386*	FT115386*
			FT115386*	FT115386*	FT115386*
S590*	S590*	S590*	S590*	S590*	S590*
S590*	S590*	S590*	S590*	S590*	S590*
S590*	S590*	S590*	S590*	S590*	S590*
S590*	S590*	S590*	S590*	S590*	S590*
FT282859*	FT282859*	FT282859*	FT282859*	FT282859*	FT282859*
FT266470	FT267796	FT268125	FT266983*	FT266983*	FT266983*
			FT266983*	FT266983*	FT266983*
FTB28759	FTB28882	FTB28889	FTB30491	Y73753	FTB27590*
					FTB27590*
					FTB27590*
					FTB27590*
					FTB27590*
FT458207*	FT458207*	FT458207*	FT458207*	FT458207*	FT458207*
FT458207*	FT458207*	FT458207*	FT458207*	FT458207*	FT458207*
			BY221522*	BY221522*	BY221522*
FT165132*	FT165132*	FT165132*	FT165132*	FT165132*	FT165132*
Y58376*	Y58376*	Y58376*	Y58376*	Y58376*	Y58376*
Y58376*	Y58376*	Y58376*	Y58376*	Y58376*	Y58376*
FT216805	FT217172	FT215744*	FT215744*	FT215744*	FT215744*
		FT215744*	FT215744*	FT215744*	FT215744*
Y89167	Y93943	Y96259	Y96591	BY18205*	BY18205*
				BY18205*	BY18205*
	S595*	S595*	S595*	S595*	S595*
	S595*	S595*	S595*	S595*	S595*
FTA14692	FTA14879	FTA14908	FTA15058	FTC32491	FTC36156

<i>FT42441*</i>	<i>FT42441*</i>	<i>FT42441*</i>	<i>FT42441*</i>	<i>FT42441*</i>	<i>FT42441*</i>
<i>FT39984*</i>	<i>FT39984*</i>	<i>FT39984*</i>	<i>FT39984*</i>	<i>FT39984*</i>	<i>FT39984*</i>
BY159752		<i>BY159710*</i>	<i>BY159710*</i>	<i>BY159710*</i>	<i>BY159710*</i>
		<i>BY159710*</i>	<i>BY159710*</i>	<i>BY159710*</i>	<i>BY159710*</i>
	BY160233	BY177567	BY177782	FT90502	<i>BY160233*</i>
					<i>BY160233*</i>
<i>BY50617*</i>	<i>BY50617*</i>	<i>BY50617*</i>	<i>BY50617*</i>	<i>BY50617*</i>	<i>BY50617*</i>
<i>BY50655*</i>	<i>BY50655*</i>	<i>BY50655*</i>	<i>BY50655*</i>	<i>BY50655*</i>	<i>BY50655*</i>
<i>BY50655*</i>	<i>BY50655*</i>	<i>BY50655*</i>	<i>BY50655*</i>	<i>BY50655*</i>	<i>BY50655*</i>

FT52052

BY63836	<i>BY60479*</i>	<i>BY60479*</i>	<i>BY60479*</i>	<i>BY60479*</i>	<i>BY60479*</i>
	<i>BY60479*</i>	<i>BY60479*</i>	<i>BY60479*</i>	<i>BY60479*</i>	<i>BY60479*</i>
		<i>BY19783*</i>	<i>BY19783*</i>	<i>BY19783*</i>	<i>BY19783*</i>
	<i>BY19782*</i>	<i>BY19782*</i>	<i>BY19782*</i>	<i>BY19782*</i>	<i>BY19782*</i>
	<i>BY19782*</i>	<i>BY19782*</i>	<i>BY19782*</i>	<i>BY19782*</i>	<i>BY19782*</i>
	<i>BY19782*</i>	<i>BY19782*</i>	<i>BY19782*</i>	<i>BY19782*</i>	<i>BY19782*</i>
	<i>BY19782*</i>	<i>BY19782*</i>	<i>BY19782*</i>	<i>BY19782*</i>	<i>BY19782*</i>
	<i>BY19782*</i>	<i>BY19782*</i>	<i>BY19782*</i>	<i>BY19782*</i>	<i>BY19782*</i>
	<i>BY19782*</i>	<i>BY19782*</i>	<i>BY19782*</i>	<i>BY19782*</i>	<i>BY19782*</i>

BY137737	BY139166	FT206277	FT207643	FT208101	<i>BY137737*</i>
					<i>BY137737*</i>
					<i>BY137737*</i>
		FT207731	FT208120	Y137527	<i>FT207731*</i>
					<i>FT207731*</i>
<i>FT47641*</i>	<i>FT47641*</i>	<i>FT47641*</i>	<i>FT47641*</i>	<i>FT47641*</i>	<i>FT47641*</i>
<i>FT47641*</i>	<i>FT47641*</i>	<i>FT47641*</i>	<i>FT47641*</i>	<i>FT47641*</i>	<i>FT47641*</i>
FTA57985	FTA92823	FTA92879	FTB19068	FTB40958	Y99954
BY125828	BY155289	BY88259	FT439482	<i>BY125828*</i>	<i>BY125828*</i>
				<i>BY125828*</i>	<i>BY125828*</i>
				<i>BY125828*</i>	<i>BY125828*</i>
Y44770	<i>BY77548*</i>	<i>BY77548*</i>	<i>BY77548*</i>	<i>BY77548*</i>	<i>BY77548*</i>
					BY55568
			<i>BY184425*</i>	<i>BY184425*</i>	<i>BY184425*</i>
BY184962	BY185473	BY185876	BY224967	FT59733	ZS8572
<i>FT375497*</i>	<i>FT375497*</i>	<i>FT375497*</i>	<i>FT375497*</i>	<i>FT375497*</i>	<i>FT375497*</i>

<i>FT375497*</i>	<i>FT375497*</i>	<i>FT375497*</i>	<i>FT375497*</i>	<i>FT375497*</i>	<i>FT375497*</i>
	<i>Y21577*</i>	<i>Y21577*</i>	<i>Y21577*</i>	<i>Y21577*</i>	<i>Y21577*</i>
<i>Y23074*</i>	<i>Y23074*</i>	<i>Y23074*</i>	<i>Y23074*</i>	<i>Y23074*</i>	<i>Y23074*</i>
<i>FT199678</i>	<i>FTC27388</i>	<i>FT199058*</i>	<i>FT199058*</i>	<i>FT199058*</i>	<i>FT199058*</i>
		<i>FT199058*</i>	<i>FT199058*</i>	<i>FT199058*</i>	<i>FT199058*</i>
<i>Y23075*</i>	<i>Y23075*</i>	<i>Y23075*</i>	<i>Y23075*</i>	<i>Y23075*</i>	<i>Y23075*</i>
<i>Y22118*</i>	<i>Y22118*</i>	<i>Y22118*</i>	<i>Y22118*</i>	<i>Y22118*</i>	<i>Y22118*</i>
<i>Y22118*</i>	<i>Y22118*</i>	<i>Y22118*</i>	<i>Y22118*</i>	<i>Y22118*</i>	<i>Y22118*</i>
<i>FTC41265*</i>	<i>FTC41265*</i>	<i>FTC41265*</i>	<i>FTC41265*</i>	<i>FTC41265*</i>	<i>FTC41265*</i>
<i>FT90295</i>	<i>FT90444</i>	<i>FT90649 > FT90696</i>	<i>Y22117</i>	<i>Y23073</i>	<i>Y22116*</i>
					<i>Y22116*</i>
					<i>Y22116*</i>
<i>BY11731</i>	<i>BY21256</i>	<i>BY21257</i>	<i>BY43817</i>	<i>BY11728*</i>	<i>BY11728*</i>
				<i>BY11728*</i>	<i>BY11728*</i>
				<i>BY11728*</i>	<i>BY11728*</i>
				<i>BY11728*</i>	<i>BY11728*</i>
				<i>BY11728*</i>	<i>BY11728*</i>
<i>Y96240*</i>	<i>Y96240*</i>	<i>Y96240*</i>	<i>Y96240*</i>	<i>Y96240*</i>	<i>Y96240*</i>
<i>BY71053*</i>	<i>BY71053*</i>	<i>BY71053*</i>	<i>BY71053*</i>	<i>BY71053*</i>	<i>BY71053*</i>
<i>BY71053*</i>	<i>BY71053*</i>	<i>BY71053*</i>	<i>BY71053*</i>	<i>BY71053*</i>	<i>BY71053*</i>
<i>BY71053*</i>	<i>BY71053*</i>	<i>BY71053*</i>	<i>BY71053*</i>	<i>BY71053*</i>	<i>BY71053*</i>
<i>BY198*</i>	<i>BY198*</i>	<i>BY198*</i>	<i>BY198*</i>	<i>BY198*</i>	<i>BY198*</i>
<i>BY198*</i>	<i>BY198*</i>	<i>BY198*</i>	<i>BY198*</i>	<i>BY198*</i>	<i>BY198*</i>
<i>BY198*</i>	<i>BY198*</i>	<i>BY198*</i>	<i>BY198*</i>	<i>BY198*</i>	<i>BY198*</i>
<i>FT187526</i>	<i>FT188372</i>	<i>FT188774</i>	<i>FT189142</i>	<i>FT272532</i>	<i>MF87819</i>
<i>BY193966</i>	<i>BY196325</i>	<i>FT191150</i>	<i>FT94357</i>	<i>FT94780</i>	<i>FT94609*</i>
<i>BY21148</i>	<i>BY21149</i>	<i>BY21150</i>	<i>BY21151</i>	<i>BY21152</i>	<i>BY21153</i>
		<i>FGC40502*</i>	<i>FGC40502*</i>	<i>FGC40502*</i>	<i>FGC40502*</i>
<i>FGC40501*</i>	<i>FGC40501*</i>	<i>FGC40501*</i>	<i>FGC40501*</i>	<i>FGC40501*</i>	<i>FGC40501*</i>
<i>FGC40501*</i>	<i>FGC40501*</i>	<i>FGC40501*</i>	<i>FGC40501*</i>	<i>FGC40501*</i>	<i>FGC40501*</i>
			<i>Y66755*</i>	<i>Y66755*</i>	<i>Y66755*</i>
			<i>Y66755*</i>	<i>Y66755*</i>	<i>Y66755*</i>
<i>Y195212*</i>	<i>Y195212*</i>	<i>Y195212*</i>	<i>Y195212*</i>	<i>Y195212*</i>	<i>Y195212*</i>
<i>Y195212*</i>	<i>Y195212*</i>	<i>Y195212*</i>	<i>Y195212*</i>	<i>Y195212*</i>	<i>Y195212*</i>
<i>FTB58843*</i>	<i>FTB58843*</i>	<i>FTB58843*</i>	<i>FTB58843*</i>	<i>FTB58843*</i>	<i>FTB58843*</i>
<i>FTB58843*</i>	<i>FTB58843*</i>	<i>FTB58843*</i>	<i>FTB58843*</i>	<i>FTB58843*</i>	<i>FTB58843*</i>
<i>FT115299*</i>	<i>FT115299*</i>	<i>FT115299*</i>	<i>FT115299*</i>	<i>FT115299*</i>	<i>FT115299*</i>
<i>FT142144</i>	<i>FT219093</i>	<i>Y97320</i>	<i>FT118436*</i>	<i>FT118436*</i>	<i>FT118436*</i>
			<i>FT118436*</i>	<i>FT118436*</i>	<i>FT118436*</i>
		<i>BY21186*</i>	<i>BY21186*</i>	<i>BY21186*</i>	<i>BY21186*</i>
<i>ET172725</i>	<i>ET172740</i>	<i>ET172902</i>	<i>ET174022</i>	<i>ET174621</i>	<i>V100226</i>

FT173723	FT173740	FT173693	FT174922	FTA24021	FT106220
FT96142*	FT96142*	FT96142*	FT96142*	FT96142*	FT96142*
FT96333	FT97280	FT97096*	FT97096*	FT97096*	FT97096*
		FT97096*	FT97096*	FT97096*	FT97096*
BY20834*	BY20834*	BY20834*	BY20834*	BY20834*	BY20834*
Y36587*	Y36587*	Y36587*	Y36587*	Y36587*	Y36587*
BY139826*	BY139826*	BY139826*	BY139826*	BY139826*	BY139826*
BY139826*	BY139826*	BY139826*	BY139826*	BY139826*	BY139826*
FTA56326*	FTA56326*	FTA56326*	FTA56326*	FTA56326*	FTA56326*
FTA56326*	FTA56326*	FTA56326*	FTA56326*	FTA56326*	FTA56326*

A17851	A17848	A17850	A17853	A17849	A17852
			FT81494	FT81494*	FT81494*
				FT81494*	FT81494*

				Y132861	Y132861*
					Y132861*
			BY21680*	BY21680*	BY21680*
		BY21673*	BY21673*	BY21673*	BY21673*
			BY21672*	BY21672*	BY21672*
			BY21672*	BY21672*	BY21672*
	FTC14659	FTC14660	FTC14659*	FTC14659*	FTC14659*
			FTC14659*	FTC14659*	FTC14659*
BY21675	BY21677	BY21676	A15871	FT56559	BY21676*
					A15859
A259*	A259*	A259*	A259*	A259*	A259*
A259*	A259*	A259*	A259*	A259*	A259*
FT229166*	FT229166*	FT229166*	FT229166*	FT229166*	FT229166*
FT229166*	FT229166*	FT229166*	FT229166*	FT229166*	FT229166*
FT12347	FT12971	FT219094	FT45500	Y167437	FT12117*
					FT12117*

<i>FT385118*</i>	<i>FT385118*</i>	<i>FT385118*</i>	<i>FT385118*</i>	<i>FT385118*</i>	<i>FT385118*</i>
M6817	Y238099	Y86073	<i>FT384406*</i>	<i>FT384406*</i>	<i>FT384406*</i>
			<i>FT384406*</i>	<i>FT384406*</i>	<i>FT384406*</i>
<i>BY18122*</i>	<i>BY18122*</i>	<i>BY18122*</i>	<i>BY18122*</i>	<i>BY18122*</i>	<i>BY18122*</i>
<i>BY18122*</i>	<i>BY18122*</i>	<i>BY18122*</i>	<i>BY18122*</i>	<i>BY18122*</i>	<i>BY18122*</i>
<i>BY18115*</i>	<i>BY18115*</i>	<i>BY18115*</i>	<i>BY18115*</i>	<i>BY18115*</i>	<i>BY18115*</i>
<i>BY18115*</i>	<i>BY18115*</i>	<i>BY18115*</i>	<i>BY18115*</i>	<i>BY18115*</i>	<i>BY18115*</i>
<i>FT16709*</i>	<i>FT16709*</i>	<i>FT16709*</i>	<i>FT16709*</i>	<i>FT16709*</i>	<i>FT16709*</i>
A21774	<i>A21774*</i>	<i>A21774*</i>	<i>A21774*</i>	<i>A21774*</i>	<i>A21774*</i>
	FT26655	<i>FT26655*</i>	<i>FT26655*</i>	<i>FT26655*</i>	<i>FT26655*</i>
		<i>FT26655*</i>	<i>FT26655*</i>	<i>FT26655*</i>	<i>FT26655*</i>
		BY21221	BY21222	Y103748	BY21221* Y102794
<i>BY18179*</i>	<i>BY18179*</i>	<i>BY18179*</i>	<i>BY18179*</i>	<i>BY18179*</i>	<i>BY18179*</i>
	FT411594			<i>FT411594*</i>	<i>FT411594*</i>
		FT194071	FT192707	FT194516	<i>FT194071*</i>
					<i>FT194071*</i>
					<i>FT194071*</i>
<i>FT194071*</i>					
A21127	A21128	A21129	A21130	BY52666	FT46396
BY18186	FT35186	FT85410	FT85838	<i>BY18182*</i>	<i>BY18182*</i>
				<i>BY18182*</i>	<i>BY18182*</i>
				<i>BY18182*</i>	<i>BY18182*</i>
					A21133
<i>BY132827*</i>	<i>BY132827*</i>	<i>BY132827*</i>	<i>BY132827*</i>	<i>BY132827*</i>	<i>BY132827*</i>
<i>BY132827*</i>	<i>BY132827*</i>	<i>BY132827*</i>	<i>BY132827*</i>	<i>BY132827*</i>	<i>BY132827*</i>
		BY18119	BY38363	BY38369	Y131447
FT258190	FT258191	<i>FT206077*</i>	<i>FT206077*</i>	<i>FT206077*</i>	<i>FT206077*</i>
		<i>FT206077*</i>	<i>FT206077*</i>	<i>FT206077*</i>	<i>FT206077*</i>
FT111224	FT75088	FT75161	FT77090	<i>FT77622*</i>	<i>FT77622*</i>
				<i>FT77622*</i>	<i>FT77622*</i>
		BY18180	FT145551	<i>BY18180*</i>	<i>BY18180*</i>
				<i>BY18180*</i>	<i>BY18180*</i>
				<i>BY18180*</i>	<i>BY18180*</i>
FGC42418	FGC95509	FTB20469	FTB20470	<i>FGC42416*</i>	<i>FGC42416*</i>
				<i>FGC42416*</i>	<i>FGC42416*</i>
				<i>FGC42416*</i>	<i>FGC42416*</i>
				<i>FGC42416*</i>	<i>FGC42416*</i>
				<i>FGC42412*</i>	<i>FGC42412*</i>
<i>FT64290*</i>	<i>FT64290*</i>	<i>FT64290*</i>	<i>FT64290*</i>	<i>FT64290*</i>	<i>FT64290*</i>

FTB39219	FTB39220	FTB39221	MF158883	MF626167	FTB39222
<i>FT63988*</i>	<i>FT63988*</i>	<i>FT63988*</i>	<i>FT63988*</i>	<i>FT63988*</i>	<i>FT63988*</i>
<i>FT63988*</i>	<i>FT63988*</i>	<i>FT63988*</i>	<i>FT63988*</i>	<i>FT63988*</i>	<i>FT63988*</i>
<i>FTA8007*</i>	<i>FTA8007*</i>	<i>FTA8007*</i>	<i>FTA8007*</i>	<i>FTA8007*</i>	<i>FTA8007*</i>
<i>FTA8007*</i>	<i>FTA8007*</i>	<i>FTA8007*</i>	<i>FTA8007*</i>	<i>FTA8007*</i>	<i>FTA8007*</i>
<i>FT109339*</i>	<i>FT109339*</i>	<i>FT109339*</i>	<i>FT109339*</i>	<i>FT109339*</i>	<i>FT109339*</i>
FTB55179	Y18497	<i>FT109135*</i>	<i>FT109135*</i>	<i>FT109135*</i>	<i>FT109135*</i>
		<i>FT109135*</i>	<i>FT109135*</i>	<i>FT109135*</i>	<i>FT109135*</i>
FTC20370	FTC35515	Y308223	FTB98298	FTB98652	<i>BY60733*</i>
					<i>BY60733*</i>
					<i>BY60733*</i>
					<i>BY60733*</i>
					<i>BY60733*</i>
					<i>BY60733*</i>
					<i>FTB98298*</i>
					<i>FTB98298*</i>
					<i>FTB98652*</i>
					<i>FTB98652*</i>
	<i>A10525*</i>	<i>A10525*</i>	<i>A10525*</i>	<i>A10525*</i>	<i>A10525*</i>
	<i>A10525*</i>	<i>A10525*</i>	<i>A10525*</i>	<i>A10525*</i>	<i>A10525*</i>
	<i>A10525*</i>	<i>A10525*</i>	<i>A10525*</i>	<i>A10525*</i>	<i>A10525*</i>
	<i>A10525*</i>	<i>A10525*</i>	<i>A10525*</i>	<i>A10525*</i>	<i>A10525*</i>
<i>A21746*</i>	<i>A21746*</i>	<i>A21746*</i>	<i>A21746*</i>	<i>A21746*</i>	<i>A21746*</i>
<i>A21746*</i>	<i>A21746*</i>	<i>A21746*</i>	<i>A21746*</i>	<i>A21746*</i>	<i>A21746*</i>
<i>A21746*</i>	<i>A21746*</i>	<i>A21746*</i>	<i>A21746*</i>	<i>A21746*</i>	<i>A21746*</i>
<i>A21296*</i>	<i>A21296*</i>	<i>A21296*</i>	<i>A21296*</i>	<i>A21296*</i>	<i>A21296*</i>
FT147776	FT147817	FT71029	<i>FT146360*</i>	<i>FT146360*</i>	<i>FT146360*</i>
			<i>FT146360*</i>	<i>FT146360*</i>	<i>FT146360*</i>
	<i>BY18145*</i>	<i>BY18145*</i>	<i>BY18145*</i>	<i>BY18145*</i>	<i>BY18145*</i>
	<i>BY18145*</i>	<i>BY18145*</i>	<i>BY18145*</i>	<i>BY18145*</i>	<i>BY18145*</i>
			YFS1251634	YFS1252048	YFS1251634 *
M6630			<i>FGC65253*</i>	<i>FGC65253*</i>	<i>FGC65253*</i>
			<i>FGC65253*</i>	<i>FGC65253*</i>	<i>FGC65253*</i>
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			<i>FGC65253*</i>	<i>FGC65253*</i>	<i>FGC65253*</i>
	FT15936	<i>FT15936*</i>	<i>FT15936*</i>	<i>FT15936*</i>	<i>FT15936*</i>
		<i>FT15936*</i>	<i>FT15936*</i>	<i>FT15936*</i>	<i>FT15936*</i>
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		<i>A5902*</i>	<i>A5902*</i>	<i>A5902*</i>	<i>A5902*</i>

<i>BY108285*</i>	<i>BY108285*</i>	<i>BY108285*</i>	<i>BY108285*</i>	<i>BY108285*</i>	<i>BY108285*</i>
<i>Y52954*</i>	<i>Y52954*</i>	<i>Y52954*</i>	<i>Y52954*</i>	<i>Y52954*</i>	<i>Y52954*</i>
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<i>S6687*</i>	<i>S6687*</i>	<i>S6687*</i>	<i>S6687*</i>	<i>S6687*</i>	<i>S6687*</i>
<i>FT102016</i>	<i>FT370367</i>	<i>JFS0321</i>	<i>FT101173*</i>	<i>FT101173*</i>	<i>FT101173*</i>
			<i>FT101173*</i>	<i>FT101173*</i>	<i>FT101173*</i>
<i>FGC55184*</i>	<i>FGC55184*</i>	<i>FGC55184*</i>	<i>FGC55184*</i>	<i>FGC55184*</i>	<i>FGC55184*</i>
	<i>FGC55181*</i>	<i>FGC55181*</i>	<i>FGC55181*</i>	<i>FGC55181*</i>	<i>FGC55181*</i>
<i>FT149472</i>	<i>FT148533</i>	<i>FT149506</i>	<i>FT149858</i>	<i>FT54369</i>	<i>FT149472*</i>
					<i>FT149472*</i>
<i>FGC55175*</i>	<i>FGC55175*</i>	<i>FGC55175*</i>	<i>FGC55175*</i>	<i>FGC55175*</i>	<i>FGC55175*</i>
<i>FT207619*</i>	<i>FT207619*</i>	<i>FT207619*</i>	<i>FT207619*</i>	<i>FT207619*</i>	<i>FT207619*</i>
	<i>FT208112</i>	<i>FT442539</i>	<i>FT208112*</i>	<i>FT208112*</i>	<i>FT208112*</i>
			<i>FT208112*</i>	<i>FT208112*</i>	<i>FT208112*</i>
					<i>FT53958*</i>
<i>FTA50015</i>	<i>FTA51145</i>	<i>FTA51890</i>	<i>FTA50015*</i>	<i>FTA50015*</i>	<i>FTA50015*</i>
				<i>F25081</i>	<i>F25081*</i>
					<i>F25081*</i>
<i>BY18125</i>	<i>A21782</i>	<i>A21784</i>	<i>BY52711</i>	<i>FTB57117</i>	<i>BY18125*</i>
					<i>BY18125*</i>
<i>FT130287*</i>	<i>FT130287*</i>	<i>FT130287*</i>	<i>FT130287*</i>	<i>FT130287*</i>	<i>FT130287*</i>
			<i>BY9397*</i>	<i>BY9397*</i>	<i>BY9397*</i>
<i>FT131583</i>	<i>FT131680</i>	<i>FT131810</i>	<i>FT130810*</i>	<i>FT130810*</i>	<i>FT130810*</i>
			<i>FT130810*</i>	<i>FT130810*</i>	<i>FT130810*</i>
<i>FT188369</i>	<i>FT184369</i>	<i>FT184491</i>	<i>FT187325</i>	<i>FT425870</i>	<i>FT188369*</i>
					<i>FT188369*</i>
<i>FTB30590</i>	<i>FTB31389</i>	<i>BY98600</i>	<i>BY106599</i>	<i>BY65878</i>	<i>BY98819</i>
				<i>FTB91158</i>	<i>FTB91158*</i>
					<i>FTB91158*</i>
		<i>FT40925</i>	<i>FTB91800</i>	<i>FT40925*</i>	<i>FT40925*</i>
				<i>FT40925*</i>	<i>FT40925*</i>
				<i>FTC11832</i>	<i>FTC11832*</i>
					<i>FTC11832*</i>
				<i>FTC11830</i>	<i>FTC11830*</i>
					<i>FTC11830*</i>
					<i>FTC11830*</i>
<i>FGC59200*</i>	<i>FGC59200*</i>	<i>FGC59200*</i>	<i>FGC59200*</i>	<i>FGC59200*</i>	<i>FGC59200*</i>
<i>BY120886</i>	<i>FGC65679</i>	<i>FT126136</i>	<i>BY68058*</i>	<i>BY68058*</i>	<i>BY68058*</i>
			<i>BY68058*</i>	<i>BY68058*</i>	<i>BY68058*</i>
	<i>BY38401*</i>	<i>BY38401*</i>	<i>BY38401*</i>	<i>BY38401*</i>	<i>BY38401*</i>
<i>DV2020E</i>	<i>DV2020E</i>	<i>DV2020E</i>	<i>FT250150</i>	<i>FTB20222</i>	<i>BY18132*</i>
					<i>BY18132*</i>
					<i>BY18132*</i>

					BY18132*
					BY18132*
					BY18132*
				FGC59201*	FGC59201*
FGC59205	FGC59205*	FGC59205*	FGC59205*	FGC59205*	FGC59205*
			BY21196	BY21197	BY21198
	BY18134*	BY18134*	BY18134*	BY18134*	BY18134*
	BY18134*	BY18134*	BY18134*	BY18134*	BY18134*
		BY147989*	BY147989*	BY147989*	BY147989*
		BY147989*	BY147989*	BY147989*	BY147989*
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FT281844	FTA70361	FTA70635	FTC89922	FTA70069*	FTA70069*
				FTA70069*	FTA70069*
Y91488					FT76652*
	FT222207	FT74321	FT74560	FT222207*	FT222207*
				FT222207*	FT222207*
FGC34296*	FGC34296*	FGC34296*	FGC34296*	FGC34296*	FGC34296*
FGC34296*	FGC34296*	FGC34296*	FGC34296*	FGC34296*	FGC34296*
FT54775	FTB91877	Y11922	Y88223	FT54120*	FT54120*
				FT54120*	FT54120*
FTB62557	Z30016				FT67264*
		FT68813	FT152464	FT67100	FT68813*
					FT68813*
		BY38400*	BY38400*	BY38400*	BY38400*
FT250861	FT250877	FT250934	FT251764	FT252804	Y103373
	BY3338*	BY3338*	BY3338*	BY3338*	BY3338*
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BY38364*	BY38364*	BY38364*	BY38364*	BY38364*	BY38364*
BY38364*	BY38364*	BY38364*	BY38364*	BY38364*	BY38364*
	FT194464*	FT194464*	FT194464*	FT194464*	FT194464*
FT192256	FTC11829	FT192256*	FT192256*	FT192256*	FT192256*
		FT192256*	FT192256*	FT192256*	FT192256*
FGC88377	FTA55204	FTA55205	Y81814	Y81992	BY18137*
					BY18137*
FT72396	BY167936*	BY167936*	BY167936*	BY167936*	BY167936*
	BY167936*	BY167936*	BY167936*	BY167936*	BY167936*
	BY167936*	BY167936*	BY167936*	BY167936*	BY167936*
	BY167936*	BY167936*	BY167936*	BY167936*	BY167936*
BY18113*	BY18113*	BY18113*	BY18113*	BY18113*	BY18113*

BY18113*	BY18113*	BY18113*	BY18113*	BY18113*	BY18113*
	BY203677*	BY203677*	BY203677*	BY203677*	BY203677*
BY204260	BY204433	FT109787	FT110384	FTB68797	MF47195
	BY29015*	BY29015*	BY29015*	BY29015*	BY29015*
FT125302	FT219095	FT125252*	FT125252*	FT125252*	FT125252*
		FT125252*	FT125252*	FT125252*	FT125252*
BY11723*	BY11723*	BY11723*	BY11723*	BY11723*	BY11723*
BY11723*	BY11723*	BY11723*	BY11723*	BY11723*	BY11723*
BY11723*	BY11723*	BY11723*	BY11723*	BY11723*	BY11723*
			FT89237*	FT89237*	FT89237*
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FTC75708	FTC75712	FTC83033	Y178760	FTC75708*	FTC75708*
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Y132137*	Y132137*	Y132137*	Y132137*	Y132137*	Y132137*
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A11846*	A11846*	A11846*	A11846*	A11846*	A11846*
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					FT252159*
		A883*	A883*	A883*	A883*
A21171	FT367519	FT223218*	FT223218*	FT223218*	FT223218*
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			FGC37744*	FGC37744*	FGC37744*
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FTC61743	FTC61888	BY57971*	BY57971*	BY57971*	BY57971*
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			FTA49887	BY224487	Y41051
Y78632	Y78632*	Y78632*	Y78632*	Y78632*	Y78632*
	Y78632*	Y78632*	Y78632*	Y78632*	Y78632*
FT167508	FT168336	FT168337 > FT168338	FT170124	FT171108 > FT171473	FT168924* FT168924*
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A887*	A887*	A887*	A887*	A887*	A887*
A21158	FTC80977*	FTC80977*	FTC80977*	FTC80977*	FTC80977*
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	FT129329	FT129164	FT129522	FT129329*	FT129329*

FT129329	FT120104	FT120323	FT129329*	FT129329*
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FT128962	FT128962*	FT128962*	FT128962*	FT128962*	FT128962*
	FT128962*	FT128962*	FT128962*	FT128962*	FT128962*
	Y138490	Y138490*	Y138490*	Y138490*	Y138490*
Y138490*		Y138490*	Y138490*	Y138490*	

Y131835		FT375780	FT375780*	FT375780*	
			FT375780*	FT375780*	
			FT375780*	FT375780*	
		Y131835*	Y131835*	Y131835*	
		Y131835*	Y131835*	Y131835*	
		Y131835*	Y131835*	Y131835*	
		Y131835*	Y131835*	Y131835*	
		Y131835*	Y131835*	Y131835*	
		Y131835*	Y131835*	Y131835*	
		Y131835*	Y131835*	Y131835*	
		Y131834*	Y131834*	Y131834*	
		Y131834*	Y131834*	Y131834*	
	Y131834			FTC60557	FTC60557*
				FTC60557*	
		FT76199	FT63996	FT75347	FT76223

		Y54272	Y54272*
			Y54272*
			Y54272*
		FT390508	FT444835

FGC5939*	FGC5939*	FGC5939*	FGC5939*	FGC5939*	FGC5939*
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FT396104*	FT396104*	FT396104*	FT396104*	FT396104*	FT396104*
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FTA43254*	FTA43254*	FTA43254*	FTA43254*	FTA43254*	FTA43254*
FT185820*	FT185820*	FT185820*	FT185820*	FT185820*	FT185820*
FT353255*	FT353255*	FT353255*	FT353255*	FT353255*	FT353255*
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	FT184295*	FT184295*	FT184295*	FT184295*	FT184295*

FT187935	FT185446*	FT185446*	FT185446*	FT185446*	FT185446*
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FT62840*	FT62840*	FT62840*	FT62840*	FT62840*	FT62840*
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	FT63002*	FT63002*	FT63002*
	FT63002*	FT63002*	FT63002*

FT62478	FT63159*	FT63159*	FT63159*	FT63159*	FT63159*
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BY11721	BY2703	BY2727	BY2681*	BY2681*	BY2681*
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BY167265*	BY167265*	BY167265*	BY167265*	BY167265*	BY167265*
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FT55407	FT55438	FT55611	FT56135	BY165369*	BY165369*
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	BY20588*	BY20588*	BY20588*	BY20588*	BY20588*
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A6925*	A6925*	A6925*	A6925*	A6925*	A6925*
A6925*	A6925*	A6925*	A6925*	A6925*	A6925*
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A21751	A21752	A21753	FT316925	FT321665	FT325002
FTA26855*	FTA26855*	FTA26855*	FTA26855*	FTA26855*	FTA26855*
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BY20594*	BY20594*	BY20594*	BY20594*	BY20594*
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					FT268490
				FT61877	FT61877*
	FT61877*				
FTC610*	FTC610*	FTC610*	FTC610*	FTC610*	FTC610*
FTC610*	FTC610*	FTC610*	FTC610*	FTC610*	FTC610*
FTC610*	FTC610*	FTC610*	FTC610*	FTC610*	FTC610*
FTC610*	FTC610*	FTC610*	FTC610*	FTC610*	FTC610*
BY93031*	BY93031*	BY93031*	BY93031*	BY93031*	BY93031*
FT200220*	FT200220*	FT200220*	FT200220*	FT200220*	FT200220*
FTB65033	FTB69396	FTC89918		FTB63556*	FTB63556*
			FTB63923	FTB64343	FTC12202
FT310403	FT414786		FT308796*	FT308796*	FT308796*
			FT309522	FT309522*	FT309522*
				FT309522*	FT309522*
			BY84482*	BY84482*	BY84482*
			BY109983*	BY109983*	
FTA38990	FTA39384	FTA44326	FTA38536*	FTA38536*	FTA38536*
			FTA38536*	FTA38536*	FTA38536*
FTB27198	BY62757*	BY62757*	BY62757*	BY62757*	BY62757*
					FT181115
BY145238*	BY145238*	BY145238*	BY145238*	BY145238*	BY145238*
	FT116143*	FT116143*	FT116143*	FT116143*	FT116143*
	FTC36168	FTC36169			FTC36168*
			FTC27440	FTC28938	FTC27440*
					FTC27440*
			FT280617*	FT280617*	FT280617*
BY153298*	BY153298*	BY153298*	BY153298*	BY153298*	BY153298*
			BY63643	BY63643*	BY63643*
				BY63643*	BY63643*
BY129788	BY146737	BY151273	FT89193	Y87900	FT91273*
					FT91273*
BY167765	BY168790	FT128236	FT129227	MF16164	BY167209*
					BY167209*
					BY167209*
BY35731*	BY35731*	BY35731*	BY35731*	BY35731*	BY35731*

<i>BY35736*</i>	<i>BY35736*</i>	<i>BY35736*</i>	<i>BY35736*</i>	<i>BY35736*</i>	<i>BY35736*</i>	
			<i>BY35730*</i>	<i>BY35730*</i>	<i>BY35730*</i>	
			<i>BY35760*</i>	<i>BY35760*</i>	<i>BY35760*</i>	
			<i>BY35760*</i>	<i>BY35760*</i>	<i>BY35760*</i>	
			<i>BY35760*</i>	<i>BY35760*</i>	<i>BY35760*</i>	
		<i>FTC73000*</i>	<i>FTC73000*</i>	<i>FTC73000*</i>	<i>FTC73000*</i>	
<i>FTC74658</i>	<i>FTC77518</i>	<i>FTC77802</i>	<i>FTC77990</i>	<i>FTC74597*</i>	<i>FTC74597*</i>	
				<i>FTC74597*</i>	<i>FTC74597*</i>	
<i>FT86146</i>		<i>FT86146*</i>	<i>FT86146*</i>	<i>FT86146*</i>	<i>FT86146*</i>	
		<i>FT86146*</i>	<i>FT86146*</i>	<i>FT86146*</i>	<i>FT86146*</i>	
		<i>FT86146*</i>	<i>FT86146*</i>	<i>FT86146*</i>	<i>FT86146*</i>	
		<i>FT86146*</i>	<i>FT86146*</i>	<i>FT86146*</i>	<i>FT86146*</i>	
		<i>FT86146*</i>	<i>FT86146*</i>	<i>FT86146*</i>	<i>FT86146*</i>	
		<i>FTC67000*</i>	<i>FTC67000*</i>	<i>FTC67000*</i>	<i>FTC67000*</i>	
			<i>FTC68757</i>	<i>FTC70532</i>	<i>FTC70712</i>	
		<i>FTA90351</i>	<i>BY147898</i>	<i>FGC50642</i>	<i>FTA90413</i>	
		<i>FT87077</i>	<i>FT87357</i>	<i>FT87077*</i>	<i>FT87077*</i>	
				<i>FT87077*</i>	<i>FT87077*</i>	
				<i>BY181019</i>	<i>BY181019*</i>	
					<i>BY181019*</i>	
		<i>FTB75385</i>	<i>FTB75499</i>	<i>FTB76824</i>	<i>FTB79009</i>	<i>FTB75385*</i>
						<i>FTB75385*</i>
	<i>FT145889</i>	<i>FT146398</i>	<i>FT146792</i>	<i>FT147996</i>	<i>FT145889*</i>	
					<i>FT145889*</i>	
<i>FT200886*</i>	<i>FT200886*</i>	<i>FT200886*</i>	<i>FT200886*</i>	<i>FT200886*</i>	<i>FT200886*</i>	
<i>FT200886*</i>	<i>FT200886*</i>	<i>FT200886*</i>	<i>FT200886*</i>	<i>FT200886*</i>	<i>FT200886*</i>	
<i>FT17642*</i>	<i>FT17642*</i>	<i>FT17642*</i>	<i>FT17642*</i>	<i>FT17642*</i>	<i>FT17642*</i>	
<i>FT319138*</i>	<i>FT319138*</i>	<i>FT319138*</i>	<i>FT319138*</i>	<i>FT319138*</i>	<i>FT319138*</i>	
<i>FT319138*</i>	<i>FT319138*</i>	<i>FT319138*</i>	<i>FT319138*</i>	<i>FT319138*</i>	<i>FT319138*</i>	
<i>FTA30104*</i>	<i>FTA30104*</i>	<i>FTA30104*</i>	<i>FTA30104*</i>	<i>FTA30104*</i>	<i>FTA30104*</i>	
<i>FTA30104*</i>	<i>FTA30104*</i>	<i>FTA30104*</i>	<i>FTA30104*</i>	<i>FTA30104*</i>	<i>FTA30104*</i>	
<i>FT194097</i>	<i>FTC46154</i>	<i>BY67410*</i>	<i>BY67410*</i>	<i>BY67410*</i>	<i>BY67410*</i>	
		<i>BY67410*</i>	<i>BY67410*</i>	<i>BY67410*</i>	<i>BY67410*</i>	
		<i>BY67410*</i>	<i>BY67410*</i>	<i>BY67410*</i>	<i>BY67410*</i>	
		<i>BY67410*</i>	<i>BY67410*</i>	<i>BY67410*</i>	<i>BY67410*</i>	
			<i>BY77865*</i>	<i>BY77865*</i>	<i>BY77865*</i>	
			<i>BY77865*</i>	<i>BY77865*</i>	<i>BY77865*</i>	
		<i>FT376896*</i>	<i>FT376896*</i>	<i>FT376896*</i>	<i>FT376896*</i>	
<i>FT19527</i>	<i>FT14725</i>	<i>FT17759</i>	<i>FT21818</i>	<i>FTC68957</i>	<i>FT19527*</i>	
					<i>FT19527*</i>	
	<i>CTD01170</i>	<i>CTD70117</i>	<i>CTD01125</i>	<i>CTD02061</i>	<i>CTD02521</i>	

	FID01470	FID19417	FID01455	FID03004	FID03324
FT410057*	FT410057*	FT410057*	FT410057*	FT410057*	FT410057*
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BY83391	BY91385	BY97037	BY63927*	BY63927*	BY63927*
			BY63927*	BY63927*	BY63927*
FT407343*	FT407343*	FT407343*	FT407343*	FT407343*	FT407343*
FT407343*	FT407343*	FT407343*	FT407343*	FT407343*	FT407343*
FT168547*	FT168547*	FT168547*	FT168547*	FT168547*	FT168547*
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FT168685*	FT168685*	FT168685*	FT168685*	FT168685*	FT168685*
FT168685*	FT168685*	FT168685*	FT168685*	FT168685*	FT168685*
		BY153644	BY153819	BY153860	BY154515
FT337570	FT342932	FT333860	FT340540	FT333860*	FT333860*
				FT333860*	FT333860*
				FT337570*	FT337570*
FT105225*	FT105225*	FT105225*	FT105225*	FT105225*	FT105225*
FT279032*	FT279032*	FT279032*	FT279032*	FT279032*	FT279032*
FT279032*	FT279032*	FT279032*	FT279032*	FT279032*	FT279032*
FT279032*	FT279032*	FT279032*	FT279032*	FT279032*	FT279032*
BY78601*	BY78601*	BY78601*	BY78601*	BY78601*	BY78601*
BY78601*	BY78601*	BY78601*	BY78601*	BY78601*	BY78601*
BY154023*	BY154023*	BY154023*	BY154023*	BY154023*	BY154023*
BY87072	FT258156	FT83301	FT83375	Y870	BY153877*
					BY153877*
	Y61966*	Y61966*	Y61966*	Y61966*	Y61966*
BY92044	FT179124	FTB56644	FTB56955	BY104379*	BY104379*
				BY104379*	BY104379*
				FTB74425	FTB74425*
					FTB74425*
				FTB96231	FTB96231*
FTB96231*					
FT87028	FT87111	Y96440	BY35748*	BY35748*	BY35748*
			BY35748*	BY35748*	BY35748*
BY35744	BY35745	BY35746	BY35747	BY65846	BY78475
FT138908	FT139416	FT140579	FT137069	BY2859*	BY2859*
				BY2859*	BY2859*
				BY2859*	BY2859*
					FT137069*
				BY54939	BY116282

BY21184*	BY21184*	BY21184*	BY21184*	BY21184*	BY21184*
BY21184*	BY21184*	BY21184*	BY21184*	BY21184*	BY21184*
BY38595	Y77865				BY38594*
		BY124890	BY45983	FT139554	BY124890*
FT77834	FT78761	FT78962	FT79117	FT80114	FGC32795*
					FGC32795*
BY35726*	BY35726*	BY35726*	BY35726*	BY35726*	BY35726*
BY35726*	BY35726*	BY35726*	BY35726*	BY35726*	BY35726*
FT28767*	FT28767*	FT28767*	FT28767*	FT28767*	FT28767*
	BY21182*	BY21182*	BY21182*	BY21182*	BY21182*
	BY21182*	BY21182*	BY21182*	BY21182*	BY21182*
FT119183*	FT119183*	FT119183*	FT119183*	FT119183*	FT119183*
FT119183*	FT119183*	FT119183*	FT119183*	FT119183*	FT119183*
BY112394	FTA27834			BY112394*	BY112394*
		Y129569	Y129569*	Y129569*	Y129569*
Y129569*	Y129569*		Y129569*	Y129569*	
FTC27849*	FTC27849*	FTC27849*	FTC27849*	FTC27849*	FTC27849*
FTC27849*	FTC27849*	FTC27849*	FTC27849*	FTC27849*	FTC27849*
FTA57185	FTA94631	FTA97817	FTA97818	FTA97841	MF166862
BY75562*	BY75562*	BY75562*	BY75562*	BY75562*	BY75562*
YP4685	Z45902				FT31150*
		FT31742	FT30028	FT27624	FT30028*
				FT30028*	
BY51523*	BY51523*	BY51523*	BY51523*	BY51523*	BY51523*
BY51523*	BY51523*	BY51523*	BY51523*	BY51523*	BY51523*
FT197861	FT199475	FT199840	FT315407	FTB59831	FT198639*
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			FT215480*	FT215480*	FT215480*
FT218526	FTB34750	FT215947*	FT215947*	FT215947*	FT215947*
				FTA17070	FTB34749
FGC9773*	FGC9773*	FGC9773*	FGC9773*	FGC9773*	FGC9773*
FGC9773*	FGC9773*	FGC9773*	FGC9773*	FGC9773*	FGC9773*
FT132078	BY129440*	BY129440*	BY129440*	BY129440*	BY129440*
	BY129440*	BY129440*	BY129440*	BY129440*	BY129440*
	BY129440*	BY129440*	BY129440*	BY129440*	BY129440*
	BY129440*	BY129440*	BY129440*	BY129440*	BY129440*
BY41037*	BY41037*	BY41037*	BY41037*	BY41037*	BY41037*

<i>BY41037*</i>	<i>BY41037*</i>	<i>BY41037*</i>	<i>BY41037*</i>	<i>BY41037*</i>	<i>BY41037*</i>
Y110358	Y86842	Y86920	Y87417	Y93090	<i>Y85092*</i>
					<i>Y85092*</i>

<i>A10022*</i>	<i>A10022*</i>	<i>A10022*</i>	<i>A10022*</i>	<i>A10022*</i>	<i>A10022*</i>
<i>A10022*</i>	<i>A10022*</i>	<i>A10022*</i>	<i>A10022*</i>	<i>A10022*</i>	<i>A10022*</i>
			<i>BY21163*</i>	<i>BY21163*</i>	

BY21162	BY21165	BY21167	<i>BY21162*</i>	<i>BY21162*</i>	<i>BY21162*</i>
			<i>BY21162*</i>	<i>BY21162*</i>	<i>BY21162*</i>
	BY11716	A11228	BY11717	BY125938	<i>BY11716*</i>
					<i>BY11716*</i>
<i>FT48438*</i>	<i>FT48438*</i>	<i>FT48438*</i>	<i>FT48438*</i>	<i>FT48438*</i>	<i>FT48438*</i>
<i>FT48438*</i>	<i>FT48438*</i>	<i>FT48438*</i>	<i>FT48438*</i>	<i>FT48438*</i>	<i>FT48438*</i>
<i>FGC4125*</i>	<i>FGC4125*</i>	<i>FGC4125*</i>	<i>FGC4125*</i>	<i>FGC4125*</i>	<i>FGC4125*</i>
<i>FGC4125*</i>	<i>FGC4125*</i>	<i>FGC4125*</i>	<i>FGC4125*</i>	<i>FGC4125*</i>	<i>FGC4125*</i>
<i>FGC4125*</i>	<i>FGC4125*</i>	<i>FGC4125*</i>	<i>FGC4125*</i>	<i>FGC4125*</i>	<i>FGC4125*</i>
<i>FGC4125*</i>	<i>FGC4125*</i>	<i>FGC4125*</i>	<i>FGC4125*</i>	<i>FGC4125*</i>	<i>FGC4125*</i>
<i>FGC4125*</i>	<i>FGC4125*</i>	<i>FGC4125*</i>	<i>FGC4125*</i>	<i>FGC4125*</i>	<i>FGC4125*</i>
<i>FGC4125*</i>	<i>FGC4125*</i>	<i>FGC4125*</i>	<i>FGC4125*</i>	<i>FGC4125*</i>	<i>FGC4125*</i>
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BY99762	FT74345	FT74657	Y187329		<i>BY73152*</i>
					<i>BY73152*</i>
					<i>BY73152*</i>
					<i>BY73152*</i>
				7495457	7495457*
					7495457*
		BY18370	FT30325	<i>BY18370*</i>	<i>BY18370*</i>
				<i>BY18370*</i>	<i>BY18370*</i>
				<i>BY18370*</i>	<i>BY18370*</i>
<i>A2303*</i>	<i>A2303*</i>	<i>A2303*</i>	<i>A2303*</i>	<i>A2303*</i>	<i>A2303*</i>
<i>A2303*</i>	<i>A2303*</i>	<i>A2303*</i>	<i>A2303*</i>	<i>A2303*</i>	<i>A2303*</i>
BY21241	BY151706	BY21242	<i>BY21241*</i>	<i>BY21241*</i>	<i>BY21241*</i>
			<i>BY21241*</i>	<i>BY21241*</i>	<i>BY21241*</i>
			<i>BY21241*</i>	<i>BY21241*</i>	<i>BY21241*</i>
			<i>BY21241*</i>	<i>BY21241*</i>	<i>BY21241*</i>
				<i>BY11712*</i>	<i>BY11712*</i>
<i>BY21199*</i>	<i>BY21199*</i>	<i>BY21199*</i>	<i>BY21199*</i>	<i>BY21199*</i>	<i>BY21199*</i>
			BY21200	BY21202	<i>BY21200*</i>
					<i>BY21200*</i>
					<i>BY21200*</i>
					<i>BY21200*</i>
					<i>BY11715*</i>

				BY11715	BY11715*
					BY11715*
A744	A744*	A744*	A744*	A744*	A744*
			BY11713	BY24586	BY11713*
					BY11713*
					FT52398
ZS8379*	ZS8379*	ZS8379*	ZS8379*	ZS8379*	ZS8379*
ZS8379*	ZS8379*	ZS8379*	ZS8379*	ZS8379*	ZS8379*
				BY66386*	BY66386*
				BY66386*	BY66386*
				BY66386*	BY66386*
FT173182	FT178087	Y72745	Z16840	Y73722*	Y73722*
				Y73722*	Y73722*
FT59491*	FT59491*	FT59491*	FT59491*	FT59491*	FT59491*
FT372512	FT456428	FTB58741	FT372020*	FT372020*	FT372020*
			FT372020*	FT372020*	FT372020*
FT59245*	FT59245*	FT59245*	FT59245*	FT59245*	FT59245*
FT59175	FT59482	FT59175*	FT59175*	FT59175*	FT59175*
			FT59166	FT353642	FT59599
Y104613	Y84582	BY145571*	BY145571*	BY145571*	BY145571*
		BY145571*	BY145571*	BY145571*	BY145571*
		BY145571*	BY145571*	BY145571*	BY145571*
		BY145571*	BY145571*	BY145571*	BY145571*
			BY39947*	BY39947*	BY39947*
FT169412	FT169697	FT169941	FT170006	FT171368	FT165292*
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BY11707*	BY11707*	BY11707*	BY11707*	BY11707*	BY11707*
FT157311	FT157918	FT158159	FTA59295	FT157351*	FT157351*
				FT157351*	FT157351*
			A11227*	A11227*	A11227*
FTB9590	Z20579				FTB18475*
		FTB18475	FTB10406	FTB11460	FTB9645
	FT279336	BY87231	FT279248	FT279794	FT279336*
					FT279336*
		BY18040	Y37276	Y37277	BY18040*
					BY18040*
	A11427*	A11427*	A11427*	A11427*	A11427*

	<i>A11427*</i>	<i>A11427*</i>	<i>A11427*</i>	<i>A11427*</i>	<i>A11427*</i>
PR6913	Y29000		<i>BY21143*</i>	<i>BY21143*</i>	<i>BY21143*</i>
		ZS10825	FT191155	FT191156	FT72760
FT95282	FT95776	FT96387	FT96627	PH3300	PH4038
<i>A223*</i>	<i>A223*</i>	<i>A223*</i>	<i>A223*</i>	<i>A223*</i>	<i>A223*</i>
<i>FT82416*</i>	<i>FT82416*</i>	<i>FT82416*</i>	<i>FT82416*</i>	<i>FT82416*</i>	<i>FT82416*</i>
<i>FT82416*</i>	<i>FT82416*</i>	<i>FT82416*</i>	<i>FT82416*</i>	<i>FT82416*</i>	<i>FT82416*</i>
<i>BY100000*</i>	<i>BY100000*</i>	<i>BY100000*</i>	<i>BY100000*</i>	<i>BY100000*</i>	<i>BY100000*</i>
<i>BY100000*</i>	<i>BY100000*</i>	<i>BY100000*</i>	<i>BY100000*</i>	<i>BY100000*</i>	<i>BY100000*</i>
BY135465	BY61333	FTB15120	<i>BY61118*</i>	<i>BY61118*</i>	<i>BY61118*</i>
			<i>BY61118*</i>	<i>BY61118*</i>	<i>BY61118*</i>
A23608	BY176901	BY177065	BY177172	BY177411	<i>BY176953*</i>
					<i>BY176953*</i>
<i>A17682*</i>	<i>A17682*</i>	<i>A17682*</i>	<i>A17682*</i>	<i>A17682*</i>	<i>A17682*</i>
	<i>FT99234*</i>	<i>FT99234*</i>	<i>FT99234*</i>	<i>FT99234*</i>	<i>FT99234*</i>
BY206670	FT132475	FT98889	FT98892	FT99032	BY152455
	FT380776	FT381049	FT383845	FTB54282	<i>FT380776*</i>
<i>A823*</i>	<i>A823*</i>	<i>A823*</i>	<i>A823*</i>	<i>A823*</i>	<i>A823*</i>
<i>A823*</i>	<i>A823*</i>	<i>A823*</i>	<i>A823*</i>	<i>A823*</i>	<i>A823*</i>
				FT123392	FT123214
		<i>FT101501*</i>	<i>FT101501*</i>	<i>FT101501*</i>	<i>FT101501*</i>
FT287710	FT287893	FT288215	FT288911	<i>FT287224*</i>	<i>FT287224*</i>
				<i>FT287224*</i>	<i>FT287224*</i>
				FT288332	<i>FT288332*</i>
					<i>FT288332*</i>
	FT85511	<i>FT85511*</i>	<i>FT85511*</i>	<i>FT85511*</i>	<i>FT85511*</i>
		A8682	FT85521	A8682*	
				A8682*	
FT119849	FT370733	FT371286	FT371287	FT115588	FT118212
	FTA77101	FT60891	FTA10435	BY204550	BY202405
					<i>BY100011</i>

					DT100041	
FT85295	BY150268	BY156630	FT84781	FT85326	FT85295*	
					FT85295*	
BY226806	FTC44600	FTC44600*	FTC44600*	FTC44600*	FTC44600*	
						FT210882
				BY18149	BY18149*	
					BY18149*	
					BY18149*	
A982*	A982*	A982*	A982*	A982*	A982*	
Y32762					A983*	
					A983*	
	A23887*	A23887*	A23887*	A23887*	A23887*	
	A23887*	A23887*	A23887*	A23887*	A23887*	
		BY16031*	BY16031*	BY16031*	BY16031*	BY16031*
		BY16031*	BY16031*	BY16031*	BY16031*	BY16031*
		BY16031*	BY16031*	BY16031*	BY16031*	BY16031*
		FT83870	BY173368	FT83277		FT83870*
						FT83870*
						FT83870*
					BY18139	BY18164
				BY18159	BY18163	
A11242*	A11242*	A11242*	A11242*	A11242*	A11242*	
A17477	A17478	A17479	FT165110	FT165111	Y106911	
A11248	FT129628	FT129990	FT131072	Y105663	A11244*	
					A11244*	
					A11244*	
BY11694*	BY11694*	BY11694*	BY11694*	BY11694*	BY11694*	
	FGC62840*	FGC62840*	FGC62840*	FGC62840*	FGC62840*	
FTB39237	FTB39238	FTB39239	FTB39240	FTB35085*	FTB35085*	
				FTB35085*	FTB35085*	
MF488788	FT394477*	FT394477*	FT394477*	FT394477*	FT394477*	
				BY103073	BY103073*	
					BY103073*	
	BY11696*	BY11696*	BY11696*	BY11696*	BY11696*	
			BY11697	BY11697*	BY11697*	
				BY11697*	BY11697*	
BY120679*	BY120679*	BY120679*	BY120679*	BY120679*	BY120679*	
BY160745*	BY160745*	BY160745*	BY160745*	BY160745*	BY160745*	
BY160745*	BY160745*	BY160745*	BY160745*	BY160745*	BY160745*	
A5613*	A5613*	A5613*	A5613*	A5613*	A5613*	

BY137822	BY137822*
	BY137822*
	FT9740

Y83529	Y110527	Y83529*	Y83529*	Y83529*	Y83529*
		Y83529*	Y83529*	Y83529*	Y83529*
FGC35907	FGC35908				FGC35907*
					FGC35907*
					FGC35907*
					FGC35907*
					FGC35907*
		Y129235	BY57690	Y129235*	Y129235*
				Y129235*	Y129235*
				A5606	A5611
			A225*	A225*	A225*
		Y146184*	Y146184*	Y146184*	Y146184*
FT254857*	FT254857*	FT254857*	FT254857*	FT254857*	FT254857*
	FT254790	BY79574	FT254879	FT254790*	FT254790*
				FT254790*	FT254790*
Y146197	Y146198	Y146178	Y60910	Y146204*	Y146204*
				Y146198*	Y146198*
				Y146198*	Y146198*
				Y146198*	Y146198*
				Y146198*	Y146198*
				Y146198*	Y146198*
A224*	A224*	A224*	A224*	A224*	A224*
BY184899	BY185293	BY185478	FGC50541	FT165104	FT16643
FT401262	FT248833*	FT248833*	FT248833*	FT248833*	FT248833*
			FT249264	FT248096	FT249264*
					FT249264*
FT272039	FTB58728	FTB58729	FT271855*	FT271855*	FT271855*
			FT271855*	FT271855*	FT271855*
FGC36291	FGC36292			MF139946	MF139946*
				MF139946	BY105679
			BY118676*	BY118676*	BY118676*
			BY118676*	BY118676*	BY118676*

DV110676

		DT110070		FTC50292	FTC50292*
					FTC50292*
A1774*	A1774*	A1774*	A1774*	A1774*	A1774*
	A1775*	A1775*	A1775*	A1775*	A1775*
FGC32899*	FGC32899*	FGC32899*	FGC32899*	FGC32899*	FGC32899*
				FTC62030	FTC67957
		BY41464*	BY41464*	BY41464*	BY41464*
				BY41466*	BY41466*
BY41466	BY18173				BY18173*
					BY18173*
					BY18173*
					BY18173*
					BY18173*
				FT42545	FT38293
					FT42545*
FT90196*	FT90196*	FT90196*	FT90196*	FT90196*	FT90196*
FT90196*	FT90196*	FT90196*	FT90196*	FT90196*	FT90196*
FT90196*	FT90196*	FT90196*	FT90196*	FT90196*	FT90196*
FT74122*	FT74122*	FT74122*	FT74122*	FT74122*	FT74122*
	BY18193	BY18130	FGC61657	BY18130*	BY18130*
				BY18130*	BY18130*
FGC23742*	FGC23742*	FGC23742*	FGC23742*	FGC23742*	FGC23742*
FTC58324	FGC58791*	FGC58791*	FGC58791*	FGC58791*	FGC58791*
	FGC58791*	FGC58791*	FGC58791*	FGC58791*	FGC58791*
FGC52029*	FGC52029*	FGC52029*	FGC52029*	FGC52029*	FGC52029*
				FGC52024*	FGC52024*
FT86266	FT86985	FTC86928	Y146339	BY59051*	BY59051*
				BY59051*	BY59051*
BY168066*	BY168066*	BY168066*	BY168066*	BY168066*	BY168066*
			BY167332	BY167332*	BY167332*
				BY167332*	BY167332*
BY69640*	BY69640*	BY69640*	BY69640*	BY69640*	BY69640*
FT134881	FT135117	FT191142		FT133387*	FT133387*
				FT133387*	FT133387*
				FT132849	BY111040
FT365706*	FT365706*	FT365706*	FT365706*	FT365706*	FT365706*
FT365706*	FT365706*	FT365706*	FT365706*	FT365706*	FT365706*
A11906	BY138544	FTB61790	FTB60419*	FTB60419*	FTB60419*
			FTB60419*	FTB60419*	FTB60419*
FT359093*	FT359093*	FT359093*	FT359093*	FT359093*	FT359093*
BY71102*	BY71102*	BY71102*	BY71102*	BY71102*	BY71102*

BY71102*	BY71102*	BY71102*	BY71102*	BY71102*	BY71102*
FT355642	FT355791	FT356205	FT436950	FT355053*	FT355053*
				FT355053*	FT355053*
				FT355053*	FT355053*
				FT355053*	FT355053*
FGC31523	FGC31527	FGC31528	FGC31529	FGC83409	FGC31521*
					FGC31521*
	Y62692*	Y62692*	Y62692*	Y62692*	Y62692*
FT217461*	FT217461*	FT217461*	FT217461*	FT217461*	FT217461*
FT217461*	FT217461*	FT217461*	FT217461*	FT217461*	FT217461*
BY107609*	BY107609*	BY107609*	BY107609*	BY107609*	BY107609*
BY107609*	BY107609*	BY107609*	BY107609*	BY107609*	BY107609*
FGC46310*	FGC46310*	FGC46310*	FGC46310*	FGC46310*	FGC46310*
FGC46310*	FGC46310*	FGC46310*	FGC46310*	FGC46310*	FGC46310*
FT315267*	FT315267*	FT315267*	FT315267*	FT315267*	FT315267*
			Z34470*	Z34470*	Z34470*
FTA83514	FTA85578	Y254787	FTA79378*	FTA79378*	FTA79378*
			FTA79378*	FTA79378*	FTA79378*
A16160*	A16160*	A16160*	A16160*	A16160*	A16160*
				A16161*	A16161*
				A16161*	A16161*
			FT207016*	FT207016*	FT207016*
			FT207016*	FT207016*	FT207016*
FT206457*	FT206457*	FT206457*	FT206457*	FT206457*	FT206457*
FT206071	FT207178	FT207263	FT207441	FT206766*	FT206766*
				FT206766*	FT206766*
FT390021	S20413*	S20413*	S20413*	S20413*	S20413*
	S20413*	S20413*	S20413*	S20413*	S20413*
BY106459*	BY106459*	BY106459*	BY106459*	BY106459*	BY106459*
FT79880	FT80252	Y24629	FT8685	FT78992	FT78685*
					FT78685*
					FT78685*
FGC46309*	FGC46309*	FGC46309*	FGC46309*	FGC46309*	FGC46309*
FGC46308	FGC46311	FT258195	FT258196	FT74157*	FT74157*
				FT74157*	FT74157*
				FT74157*	FT74157*
Y85884	Y86840	Y88903	Y95252	BY24140*	BY24140*
				BY24140*	BY24140*
A1206*	A1206*	A1206*	A1206*	A1206*	A1206*
A1206*	A1206*	A1206*	A1206*	A1206*	A1206*
A1206*	A1206*	A1206*	A1206*	A1206*	A1206*
Y83043*	Y83043*	Y83043*	Y83043*	Y83043*	Y83043*
Y83043*	Y83043*	Y83043*	Y83043*	Y83043*	Y83043*

			FGC23739*	FGC23739*	FGC23739*	
BY212908*	BY212908*	BY212908*	BY212908*	BY212908*	BY212908*	
BY212908*	BY212908*	BY212908*	BY212908*	BY212908*	BY212908*	
BY212908*	BY212908*	BY212908*	BY212908*	BY212908*	BY212908*	
FT75199	FT75424	FT77593	FT77595	FT77596	Y24596	
FT382865*	FT382865*	FT382865*	FT382865*	FT382865*	FT382865*	
FTA18319*	FTA18319*	FTA18319*	FTA18319*	FTA18319*	FTA18319*	
FTA18319*	FTA18319*	FTA18319*	FTA18319*	FTA18319*	FTA18319*	
FTC48917	FTC63456	FT382895*	FT382895*	FT382895*	FT382895*	
		FT382895*	FT382895*	FT382895*	FT382895*	
FTA24726*	FTA24726*	FTA24726*	FTA24726*	FTA24726*	FTA24726*	
FTA24726*	FTA24726*	FTA24726*	FTA24726*	FTA24726*	FTA24726*	
FT12671*	FT12671*	FT12671*	FT12671*	FT12671*	FT12671*	
BY183163*	BY183163*	BY183163*	BY183163*	BY183163*	BY183163*	
		FT96339*	FT96339*	FT96339*	FT96339*	
BY182748	F19011	FT191151	FT191152	FT191153	FT95696	
FT13215	FT13461	FT13618	FTA20683	FTA21783	FT12650*	
					FT12650*	
				BY11689*	BY11689*	
	FT107437	FT107554	FT108202	Y184902	FT107437*	
					FT107437*	
FT33368	FT35278	FT35292	Z34649	BY124234	FT43311	
				FT191154*	FT191154*	
	FT191154	BY21260	Y77098	Y77098*	Y77098*	
				Y77098*	Y77098*	
				Y72855	Y72855*	Y72855*
					Y72855*	Y72855*

1	FTDNA	Surname	Country	County	Sept
1950	Kit No.	of MRKA	of origin	or city	or clan
<i>FTC311*</i>	B429303	Bell	Ulster	Down	
<i>FTC315*</i>	956158	McCrae	Ireland		
<i>FTC315*</i>	MI14934	Parkinson	Ireland		
<i>Z2959*</i>	823355	Gault	Scotland		
<i>FTB77600*</i>	MK65188	Dorsey	Ireland		
<i>FTB77600*</i>	?	?	Ireland		
<i>BY80220*</i>	?	?	Ireland		
<i>BY80220*</i>	829907	Cooper	USA		
<i>BY80220*</i>	105352	Smith	unknown		
<i>BY205747*</i>	?	?	unknown		
<i>BY208847*</i>	?	?	Ireland		
<i>BY208847*</i>	?	?	Ireland		
<i>BY11739*</i>	199859	Crellin	UK	Isle of Man?	
<i>BY42873*</i>	390127	Carpenter	unknown		
<i>BY42873*</i>	?	?	unknown		
<i>BY18041*</i>	N132764	McEntyre	Ireland	Offaly	
<i>BY18041*</i>	226023	McIntire	unknown		
<i>A14935*</i>	?	?	Ireland		Gillespie
<i>A14935*</i>	?	?	unknown		
<i>A14934*</i>	?	?	Ireland		
<i>Y30151*</i>	177044	Gillespie	USA		
<i>FT256969*</i>	94854	Gillespie	Ireland	Donegal	
<i>FT256969*</i>	?	?	Ireland		
<i>S568*</i>	36545	O'Brien	Ireland		
<i>S568*</i>	?	?	?		
<i>FGC33695*</i>	949489	Grant	Ireland		
<i>FGC33695*</i>	303176	Grant	Scotland		
<i>FGC65695*</i>	?	?	Ireland		
<i>FGC65695*</i>	?	?	unknown		
<i>A10857*</i>	B395406	Coady	Ireland		
<i>A10857*</i>	?	?	Ireland		
<i>A10857*</i>	?	?	England		
<i>A10857*</i>	262944	Robertson	USA		
<i>A10853*</i>	56463	Miller	Ireland		
<i>A10853*</i>	909994	<i>Olsen</i>	unknown		
<i>FTA25404*</i>	661150	Wild	England		
<i>FTA25404*</i>	944764	Rumble	England		
<i>A10855*</i>	301926	Dryden	England	Durham	
<i>FTB37682*</i>	MK60557	<i>Messamore</i>	unknown		
<i>FTB37682*</i>	147038	Patterson	unknown		
<i>FT146331*</i>	316319	Collan	Ireland		
<i>FT146331*</i>	?	?	unknown		

Y63653*	141922	Pidgeon	Ireland	Wicklow	
FT34593*	381617	Brophy	Ireland		
FT34593*	?	?	Ireland		
PH1080*	MI36302	Hayden	Ireland	Kildare	
PH1080*	IN12522	Hayden	Ireland	Kildare	
BY129332	B210647	Hayden	Ireland	Kildare	
	B186951	Hayden	Ireland	Kildare	
BY173291*	285242	Newlands	Ireland	Dublin	
BY173291*	?	?	Ireland		
BY173291*	788682	Nolen	USA		
FT83747*	IN73294	Willis	unknown		
FT83315*	82499	Kealy	Ireland		
Y60251*	B438408	Sutherland	Ireland		
FT90205*	B39686	Huggins	USA		
BY138634*	705355	Nowlan	Ireland		
BY138634*	?	?	USA		
S559*	?	?	Scotland		
S559*	B67375	Collins	unknown		
FGC440*	N8488	Deering	Ireland		
FGC84301*	976115	Dunn	Ireland		
FTA18206*	3933	Dalton	England		
FTA18206*	?	?	USA		
FT289584*	971093	Dalton	USA		
FT289584*	334186	Dalton	USA		
FT289584*	?	?	USA		
FGC458*	?	?	UK		
FGC458*	163088	Williams	unknown		
FGC458*	MK65826	Dunn	unknown		
FGC458*	?	?	unknown		
FT356945*	?	?	unknown		
FT356945*	?	?	unknown		
FGC40246*	227877	Byrne	Ireland	Offaly	
FGC40246*	967959	Fann	unknown		
FTA81104*	387585	Joyce	Ireland	Carlow	
FTA81104*	?	?	Ireland		
FTA81104*	?	?	Ireland		
FT151940*	MI34312	Dunne	Ireland	Dublin	
FT151940*	?	?	unknown		
FT399438*	B632029	Dunn	Ireland		
FT67110*	935914	Kelley	unknown		
MF60575*	947166	Kelly	Ireland		
MF60575*	B173059	Kelly	Ireland		
BY122229*	87280	Bain	Scotland		
FTB81472*	B699858	Dunn	Ireland	Cork?	

FTB81472*	?	?	unknown		
FT83699	889471	Dunne	Ireland		
	358748	Dunne	Ireland		
FT125403*	?	?	Ireland		
FT125403*	269091	McCabe	unknown		
Y281106*	249280	Lysberg	Norway	Trondelag	
BY205502*	723727	O'Malley	Ireland		
BY205502*	438148	O'Malley	unknown		
FGC4077*	MI22518	Fenton	Ireland	Antrim	
FGC4077*	161015	Sinclair	Ireland	Antrim	
FGC4077*	76060	Harley	Scotland		
BY77186*	164044	Henry	USA		
BY77186*	?	?	USA		
FT68436*	174827	Lynch	Ireland		
FTB19441*	?	?	Ireland		
FTB19441*	?	?	Scotland		
BY60318*	974722	Smith	USA		Smith (LDS)
BY60318*	?	?	unknown		
FT29492*	B359451	Smith	England		
FT29492*	B1784	Smith	unknown		
FGC37857*	B658891	Moores	Ireland		
FGC42184*	284767	Sudduth	USA		
FGC42184*	247301	Sudduth	unknown		
FGC42184*	303288	Sudduth	unknown		
A7410	B3418	Sudduth	USA		
	N14949	Sudduth	unknown		
FT423755*	228276	Gill	unknown		
FT423755*	N49478	Nutter	unknown		
A359*	12305	Freeman	Ireland		
BY74599*	324171	Mooney	Ireland	Tyrone	
BY74599*	638320	Scullion	UK		
FT118961*	797552	Hammarstrand	Norway	Hordaland	
FT118961*	?	?	Norway		
FTB75440*	?	?	Wales		
FTB75440*	?	?	unknown		
FTB76267	961929	Williams	USA		
	972087	Williams	USA		
FGC5862*	163912	Fitzgerald	Ireland		
FGC5856*	?	?	Scotland		
FGC5856*	27550	NPE	USA		
BY35283*	?	?	unknown		
BY35276*	?	Larkin	Ireland		
BY35279*	?	Larkin	Ireland		
BY35279*	?	Larkin	Ireland		

BY35279*	?	Larkin	Ireland		
FGC4086*	818803	McConahae	unknown		
FT176870*	110319	O'Donnell	Ireland		
FT176870*	67383	Strain	Ireland	Antrim	
FT176870*	?	?	Ireland		
BY45899*	?	?	Ireland		
BY45899*	B325365	McLean	unknown		
Z20770*	B12343	Corr	Ireland		
Z20770*	?	?	Ireland		
BY186561*	128756	McLean	Ireland		
BY186561*	60773	Forrest	Scotland	Lanarkshire	
BY186561*	?	?	unknown		
BY186561*	?	?	unknown		
BY187586*	951940	McKenna	Ireland	Derry	
BY119590*	?	?	unknown		
BY63449*	?	?	Ireland		
BY63449*	457050	Reed	USA		
FGC29481*	501928	Cunniff	Ireland		
FGC29481*	27202	Cunniff	Ireland		
BY202441*	210706	Fournier	France		
BY202441*	279295	Fournier	France		
BY176386*	IN43496	O'Connor	Ireland	Roscommon	
BY176386*	415945	O'Byrne	Ireland		
FT278698	38110	Murphy	Ireland	Cork	
	934837	Murphy	Ireland	Cork	
	?	?	Ireland		
BY93521	38730	Beirne	Ireland	Roscommon	
	?	?	unknown		
FGC12948*	730948	Murray	Ireland		
FT128596*	921327	Magee	Ireland		
FT128596*	299237	McGhee	Ulster		
BY142282*	?	?	Ireland		
BY142282*	B135340	Adrain	unknown		
BY142282*	IN36395	Goodwin	unknown		
FGC12950*	B578557	MacPherson	Canada		
FGC12950*	124944	O'Harrow	USA		
FGC12950*	524545	<i>adopted</i>	USA		
BY185803*	288153	Gorman	Ireland	Ulster	
BY184690*	?	?	USA		
BY184690*	?	?	unknown		
BY184690*	B574774	<i>Mulligan</i>	unknown		
BY184690*	208645	<i>Mullican</i>	unknown		
FGC12936*	575901	Dumigan	Ireland	Down	
FTB38596*	809915	Sweeney	Ulster		

BY115261*	?	?	unknown		
Y68816*	97691	Morrison	Scotland	Western Isles	
Y68816*	168656	<i>Whynacht</i>	unknown		
A2182*	IN103382	McCaugherty	Ireland	Belfast	
A2182*	?	?	Ulster		
A2182*	?	?	USA		
FTB57554*	336534	Fitz Henry	Ireland	Wexford	
FTB57554*	161282	Fitz-Henry	Ireland	Wexford	
FT246503*	B6676	MacBean	unknown		
FT245651*	942680	Stewart	Ireland	Donegal	
FT245651*	578043	Stewart	Scotland	Perthshire	
BY76114*	9010	Logan	Ireland		
BY76114*	897298	?	unknown		
BY177873*	356663	Lafty	unknown		
BY177873*	?	?	unknown		
FT365268*	959847	<i>MacMillan</i>	unknown		
FT365268*	?	?	unknown		
A725*	N17461	Ryall	England	Devon	
A725*	223251	Boyle	Ireland		
A725*	202608	Ferguson	Scotland	Inverness	
A725*	803634	Skinner	Scotland	Fife	
A725*	964686	Gillan	Ulster	Antrim	
A725*	677391	Mills	Scotland		
FT371798*	485246	McFadden	USA		
FT371798*	?	?	USA		
FT371798*	?	?	USA		
FT9401*	?	?	Ireland		
FTA56478*	205699	Reid	Scotland	Renfrewshire	
FTA56478*	357968	Mooney	unknown		
FTA59863*	?	?	Ireland		
FTA59863*	M163488	<i>Hartin</i>	unknown		
BY21224*	508768	Boak	Ulster		
BY21225*	N51014	Moor	unknown		
BY35287*	746275	Moore	Ireland		
Y36299*	349510	Moore	Ireland		
Y36299*	289565	Moore	Ulster		
FT97862*	93141	Gartland	Ireland		
FT97862*	?	?	Ireland		
FT253461*	?	?	Ireland		
FT253461*	?	?	Ireland		
Y92086*	N99903	Harper	Ireland		
Y92086*	?	?	Ireland		
Y92086*	527495	McGugan	Scotland		
FT226171*	58485	McHargue	unknown		

FT164503*	193494	McClellan	Scotland		
FT164503*	949207	McClellan	unknown		
FT445606*	978189	Massengale	USA		
BY75690*	N238257	Hartmann	unknown		
BY75690*	?	?	unknown		
FT210024*	97497	Stephen	Scotland		
FT209186	?	?	USA		
	?	?	unknown		
BY158231*	362236	Bradley	Ireland		
BY158231*	292944	Owens	Wales		
BY158231*	?	?	unknown		
FTA91796*	BP41468	McWilliams	Ulster	Antrim	
FTA91796*	953647	Endicott	unknown		
S679*	N112505	Hoy	Ireland	Louth	
S679*	?	?	Ireland		
FT168987*	635389	McGeough	Ireland		
FT168987*	?	?	Ireland		
BY189805*	754286	Lindsay	Ireland		
BY189805*	?	?	England		
BY189768*	234486	Lindsey	Scotland		
BY189768*	830786	Lindsay	USA		
BY189768*	?	?	unknown		
BY189768*	?	?	unknown		
BY18039*	214785	Byrne	Ireland		
BY196443*	117643	Byrne	Ireland	Sligo	
BY196443*	39360	Burns	Ireland		
BY196443*	918940	Byrne	Ireland	Donegal	
BY188479*	307838	O'Byrne	Ireland		
BY192033*	284811	Byrne	Ireland	Donegal	
BY192033*	MI28512	Byrne	unknown		
BY65795*	312574	Byrne	Ireland	Donegal	
BY65795*	92020	Byrne	Ireland	Donegal	
BY65795*	117644	Beirne	Ireland	Donegal	
BY65795*	?	?	Ireland		
BY65795*	?	?	Ireland		
BY65795*	886138	Burns	unknown		
FGC42651*	N46716	Duggan	Ireland	Derry	
FGC42645*	921937	Hall	unknown		
FGC42641*	MK44272	Rush	USA		
FGC42641*	971872	Johnson	unknown		
FGC42640	?	?	Ireland		
	?	?	Ireland		
BY35286*	683629	Kelly	Ireland		
BY35286*	662135	Kelly	Ireland		

FGC40940*	297677	McMullen	unknown		
FGC40947*	323421	McMullen	Ireland		
FGC40947*	?	?	unknown		
FGC40949*	312232	Savage	Ulster		
FGC40949*	133540	Henry	Ulster		
FGC40949*	B210865	McMullen	Scotland		
FGC40949*	534198	<i>adopted</i>	USA		
BY35282	202090	Riley	Ireland		
	61073	Riley	Ireland		
A11360*	B418855	Bogle	unknown		
A11360*	425231	Wade	unknown		
BY66403	N144915	Cassels	Scotland		
	?	?	Scotland		
BY21246*	333192	Coyne	Ireland	Athlone	
BY21246*	?	?	Ireland		
FT445853*	306872	Cochran	Scotland		
FT123736*	527133	McGrath	Ireland	Meath	
FT124490*	B112986	McGrath	Ireland	Mayo	
FT124490*	?	?	Ireland		
FT124490*	?	?	unknown		
BY21223*	348151	<i>MacTaggart</i>	Ireland		
BY21223*	461495	Trainor	unknown		
A2299*	54922	Thompson	Ireland		
FGC57853*	?	?	unknown		
FGC57856*	103593	Roberson	USA		
FTC23978*	?	?	Ireland		
FTC23978*	?	?	Ulster		
FTC23978*	?	?	USA		
FGC57859*	IN18517	Courtney	Ireland	Monaghan	
FTB1721*	931482	Courtney	Ireland		
FTB1721*	361157	Courtney	unknown		
BY138276*	300324	Courtney	Ireland	Louth	
BY138276*	590179	Courtney	Ireland	Wexford	
BY42598*	B597899	McDonald	Scotland		
BY69705*	139198	Regan	Ireland		
BY69705*	?	?	Ireland		
BY191013*	234060	Broderick	Ireland	Cork	
FT422200*	B222179	<i>NPE</i>	unknown		
FT422200*	?	?	unknown		
BY42778*	783859	Manning	Ireland		
BY42778*	290196	Flynn	Ireland	Waterford	
BY42778*	?	?	unknown		
FGC79580*	934760	McDonnell	Ireland		
FGC79567*	298439	Kelly	Ireland		

<i>FGC79567*</i>	886175	Kelley	Ireland		
<i>DF104*</i>	114367	McHugh	Ireland	Donegal?	
<i>FT14462*</i>	?	?	unknown		
<i>FTA36430*</i>	978398	Healy	Ireland		
<i>FTA36299*</i>	321405	Curran	Ireland		
<i>FTA36299*</i>	B703491	Aley	England		
<i>FT19149*</i>	908507	Gormley	USA		
<i>FT19149*</i>	?	?	unknown		
<i>PH5277*</i>	886510	Brennan	Ireland		
<i>PH5277*</i>	?	?	Ireland		
<i>FT404865*</i>	930280	Grogan	unknown		Ó Gruagáin (Grogan) family
<i>FT404865*</i>	?	?	unknown		
<i>FT19679*</i>	78694	Grogan Hill	Ireland		
<i>FT19679*</i>	?	?	USA		
<i>BY64330*</i>	?	?	Ireland		
<i>BY64330*</i>	367066	Newell	unknown	Galway	
<i>BY64330*</i>	?	?	unknown		
<i>BY64330*</i>	?	?	unknown		
<i>FGC49504*</i>	B8434	Clarke	Ireland	Dublin	
<i>FGC49504*</i>	B339608	Ward	Ireland		
<i>BY33236*</i>	B808059	<i>Riddle</i>	unknown		
<i>BY122668*</i>	292153	Johnson	unknown		
<i>BY121169*</i>	B372191	O Briant	USA		
<i>FTA79453*</i>	IN11952	Doran	Ireland		
<i>FTA79453*</i>	638640	O'Hara	Ireland	Leitrim	
<i>FTA79453*</i>	?	?	unknown		
<i>BY33237*</i>	3362	Blanchard	UK		
BY50906	B230910	Jordan	Ireland		
	?	?	Ireland		
<i>FTA73384*</i>	950592	Sweeney	Ireland		
<i>FTA73384*</i>	?	?	Ireland		
<i>A10656*</i>	?	?	unknown		
<i>FT398514*</i>	104110	Fraser	Scotland	Inverness	
<i>FT397038*</i>	?	?	Scotland		
<i>FT397038*</i>	B491748	Ross	unknown		
<i>A10659*</i>	?	?	Scotland		
<i>A10659*</i>	?	?	Scotland		
<i>A10659*</i>	?	?	Scotland		
<i>A10659*</i>	?	?	Scotland		
<i>DF85*</i>	279864	Mahon	Ireland	Kildare	
<i>DF85*</i>	18712	McCord	Ulster		
<i>DF85*</i>	N68119	Peddie	Scotland		
<i>DF85*</i>	47050	Murray	Ireland		
<i>BY169535*</i>	249937	?	unknown		

BY169535*	?	?	unknown		
BY25893*	525177	Muhlenpoh	Ireland		
BY25893*	647060	Ferguson	Scotland		
FTA4843*	?	?	Ireland		
FTA4843*	976605	Onan	unknown		
FTA4800*	627572	Grealish	Ireland		
FTA4800*	?	?	unknown		
CTS8580*	B142869	Barnes	Ireland		
BY35723*	383239	McCurdy	USA		
FT367724*	B606864	Gillen	Ulster		
FT367724*	?	?	unknown		
BY102981*	906083	Browne	USA		
FT148768*	156541	Irvine	Scotland	Perthshire	
FT148768*	?	?	unknown		
BY68177*	B335619	Friel	Ireland		
FT91182*	514911	McNeill	Ulster		
FT91182*	IN82953	McNeill	UK		
FT191321*	B311930	Currie	Scotland	Isle of Arran	
FT191321*	?	?	Scotland		
BY18325*	177352	Shannon	Ireland		
BY18325*	335544	Maginnis	Ireland		
BY18325*	IN16323	McGuigan	Ireland		
BY220100	255806	Inard	France		
	?	?	USA		
A19681	?	?	Ireland		
	749179	Johnston	Ireland	Cavan	
	728420	Johnston	Ireland		
	?	?	Ireland		
	?	?	unknown		
	?	?	unknown		
	?	?	unknown		
FGC57908*	880778	McCrary	Ireland		
FGC57908*	?	?	unknown		
FT390895*	686213	Smith	USA		
FT186886*	896219	Lawless	Ireland		
FT186886*	?	?	Ireland		
BY2667*	108748	O'Brien	Ireland		
BY2728*	SI12450	McDonald	Scotland		
BY2698*	88646	MacAdam	Scotland	Inverness	Clan MacAdam?
BY2698*	65678	MacAdam	Scotland	Inverness	
BY2702*	119699	MacAdam	Scotland	Inverness	
BY2702*	180243	MacAdam	Scotland	Inverness	
BY2702*	N49044	MacAdam	Scotland	Inverness	
BY21214*	B9807	McGlynn	Ireland		
BY21214*	?	?	Ireland		

Y8251*	?	?	unknown		
FTB43979*	B344708	Nelson	Ireland	Down	
FTB43979*	104815	Nelson	unknown		
FGC71316*	871615	McConel	Ireland		
FGC71316*	IN84217	Forbes	Ireland		
FGC71316*	?	?	Scotland		
BY25924*	25997	Battle	Ireland	Mayo	
FT235981*	?	?	Ireland		
FT235981*	?	?	unknown		
Y7082*	IN77936	Lally	unknown		Maolalaidh sept of Uí Maine
BY43812*	26991	Lalley	Ireland		
FGC12183*	181933	Lally	Ireland	Roscommon	
FGC12183*	B1871	Lally	Ireland		
FT81271*	290623	Price	Wales		
FT144050*	750498	O'Donnell	Ireland	Mayo	
FT144050*	?	?	Ireland		
FGC35551*	N33073	McGee	Ireland		
BY42724*	?	?	Ireland		
BY42724*	266026	McClure	USA		
FGC35553*	200272	McConkey	Scotland	Glasgow	
FGC35553*	84366	McConkey	Ulster		
FGC35553*	N70689	Louden	Ireland		
FGC35553*	194537	Shazell	England	Devon	
	B514575	Dill	Ireland	Donegal	
BY170664*	37064	Maley	Ireland		
BY170664*	N71317	Melley	Ireland		
BY35718*	445693	Lamont	Scotland		
BY35718*	?	?	unknown		
BY35720*	403461	Courtney	unknown		
BY35721*	678140	Kerr	Armagh		
FTA15788*	?	?	Scotland		
FTA15788*	IN68881	McPherson	Scotland	Aberdeenshir e	
BY166437*	IN106317	MacMillan	Scotland		Clan McAdams?
BY166437*	B545156	McAdam	Ireland		
BY166437*	220455	Graham	USA		
FT216520*	165907	McAdam	Scotland		
FT216520*	197837	McCaddams	Scotland		
FT216520*	B50592	McAdams	unknown		
BY112602*	301955	McBrayer	Scotland		
BY112602*	?	?	unknown		
BY112602*	?	?	unknown		
BY56799*	74847	McBride	Ireland		
BY56799*	B316813	McBride	Ireland		
S673*	56598	Dunbar	Ireland	Dublin	

S673*	118972	McCarthy	Ireland	Longford	
S673*	325149	Carroll	Ireland		
BY102017*	443731	McMenamin	Ireland		
BY122139*	N128529	McCormack	Ireland		
BY103163*	205266	Mitchell	Ireland		
BY73259*	IN74058	Young	Scotland		
BY73259*	513602	Young	USA		
BY73259*	636939	Andriessen	Netherlands		
FT63156*	?	?	unknown		
FT63065*	IN116869	Devine	Canada		
FT63065*	850583	McClurg	USA		
FT394597*	436236	Thom	Scotland	Ayrshire	
FT394597*	?	?	unknown		
FT250979*	B682675	McConnell	Ireland		
FT250979*	?	?	Scotland		
FT251063*	220791	McDonald	Scotland		
FT252273	926989	McDonald	unknown		
	?	?	unknown		
F22409*	?	?	UK		
F22409*	?	?	UK		
F22409*	162952	Partain	unknown		
F22409*	B382488	Partin	unknown		
F22409*	?	?	unknown		
FT43614*	?	?	unknown		
FT43614*	?	?	unknown		
BY38588*	875841	Rogers	USA		
FT167776*	?	?	unknown		
FT169660*	280068	Carr	USA		
FT169660*	881967	McCray	unknown		
FT121518*	B108149	Mawhinney	Ireland		
FT121518*	940376	Lindsey	unknown		
BY144293*	12530	McClanahan	Ireland		Sept Mac Lennacháin (McClanahan)
BY144293*	41405	McClanahan	Ireland	Tyrone	
BY144293*	874945	Winder	USA		
BY144293*	?	?	USA		
FTB29016*	847299	Wyatt	USA		
FTB29016*	?	?	unknown		
BY157772	164111	McClanahan	unknown		
	725012	Tolliver	unknown		
Y97241*	589162	Hutson	England		
Y97241*	510220	Scott	England		
Y104487*	?	?	unknown		
BY18310*	587973	McKeon	Ireland		
BY18310*	493111	McCoun	Scotland		

BY25946*	?	?	Denmark			
FT94064*	457027	Ferguson	Scotland			
FT94064*	N234513	Fergusson	Scotland	Western Isles		
FT94064*	194971	McLea	Scotland			
FT137198*	?	?	unknown			
BY18329*	SI12646	MacCord	unknown		Mac Cuarta (McCord) sept of Aírgialla?	
BY18329*	?	?	unknown			
BY18333*	44803	McCord	Ireland			
BY18333*	?	?	Ulster			
FT139745*	N151025	McCord	Ireland			
FT139745*	917106	McCord	Ireland			
FT139745*	922119	McCord	USA			
FT139745*	965578	McCord	unknown			
FT139745*	?	?	unknown			
FT139745*	?	?	unknown			
FT137773*	B395140	McCord	USA			
FT137773*	?	?	unknown			
FT333904*	141812	McMurtry	Ireland			McMurtry sept / clan
Y38757*	119922	McMurtrie	Scotland			
FT342310*	15290	McMurtry	Ulster			
FT342310*	147415	McMurtrie	unknown			
FGC32830*	B500397	Carlill	England	Yorkshire		
BY169282*	IN77567	McPhail	Scotland			
BY47752*	MI40730	Fraser	unknown			
BY170633*	B355609	Lundy	Scotland			
BY170633*	77854	Lundy	USA			
FGC49726*	B778304	McGurk	unknown		McGurk sept	
FGC49724*	B93723	Magouirk	Ulster			
FGC49724*	847839	McGuirt	USA			
BY168456*	143114	Bradner	Ireland	Wicklow		
BY168456*	173492	McGuirk	Ireland	Wicklow		
BY168456*	30411	McGuirk	Ireland			
BY50692*	56073	McGurk	Ireland			
Y187654*	IN61644	McGurk	Ulster			
Y187654*	?	?	Ireland			
Y187654*	?	?	unknown			
FT47343*	?	?	England			
BY184845*	IN35785	McGill	Ireland			
BY184845*	?	?	Ireland			
BY21233*	483345	McKeever	Ireland			
BY21233*	?	?	Ireland			
BY21233*	?	?	Ulster			
BY146806*	?	?	unknown			
BY146806*	?	?	unknown			

<i>FGC32825*</i>	537692	Lynd	Ulster		
<i>FT360077*</i>	226228	Dennison	USA		
<i>FT360077*</i>	B173195	Dennison	USA		
<i>FT360077*</i>	?	?	USA		
<i>FT360077*</i>	?	?	USA		
<i>FT360077*</i>	?	?	unknown		
<i>FT360077*</i>	?	?	unknown		
FTA49576	944506	Dennison	USA		
	?	?	USA		
	194478	Dennison	USA		
<i>FT440594*</i>	405096	Gunning	USA		
<i>FT440594*</i>	?	?	unknown		
<i>FTB31218*</i>	B166203	McRory	Ireland		
<i>FTB31218*</i>	?	?	Ulster		
	?	?	Ulster		
<i>FT47969*</i>	911515	McCroy	Ulster		
<i>FT47969*</i>	MK57080	McCroy	Ulster		
<i>FGC32828*</i>	319915	Hegarty	Ireland	Derry	
<i>FGC32827*</i>	IN49225	Hegarty	Ireland		
<i>FGC32827*</i>	214610	Haggartie	Ireland	Cork	
<i>S668*</i>	49522	Barrett	England		
<i>PH4147*</i>	?	?	unknown		
<i>PH4147*</i>	?	?	unknown		
<i>BY67594*</i>	?	?	Scotland		
<i>FTC5557*</i>	971399	Adkins	USA		
<i>FTC5557*</i>	?	?	UK		
<i>FT381275*</i>	?	?	Ireland		
<i>FT381275*</i>	?	?	Scotland		
<i>BY25917*</i>	N5613	Gallion	USA		
<i>BY25917*</i>	709738	Gallion	USA		
<i>BY25917*</i>	?	?	USA		
<i>BY171768*</i>	?	?	Ireland		
<i>BY171768*</i>	?	?	unknown		
<i>BY161634*</i>	185583	Gallagher	Ireland	Tyrone	
<i>BY161634*</i>	297140	Gallagher	Ireland		
<i>BY18346*</i>	478497	Gallagher	Ireland		
<i>BY18346*</i>	124204	Gallagher	Ireland		
<i>BY18346*</i>	412875	Thompson	Ireland		
<i>BY18346*</i>	676783	Bain	Scotland	Easter Ross	
<i>FT438592*</i>	468938	Galloway	USA		
<i>FT438592*</i>	511792	Galloway	unknown		
<i>BY203025*</i>	939377	Galloway	USA		
<i>BY203025*</i>	885409	Galloway	unknown		
<i>BY203025*</i>	B395779	Galloway	unknown		

Ó
Gallchobhair
sept
(Gallagher -
Galloway
family) of
Cenél Conaill

A10680*	B3380	Melloy	Ireland		
A10680*	446346	Craig	Ulster		
BY18311*	367027	Kilcoyne	Ireland	Mayo	
BY18311*	?	?	unknown		
FTB66263*	IN110059	Kilcoyne	unknown	Mayo	
FTB66263*	?	?	unknown		
BY93206*	494351	Dunaway	Ireland		
BY93206*	?	?	unknown		
BY161919*	681037	Ray	Ireland		
BY161332*	316551	McClellan	Ireland		
BY161332*	?	?	Ireland		
BY18350*	?	?	unknown		
BY145857*	545969	Glass	Scotland		
BY145857*	?	?	unknown		
BY18332*	210267	McKeeman	Ireland		
BY18332*	925277	Campbell	Scotland		
FT273676*	B78471	McNeill	Scotland		
FT273676*	?	?	unknown		
BY25916*	136506	McCollum	Scotland		
BY25916*	N104491	McCollum	unknown		
FT292886*	785901	McMichael	Ulster	Antrim	
BY157703*	708350	Scott	Ireland		
BY157703*	B274071	Scott	USA		
Y10583*	?	?	UK		
BY77436*	92594	MacPherson	Scotland		
BY133129*	264972	McFerson	Scotland		
BY133129*	?	?	unknown		
BY187063*	184774	Murphy	unknown		
BY187063*	915078	Murphy	unknown		
BY92554*	?	?	Ireland		
BY92554*	IN43667	Campbell	UK		
FTB80199*	?	?	Ireland		
FTB80199*	B840921	Hunter	Scotland		
BY25911*	217586	McKeown	Ireland		
BY25911*	?	?	Scotland		
BY168440*	674829	Nichols	Ireland		
BY166533*	?	?	unknown		
BY166028*	107262	Thorburn	Scotland	Sc. Borders	
BY166028*	114335	Alexander	USA		
BY166028*	122429	Alexander	USA		
FT266402*	B803699	Woodside	Scotland		
FT266402*	?	?	unknown		
FTC3217*	968566	Alexander	Scotland		
FTC3217*	907347	Alexander	USA		Alexander family of Campbelltown, Scotland (Argyll and

<i>FTC3217*</i>	?	?	unknown		Büte)
<i>FTC3217*</i>	?	?	unknown		
<i>BY168718*</i>	131864	Alexander	Scotland		
<i>BY168718*</i>	938089	Alexander	Scotland		
<i>DF97*</i>	6897	Slavin	Ireland	Tyrone	
<i>DF97*</i>	N61600	Gattis	UK		
<i>BY76755*</i>	77778	McCauley	Ireland		
<i>BY76755*</i>	?	?	Ireland		
<i>BY76755*</i>	B270341	Brown	USA		
<i>FTA3892*</i>	573489	Craig	Ireland		
<i>BY21179*</i>	IN86090	Harvey	Ireland		
<i>BY146927*</i>	448427	Donnelly	Ireland		
<i>FT222136*</i>	188373	<i>Nelson</i>	Ireland		
<i>FT222136*</i>	?	?	Ulster		
<i>FT405406*</i>	IN90050	Callister	unknown		
<i>FT405406*</i>	?	?	unknown		
<i>S674*</i>	AM38157	Brewer	USA		
<i>FGC68163*</i>	?	?	Ireland		
<i>FGC68163*</i>	22582	McDowell	USA		
<i>FGC68166*</i>	?	?	Ulster		
<i>FGC68166*</i>	649311	McDowell	USA		
<i>BY106100*</i>	856961	Claxton	Ireland		
<i>BY106100*</i>	MK58377	Clogston	Scotland		
<i>BY88350*</i>	53095	Dowell	Scotland		
<i>BY88350*</i>	?	?	Scotland		
<i>BY88350*</i>	?	?	unknown		
<i>BY18256*</i>	96185	Hannon	Ireland		
<i>BY21261*</i>	?	?	USA		
<i>BY90891*</i>	37094	Harrison	Ireland		
<i>BY90891*</i>	316479	USA	USA		
<i>BY204236*</i>	?	?	Scotland		
<i>BY204236*</i>	MK40380	Elliott	USA		
<i>BY204236*</i>	614767	Elliott	USA		
<i>BY178847*</i>	57840	Fleming	Ireland		
<i>BY179323*</i>	B246460	Moore	USA		
<i>BY179323*</i>	B148523	Moores	unknown		
<i>BY3343*</i>	B595679	Garvin	Scotland		
<i>FTA48475*</i>	305808	MacAuley	Ireland		
<i>FTA48475*</i>	?	?	USA		
<i>BY23663*</i>	?	?	England		
<i>BY23663*</i>	208977	Buchanan	Ireland		
<i>BY23663*</i>	N115028	Coleman	unknown		
<i>BY157503*</i>	797174	Boyle	Ireland	Galway	
<i>BY166191*</i>	183147	Boyle	Ireland		

<i>BY166191*</i>	?	?	unknown		
<i>A4697*</i>	?	?	Scotland		
<i>BY99465*</i>	59502	Trumbull	Ireland		
<i>BY99465*</i>	N4029	Fairchild	UK		
<i>BY98659*</i>	31240	Duncan	Scotland		
<i>BY98659*</i>	242649	Duncan	Ulster		
<i>FT161499*</i>	909506	Lister	Ireland		
FTA8135	N26284	Leister	Ireland		
	?	?	unknown		
<i>BY21235*</i>	?	?	Ireland		McGee (Mac Aodha) of Tyrone (genetically not Ulaid)
<i>FTA1267*</i>	948993	McKee	Ireland		
<i>FTA1267*</i>	?	?	Ireland		
<i>BY176927*</i>	B569553	McKee	Ireland		
<i>BY176927*</i>	?	?	unknown		
<i>BY18247*</i>	B4398	McKee	UK		
<i>FT221572*</i>	B79666	Minnis	Ireland	Ulster	
<i>FT221572*</i>	?	?	Ireland		
BY206127	362959	Corbell	unknown		
	?	?	unknown		
<i>BY21236*</i>	151780	McGee	Ireland	Tyrone	
<i>BY21236*</i>	171920	McGee	Ireland		
<i>BY21236*</i>	200080	McGee	Ulster		
<i>FGC68707*</i>	MI52629	McKee	Ireland		
<i>FGC68707*</i>	B148290	McKee	Ireland		
<i>FT57328*</i>	934065	Steuart	Scotland		
<i>FT57328*</i>	?	?	unknown		
<i>BY38377*</i>	877148	Gibbons	USA		
<i>BY38375*</i>	14385	Stuart	unknown		
<i>BY38375*</i>	?	?	unknown		
<i>BY38375*</i>	?	?	unknown		
<i>BY471*</i>	IN30139	Doherty	Ireland		
<i>FT28864*</i>	112442	Black	unknown		
<i>BY168134*</i>	196543	McAllister	Ireland		
<i>BY168134*</i>	95213	Osborne	Canada		
<i>FT70428*</i>	449523	Campbell	Scotland		
<i>FT70428*</i>	218760	Campbell	unknown		
<i>FT70428*</i>	B263839	Campbell	unknown		
<i>BY18261*</i>	231838	McMonigle	Ireland		
<i>F17060*</i>	879512	McManigle	Ireland		
<i>F17060*</i>	866340	McMonigle	Ireland		
<i>F17060*</i>	949005	McMonigal	unknown		
<i>FGC49692*</i>	303732	Lindsay	Ireland	Offaly	
<i>FGC49692*</i>	?	?	unknown		
<i>FT385091*</i>	B629765	McCool	Ireland		

FT385091*	B73115	Campbell	UK	
FT170692*	45540	Campbell	Ireland	
FT170692*	MK68251	Campbell	USA	
FT170692*	926605	Campbel	unknown	Donegal
FTA31329*	B344220	McLaughlin	Ireland	
FTA31329*	?	?	unknown	
FGC51957*	124058	Doherty	Ireland	
FGC51958*	296945	Doherty	Ireland	Kilkenny
FGC51958*	231781	Doherty	Ireland	Kilkenny
A11106*	120515	McDevitt	Ireland	
YP630*	365042	McDevitt	Ireland	
YP630*	?	?	England	
A11099*	285753	McDevitt	Ireland	
A11099*	919202	McDevitt	unknown	
A11100*	446144	McDevitt	Ireland	
A11102	349237	McDevitt	Ireland	Donegal
	?	?	unknown	
BY82995*	?	?	unknown	
A11231*	404808	O'Dougherty	Ireland	
A11231*	B35728	Phelan	Ireland	
BY470*	339625	Bridgman	Ireland	
BY470*	108364	McCloud	UK	
BY470*	508205	Edwards	England	
Y109167*	141270	Docherty	Ireland	Derry
BY18289*	H1132	McDevitt	Ireland	
BY18289*	?	?	unknown	
BY31357*	38180	Doherty	Ireland	Donegal
BY31357*	B75421	Dougherty	Ireland	
BY31357*	320253	Daugherty	unknown	
BY31357*	?	?	unknown	
BY18255*	283491	McDaniel	Scotland	
BY18255*	293002	McDaniel	unknown	
BY93732*	B313284	Kelly	Ireland	
BY93732*	103960	Docherty	Canada	
A17366*	N130817	Hamilton	England	Durham
A17366*	850081	Johnson	USA	
Y32988*	B489293	Doherty	Ireland	
Y32988*	38178	Dougherty	Ireland	Antrim/Down
Y32988*	195598	<i>adopted</i>	Ireland	
Y32988*	16293	O'Dogherty	Ireland	Donegal
Y32988*	B380390	Doherty	Ireland	Donegal
Y32988*	895225	Dougherty	Ireland	
Y32988*	?	?	England	
Y32988*	?	?	USA	

Y32988*	72285	Doherty	unknown	
FTB79860*	?	?	Ireland	
FTB79860*	975002	Daugherty	USA	
FTB82287*	969156	Daugherty	unknown	
FTB82287*	966926	Daugherty	unknown	
FTB82287*	966942	Daugherty	unknown	
BY18307	38173	O'Dogarty	Ireland	Donegal
	IN104150	O'Dogarty	Ireland	
FT377889*	B253142	Doherty	Ireland	
MF620329*	B639147	Daugherty	USA	
MF620329*	976642	Daugherty	unknown	
BY71348*	916157	Doherty	Ireland	
BY71348*	31706	O'Dogherty	Ireland	Kerry
Y112144*	369203	Daugherty	Ireland	
BY18257*	938604	Doherty	Ireland	
BY18257*	168254	Doherty	Ireland	
BY54598*	54968	Dougherty	Ireland	
FT191129*	8373	Dogherty	Ireland	Donegal
FT191129*	MK57249	Doherty	Ireland	
FT191129*	?	?	Ireland	
FGC51814*	225173	Doherty	Ireland	Leitrim
FGC51814*	236197	Doherty	Ireland	Leitrim
FGC51814*	244948	Doherty	Ireland	Leitrim
FGC51814*	301205	Doherty	Ireland	Leitrim
BY18259*	309975	Dougherty	Ireland	
BY18259*	105459	Doherty	Ireland	Donegal
BY18259*	52826	Doherty	Ireland	Donegal
FT377877*	175054	O'Doherty	Ireland	Donegal
FT377877*	MI33230	Doherty	Ireland	
FGC52374.1*	18212	Dougherty	Ireland	Donegal
BY51883*	?	?	Ireland	
BY51883*	?	?	USA	
FT90441*	938881	O'Dougherty	Ireland	
FT90441*	953401	O'Dougherty	Ireland	Donegal
FT90441*	B83239	Dougherty	Ireland	
FGC52373*	N90417	O'Doherty	Ireland	Donegal
Y126341*	956697	Daugherty	Ireland	
Y126341*	836596	Daugherty	Ireland	
Y126341*	798860	Daugherty	Ireland	
BY18291	B522538	Daugherty	Ireland	
	B121647	Daugherty	Ireland	
FGC52368*	29142	Dogherty	Ireland	Donegal
FGC52368*	?	?	Ireland	
BY171706*	IN105491	Dochartaigh	Ireland	

(O'Donerty)
Cenél Conaill
clan of
Donegal

BY171706*	42806	Dougherty	Ireland	Donegal
BY171706*	378385	Hope	Scotland	
BY171706*	B664369	Dorety	unknown	
BY171706*	?	?	unknown	
FT184045*	844710	McLaughlin	Ireland	Donegal
FT184045*	59139	NPE	unknown	
Y132209*	483944	Daugherty	Ireland	Antrim
Y132209*	966444	Daugherty	USA	
FT258146*	N10529	Daugherty	Ireland	
Y137170*	504408	Daugherty	Ireland	
Y137170*	373730	Daugherty	Ireland	
Y137170*	?	?	Ireland	
Y137170*	B542941	Daugherty	USA	
Y137170*	453102	Daugherty	USA	
Y137170*	24073	NPE	unknown	
FGC19851*	?	?	unknown	
FGC8746	N7406	Donaldson	Ireland	
FT172032*	?	?	Ulster	
FT171977*	290273	Reid	Ireland	
FT171977*	?	?	Ireland	
BY21172*	?	?	Ireland	
BY21172*	34230	Gillespie	USA	
BY18252*	278519	Strain	unknown	
BY69603	343753	Strain	Ireland	
	932071	Strain	USA	
BY210565*	B335010	Ross	unknown	
FT22493	122595	Montgomery	unknown	
	?	?	unknown	
BY113621*	?	?	Ireland	
BY113621*	?	?	unknown	
FT3074*	B157843	McGarvey	Ireland	
FT62866*	918235	Tately	unknown	
FT63270*	926078	Teddlie	unknown	
FT63270*	829043	Teddlie	unknown	
Z29319*	329024	Brennan	Ireland	
Z29319*	B79457	Doogan	Ireland	Donegal
Z29319*	192014	McNeely	Ireland	Mayo
Z29319*	120823	Buchanan	Scotland	
BY65078*	198419	Reed	Ireland	
BY65078*	974718	Griffith	USA	
PH1066*	448001	Braden	unknown	
PH1066*	408248	Brady	unknown	
FGC41507*	866557	McNeely	USA	
FT124408*	N73727	Phillips	Ireland	

FGC41513*	107255	McNeely	Ireland		
FGC41513*	?	?	unknown		
BY35773*	?	?	Ulster		
Y26014*	IN77876	O'Neil	Ireland		
Y26014*	?	?	Ireland		
BY35771*	130824	Cannon	Ireland		
BY35772*	106479	Rafferty	Ireland	Monaghan	
BY35772*	?	?	Ireland		
BY35772*	?	?	Ireland		
BY123034*	976504	Crandy	USA		
BY123034*	678448	Barry	USA		
BY193442*	B3362	Boyle	Ireland		
BY193442*	512169	Boyle	Ireland		
CTS8002*	?	?	Ireland		
BY38841*	76350	Grant	Scotland		
BY38841*	?	?	Canada		
FT382411*	B48390	Sweeney	Ireland		
FT382755*	458389	?	unknown		
FT382755*	?	?	unknown		
BY64438*	?	?	Scotland		
BY61926*	342633	McGee	Ireland		
BY61926*	?	?	Scotland		
BY76143*	962765	McAllister	Ireland		
BY76143*	565668	McAllister	USA		
BY38577*	568121	Duffy	Ireland		
BY38577*	130447	Duffy	Ireland		
FT91663*	82196	O'Donnell	Ireland		
FT91663*	329279	O'Donnell	Ulster		
FT91663*	?	?	Ireland		
BY181255*	471174	Donnell	Ireland	Tipperary	
BY181255*	?	?	unknown		
FT50133*	?	?	unknown		
Y128090*	689004	Noonan	Ireland		
Y128090*	948526	O'Donnell	unknown		
FT50589*	?	?	Ireland		
FT50589*	?	?	USA		
BY21159*	N62804	Wilson	Ireland	Armagh	
FT47406*	?	?	Ireland		
BY38581*	453254	McGinnis	Ireland	Derry	
BY38581*	21588	McGinness	Ireland		
BY38581*	9871	Prior	unknown		
BY38581*	B184117	McGinnis	unknown		
BY38581*	IN48839	McGinnis	unknown		
BY115367 >	936787	McGinnis	Ireland		

Ó Domhnaill
(Ó Donnell)
of Tyrconnell,
including
McGinnis
sub-family

Y99380	365931	Magennis	Ireland	Derry	
	21589	McGinnis	Ireland	Derry	
BY38582*	847388	McGinnis	unknown		
BY38582*	?	?	unknown		
BY117342*	749812	McGinnis	Ireland		
BY117342*	?	?	unknown		
BY38583*	459161	Leach	unknown		
BY38583*	349319	Leach	unknown		
FT7322*	B300066	Forsyth	unknown		
FT12253*	B637447	McKinnell	unknown		
BY172979*	?	?	Scotland		
BY172979*	?	?	Scotland		
FGC65264*	130888	McLain	Ireland		
FGC65264*	588242	Brimer	England		
FGC65264*	?	?	unknown		
FT8654*	883747	Matney	USA		
FT8654*	?	?	unknown		
BY21207*	99411	Clegg	Ireland	Ulster	
BY74382*	131736	Cullen	Scotland	Lanarkshire	
BY74382*	?	?	unknown		
BY21208*	MK75000	Dixon	USA		
BY21211	37348	Rose	unknown		
	396763	Rose	unknown		
	73616	Rose	unknown		
	891065	Rose	unknown		
	396760	Ralston	unknown		
FGC19846*	11952	Barnett	Ulster	Antrim	
FT128318*	388476	Aitken	Scotland	Dunbartonshire	
FT129397*	IN72887	Eakin	Ireland	Monaghan	Eakin family
FT129397*	IN81291	Eakin	Ireland	Monaghan	
FT129397*	IN93525	Eakin	Ireland	Cavan	
FT129397*	IN93513	Eakin	Ireland	Cavan	
FT129397*	?	?	Ireland		
FT128931	IN107833	Eakins	Ireland	Cavan	
	IN63785	Eakins	Ireland	Cavan	
	?	?	Ireland		
FT387209*	933477	Eakins	Ireland		
FT387209*	961361	Eakins	Ireland	Monaghan	
FT304576*	?	?	Ireland		
FT304576*	B52304	Plage	unknown		
FT144600*	N105614	Carnahan	Ireland		Carnahan
FT144600*	?	?	Ireland		
BY54736*	N8476	Kernohan	Ireland	Antrim	
BY54736*	?	?	Ireland		

FT222521	560767	Lyons	USA		family	
	?	?	unknown			
	412552	Carnahan	USA			
	428408	Collins	USA			
<i>FGC42106*</i>	?	?	Ulster			
<i>FGC42491*</i>	500188	McKeague	Ireland			
FGC42483	N112723	Calhoun	Ireland			
	368709	Calhoun	Ireland			
	?	?	unknown			
<i>FT137382*</i>	169780	Wright	unknown			
<i>FT137382*</i>	?	?	unknown			
<i>FTC36596*</i>	?	?	Ireland			
<i>FTC36596*</i>	?	?	USA			
<i>FT19291*</i>	B295635	Law	Ulster			
<i>FT19222*</i>	62339	Sinclair	Ireland			
<i>FT19222*</i>	B144127	Law	Ulster	Tyrone		
<i>FGC42105*</i>	130457	McCreery	Ireland			
<i>FGC42105*</i>	?	?	unknown			
<i>FGC42105*</i>	?	?	unknown			
<i>BY56624*</i>	949892	Settle mire	unknown			
<i>BY67722*</i>	382501	McGeachy	Scotland			
<i>BY67722*</i>	459164	McGeachy	Scotland			
<i>BY67722*</i>	382549	McGeachy	Scotland			
<i>FTA36700*</i>	33053	Chambers	Scotland			
<i>FTA36402*</i>	946808	Chambers	Ulster	Derry		
<i>FTA36402*</i>	?	?	unknown			
<i>FTC38307*</i>	B742156	Chambers	Ulster			
<i>FTC38307*</i>	?	?	Ulster			
<i>BY23098*</i>	40311	Noble	England			
<i>BY23098*</i>	141604	Herrin	unknown			
<i>BY23098*</i>	N114534	Herring	unknown			
<i>FT75646*</i>	N35105	Herring	England			
<i>FT75646*</i>	?	?	Ireland			
<i>BY202797*</i>	341945	Paden	Ulster	Derry		
<i>BY202797*</i>	39824	Watson	USA			
<i>BY18295*</i>	?	?	USA			
BY18302	457846	McKee	Ireland			
	793013	McKee	Ireland			
<i>FGC19848*</i>	280179	Gordon	USA			
<i>FT101936*</i>	?	?	unknown			
<i>FT102660*</i>	337382	Alexander	USA			
<i>FT100543*</i>	176898	Alexander	unknown			
<i>FT100543*</i>	246887	Alexander	unknown			
<i>FT100543*</i>	172288	Alexander	unknown			

<i>FT111788*</i>	B390773	McNish	Scotland	Argyll	
<i>BY23088*</i>	63915	McAninch	Ulster	Antrim	
<i>BY23088*</i>	?	?	unknown		
<i>FGC19845*</i>	N82963	McConaughy	Ireland		Clan McConaughy
<i>FTT35*</i>	919030	McConaughy	USA		
<i>FTT35*</i>	473546	Duncan	Scotland		
<i>FTT35*</i>	914095	Duncan	Scotland		
<i>FTT35*</i>	?	?	Scotland		
<i>FTT35*</i>	?	?	Ireland		
FGC30115	225117	McConaughy	Ireland		
	216751	McConaughy	Ireland		
<i>FGC19859*</i>	205297	McConaughy	Ireland		
<i>FGC19859*</i>	419890	McConathy	USA		
	236057	McConaughy	Ireland	Donegal	
<i>FGC19842*</i>	167920	Duncan	Scotland	Bute	
<i>FGC19842*</i>	370654	McConechy	Scotland		
<i>FGC33214*</i>	28428	Duncan	Scotland		
<i>FGC33214*</i>	B5247	Duncan	Scotland		
<i>FGC33214*</i>	219530	Duncan	unknown		
<i>FGC33214*</i>	16212	Ashley	England		
<i>FGC33214*</i>	?	?	USA		
<i>FGC33214*</i>	?	?	Scotland		
<i>FGC33214*</i>	?	?	Scotland		
<i>FT269028*</i>	339306	Courtney	Scotland		
<i>FT269028*</i>	852880	Duncan	USA		
<i>FT269028*</i>	229946	Duncan	unknown		
<i>FGC33215*</i>	405742	Lear	USA		
<i>FGC33215*</i>	873097	Duncan	USA		
<i>FGC33215*</i>	50393	Akin	unknown		
<i>FGC33215*</i>	100724	Duncan	unknown		
<i>BY75435*</i>	16729	Duncan	Scotland		
<i>BY75435*</i>	917964	Duncan	USA		
<i>FTA29787*</i>	IN90945	McConaghy	Ulster		
<i>FTA29787*</i>	204944	McConaughy	Ulster		
<i>BY71332*</i>	135124	MacAulay	Ireland		
<i>BY71332*</i>	?	?	USA		
<i>BY38596*</i>	273902	Nutt	USA		
<i>BY38596*</i>	?	?	unknown		
<i>BY38597*</i>	583883	McNutt	unknown		
<i>Y132759*</i>	?	?	unknown		
<i>Y132756*</i>	N16696	McNitt	UK		
<i>Y132756*</i>	364627	McNitt	USA		
<i>BY169953*</i>	?	?	Ireland		
<i>BY169953*</i>	791803	Daugherty	USA		

BY171180*	29139	Doherty	Ireland	Derry	
BY170025*	569999	Dougherty	unknown		
BY170025*	758053	Dougherty	unknown		
BY170025*	?	?	unknown		
S588*	328199	Seawright	Ireland		
S588*	B259937	Košnář	Czechia		
S588*	B455160	Gatins	Ireland		
S588*	253928	Lynn	Ireland		
S588*	N198871	Corrigan	Ireland		
A5388*	975153	Johnson	unknown		
BY104953	B177041	Turner	England		
	?	?	unknown		
BY65624*	N8220	Hazlett	Ireland	Donegal	
BY65624*	N119097	Hayslett	Ireland		
BY65624*	B116020	Moore	unknown		
FT53248*	232911	Scott	Scotland		
FT53248*	MI53913	Gray	UK		
FT53248*	288224	Gilmore	USA		
BY57166*	275331	Gilmore	UK		
BY57166*	N117876	Gilmer	USA		
FT52889*	?	?	Ulster		
FT52889*	?	?	UK		
BY160885	?	?	Scotland		
	?	?	Scotland		
	?	?	unknown		
	380909	Love	Scotland		
BY20536*	IN88911	Wilson	Scotland		
BY96491*	42029	Wilson	Ireland		
BY96491*	70755	Wilson	Ireland		
BY96491*			unknown		
BY96491*			unknown		
Z19785	744248	Wilson	Ireland		
	78346	Wilson	Ireland		
	913051	Wilson	unknown		
A9883*	214886	O'Neill	Ireland		
BY91591*	400441	Neal	Ireland		
BY91591*	921210	Neel	unknown		
BY91591*	908382	Johnson	unknown		
BY137484*	60719	McAtee	USA		
BY137484*	?	?	USA		
BY70810*	B661489	Freeman	unknown		
BY18207*	262330	O'Donnell	Ireland		
BY18207*	N106427	O'Donnell	Ireland		
FTA10274*	938968	Oliver	England		

FTA10274*	464788	Ashley	USA		
FT187328*	136138	Brown	Ulster		
BY152334	75820	Minor	unknown		
	93036	Minor	unknown		
BY119880*	568910	Stanley	New Zealand		
BY119880*	?	?	unknown		
FT335635*	922251	Shaw	USA		
FTB49930*	B73982	McClain	USA		
FTB49930*	?	?	USA		
FT92296*	?	?	France		
BY123965*	198364	Kelly	Ireland		
BY123965*	?	?	France		
BY193079*	IN30934	Martin	Ireland		
BY154268*	358888	Carroll	Ireland	Roscommon	
FT145926*	IN65995	O'Neil	Ireland		
FT145926*	970328	McGeehin	Ireland		
BY66082*	B404174	<i>Kimpel</i>	unknown		
BY71187*	B668398	Harkin	Ireland		
BY71187*	B31619	Harkins	unknown		
BY71187*	?	?	unknown		
BY18198*	?	?	unknown		
BY69003*	855856	Riker	USA		
BY64471*	366898	Carnes	Scotland	Galloway	
BY64471*	167489	Carnes	Scotland		
BY20527*	174444	McKown	Ulster		
BY20526*	?	?	Scotland		
BY20526*	?	?	unknown		
BY50713*	352438	McElroy	Ireland		
FTC26570*	967211	Jarman	Wales		
FTC26570*	909812	German	unknown		
BY50759*	273282	Trainor	Ireland		
BY134633*	B258103	Trainer	USA		
BY134633*	?	?	unknown		
FT258154*	?	?	unknown		
FT258154*	?	?	unknown		
BY64963*	?	?	Ireland		
BY64963*	?	?	unknown		
	914487	Trainor	Ireland		
BY170517*	461945	Megraw	Ireland		
BY170517*	IN115936	Megraw	Ireland	Down	
BY169460	381464	Megraw	Ireland	Down	
	?	?	Ireland		
BY76660*	20141	O'Neill	Ireland		
BY76660*	947180	Neill	Ireland	Fermanagh	

<i>BY76660*</i>	BP22141	O'Neill	unknown		
<i>BY76660*</i>	154983	O'Neal	unknown		
FTA92286	B681061	Redfern	Ireland		
	B743588	Redfern	Ulster		
<i>FT165097*</i>	MI55797	Curran	Ireland	Tyrone	
<i>FT165097*</i>	775572	Coleman	Ireland		
<i>S7049*</i>	N5845	McDuff	Ireland		
<i>FGC64966*</i>	949122	McLoughlin	Ulster		
<i>FTB63624*</i>	228001	Gilliland	USA		
<i>FTB63624*</i>	?	?	USA		
<i>BY94024*</i>	293692	Hamilton	unknown		
<i>BY94024*</i>	?	?	unknown		
<i>FT135792*</i>	B307499	Hagan	Ireland		
<i>FT135792*</i>	646978	Hagan	Ireland		
<i>FT135792*</i>	?	?	unknown		
<i>BY57627*</i>	383329	Fagan	Ireland	Cavan	
<i>BY57627*</i>	?	?	Ireland		
<i>BY57627*</i>	?	?	Ireland		
<i>BY13681*</i>	?	?	unknown		
<i>BY13684*</i>	?	?	unknown		
<i>FT93965*</i>	439151	MacKean	Scotland		
<i>BY13680*</i>	?	?	unknown		
<i>FT123515*</i>	954123	Evans	Ulster		
<i>FT123515*</i>	B703258	Johnston	Canada		
<i>FGC57048*</i>	508157	Cain	USA		
<i>FGC57048*</i>	29527	Cain	USA		
<i>BY128524*</i>	B726279	Crossey	Ulster		
<i>BY128524*</i>	926888	Cross	unknown		
<i>BY128524*</i>	914810	Cross	unknown		
<i>BY128524*</i>	341571	Cross	unknown		
<i>FGC30692*</i>	235771	McBride	Ireland	Louth	
<i>FGC30692*</i>	?	?	unknown		
<i>FTB3121*</i>	?	?	Ireland		Ó Doibhlín (Devlin)
<i>FTB3121*</i>	943669	Devlin	unknown		
<i>FT177237*</i>	MK11378	Devlin	Ireland		
<i>FT177237*</i>	?	?	unknown		
<i>A10531*</i>	953317	Dowling	Ireland		
<i>FTB53888*</i>	B64510	Devlin	Ireland		
<i>FT89134*</i>	B216114	Devlin	Ireland		
<i>BY137051*</i>	540143	Devlin	Ulster		
<i>BY137051*</i>	?	?	unknown		
<i>S7814*</i>	MI19306	Gall	England	Lincolnshire	
<i>S7814*</i>	B208068	White	USA		
<i>S7814*</i>	B205012	Martin	USA		

<i>FT257357*</i>	IN36978	MacGillivray	unknown		
<i>FT257357*</i>	?	?	unknown		
<i>BY112462*</i>	IN98275	Wright	unknown		
<i>BY67406*</i>	?	?	Scotland		
<i>FT189337*</i>	280781	Frizell	Ireland		
<i>FT189337*</i>	B297018	Fraser	Scotland		
<i>FT191235*</i>	B544693	O'Donnell	Ireland		
<i>FT191235*</i>	970461	Tiernan	unknown		
<i>FGC51765*</i>	927869	<i>McNeil</i>	unknown		
<i>BY80837*</i>	B1165	McDonald	Scotland		
<i>BY80837*</i>	126649	Patterson	Scotland		
<i>BY80837*</i>	BP24065	McDougall	Scotland	Islay (Argyll)	
<i>BY80837*</i>	?	?	Scotland		
<i>FGC51764*</i>	428416	McCahan	Ireland		
<i>FGC51764*</i>	?	?	Ulster		
<i>FGC51764*</i>	578119	McKeachie	Scotland		
<i>FGC51764*</i>	?	?	unknown		
<i>FT117376*</i>	N158189	McKechney	Ireland		
<i>FT117376*</i>	?	?	Ulster		
<i>FT201818*</i>	?	?	Ulster		
<i>FT201818*</i>	?	?	Ulster		
<i>FT81591*</i>	277124	McCahan	Ireland		
<i>FT81591*</i>	?	?	Ulster		
<i>BY20497*</i>	4423	Stewart	Scotland		
<i>BY20497*</i>	363022	Stewart	Scotland	Inverness	
<i>BY18197*</i>	274284	Hamill	Ireland		
<i>BY18197*</i>	IN63601	Hamilton	Ireland		
<i>BY18197*</i>	98188	Hamilton	unknown		
<i>FT71959*</i>	IN93399	Murray	unknown		
<i>FT71844*</i>	233685	Lashley	Ireland		
<i>FT72054*</i>	139546	Lashley	Ireland		
<i>FT72054*</i>	170529	Lashley	Ireland		
<i>FTA76566*</i>	?	?	USA		
FTA76620	1979	George	USA		
	954250	George	USA		
<i>BY152843*</i>	36715	Burns	Ireland	Sligo	
<i>BY152843*</i>	118839	Burns	Ireland	Sligo	
FGC33937	30771	Burns	Ireland	Sligo	
	MK57776	Burns	Ireland	Sligo	
<i>PF2028*</i>	BP17844	Skanche	Norway		
<i>PF2028*</i>	68923	Doherty	Ireland		
FT260023	163297	Guinn	unknown		
	929230	Weiss	unknown		
<i>FGC75642*</i>	639531	McLaughlin	Ireland		

FGC75642*	?	?	Ireland		Clann Domhnaill / Meic Lochlainn
FTB85370*	38275	McLachlan	Ireland		
FTB85370*	IN109095	McLaren	Scotland		
FT95410*	73633	Daugherty	Ireland		
FT95410*	49972	Foster	unknown		
BY201250*	838431	McGlohon	USA		
BY201250*	?	?	USA		
BY18222*	392505	McLaughlin	unknown		
FT360851*	162080	McLaughlin	Ireland		
FT360851*	?	?	unknown		
BY18237*	205292	Doherty	Ireland	Donegal	
BY18237*	N112614	Cummings	unknown		
F12365*	424586	Bacon	USA		
BY11570*	?	?	unknown		
BY11570*	?	?	unknown		
BY20537*	?	?	unknown		
BY18239*	324585	Donnelly	Ireland		
BY18239*	IN103855	Donnelly	Ulster		
FT116695*	IN100259	Kane	Ireland	Down	
FT116695*	417060	Kane	Ireland		
BY4140*	M114729	Woods	Ireland		
BY4140*	?	?	unknown		
A14796*	467977	Owsley	USA		
A14796*	26340	Owsley	USA		
BY54966*	B745399	Meikle	Scotland		
BY18215*	H1450	Mickle	Ulster		
BY18215*	IN52516	MacInotsh	Canada		
FT101445*	316832	Moore	Ireland		
BY198131*	B727371	Teat	USA		
BY198131*	?	?	unknown		
BY198131*	?	?	unknown		
FT62784*	181266	Taylor	unknown		
FT62784*	?	?	unknown		
FT62784*	?	?	unknown		
FT381714*	896190	Dunbar	USA		Dunbar family
FT381714*	932080	Dunbar	unknown		
BY121797*	489623	Dunbar	USA		
BY121797*	982432	Dunbar	unknown		
BY121797*	949120	Dunbar	unknown		
BY68646*	124714	Dunbar	Ireland	Tyrone	
BY68646*	66076	Dunbar	Scotland	East Lothian	
BY18214*	771644	Dunbar	Ulster		
BY18214*	316290	Dunbar	Australia		
BY18214*	205549	Dunbar	unknown		

BY20513*	IN74806	Dunbar	Ireland	Tyrone	
BY20513*	84272	Dunbar	Ulster	Antrim	
BY20513*	74862	Dunbar	Scotland		
FT168149*	79573	Dunbar	unknown		
FT168149*	60289	Dunbar	unknown	Tyrone	
BY20512*	800102	Dunbar	unknown		
BY20507*	339096	Marshall	England		
S603*	229953	Daniel	Scotland		
Y101940*	?	?	Ireland		
FT94703*	54497	McDonnell	Ireland		
FT94703*	B177505	McDonald	South Africa		
FGC4113*	214661	Bellew	Ireland		
FGC34066*	288910	McDermott	Ireland		
FGC34066*	964737	McDermott	USA		
FGC7929*	N262283	McAnaul	Ireland		
FGC7929*	145320	Byrne	Ireland		
FT135247*	512724	McGlade	Ulster		
FT135247*	SI14270	Stewart	unknown		
FT131975*	N56446	DeArment	Ulster		
FT131975*	?	?	unknown		
BY196235*	901429	Cunningham	Ireland		
FT190880*	191248	Devin	Ireland		
FT190880*	?	?	unknown		
FGC16740*	271826	O'Flaherty	Ireland		
FGC16740*	453626	Sullivan	Ireland		
FGC16740*	?	?	Ulster		
BY62083*	IN113055	Quinn	Ulster		
FT233585*	?	?	unknown		
BY104994*	229236	McMahon	Ireland	Limerick	
BY104994*	362007	Queen	USA		
FTA36796*	49108	Clark	England		
FTA36796*	?	?	unknown		
Y40047*	470146	Harvey	Ireland		
FGC16737*	?	?	unknown		
BY46558*	602973	Harvey	Ireland		
BY46558*	87053	Harvey	Ireland		
FT305875*	?	?	unknown		
FTB58833*	364698	Daly	Ireland		
FTB58833*	?	?	unknown		
FTA28844*	297886	Fox	England	Birmingham	
FTA28844*	?	?	unknown		
FTA8453*	247330	Clancy	Ireland		
FTA8453*	?	?	Ireland		
FT226110	424462	Clark	Ireland	Sligo	

FT220410	?	?	unknown		
FGC19839*	591033	Gilmore	USA		
FT440361*	70661	Turner	unknown		
FT440361*	?	?	unknown		
FGC19833*	332509	Jack	Scotland		Robertson family
FGC19832*	IN92915	McGregor	unknown		
FGC19832*	109136	Livingston	unknown		
FT394633*	947907	Stranahan	Ulster	Down	
FT394633*	?	?	USA		
FTA62295*	974350	Stranahan	Ulster		
FTA62295*	948233	Stranaghan	Ulster	Down	
FTA62295*	962309	Stranaghan	Ulster		
FTA60830*	940255	Stranaghan	Ulster	Down	
FTA60830*	?	?	Ulster		
FT163382*	?	?	unknown		
FT163382*	?	?	unknown		
FGC62844*	96449	Robertson	Scotland		
FGC62844*	B581447	Robertson	Scotland		
FT91808*	142567	Downie	Scotland		
BY35762*	264260	Brine	unknown		
BY35763*	25561	Robertson	Scotland	Aberdeenshire	
BY35763*	B82150	Robertson	Scotland		
BY46245*	197686	Robertson	Scotland		
BY46245*	?	?	Scotland		
FGC19838*	94298	Norton	unknown		
BY164458*	?	?	Scotland		
BY50003*	666778	Robertson	Scotland	Angus	
BY71289*	612942	Robertson	Scotland	Aberdeenshire	
BY71289*	?	?	Scotland		
FGC19830*	73366	Robertson	Scotland	Perthshire	
FGC19830*	?	?	Scotland		
BY94348*	100011	Robertson	Scotland	Perthshire	
BY94348*	IN116904	Robertson	unknown		
BY94348*	?	?	unknown		
BY123115*	?	?	Scotland		
BY123115*	353672	Gray	New Zealand		
FGC57920*	31363	Robertson	Scotland	Perthshire	
FGC57920*	255825	Robertson	Scotland	Perthshire	
FGC19837*	26578	Robertson	Scotland		
FGC19837*	B262981	Grant	England		
FT121579*	?	?	Ulster		
FT121579*	?	?	unknown		
FTC23635*	?	?	unknown		
FTC23635*	?	?	unknown		

Y128532*	241585	Hughes	Ireland		
FT121822*	543284	Canning	Ireland		
FT121822*	670219	Hughes	Ulster		
FT124047*	?	?	USA		
FT124047*	45359	McCollister	unknown		
A9885*	B213489	Fitzmartin	Ireland		
FTA57046*	371830	Short	Ireland		
FTA56417	B813286	Short	Ireland		
	B721853	Short	Ireland		
	?	?	unknown		
FTB9936	358587	Campbell	Ireland	Sligo	
	?	?	unknown		
BY200365*	165968	Short	Ireland		
BY200365*	?	?	unknown		
BY200822	36547	Short	England		
	201125	Short	USA		
FT74770*	IN48076	Keogh	Ireland		
FT74770*	N55208	Graham	Ulster		
BY67989*	629224	Hughes	Ireland		
FT108626*	56834	Campbell	Ireland		
FT108626*	967259	Campbell	USA		
FTA82426*	968843	McQuaid	unknown		
FTA99213*	B4760	McQuaid	Ireland	Tyrone	
FTA99213*	972682	McQuaid	unknown		
BY167328*	872644	Campbell	Ireland		
BY167328*	10967	Campbell	Ulster		
FTB5635*	324218	Campbell	Ireland		
FTB77612	?	?	UK		
	847332	Campbell	USA		
BY167479*	?	?	Ireland		
BY167479*	160447	Campbell	Ulster		
BY148443*	597549	McClafferty	Ireland		
FT405220*	962311	McSorley	unknown		
FT405220*	IN89677	McSorley	unknown		
FT405220*	?	?	unknown		
BY50792*	972977	Campbell	Ireland		
BY50792*	315690	McCurrie	Ireland		
BY50792*	N91328	McWilliams	Ulster	Derry	
BY50792*	?	?	Ulster		
BY50792*	?	?	Canada		
BY50792*	?	?	unknown		
FTB71305*	8755	Slaven	Ireland		
FTB71305*	?	?	Ireland		
FTB71305*	?	?	unknown		

BY20521*	145350	Lane	Ulster		
BY20521*	?	?	Ulster		
BY20521*	43598	Lane	USA		
BY197023*	252120	McKinney	Scotland		
BY197023*	928536	Napier	unknown		
BY140369*	38423	McGill	Scotland		
FGC23592*	294149	Mackie	Ireland		
FT95366*	?	?	Ireland		
FT96154*	?	?	unknown		
FT371901*	N171956	Magee	USA		
FT371901*	320282	McGee	unknown		
FT371901*	?	?	unknown		
BY216377*	252843	McDonald	Ireland		
BY157724	814327	Tierney	Ireland		
	?	?	Ireland		
FT56993*	804857	Kelley	Ireland		
FT56993*	?	?	unknown		
FT358037*	857078	Kelly	Ireland		
FT358037*	?	?	unknown		
FT58042*	MI14704	Kelly	Ireland		
FT58042*	?	?	unknown		
FT351135*	?	?	unknown		
FT351135*	?	?	unknown		
	?	?	unknown		
BY112990*	B292086	McNally	Ireland	Donegal	McAnally of Cenel Moain
BY112990*	?	?	unknown		
BY18201*	964217	McAnally	Scotland		
BY18201*	750862	McAnally	unknown		
BY18201*	256055	Davis	unknown		
BY18201*	?	?	unknown		
FTC14656*	365786	McAnally	Scotland		
Y11250*	B449166	McAnally	Scotland		
Y11250*	524192	McAnally	Scotland		
BY13070*	51536	Gormley	Ireland	Donegal	Ó Goirmleadhai gh (Graham) of Cenel Moain
BY13070*	?	?	Ireland		
BY13069*	820239	Graham	USA		
BY13069*	167346	Graham	unknown		
A12547*	586759	Graham	USA		
A12547*	B122909	Graham	USA		
FGC57760*	865431	Maplethorpe	England		
FT131003*	?	?	Ireland		
FT131003*	B316160	McPherson	USA		
BY20516*	?	?	Scotland		
BY20516*	316891	Schilling	unknown		

<i>BY45355*</i>	179218	McLean	Scotland	Tiree (Argyll)	
<i>BY49900*</i>	308488	Linn	Ireland		
<i>BY49900*</i>	669937	McQueen	Scotland	Renfrewshire	
<i>BY49900*</i>	B107745	Mierke	USA		
<i>FT32818*</i>	?	?	Ireland		
<i>FT32300*</i>	?	?	unknown		
<i>FT32300*</i>	?	?	unknown		
<i>FGC19865*</i>	902104	Scott	Scotland		Clann Eóghain (Ewing) of Cowal, Argyll
<i>BY203817*</i>	868493	Ewing	Scotland		
<i>BY203817*</i>	133644	Ewing	USA		
<i>FGC19863*</i>	105696	Ewing	Ulster		
<i>FGC19863*</i>	950698	Ewing	unknown		
<i>FGC19863*</i>	915940	Ewing	unknown		
<i>FTA76741*</i>	54199	Ewing	Ireland		
<i>FTA76741*</i>	171027	Ewing	Ulster	Tyrone	
<i>FTA76741*</i>	157034	Ewing	unknown		
<i>FTB33696*</i>	32942	Ewing	Ireland		
<i>FTB33696*</i>	N58341	Ewing	Scotland		
FT2750	330213	Ewing	Ireland	Derry	
	869513	Ewing	unknown		
<i>FTB30270*</i>	136217	Ewing	Scotland		
<i>FTB30270*</i>	?	?	Scotland		
<i>FTA76740*</i>	645700	Ewing	Ireland		
<i>FTA76740*</i>	?	?	unknown		
<i>BY191087*</i>	260821	Ewing	Scotland		
<i>BY190136*</i>	223603	Ewing	unknown		
<i>BY190136*</i>	867866	Ewing	unknown		
<i>FTA16770*</i>	861338	Ewing	USA		
<i>FTA16770*</i>	?	?	unknown		
M8081	26605	Ewing	Scotland		
	919522	Ewing	Scotland		
	227184	Ewing	USA		
<i>FGC19862*</i>	215509	Ewing	Ireland		
<i>FGC19862*</i>	372169	Ewing	USA		
<i>FGC19862*</i>	938819	Ewing	USA		
<i>FT193130*</i>	134249	Ewing	unknown		
<i>FT193130*</i>	IN67931	Ewing	unknown		
<i>BY18238*</i>	65018	Ewing	Ireland	Ulster	
<i>BY18238*</i>	200136	Ewing	Ireland	Donegal	
<i>FTA43928*</i>	519738	Madden	Ulster	Derry	
<i>FTA43928*</i>	?	?	unknown		
<i>BY18212*</i>	458321	Campbell	Scotland		
<i>BY18212*</i>	153857	Campbell	Scotland		
	16433	Adams	unknown		

BY146494	?	?	unknown		
	?	?	unknown		
FGC65688*	?	?	Ireland		
FGC65688*	?	?	Ireland		
FGC65688*	?	?	unknown		
BY18204*	392050	O'Hair	Ireland		
BY18204*	731104	O'Hair	Ireland		
FGC57762*	N58492	Carr	Ireland	Armagh	
FGC57762*	114753	Carr	Ireland	Derry	
FGC57762*	729366	Carr	UK		
FGC57762*	?	?	unknown		
BY66397*	582630	O'Brien	Ireland		
BY184866*	343074	Mullins	Ireland		
BY184866*	?	?	Ireland		
BY160010*	IN29260	Ulland	Norway		
FT115386*	964359	Minnis	Ireland		
FT115386*	?	?	unknown		
S590*	341486	Donnelly	Ireland	Louth	
S590*	?	?	Ireland		
S590*	?	?	USA		
S590*	M110597	McHugh	unknown		
FT282859*	B421269	Mullaghan	Ireland		
FT266983*	IN97433	Kilcoyne	unknown	Mayo	
FT266983*	?	?	unknown		
FTB27590*	245189	McGahey	UK		
FTB27590*	873967	McGaughey	USA		
FTB27590*	B587596	McGaughey	USA		
FTB27590*	936027	Armstrong	unknown		
FTB27590*	262848	McGaughey	unknown		
FTB27590*	?	?	unknown		
FT458207*	B391313	Murray	Ulster		
FT458207*	589854	McElhaney	Scotland		
BY221522*	?	?	unknown		
FT165132*	92749	Morrison	Ireland		
Y58376*	371105	Quinn	Ireland	Donegal	
Y58376*	B432455	Kennedy	unknown		
FT215744*	250157	Murray	Ireland		
FT215744*	?	?	unknown		
BY18205*	42289	Burns	Ireland		
BY18205*	381321	Burns	Ireland	Wicklow	
S595*	IN95749	Sweeney	Ireland		
S595*	248468	McCluskey	USA		
FTA14514*	750354	McCluskey	Canada		
FTA14514*	IN113444	McCluskey	unknown		

FT42441*	205253	Fones	unknown		Mac Bhloscaidh (McCluskey) branch of O'Kane
FT39984*	175255	McCloskey	unknown		
BY159710*	B2724	McCloskey	Ireland		
BY159710*	2153	White	Ireland		
BY160233*	449024	Cozby	Ireland		
BY160233*	B3461	Crosby	Ireland		
BY160233*	959757	?	unknown		
BY50617*	N140525	McCloskey	Ireland	Derry	
BY50655*	154954	?	Ireland		
BY50655*	838470	McCloskey	Ulster	Derry	
FT52052*	IN57785	Cosby	Ireland		
FT52052*	571090	Cosby	Ireland		
FT52052*	IN37249	Cosby	Ireland		
FT52052*	IN37348	Cosby	UK		
FT52052*	IN112742	Cosby	unknown		
BY60479*	180326	McCluskey	Ireland		
BY60479*	IN93622	?	unknown		
BY19783*	104344	McReynolds	Ireland	Derry	
BY19782*	738594	Kane	Ireland		
BY19782*	545298	Cain	Ireland		
BY19782*	575143	McNicholl	Ireland		
BY19782*	448005	Kane	Ireland	Tyrone / Derry	
BY19782*	?	?	Ireland		
BY19782*	?	?	Ireland		
FT206485*	250301	McCain	unknown		Mac Cathain / O'Cahan (O'Kane) sept
BY137737*	975313	Cain	Isle of Man		
BY137737*	?	?	USA		
BY137737*	?	?	unknown		
FT207731*	?	?	Ireland		
FT207731*	MI45521	McNicholl	unknown		
FT47641*	285755	McCracken	Scotland		
FT47641*	28687	McHenry	USA		
FTA56433*	105819	Henry	Ireland	Down	
FTA56433*	962947	Henry	Ireland	Down	
BY125828*	146769	Rooney	Ireland		
BY125828*	374319	Farrell	Ireland	Longford	
BY125828*	?	?	Ireland		
BY77548*	74163	Monnelly	Ireland	Mayo	
BY135188	89835	Monnelly	Ireland		
	133586	Manley	Ireland		
BY184425*	576247	Keig	Isle of Man		
BY184962*	579613	Keig	Isle of Man		
BY184962*	?	?	Isle of Man		
FT375497*	112329	Byrne	Ireland		

<i>FT375497*</i>	?	?	Ireland		
<i>Y21577*</i>	N21916	John	Wales		
<i>Y23074*</i>	929426	Flanagan	Ireland		
<i>FT199058*</i>	B734992	Mealey	Ireland		
<i>FT199058*</i>	?	?	unknown		
<i>Y23075*</i>	111941	McDonald	Scotland	Isle of Skye	
<i>Y22118*</i>	333530	Fergus	Ireland	Mayo	
<i>Y22118*</i>	46126	Ferguson	Ireland		
<i>FTC41265*</i>	974772	O'Malley	unknown		
<i>Y22116*</i>	702067	Bellah	Ireland		
<i>Y22116*</i>	447417	Ballagh	Ulster	Antrim	
<i>Y22116*</i>	50124	Balloch	Scotland		
<i>BY11728*</i>	216073	McFadden	Ireland		
<i>BY11728*</i>	483194	McFadden	Ireland	Donegal	
<i>BY11728*</i>	961895	McFadden	Ireland		
<i>BY11728*</i>	939339	McFadden	Ireland		
<i>BY11728*</i>	?	?	Ireland		
<i>Y96240*</i>	B112445	<i>NPE</i>	Scotland		
<i>BY71053*</i>	310572	Molloy	Ireland		
<i>BY71053*</i>	?	?	unknown		
<i>BY71053*</i>	?	?	unknown		
<i>BY198*</i>	927924	Loughnane	Ireland		
<i>BY198*</i>	137003	Mannion	Ireland	Galway	
<i>BY198*</i>	354125	<i>NPE</i>	unknown		
<i>FT183212*</i>	?	?	unknown		
<i>FT183212*</i>	?	?	unknown		
<i>FT94609*</i>	742967	Keegan	Ireland	Longford	
<i>BY21145*</i>	?	?	Ireland		
<i>BY21151*</i>	?	?	Ireland		
<i>BY21151*</i>	?	?	Scotland		
<i>FGC40502*</i>	83143	Morgan	Ireland		
<i>FGC40501*</i>	256134	Guinn	unknown		
<i>FGC40501*</i>	?	?	unknown		
<i>Y66755*</i>	141626	Gallagher	Ireland		Mac Aodhagáin, Brehons of Connacht?
<i>Y66755*</i>	49625	Egan	Ireland		
<i>Y195212*</i>	217685	Keegan	Ireland	Louth	
<i>Y195212*</i>	IN40569	Waugh	Scotland		
<i>FTB58843*</i>	26257	Keegan	Ireland	Wexford	
<i>FTB58843*</i>	IN108501	Keegan	Ireland		
<i>FT115299*</i>	3650	Egan	Ireland	Tipperary	
<i>FT118436*</i>	863161	Hourihane	Ireland	Cork	
<i>FT118436*</i>	899291	?	unknown		
<i>BY21186*</i>	127470	Knowles	England		
<i>Y92715*</i>	480245	Davis	USA		

Y92715*	?	?	unknown			
FT96142*	IN68429	NPE	unknown			
FT97096*	364182	Fogarty	Ireland			
FT97096*	?	?	Ireland			
BY20834*	?	?	UK			
Y36587*	921423	Curley	Ireland			
BY139826*	976685	Lyons	Ireland			
BY139826*	?	?	Ireland			
FTA56326*	B158287	Donelan	Ireland	Galway		
FTA56326*	MK64704	Long	unknown			
A15878*	?	?	England			
A17853*	22549	Dunn	England		Dunn family (Ó Duinn?)	
A17853*	223895	Dunn	England			
A17851*	229837	Dunn	unknown			
FT81494*	N2231	Dunn	Ireland			
FT81494*	25019	Dunn	England			
A15877*	106001	Kimble	England	Devon		
A15877*	345617	Dunn	England			
A15877*	954445	Dunn	USA			
A15877*	866825	Kimble	USA			
A15877*	263813	Kemble	England			
A15877*	?	?	unknown			
Y132861*	262045	Dunn	unknown			
Y132861*	306061	Dunn	unknown			
BY21680*	?	Larkin?	Ireland			O'Lorcain (Larkin)
BY21673*	?	Larkin?	Ireland			
BY21672*	?	Larkin?	Ireland			
BY21672*	?	Larkin?	Ireland			
FTC14659*	?	Larkin?	Ireland			
FTC14659*	?	Larkin?	Ireland			
BY21671*	?	Larkin?	Ireland			
BY21676*	?	Larkin?	Ireland			
BY226879	897256	Larkin	Ireland	Tipperary		
	?	Larkin?	Ireland			
	?	Larkin?	Ireland			
	?	Larkin?	unknown			
	?	Larkin?	unknown			
A259*	IN30923	McCann	Ireland			
A259*	198387	May	unknown			
FT229166*	B12550	Colhoun	Ireland			
FT229166*	?	?	USA			
FT12117*	873389	Flanagan	Ireland			
FT12117*	?	?	Ireland			

FT385118*	951998	Parrett	USA		
FT384406*	905294	Moore	Ireland	Galway	
FT384406*	?	?	England		
BY18122*	204366	Milliken	Ireland		
BY18122*	41269	Greenwood	unknown		
BY18115*	312908	Connelly	Ireland		Clan Murtagh O'Connor (royal chiefs)
BY18115*	IN91150	NPE	Australia		
FT16709*	917866	Connor	Ireland		
A21774*	64493	O'Connor	Ireland		
FT26655*	686729	O'Connor	Ireland	Mayo	
FT26655*	500346	McDermott	Ireland		
BY21221*	N85609	Connor	Ireland		
Y98327	573417	Stackpoole	Ireland		
	917357	Stack	unknown		
BY18179*	H1135	McManus	Ireland		
FT411594*	H1547	McManus	Ireland		
FT194071*	B582135	McManus	Ireland		
FT194071*	H1081	McManus	Ireland	Roscommon	
FT194071*	B537184	McManus	Ireland		
FT194071*	?	?	unknown		
PH1344	519944	O'Connor	Ireland		
	?	?	unknown		
BY18182*	H1587	McManus	Ireland		
BY18182*	212159	McManus	Ireland		
BY18182*	170815	Snipes	UK		
FT405992	129748	McManus	unknown		
	10351	McManus	unknown		
BY132827*	?	?	Ireland		
BY132827*	?	?	unknown		
BY18119*	36712	O'Snaugimnes SV	Ireland	Limerick	
BY18119*	208358	Phillips	England	Staffordshire	
FT206077*	288834	McNew	Scotland		
FT206077*	900644	Harvey	USA		
FT77622*	B278958	Conry	Ireland	Mayo	
FT77622*	IN25449	Dalton	England		
BY18180*	129164	McHugh	Ireland		
BY18180*	?	?	Ireland		
BY18180*	251681	Cassidy	unknown		
FGC42416*	N113849	Depew	USA		
FGC42416*	22044	Gray	unknown		
FGC42416*	167593	Gray	unknown		
FGC42416*	?	?	unknown		
FGC42412*	?	?	unknown		
FT64290*	964897	Owens	Ireland		

FTB32538*	?	?	Ireland		
FTB39222*	?	?	Ireland		
FTB39222*	?	?	unknown		
FTB39222*	?	?	unknown		
FT63988*	828530	Bolan	Ireland		
FT63988*	N3734	Mullany	Ireland		
FTA8007*	IN111292	Quirke	Ireland	Galway	
FTA8007*	B556104	Quirke	Ireland	Galway	
FT109339*	737265	Keegan	Ireland		
FT109135*	51172	Coleman	Ireland	Sligo	
FT109135*	?	?	Ireland		
BY60733*	17319	Cornwell	England		
BY60733*	245678	Cornwell	England		
BY60733*	83058	Higgins	England		
BY60733*	?	?	USA		
BY60733*	71527	Higgins	unknown		
BY60733*	?	?	unknown		
FTB98298*	?	?	unknown		
FTB98298*	?	?	unknown		
FTB98652*	17907	Cornwell	unknown		
FTB98652*	?	?	unknown		
A10525*	267031	O'Connolly	Ireland		
A10525*	?	?	Ireland		
A10525*	?	?	Ireland		
A10525*	?	?	Ireland		
A21746*	?	?	Ireland		
A21746*	?	?	Ireland		
A21746*	?	?	unknown		
A21296*	152023	Connolly	Ireland		
FT146360*	239109	Kennelly	Ireland		
FT146360*	?	?	unknown		
BY18145*	IN56168	O'Flaherty	Ireland		
BY18145*	?	?	unknown		
YFS1251634*	322368	Clardy	USA		
YFS1251634*	B91935	Clardy	unknown		
FGC65253*	B143803	McDonagh	Ireland		
FGC65253*	868351	McDaniel	Ireland		
FGC65253*	458941	Keaney	Ireland		
FGC65253*	MK46228	Cochran	unknown		
FGC65253*	930784	McDonald	unknown		
FT15936*	?	?	Ireland		
FT15936*	515402	McDaniel	Scotland		
FT15936*	875180	McDaniel	unknown		
A5902*	145308	Logan	Ireland		

Ó
Conghalaigh
(O'Conolly)

<i>BY108285*</i>	B46786	Murphy	Ireland	Meath	
<i>Y52954*</i>	IN113612	Murphy	Ireland		
<i>Y52954*</i>	?	?	unknown		
<i>S6687*</i>	341877	Duffy	Ireland	Longford	
<i>FT101173*</i>	930690	Duffy	Ireland		
<i>FT101173*</i>	IN22554	Duffy	Ireland		
<i>FGC55184*</i>	IN58736	McClellan	Ireland	Cavan	
<i>FGC55181*</i>	IN41984	Victory	Ireland		
<i>FT149472*</i>	B406821	Coffin	unknown		
<i>FT149472*</i>	?	?	unknown		
<i>FGC55175*</i>	?	?	unknown		
<i>FT207619*</i>	980935	Woodson	England		
<i>FT208112*</i>	256492	Masterson	Ireland		
<i>FT208112*</i>	?	?	unknown		
<i>FT53958*</i>	MK65483	Kerns	unknown		
<i>FTA50015*</i>	?	?	unknown		
<i>F25081*</i>	MK72228	Keirns	Ireland		
<i>F25081*</i>	MK25878	Keirns	Ireland		
<i>BY18125*</i>	251396	Kernan	Ireland		
<i>BY18125*</i>	?	?	Ireland		
<i>FT130287*</i>	160997	Gorry	Ireland	Westmeath	
<i>BY9397*</i>	793777	Fraher	Ireland	Cavan	
<i>FT130810*</i>	132906	McKelaine	Ireland	Meath	
<i>FT130810*</i>	IN25704	McLain	Ireland	Offaly	
<i>FT188369*</i>	109460	Fanning	Ireland		O'Fionnáin (Fanning) family
<i>FT188369*</i>	225234	Fanning	USA		
<i>BY98600*</i>	189192	McDaniel	Scotland		
<i>BY98600*</i>	982240	McDaniel	USA		
<i>FTB91158*</i>	94576	Fanning	Ireland		
<i>FTB91158*</i>	155262	Fanning	Ireland		
<i>FT40925*</i>	159415	Fannin	USA		
<i>FT40925*</i>	208687	Fannin	unknown		
<i>FTC11832*</i>	963440	Fannin	USA		
<i>FTC11832*</i>	120849	Fannin	USA		
<i>FTC11830*</i>	79127	Fannin	USA		
<i>FTC11830*</i>	188168	Fannin	USA		
<i>FTC11830*</i>	933146	Fanning	USA		
<i>FGC59200*</i>	B59960	Callaghan	Ireland		
<i>BY68058*</i>	41559	Carney	Ireland		
<i>BY68058*</i>	?	?	unknown		
<i>BY38401*</i>	133269	Keleghan	Ireland		
<i>BY18132*</i>	611553	Callahan	Ireland		
<i>BY18132*</i>	718754	Braswell	USA		
<i>BY18132*</i>	630379	Harris	USA		

BY18132*	861048	Harris	USA		
BY18132*	?	?	USA		
BY18132*	?	?	USA		
FGC59201*	?	?	unknown		
FGC59205*	?	?	unknown		
FGC59206	?	?	unknown		
	?	?	unknown		
BY18134*	?	?	Ireland		Mág Samhradháin (McGovern) of Uí Briúin Bréifne
BY18134*	473561	Riley	England		
BY147989*	301214	McGovern	Ireland	Cavan	
BY147989*	117924	McGovern	Ireland		
BY147989*	?	?	unknown		
FTA70069*	30369	McGovern	Ireland	Leitrim	
FTA70069*	43968	McGovern	Ireland		
FT76652*	N116040	Magauran	Ireland		
FT222207*	321526	McGovern	Ireland		
FT222207*	529496	McGovern	Ireland		
FGC34296*	171072	Goulding	Ireland	Dublin	
FGC34296*	?	?	unknown		
FT54120*	?	?	unknown		
FT54120*	395408	Crockett	unknown		
FT67264*	256338	Dolan	Ireland		
FT68813*	341038	Cunningham	Ireland		
FT68813*	IN45063	Cunningham	Ireland		
BY38400*	?	?	Ireland		
BY38391*	177480	McGovern	Ireland	Cavan	
BY38391*	239642	McGovern	Ireland	Leitrim	
BY3338*	409157	Gainer	Ireland		
BY3338*	B75592	Farrell	Ireland		
BY3338*	IN22135	Malone	Ireland		
BY3338*	?	?	unknown		
BY3338*	?	?	unknown		
BY38364*	544909	Rorke	Ireland		O'Rourke sept of W Breifne?
BY38364*	?	?	Ireland		
FT194464*	917605	Tully	Ireland		
FT192256*	B293202	Farrell	Ireland		
FT192256*	?	?	Ireland		
BY18137*	949256	Marr	unknown		
BY18137*	565	Moody	unknown		
BY167936*	138208	Fitzsimmons	Ireland	Meath	
BY167936*	N97274	Caffrey	Ireland	Meath	
BY167936*	?	?	Ireland		
BY167936*	924311	Matthews	USA		
BY18113*	B424715	McAnaw	Ireland		

BY18113*	?	?	Ireland		
BY203677*	962874	Padden	Ireland		
FT111805*	B178889	McFadden	Ireland		
FT111805*	MK66371	McFadden	unknown		
BY29015*	436652	Forde	Ireland		
FT125252*	878637	?	unknown		
FT125252*	?	?	unknown		
BY11723*	487839	Carroll	Ireland		
BY11723*	B395578	Nelson	Ireland		
BY11723*	?	?	unknown		
FT89237*	229234	Flinn	Ireland		
FT89237*	N127864	Flynn	Ireland	Mayo	
FTC75708*	?	?	Ireland		
FTC75708*	?	?	Ireland		
Y132137*	115042	Lawson	Scotland		
Y132147*	B116235	Donaghey	Ireland		
Y132147*	82395	Donohoe	Ireland	Tyrone	
A11846*	B50304	Ball	Ireland		
A11846*	?	?	unknown		
Y95844*	?	?	Ireland		
FT177648*	635203	Monroe	Ireland		
FT177648*	?	?	Ireland		
FT252159*	676401	Munro	Scotland		
FT252159*	MK70005	Monroe	USA		
A883*	396740	O'Rourke	Ireland		
FT223218*	B205803	Clark	Ireland		
FT223218*	N150400	Clark	England		
FGC37744*	MI35219	Reilly	Ireland		
FGC37744*	376840	Reilly	Ireland		
FGC37744*	?	?	Ireland		
BY57971*	110051	Keenan	Ireland	Monaghan	
BY57971*	?	?	Ireland		
FTA49887*	?	?	Ireland		
FTA49887*	943404	McCall	unknown		
Y78632*	449752	O'Brien	Ireland	Meath	
Y78632*	?	?	unknown		
FT168924*	206868	Bryan	Ireland		
FT168924*	?	?	USA		
FGC78017*	409605	O'Brien	Ireland	Meath	
FGC78017*	52793	O'Brien	Ireland	Cavan	
A887*	111909	Burns	Ireland		
FTC80977*	339659	Flynn	Ireland	Meath	
FTC80977*	B870672	Reilly	Ireland		
FT129329*	909439	Riley	Ireland		

<i>FT129329*</i>	?	?	Ireland		Ó Raghallaigh (O' Reilly) kings of East Breifne
<i>BY21240*</i>	B507857	Reilly	Ireland	Meath	
<i>BY21239*</i>	699297	Reilly	Ireland		
<i>FT128962*</i>	B221330	O'Riley	Ireland		
<i>FT128962*</i>	IN94295	Reilly	Ireland		
<i>Y138490*</i>	?	?	Ireland		
<i>Y138490*</i>	?	?	unknown		
<i>FT375780*</i>	N234372	Reilly	Ireland	Cavan	
<i>FT375780*</i>	IN86639	Reilly	Ireland	Cavan	
<i>FT375780*</i>	473813	Riley	unknown		
<i>Y131835*</i>	146333	Riley	Ireland		
<i>Y131835*</i>	IN76077	Reilly	Ireland		
<i>Y131835*</i>	964888	Gallagher	Ireland		
<i>Y131835*</i>	IN74607	Gray	Ireland	Meath	
<i>Y131835*</i>	B7571	Riley	Ireland		
<i>Y131835*</i>	254697	Reilly	Ireland		
<i>Y131835*</i>	498677	Riley	USA		
<i>Y131835*</i>	?	?	unknown		
<i>Y131834*</i>	810143	Riley	Ireland		
<i>Y131834*</i>	B486521	O'Reilly	unknown		
<i>FTC60557*</i>	288433	O'Reilly	Ireland		
<i>FTC60557*</i>	IN105815	Wilson	Ulster		
<i>FT76199*</i>	108970	McPherson	UK		
<i>FT76199*</i>	689148	Riley	unknown		
<i>Y54272*</i>	?	?	Ireland		
<i>Y54272*</i>	332994	Hamilton	Ulster		
<i>Y54272*</i>	?	?	unknown		
<i>FT390508*</i>	365434	O'Reilly	Ireland		
<i>FT390508*</i>	112910	Bloomer	Ireland		
<i>FGC5939*</i>	118647	Headen	Ireland	Carlow	
<i>FGC5939*</i>	285194	Conneely	Ireland		
<i>FT396104*</i>	928605	Kinney	Ireland		
<i>FT396104*</i>	B463665	Kelley	unknown		
<i>FTA43254*</i>	IN25527	Reid	Ireland		
<i>FT185820*</i>	B3072	Carty	Ireland	Mayo	
<i>FT353255*</i>	780331	O'Brien	Ireland		
<i>FT353255*</i>	?	?	unknown		
<i>FT188116*</i>	?	?	unknown		
<i>FT184295*</i>	?	?	Ireland		
<i>FT185446*</i>	252712	Flannigan	Ireland		
<i>FT185446*</i>	IN72752	Flanagan	unknown		
<i>FT62840*</i>	B245867	Leyden	Ireland		
<i>FT63002*</i>	357632	Mannion	Ireland	Wexford	
<i>FT63002*</i>	?	?	Ireland		

<i>FT63159*</i>	57443	Hannon	Ireland	Roscommon	
<i>FT63159*</i>	?	?	Ireland		
<i>FT103653*</i>	568436	Butler	Ireland		
<i>FT103653*</i>	270413	Smith	unknown		
<i>FTA12467*</i>	B605928	Donnellan	unknown		
<i>FTA12467*</i>	?	?	unknown		
<i>BY2681*</i>	56154	Howle	England		
<i>BY2681*</i>	68205	Howle	England		
<i>BY167265*</i>	N4338	Cunningham	Ireland	Sligo	
<i>BY167265*</i>	205735	Cunningham	unknown		
<i>BY165369*</i>	487325	Kenny	Ireland		
<i>BY165369*</i>	IN58015	Kenny	Ireland		
<i>BY165159*</i>	B323360	Kenny	Ireland		
<i>BY165159*</i>	IN105755	Kenny	Ireland	Galway	
<i>BY20588*</i>	266224	Canavan	Ireland		
<i>FGC36497*</i>	152299	Carney	Ireland	Mayo	
<i>FGC36499*</i>	207196	Cronin	Ireland		
<i>FT60131*</i>	272371	Davison	USA		
<i>FT60131*</i>	?	?	unknown		
<i>BY160768*</i>	293508	Dorsey	Ireland		
<i>BY160768*</i>	?	?	Ireland		
<i>A21766*</i>	?	?	Ireland		
<i>A21766*</i>	714916	Dolan	USA		
<i>BY20816*</i>	344069	Halloran	Ireland		O'Halloran of Galway
<i>BY20816*</i>	278587	Halloran	Ireland		
<i>BY20816*</i>	365086	Halloran	Ireland		
<i>BY20816*</i>	B125254	Halloran	Ireland		
<i>BY20816*</i>	MK33974	Halloran	Ireland	Galway	
<i>BY20816*</i>	269999	Halloran	Ireland	Galway	
<i>BY20816*</i>	302891	Halloran	Ireland	Galway	
<i>BY20816*</i>	MK33976	Halloran	Ireland	Galway	
<i>BY20816*</i>	344045	Halloran	Ireland	Galway	
<i>BY20816*</i>	437723	Halloran	Ireland	Galway	
<i>A6925*</i>	B351923	Murphy	Ireland		
<i>A6925*</i>	531470	Conner	Ireland		
<i>BY18157*</i>	?	?	unknown		
<i>FT283236</i>	88905	Degnen	Ireland	Cavan	
	?	?	Ireland		
<i>FTA26855*</i>	?	?	Ireland		
<i>FTA26855*</i>	?	?	unknown		
<i>PH1690*</i>	?	?	unknown		
<i>FT219063*</i>	462147	Samson	Ireland		
<i>BY20594*</i>	?	?	Ireland		
<i>BY20594*</i>	923804	Rowley	unknown		

BY20593*	?	?	Scotland		MacDiarmad a/ McDermott dynasty of Moyslurg
FT441685*	B432078	McCormick	Ireland		
FT441685*	940049	McCormack	Ireland		
FTA43921*	246499	McDermott	Netherlands		
FTA41794*	?	?	Ireland		
FTA41794*	?	?	unknown		
BY20589*	N55831	<i>Desertspring</i>	unknown		
BY20589*	?	?	unknown		
FT217214*	MK65894	Dyer	Ireland		
FT217214*	B337779	Morris	Australia		
BY66378*	925681	Black	Ulster		
BY66378*	353361	Black	Ulster		
BY66378*	MI44059	Dickson	Ulster	Tyrone	
BY66378*	?	?	Ulster		
FGC36992*	N43361	Fallon	Ireland		
FGC36992*	?	?	Ireland		
DF105*	366125	Lydon	Ireland		
DF105*	284336	McCune	Ireland		
DF105*	67391	Cox	Ireland		
DF105*	B49205	<i>DuMont</i>	Ireland		
DF105*	228189	Kenney	Ireland		
DF105*	B446405	MacDonald	Scotland		
DF105*	266731	Lind	Scotland	Lanarkshire	
DF105*	62620	Straughan	Scotland	Kinkardinshir e	
DF105*	198123	McQuillen	Scotland		
DF105*	715707	Stokes	USA		
DF105*	B11847	Hunter	unknown		
DF105*	?	?	unknown		
DF105*	?	?	unknown		
FTB89264*	?	?	Ireland		
FTB89264*	975908	Minnis	unknown		
FT236610*	837135	Kiernan	Ireland		
FT236610*	MK33920	Kiernan	Ireland		
FTB81706*	?	?	Ireland		
FTB81706*	?	?	unknown		
BY35728*	?	?	Ireland		
FT354023*	520362	Loughney	Ireland		Mayo
BY54743*	218512	Loughney	Ireland		
BY54743*	959955	Loughney	Ireland		
BY54743*	857276	Loughney	Ireland		
FT13680*	?	?	Ireland		
FT13680*	955651	Loughney	unknown		
FT248889*	MK28721	Loughney	Ireland		
FT248889*	IN87472	Loughney	Ireland		

<i>FT248889*</i>	336067	Loughney	Ireland		U Lachtna (Loughney)
<i>FT15402*</i>	430934	Loughney	Ireland		
<i>FT15402*</i>	?	?	Ireland		
<i>FT20486*</i>	MK43517	Loughney	Ireland		
<i>FT20486*</i>	MK30039	Loughney	Ireland		
<i>FT268490*</i>	503712	Loughney	Ireland		
<i>FT268490*</i>	520363	Loughney	Ireland		
<i>FT61877*</i>	551033	Loughney	Ireland		
<i>FT61877*</i>	?	?	Ireland		
<i>FTC610*</i>	345972	Enrougthy	Ireland		
<i>FTC610*</i>	181861	Campbell	Scotland		
<i>FTC610*</i>	N115442	Gibb	Scotland		
<i>FTC610*</i>	?	?	unknown		
<i>BY93031*</i>	?	?	Scotland		
<i>FT200220*</i>	?	?	unknown		
<i>FTB63556*</i>	?	?	unknown		
<i>FTB63923*</i>	?	?	Ireland		
<i>FTB63923*</i>	?	?	unknown		
<i>FTB63923*</i>	?	?	unknown		
<i>FT308796*</i>	?	?	unknown		
<i>FT309522*</i>	921466	Carolan	Ireland		
<i>FT309522*</i>	198163	Carroll	Ireland	Meath	
<i>BY84482*</i>	N42699	Mullally	Ireland		
<i>BY109983*</i>	349866	Buckner	USA		
<i>FTA38536*</i>	853539	Buckner	unknown		
<i>FTA38536*</i>	949408	Buckner	unknown		
<i>BY62757*</i>	182900	Curtis	unknown		
<i>FT181115*</i>	312752	Reilly	Ireland		
<i>FT181115*</i>	B675434	Riley	Ireland	Mayo	
<i>BY145238*</i>	919768	Kerrigan	Ireland		
<i>FT116143*</i>	759300	O'Neill	Ireland		
<i>FTC36168*</i>	IN102000	O'Malley	Ireland	Galway	
<i>FTC27440*</i>	778791	O'Maille	Ireland		
<i>FTC27440*</i>	961903	O'Malley	unknown		
<i>FT280617*</i>	590126	O'Malley	unknown		
<i>BY153298*</i>	20111	Burks	unknown		
<i>BY63643*</i>	179328	Burks	Ireland		
<i>BY63643*</i>	499187	Burks	USA		
<i>FT91273*</i>	B102343	Conway	Ireland	Dublin	
<i>FT91273*</i>	?	?	unknown		
<i>BY167209*</i>	856776	Doherty	Ireland		
<i>BY167209*</i>	902949	Doherty	USA		
<i>BY167209*</i>	950125	Doherty	unknown		
<i>BY35731*</i>	MK74774	Beaty	Ireland		

<i>BY35736*</i>	483056	Gaffney	Ireland	Donegal	
<i>BY35730*</i>	43481	Maley	Ireland	Donegal	
<i>BY35760*</i>	897270	O'Malley	Ireland		
<i>BY35760*</i>	779131	O'Malley	Ireland	Mayo	
<i>BY35760*</i>	?	?	Ireland		
<i>BY35760*</i>	590113	Malley	unknown	Mayo	
<i>FTC73000*</i>	B436378	O'Malley	Ireland	Mayo	
<i>FTC74597*</i>	?	?	Ireland		
<i>FTC74597*</i>	?	?	unknown		
<i>FT86146*</i>	IN77732	O'Malley	Ireland	Mayo	
<i>FT86146*</i>	936481	Malley	Ireland		
<i>FT86146*</i>	IN104242	O'Malley	Ireland		
<i>FT86146*</i>	951869	O'Malley	Ireland		
<i>FT86146*</i>	980852	O'Malley	unknown		
<i>FTC67000*</i>	976196	O'Malley	Ireland	Galway	
<i>FTC68757*</i>	BP41562	O'Malley	Ireland	Mayo	
<i>FTC68757*</i>	BP41340	O'Malley	Ireland	Mayo	
<i>FTA90351*</i>	949804	O'Malley	unknown		
<i>FTA90351*</i>	?	?	unknown		
<i>FT87077*</i>	B455552	O'Mailia	Ireland		
<i>FT87077*</i>	411989	Malley	unknown		
<i>BY181019*</i>	549939	O'Malley	Ireland	Mayo	
<i>BY181019*</i>	IN26578	Melia	Ireland	Louth	
<i>FTB75385*</i>	B857730	O'Malley	Ireland		
<i>FTB75385*</i>	N10711	Melia	Ireland	Liverpool	
<i>FT145889*</i>	N12063	Malay	Ireland	Middlesex	
<i>FT145889*</i>	?	?	Ireland		
<i>FT200886*</i>	864282	Arnold	Ireland		
<i>FT200886*</i>	?	?	unknown		
<i>FT17642*</i>	974390	Miller	Scotland	Glasgow	
<i>FT319138*</i>	172567	Geoghegan	Ireland	Dublin	
<i>FT319138*</i>	398713	Reid	USA		
<i>FTA30104*</i>	B692321	Broom	England		
<i>FTA30104*</i>	B147442	Smith	unknown		
<i>BY67410*</i>	236833	Garner	Ireland		
<i>BY67410*</i>	91704	Kelly	Ireland	Galway	
<i>BY67410*</i>	B292152	Kelley	Ulster		
<i>BY67410*</i>	B346408	Purcell	England		
<i>BY77865*</i>	281197	Bell	Ulster		
<i>BY77865*</i>	?	?	USA		
<i>FT376896*</i>	?	?	unknown		
<i>FT19527*</i>	25998	Patterson	Scotland		
<i>FT19527*</i>	207248	Patterson	Scotland		
<i>FTB81478*</i>	105896	Fleury	Ireland	Dublin	

Ó Máille
(O'Malley) of
Umhall

FTB81478*	?	?	unknown		
FT410057*	214716	Ferguson	Ireland		
FT410057*	IN90506	Frize	Ireland		
BY63927*	47582	Leonard	Ireland		
BY63927*	?	?	Ireland		
FT407343*	?	?	Ireland		
FT407343*	N92182	Haight	USA		
FT168547*	B289773	McConnell	Ireland		
FT168547*	?	?	Ireland		
FT168685*	30030	Hair	Ireland		
FT168685*	B129113	Hair	USA		
BY153644*	925899	Dowling	England		
BY153644*	B316793	Dowling	England		
FT333860*	?	?	Ireland		
FT333860*	44243	Downen	unknown		
FT337570*	590718	Downing	unknown		
FT105225*	AM11820	?	unknown		
FT279032*	364493	Maguire	Ireland		
FT279032*	511397	Carey	Ireland		
FT279032*	?	?	unknown		
BY78601*	?	?	Scotland		
BY78601*	74227	Bell	USA		
BY154023*	927537	Scollan	unknown		
BY153877*	32456	Granary	Ireland		
BY153877*	119156	Welsh	Ireland	Monaghan	
Y61966*	B3060	Early	Ireland	Westmeath	
BY104379*	575739	Robbins	Ireland	Galway	
BY104379*	675759	Robbins	Ireland		
FTB74425*	?	?	Ireland		
FTB74425*	?	?	unknown		
FTB96231*	IN104182	Robbins	Ireland		
FTB96231*	?	?	Ireland		
BY35748*	H1044	Sherry	Ireland	Monaghan	
BY35748*	?	?	Ireland		
BY35737*	?	?	Norway		
BY35737*	?	?	unknown		
BY2859*	343491	Mullins	Ireland		Mullins family
BY2859*	237974	Mullins	Ireland		
BY2859*	?	?	unknown		
FT137069*	836511	Mullins	unknown		
BY54939*	85324	Mullins	Ireland		
BY54939*	76149	Mullins	USA		
BY54939*	N109261	Mullins	unknown		
BY54939*	B627190	Mullins	unknown		

BY21184*	227866	Power	Ireland		
BY21184*	?	?	unknown		
BY38594*	315056	O'Keefee	Ireland	Cork	
BY124890*	158415	McDonald	UK		
BY124890*	164275	McDonald	unknown		
FGC32795*	N90904	Bell	USA		
FGC32795*	105255	Bell	unknown		
BY35726*			Ireland		
BY35726*	805671	Timmons	USA		
FT28767*	?	?	unknown		
BY21182*	967294	Connors	Ireland		
BY21182*	?	?	Ireland		
FT119183*	509079	McHugh	Ireland		
FT119183*	B650298	Magee	Ulster		
BY112394*	?	?	unknown		
Y129569*	175214	Magee	Ireland	Down	
Y129569*	?	?	unknown		
FTC27849*	458238	Byrne	Ireland		
FTC27849*	?	?	Ireland		
FTA94631*	?	?	Ireland		
FTA94631*	?	?	unknown		
	?	?	unknown		
BY75562*	226129	Butler	unknown		
FT31150*	567996	Culley	USA		
FT30028*	921205	Collins	USA		
FT30028*	879052	Collins	USA		
FT61446	MK59558	Collins	USA		
	950070	Collins	unknown		
BY51523*	127661	McSharry	Ireland	Cavan	
BY51523*	651246	McGoldrick	Ireland	Leitrim	
FT198639*	860620	McGoldrick	Ireland		
FT198639*	626066	Goulding	Ireland		
FT215480*	?	?	unknown		
FT215947*	17155	Meredith	UK		
FTA17070*	132911	Meredith	USA		
FTA17070*	412602	Meredith	unknown		
FTA17070*	?	?	Ireland		
FGC9773*	B165786	McCarthy	Ireland	Roscommon	
FGC9773*	B258361	Hannan	Ireland	Leitrim	
BY129440*	950219	Kenny	Ireland	Roscommon	
BY129440*	904809	Kenny	Ireland		
BY129440*	?	?	Scotland		
BY129440*	B755343	Priest	unknown		
BY41037*	356474	McGaw	Ireland		

BY41037*	158783	McGaw	Scotland		
Y85092*	751031	Layden	Ireland	Leitrim	
Y85092*	603835	Layden	Ireland	Leitrim	
	358739	Liddane	Ireland		
A10022*	B7867	Milligan	Ulster		Ó Maolagáin (Milligan) family
A10022*	860183	Drake	USA		
BY21163*	57834	Bryan	unknown		
BY21166*	737798	Bryant	unknown		
BY21166*	?	?	unknown		
BY21162*	B72551	Bryant	Ireland		
BY21162*	?	?	unknown		
BY11716*	?	?	Ireland		
BY11716*	261940	Milliken	Ulster		
FT48438*	868239	Seay	USA		
FT48438*	970559	Peters	unknown		
FGC4125*	7874	Grier	Scotland	Kircubrightsh	
FGC4125*	493368	Greer	Scotland		
FGC4125*	173150	Grierson	Scotland	Dumfries	
FGC4125*	B2342	Greer	Ireland	Meath	
FGC4125*	296107	Brannen	Ireland		
FGC4125*	N62054	Milligan	unknown		
FGC4125*	?	?	unknown		
BY73152*	B331207	Greer	Scotland		
BY73152*	333215	Greer	Scotland		
BY73152*	?	?	Scotland		
BY73152*	?	?	unknown		
7495457*	960598	Greer	Scotland		
7495457*	?	?	USA		
BY18370*	256950	McMichel	Ireland		
BY18370*	358287	McMichael	Ireland		
BY18370*	878663	McMichael	unknown		
A2303*	179935	Milligan	Ulster		
A2303*	B136430	McCracken	USA		
BY21241*	N96006	McMitchell	Ireland	Belfast	
BY21241*	239724	Millikin	Ulster		
BY21241*	941387	McMichael	Scotland	Dumfries	
BY21241*	B283962	Rowles	USA		
BY11712*	?	?	Ireland		
BY21199*	?	?	Scotland		
BY21200*	153408	Milligan	Ireland		
BY21200*	39465	Millican	Ireland		
BY21200*	N88002	Millikin	USA		
BY21200*	B640918	Milligan	unknown		
BY11715*	12068	Millikin	Ireland		

<i>BY11715*</i>	H2027	Milligan	Ireland		
<i>BY11715*</i>	H1926	Mullikin	Scotland		
<i>A744*</i>	135550	Milligan	Ulster	Tyrone	
<i>BY11713*</i>	269815	Milliken	Ireland		
<i>BY11713*</i>	189102	Milliken	UK		
BY62903	169185	Milliken	unknown		
	?	?	unknown		
<i>ZS8379*</i>	514267	Harrington	Ireland	Antrim	
<i>ZS8379*</i>	736331	McCormick	Ireland	Offaly	
<i>BY66386*</i>	N70499	Sweeney	Ireland		
<i>BY66386*</i>	N10293	Sweeney	Ireland	Kerry	
<i>BY66386*</i>	?	?	unknown		
<i>Y73722*</i>	941938	Sweeney	Ireland		
<i>Y73722*</i>	201623	Callaghan	Ireland	Cork	
<i>FT59491*</i>	?	?	Ulster		
<i>FT372020*</i>	?	?	Ireland		
<i>FT372020*</i>	?	?	unknown		
<i>FT59245*</i>	?	?	Ireland		
<i>FT59175*</i>	?	?	unknown		
<i>FT59166*</i>	?	?	Ireland		
FT59605	B428160	Daly	Ireland		
	?	?	Ireland		
<i>BY145571*</i>	528450	Hetherington	Ireland		
<i>BY145571*</i>	?	?	Ireland		
<i>BY145571*</i>	?	?	unknown		
<i>BY145571*</i>	?	?	unknown		
<i>BY39947*</i>	?	?	Ireland		
<i>FT165292*</i>	295516	Hammil	USA		
<i>FT165292*</i>	65155	Cox	unknown		
<i>BY11707*</i>	342204	Dempsey	Ireland	Offaly	
<i>FT157351*</i>	?	?	Ireland		
<i>FT157351*</i>	?	?	unknown		
<i>A11227*</i>	361501	Molloy	Ireland	Offaly	
<i>FTA81728*</i>	956204	Milley	Canada		
<i>FTA81728*</i>	IN103739	Milley	Canada		
<i>FTA81728*</i>	?	?	unknown		
<i>FTB18475*</i>	959466	Milley	unknown		
FTB9479	IN42753	Milley	Canada		
	?	?	Canada		
<i>FT279336*</i>	?	?	Ireland		
<i>FT279336*</i>	?	?	unknown		
<i>BY18040*</i>	368319	Molloy	Ireland	Offaly	
<i>BY18040*</i>	372026	Molloy	Ireland		
<i>A11427*</i>	IN40960	Molloy	Ireland	Offaly	

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Southern Uí
Neill

A11427*	?	?	Ireland		
BY21143*	?	?	Ireland		
ZS10825*	B2799	Molloy	Ireland		
ZS10825*	N148931	Maloy	Ireland		
ZS10825*	?	?	Ireland		
ZS10825*	?	?	Ireland		
PH104*	B3973	Smith	USA		
PH104*	?	?	unknown		
A223*	N23504	Glass	unknown		
FT82416*	277917	Armstrong	Scotland		
FT82416*	160628	McKean	Ireland		
BY100000*	MK50605	McCarron	Ireland	Leitrim	
BY100000*	?	?	unknown		
BY61118*	B96895	Courtney	England		
BY61118*	?	?	unknown		
BY176953*	913953	Fletcher	Scotland		
BY176953*	511267	Cherry	USA		
A17682*	192471	NPE	England		
FT99234*	N34652	Keady	UK		
BY155744	511387	Byres	Scotland		
	?	?	Scotland		
	?	?	Scotland		
	?	?	Scotland		
FT380776*	?	?	Ireland		
MF115586	10139	McC Campbell	Ireland		
A823*	65310	Deviney	Ireland	Tyrone	
A823*	?	?	Ireland		
FT123392*	462167	Dodson	England		
FT123392*	229321	Dodson	unknown		
FT123392*	?	?	unknown		
FT101501*	?	?	Ireland		
FT287224*	?	?	Ireland		
FT287224*	?	?	USA		
FT288332*	920358	Cannon	USA		
FT288332*	?	?	unknown		
FT85511*	230851	Buchan	England		
A8682*	9399	Cannon	USA		
A8682*	246162	Cannon	unknown		
FT118093	934621	Cannon	Ireland		
	479585	Cannon	Ireland		
	?	?	unknown		
BY204475	71552	Cannon	Ireland	Donegal	Cannon sept
	?	?	unknown		
ETA0102E	B454343	Murphy	Ulster		

FT85295*	918444	Cannon	unknown	
FT85295*	181988	Cannon	unknown	
FTC44600*	847185	McKinnie	USA	
FT210882*	365476	McCullough	unknown	
FT210882*	?	?	unknown	
BY18149*	7213	McKenney	UK	
BY18149*	?	?	USA	
BY18149*	?	?	unknown	
A982*	954745	Herron	unknown	
A983*	IN107518	Mulligan	Ireland	
A983*	H1936	Milliken	Ireland	
A23887*	23702	Milliken	Ulster	Down
A23887*	629892	Milliken	Ulster	Down
BY16031*	H1537	Milliken	Scotland	
BY16031*	221981	Milligan	unknown	
BY16031*	?	?	unknown	
FT83870*	?	?	USA	
FT83870*	841089	Thompson	unknown	
FT83870*	316592	Taylor	unknown	
BY18139*	IN40121	Amulligane	Scotland	Dumfries
BY18139*	235983	Amulligane	Scotland	Dumfries
BY18159*	21609	Johnston	unknown	
BY18159*	687356	Johnston	unknown	
A11242*	B249886	Gilbert	Ulster	
BY76915*	384843	McMaster	Ulster	
BY76915*	?	?	USA	
A11244*	454491	Kelly	Ireland	
A11244*	B41860	Kelly	Ireland	
A11244*	442219	Kelly	Ireland	
BY11694*	366286	Atkinson	England	
FGC62840*	B617915	McMahan	Ireland	Down
FTB35085*	MK66712	Houston	Ireland	
FTB35085*	?	?	Ireland	
FT394477*	695940	McCortney	Ulster	Armagh
BY103073*	B439501	Courtenay	Ireland	
BY103073*	361160	Courtenay	Ulster	
BY11696*	B352199	Hunter	USA	
BY11697*	294717	McConnell	Scotland	Ross-shire
BY11697*	56323	McConnell	Scotland	
BY120679*	N6181	McElhinney	Ulster	
BY160745*	346109	McIlhaney	Ireland	
BY160745*	?	?	unknown	
A5613*	?	?	UK	

BY137822*	IN63541	Frew	Scotland		
BY137822*	?	?	Scotland		
FT9740*	763962	Frew	Scotland		
FT9740*	872321	Frew	Scotland		
FT9740*	?	?	Scotland		
FT84190*	719206	Frew	Scotland	Ayrshire	
Y83529*	IN87510	Frew	Scotland		
Y83529*	504006	Frew	Scotland		
FGC35907*	420255	Frew	Ulster		Frew family
FGC35907*	402912	Frew	Ulster		
FGC35907*	719945	Frew	Ulster		
FGC35907*	720966	Frew	Ireland		
FGC35907*	929740	Frew	unknown		
Y129235*	945639	Frew	Ulster		
Y129235*	478219	Frew	Ulster		
A5606*	N113724	Frew	Ulster		
A5606*	549300	Frew	Ulster		
A225*	191568	Fletcher	England		
Y146184*	469869	Vance	Scotland		
FT254857*	IN85876	McLean	Scotland		
FT254790*	924258	Neel	Ulster	Antrim	
FT254790*	?	?	USA		
Y146204*	?	?	unknown		
Y146198*	960382	Mackenab	Scotland		
Y146198*	?	?	Scotland		
Y146198*	?	?	unknown		
Y146198*	947296	MacNab	unknown		
Y146198*	?	?	unknown		
BY162255	277224	MacNab	Scotland		
	?	?	unknown		
A224*	12701	Ferguson	Ireland	Cavan	
BY184899*	525709	Teer	Ireland		
BY184899*	?	?	Isle of Man		
FT248833*	99759	McCauley	unknown		
FT249264*	?	?	Scotland		
FT249264*	?	?	unknown		
FT271855*	?	?	unknown		
FT271855*	?	?	unknown		
FGC33468*	229652	Williams	unknown		
MF139946*	?	?	USA		
BY105679*	199107	Robertson	USA		
BY105679*	?	?	USA		
BY118676*	983474	Merida	USA		
BY118676*	?	?	unknown		

<i>FTC50292*</i>	?	?	unknown		
<i>FTC50292*</i>	?	?	unknown		
<i>A1774*</i>	N8118	Vance	unknown		
<i>A1775*</i>	30896	McCord	Scotland		McCord (Mac Cuarta) of Ayrshire
<i>FGC32899*</i>	?	?	unknown		
<i>FTC62030*</i>	37242	Alexander	unknown		
<i>FTC62030*</i>	?	?	unknown		
<i>BY41464*</i>	902778	McCord	Scotland		
<i>BY41466*</i>	909549	McCord	unknown		
<i>BY18173*</i>	320986	McCord	Scotland		
<i>BY18173*</i>	44873	McCord	Scotland		
<i>BY18173*</i>	B213191	McCord	USA		
<i>BY18173*</i>	B100037	McCord	unknown		
<i>BY18173*</i>	46501	McCord	unknown		
<i>FT42545*</i>	893286	McCord	Scotland		
<i>FT42545*</i>	1378	Graves	England		
<i>FT90196*</i>	IN15796	Kennedy	Scotland		
<i>FT90196*</i>	?	?	USA		
<i>FT90196*</i>	?	?	unknown		
<i>FT74122*</i>	N118456	Kennedy	Scotland	Renfrewshire	
<i>BY18130*</i>	632870	Kennedy	Ulster		
<i>BY18130*</i>	563885	Kennedy	Ulster		
	?	?	Scotland		
<i>FGC23742*</i>	761857	Dorsey	Ireland		
<i>FGC58791*</i>	380854	Killian	Ireland		
<i>FGC58791*</i>	?	?	unknown		
<i>FGC52029*</i>	37756	Jennings	Ireland	Mayo	
<i>FGC52024*</i>	N18064	Moore	USA		
<i>BY59051*</i>	115365	Gwinn	Ireland		
<i>BY59051*</i>	?	?	unknown		
<i>BY168066*</i>	?	?	Ireland		
<i>BY167332*</i>	AM12582	Keelty	Ireland		
<i>BY167332*</i>	?	?	unknown		
<i>BY69640*</i>	?	?	unknown		
<i>FT133387*</i>	B243929	Clark	USA		
<i>FT133387*</i>	?	?	unknown		
FT132323	652942	Davies	Wales	Glamorgan	
	917561	Davies	Wales	Glamorgan	
<i>FT365706*</i>	188462	Mulroe	Ireland		
<i>FT365706*</i>	610832	Ewing	Scotland		
<i>FTB60419*</i>	306866	Milligan	unknown		
<i>FTB60419*</i>	?	?	unknown		
<i>FT359093*</i>	716483	Crean	Ireland	Kerry	
<i>BY71102*</i>	943870	Noonan	Ireland		

BY71102*	?	?	Ireland		
FT355053*	883422	Hamrick	Ireland		
FT355053*	B646523	Hendricks	USA		
FT355053*	?	?	USA		
FT355053*	?	?	unknown		
FGC31521*	146731	Berry	Ireland		
FGC31521*	857761	Berry	USA		
Y62692*	262194	McGowen	USA		
FT217461*	149692	McElmurray	Ireland		
FT217461*	IN78201	McIntyre	Ulster		
BY107609*	709629	Gorman	Ireland	Waterford	
BY107609*	369835	<i>Naughton</i>	Ireland		
FGC46310*	N144524	Moran	Ireland	Mayo	
FGC46310*	?	?	unknown		
FT315267*	N91269	Huane	Ireland	Mayo	
Z34470*	57241	Thompson	Ireland		
FTA79378*	867668	Rose	Ireland		
FTA79378*	235501	Dowdy	unknown		
A16160*	116849	Ross	Scotland	Edinburgh	
A16161*	196477	Morrison	Ireland		
A16161*	IN63490	Bailey	England	Hertfordshire	
FT207016*	471286	Craig	Scotland		
FT207016*	896622	Craig	unknown		
FT206457*	?	?	unknown		
FT206766*	MI54075	Willis	USA		
FT206766*	?	?	unknown		
S20413*	173422	Everett	unknown		
S20413*	B72870	Watson	unknown		
BY106459*	B19951	Mulligan	Ireland	Dublin	
FT78901*	354998	Dowd	Ireland	Fermanagh	Ó Dubhda (O'Dowd) of Uí Fiachrach
FT78685*	479569	Dowd	Ireland		
FT78685*	34882	Dowd	Ireland	Cavan	
FT78685*	IN53562	Dowd	Ireland		
FGC46309*	B851808	Keith	unknown		
FT74157*	B314367	Bird	Ireland		
FT74157*	B6895	McCunney	Ireland		
FT74157*	416061	<i>Quinn</i>	unknown		
BY24140*	B96088	Toal	Ireland	Down	
BY24140*	?	?	Ireland		
A1206*	208769	Murphy	Ireland		
A1206*	B1475	Cunningham	Ireland	Galway	
A1206*	324575	Arrington	unknown		
Y83043*	167608	Burke	Ireland		
Y83043*	8765	<i>Hynes</i>	Ireland		

<i>FGC23739*</i>	753899	Kiely	Ireland	Cork	
<i>BY212908*</i>	405234	Shaughnessy	Ireland		
<i>BY212908*</i>	IN68820	<i>Harrison</i>	Ireland		
<i>BY212908*</i>	?	?	Ireland		
<i>FGC23736*</i>	246349	Morrow	Ireland		
<i>FGC23736*</i>	297074	Morrow	Ireland		
<i>FGC23736*</i>	B5478	Morrow	unknown		
<i>FGC23736*</i>	879128	Morrow	unknown		
<i>FT382865*</i>	IN12310	O'Donoghue	Ireland		
<i>FTA18319*</i>	943798	McDonnell	Ireland		
<i>FTA18319*</i>	932896	McDonald	Ireland		
<i>FT382895*</i>	IN92642	Burke	Ireland		
<i>FT382895*</i>	936405	Burke	Ireland		
<i>FTA24726*</i>	944058	Glynn	Ireland	Offaly	
<i>FTA24726*</i>	?	?	Ireland		
<i>FT12671*</i>	657858	Moloney	Ireland		
<i>BY183163*</i>	MK73832	Fay	Ireland	Kildare	
<i>FT96339*</i>	651875	Fahey	Ireland	Tipperary	
FT96353	913216	Flanagan	Ireland		
	9713	Flanagan	Ireland		
<i>FT12650*</i>	?	?	Ireland		
<i>FT12650*</i>	?	?	Ireland		
<i>BY11689*</i>	N112691	Larsson	Sweden	Göteborg	
<i>FT107437*</i>	IN32319	Sunesson	Sweden	Norbotten	
<i>FT107437*</i>	?	?	Sweden		
<i>FT43311*</i>	MI40924	Sunesson	Sweden	Norbotten	
<i>FT43311*</i>	MI40896	Sunesson	Sweden	Norbotten	
	MI40897	Sunesson	Sweden	Norbotten	
	B299457	Sunesson	Sweden	Norbotten	
<i>FT191154*</i>	?	?	Sweden		
<i>BY21260*</i>	369390	Morin	Sweden		
<i>BY21260*</i>	357932	Nederkalix	Sweden		
<i>BY21260*</i>	333128	Nilsson	Sweden	Uusimaa (FI)	
<i>Y77098*</i>	692011	Nordstrom	Sweden		
<i>Y77098*</i>	?	?	Sweden		
<i>Y72855*</i>	438097	Forsberg	Sweden	Norbotten	
<i>Y72855*</i>	?	?	Sweden		

17	16	15	14	13	12
910	975	1040	1105	1170	1235
<p>Z1513 et al. (40 db SNPs under DF27), branching around 1690 BCE from closest English and French matches; Niall Glúndub (bef 879-919) > Muirchertach mac Néill (bef</p>					
	BY31270	A10699	BY202281	BY31271	BY31272
		BY57572	BY109189	FT40060	FT40334
	FT32273				
		FT87684	A23395		
				BY176666	BY176801

Domnall ua Néill (bef 919-943) > Domnall ua Néill (bef 943-980)

FGC49739

FGC49753

FT64788

BY3292

11	10	9	8	7	6
1300	1365	1430	1495	1560	1625

BY31273	BY31274	BY31275	BY94215	FT77748	FT79149					
PF1909	FT40212	FT38184	FT40290	FT40912	FT41992					
FTA9398	FTA32589	FTA33932	FTA9473	FTB50938	FTB70646					
		BY211644	BY65808	BY43360	BY47768					
					FT229061					
					<i>FT87684*</i>					
					<i>FT87684*</i>					
Z5254										
								BY166723	BY165770	FT97798
						BY192502	BY192594	BY192840	FT120963	
									FT84193	BY138316
BY176986	BY176997	BY177082	FT60694	BY183003	DV00720					

					D100129
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FGC49739*

BY2278

FT218632

FGC37026

BY31478

FT122008

BY31268

BY31477

FGC49744

FGC49751

BY87816

BY164592

BY191178

5	4	3	2	1	FTDNA
1690	1755	1820	1885	1950	Kit No.
Z1513*	Z1513*	Z1513*	Z1513*	Z1513*	106082
Z1513*	Z1513*	Z1513*	Z1513*	Z1513*	312665
	FTB5811	FTB5811*	FTB5811*	FTB5811*	111171
		FTB5811*	FTB5811*	FTB5811*	B436631
FT79867	Y94408	BY31270*	BY31270*	BY31270*	81152
		BY31270*	BY31270*	BY31270*	126058
FT42031	FTB80900	FTB80901	MF120460	FT40212*	18928
				FT40212*	N69983
		BY145501	BY126924	BY104121	365824
					94023
FTA9398*	FTA9398*	FTA9398*	FTA9398*	FTA9398*	IN105749
FTA9398*	FTA9398*	FTA9398*	FTA9398*	FTA9398*	BP29497
FTA9398*	FTA9398*	FTA9398*	FTA9398*	FTA9398*	?
BY65808*	BY65808*	BY65808*	BY65808*	BY65808*	110785
BY65808*	BY65808*	BY65808*	BY65808*	BY65808*	938103
FT268746	FT229061*	FT229061*	FT229061*	FT229061*	179428
	FT229061*	FT229061*	FT229061*	FT229061*	?
FT87684*	FT87684*	FT87684*	FT87684*	FT87684*	B69385
FT87684*	FT87684*	FT87684*	FT87684*	FT87684*	122713
Z5254*	Z5254*	Z5254*	Z5254*	Z5254*	B363134
Z5254*	Z5254*	Z5254*	Z5254*	Z5254*	86442
Z5254*	Z5254*	Z5254*	Z5254*	Z5254*	227626
Z5254*	Z5254*	Z5254*	Z5254*	Z5254*	B82361
Z5254*	Z5254*	Z5254*	Z5254*	Z5254*	933001
Z5254*	Z5254*	Z5254*	Z5254*	Z5254*	921532
Z5254*	Z5254*	Z5254*	Z5254*	Z5254*	965538
BY166723*	BY166723*	BY166723*	BY166723*	BY166723*	291284
BY166723*	BY166723*	BY166723*	BY166723*	BY166723*	IN79820
FT156785	FT460536	FT156785*	FT156785*	FT156785*	36315
		FT156785*	FT156785*	FT156785*	942892
BY192502*	BY192502*	BY192502*	BY192502*	BY192502*	68848
BY192502*	BY192502*	BY192502*	BY192502*	BY192502*	68588
		FT84193*	FT84193*	FT84193*	944523
FT82512	FTA49288	BY138316*	BY138316*	BY138316*	55909
		BY138316*	BY138316*	BY138316*	323693
	FT124092	BY114787	BY92114	FT124092*	N118035
				FT124092*	106095
	BY176666*	BY176666*	BY176666*	BY176666*	27355
	BY176666*	BY176666*	BY176666*	BY176666*	?
		BY183003*	BY183003*	BY183003*	?
BY88729*	BY88729*	BY88729*	BY88729*	BY88729*	939645
				BY182518*	221183

		BY182518	BY183307	BY182518*	182641	
				BY182518*	937099	
FGC49739*	FGC49739*	FGC49739*	FGC49739*	FGC49739*	?	
	FTA18943	ZS6520	FTA18943*	FTA18943*	213495	
			FTA18943*	FTA18943*	934707	
FT214959	FT218632*	FT218632*	FT218632*	FT218632*	B233415	
	FT218632*	FT218632*	FT218632*	FT218632*	IN21760	
	BY31266	BY31266*	BY31266*	BY31266*	BY31266*	301582
		BY31266*	BY31266*	BY31266*	BY31266*	IN10526
		BY31266*	BY31266*	BY31266*	BY31266*	N60863
				BY133549	BY133549*	?
					BY133549*	MK69302
					BY133549*	932643
					BY133549*	MK69303
		BY180889	FT217216	BY180889*	76619	
	BY180889*			589213		
		FGC37026*	FGC37026*	FGC37026*	FGC37026*	929567
	FGC37026*	FGC37026*	FGC37026*	FGC37026*	84563	
	BY31478*	BY31478*	BY31478*	BY31478*	IN47580	
			BY31268*	BY31268*	522487	
BY40000	BY40001	BY40002	BY40000*	BY40000*	596116	
			BY40000*	BY40000*	?	
		FGC49744*	FGC49744*	FGC49744*	537966	
FT199567	FTB79672		BY87816*	BY87816*	B292325	
		BY43619	FT182754	BY43619*	364154	
				BY43619*	N50629	
BY191544		BY164592*	BY164592*	BY164592*	936109	
		BY164592*	BY164592*	BY164592*	227628	
	BY190289	BY191958	Y186883	Y186883*	746092	
				Y186883*	?	
					?	
FGC49754	FGC49754*	FGC49754*	FGC49754*	FGC49754*	N103104	
	FGC49754*	FGC49754*	FGC49754*	FGC49754*	230127	

Surname of MRKA	Country of origin	County or city	Sept or clan
O'Neill	Ireland		
O'Neale	Ireland		
Cassidy	Ireland		
?	unknown		
Mulholland	Ulster		
Mulholland	Ulster		
MacShane	Ireland		
Johnston	Ulster		
Stewart	Ulster		
Stewart	Ulster	Derry	
Peacock	Ireland	Dublin	
?	unknown		
?	unknown		
Rogers	Ireland		
McCrorry	Ulster	Tyrone	
McCullagh	Ireland	Tyrone	
?	unknown		
McShane	Ireland	Armagh	
McCallum	unknown		
O'Neill	Ireland		
O'Neill	Ireland	Mayo	
O'Neill	Ireland	Armagh	
O'Neill	Ireland	Armagh	
Lawrence	USA		
?	unknown		
?	unknown		
?	Ireland		
?	unknown		
O'Neill	Ireland		
O'Neal	USA		
O'Neal	Ireland		
O'Neill	Ireland		
?	unknown		
Payne	USA		
Payne	unknown		
O'Neill	Ireland		
?	Ireland		
O'Brien	Ireland		
?	England		
?	Ireland		
McGee	Ireland		
O'Brien	Ireland	Derry	

Bryan	Ireland		
Bryan	USA		
?	unknown		
Bowden	Ulster		
?	unknown		
?	unknown		
?	unknown		
O'Neill	Ireland		
O'Neill	Ulster	Antrim	
Reddin	USA		
?	Ireland		
?	unknown		
?	unknown		
?	unknown		
?	unknown		
Pittman	USA		
O'Neal	USA		
McEwan	Ireland		
McKeown	Ulster		
Owen	USA		
O'Neill	Ulster	Antrim	
O'Neill	Ulster	Antrim	
?	Ulster		
?	unknown		
?	unknown		
O'Neill	Ireland		
McRanald	Scotland		
O'Neil	Ireland		
O'Neill	Ireland	Armagh	
?	unknown		
?	unknown		
?	Ireland		
O'Neill	Ireland		
O'Neil	Ireland		

Mutation Age Time	32	31	30	29	28
	-65	0	65	130	195
			BY23591	A12404	BY163427

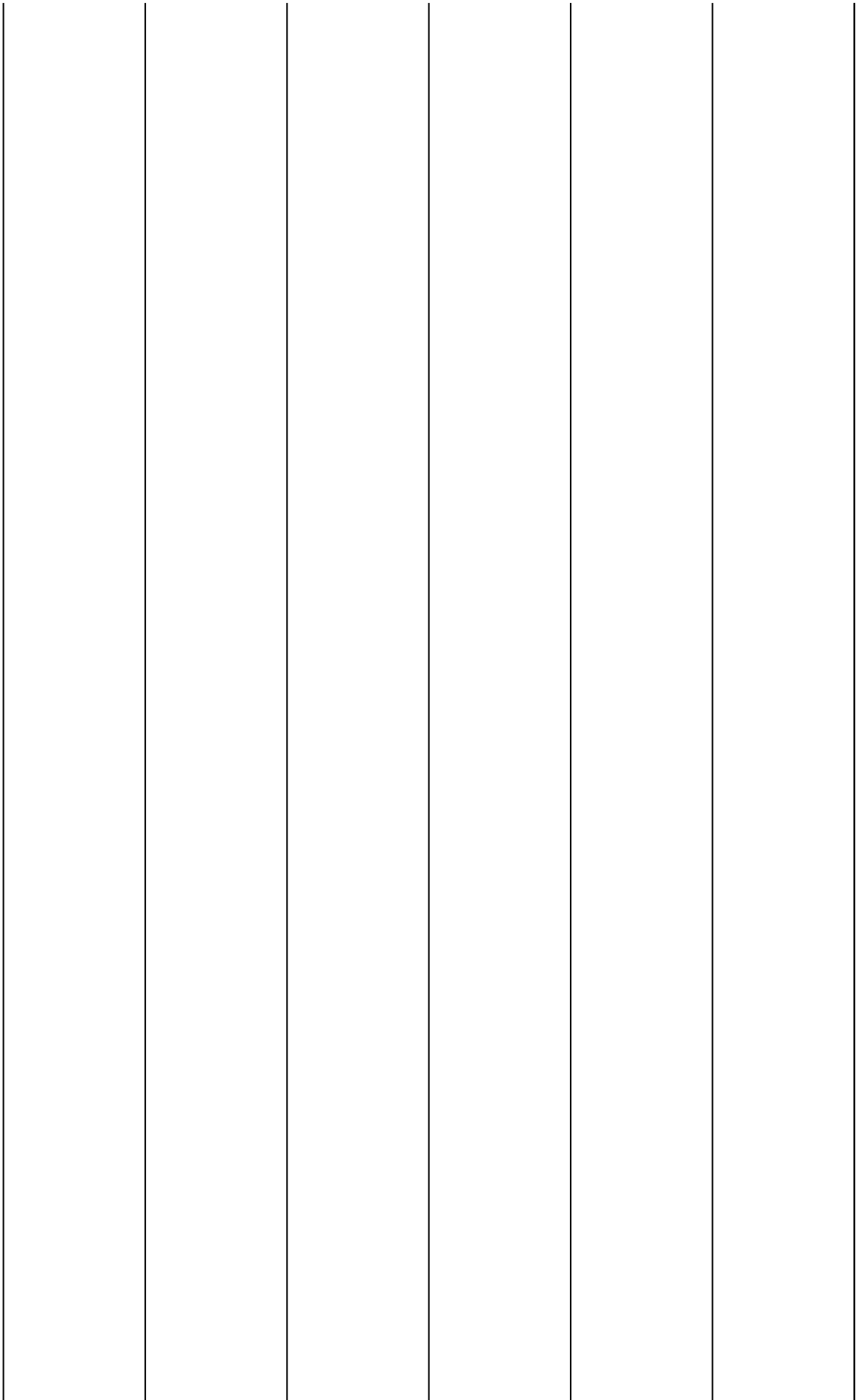
A212

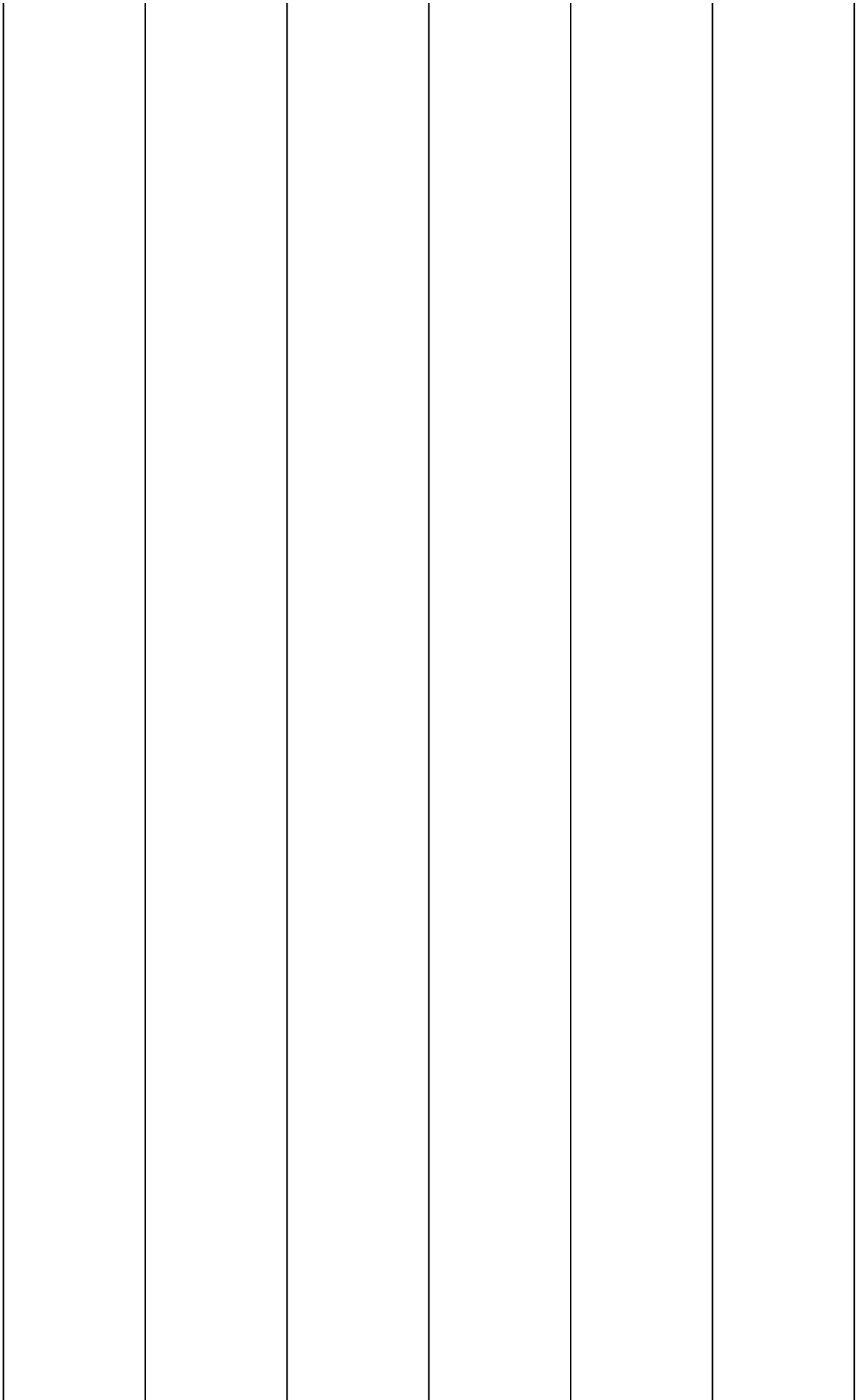
A218 >
FGC78243

A7699

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A151





A1135 >
A1136

CTS4466 et
al. (19 SNPs,
branching
1365 BCE)
Dui Dallta
Dedad ruled
80-49 BC or
120-110 BC?

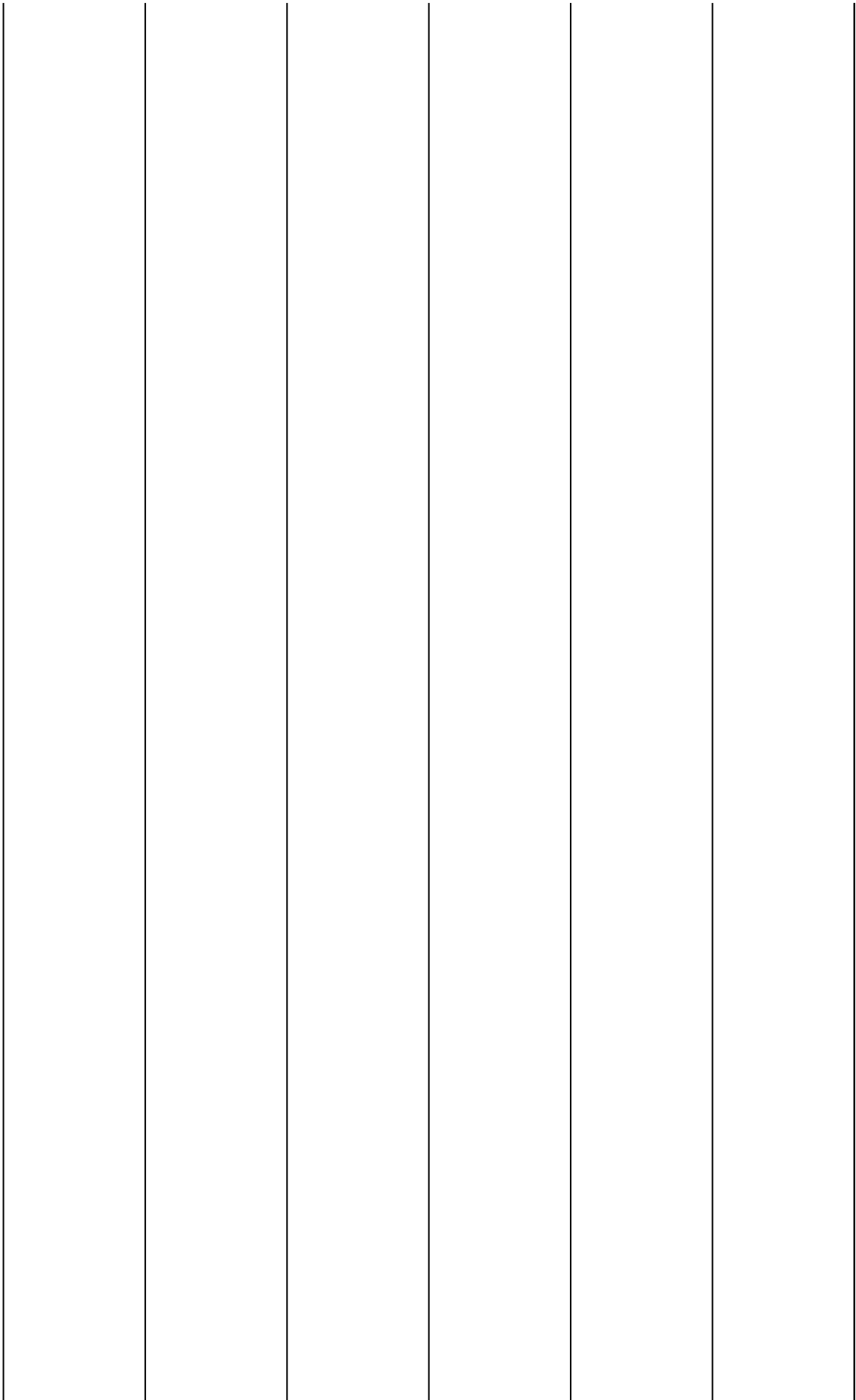
S1115

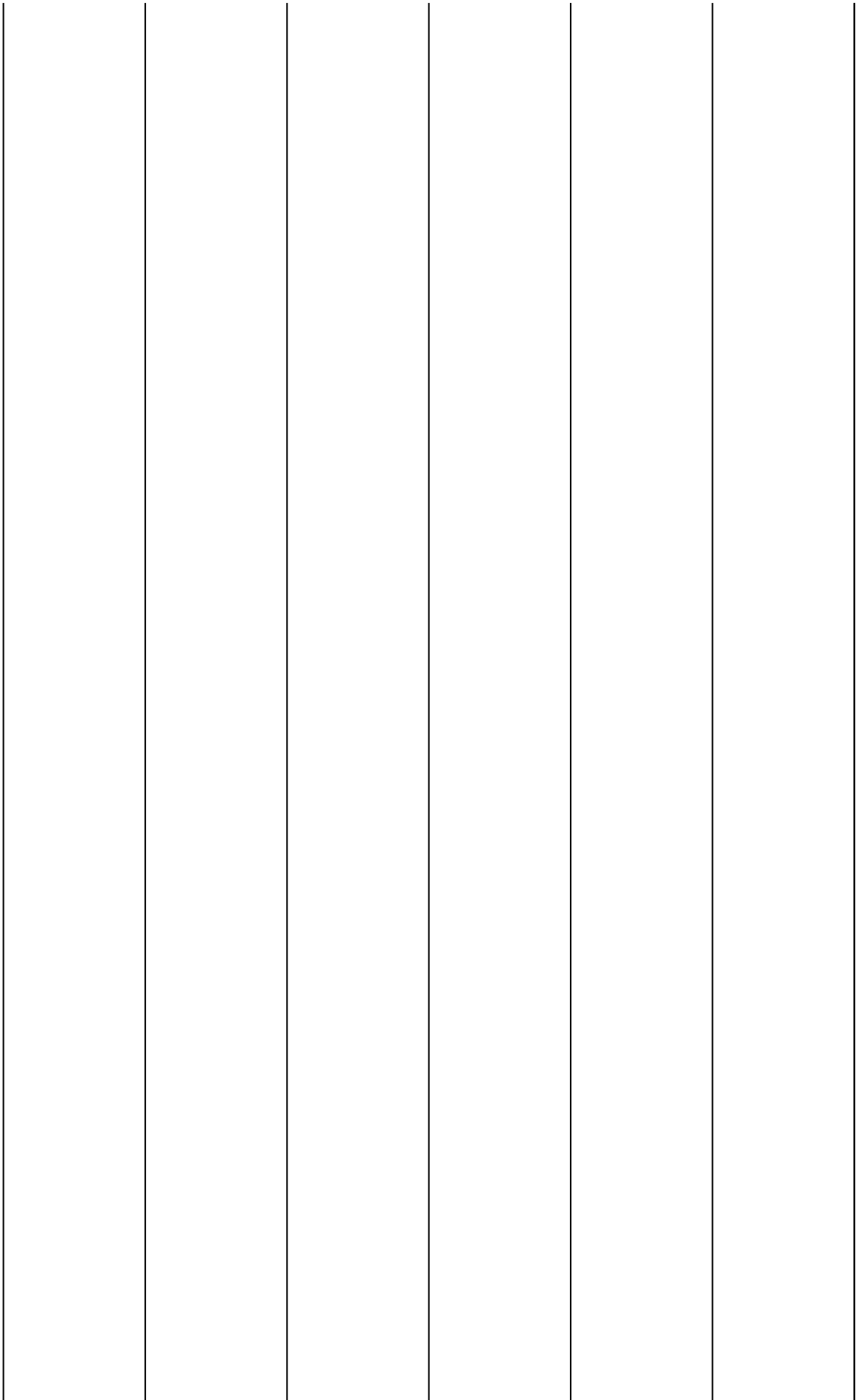
Z3023

FGC84010

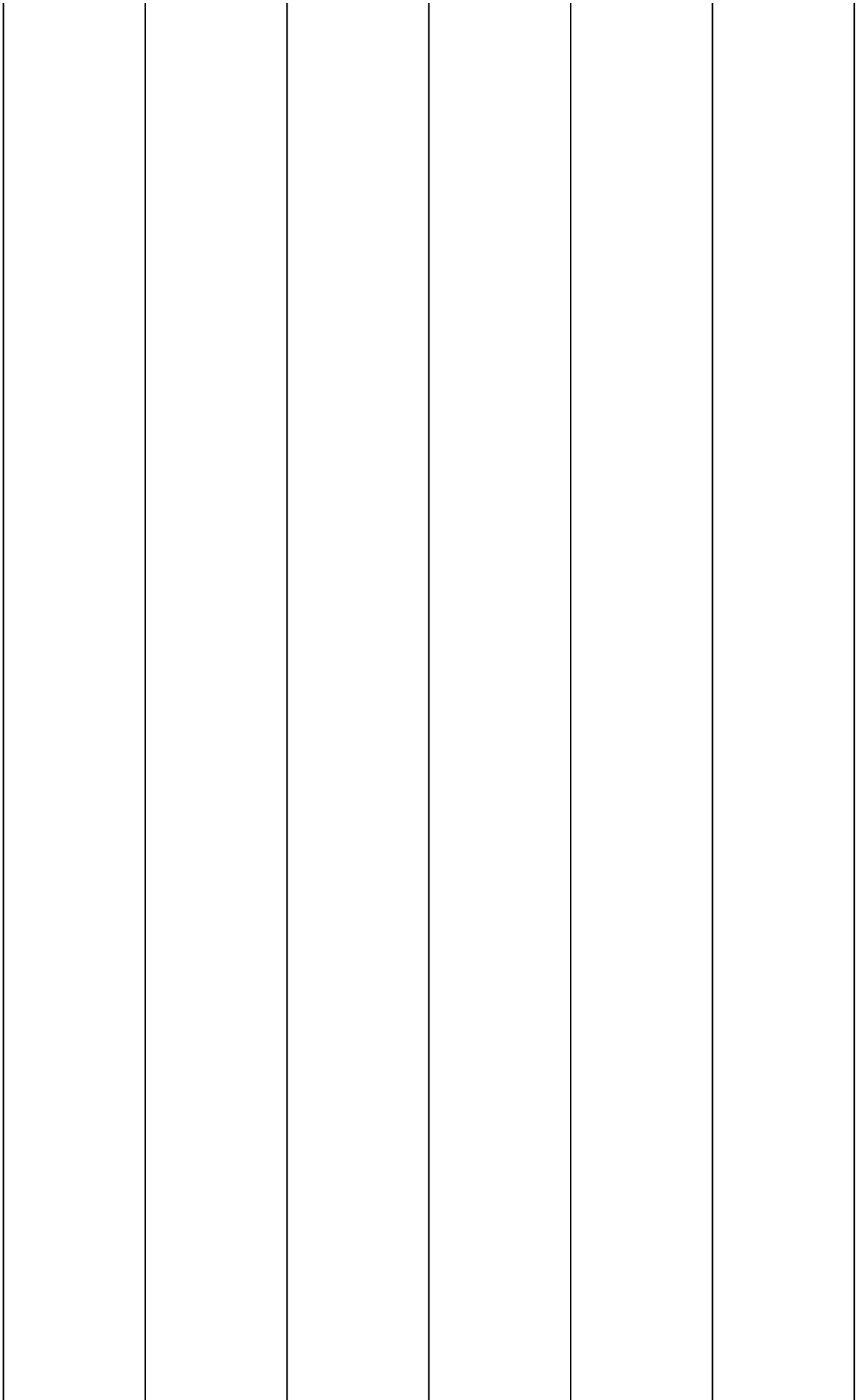
A541 (Mug
Nuadat > Ailill
Ollamh) - 3
sons, but not
Cormac Cas

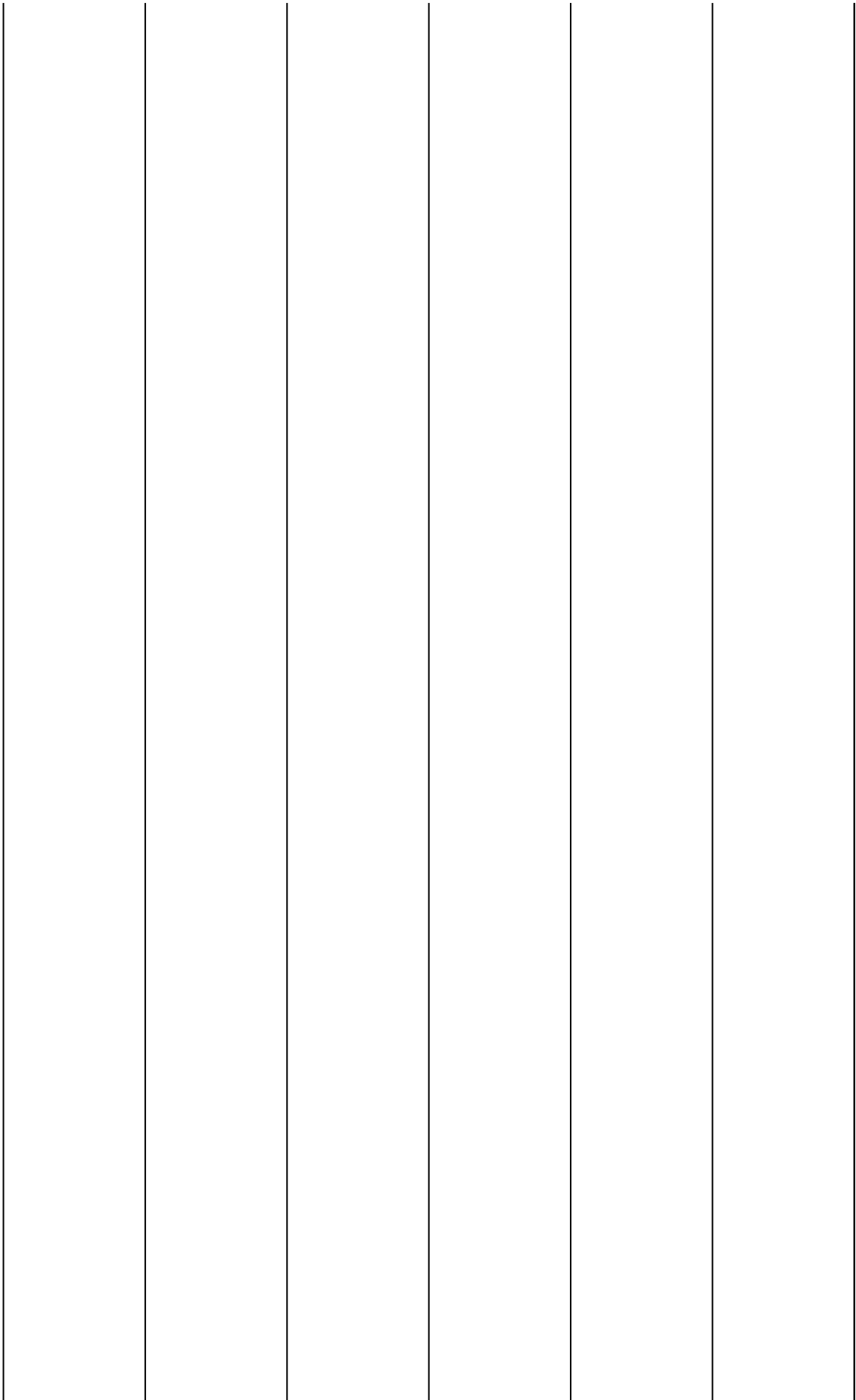
Cornac Cas

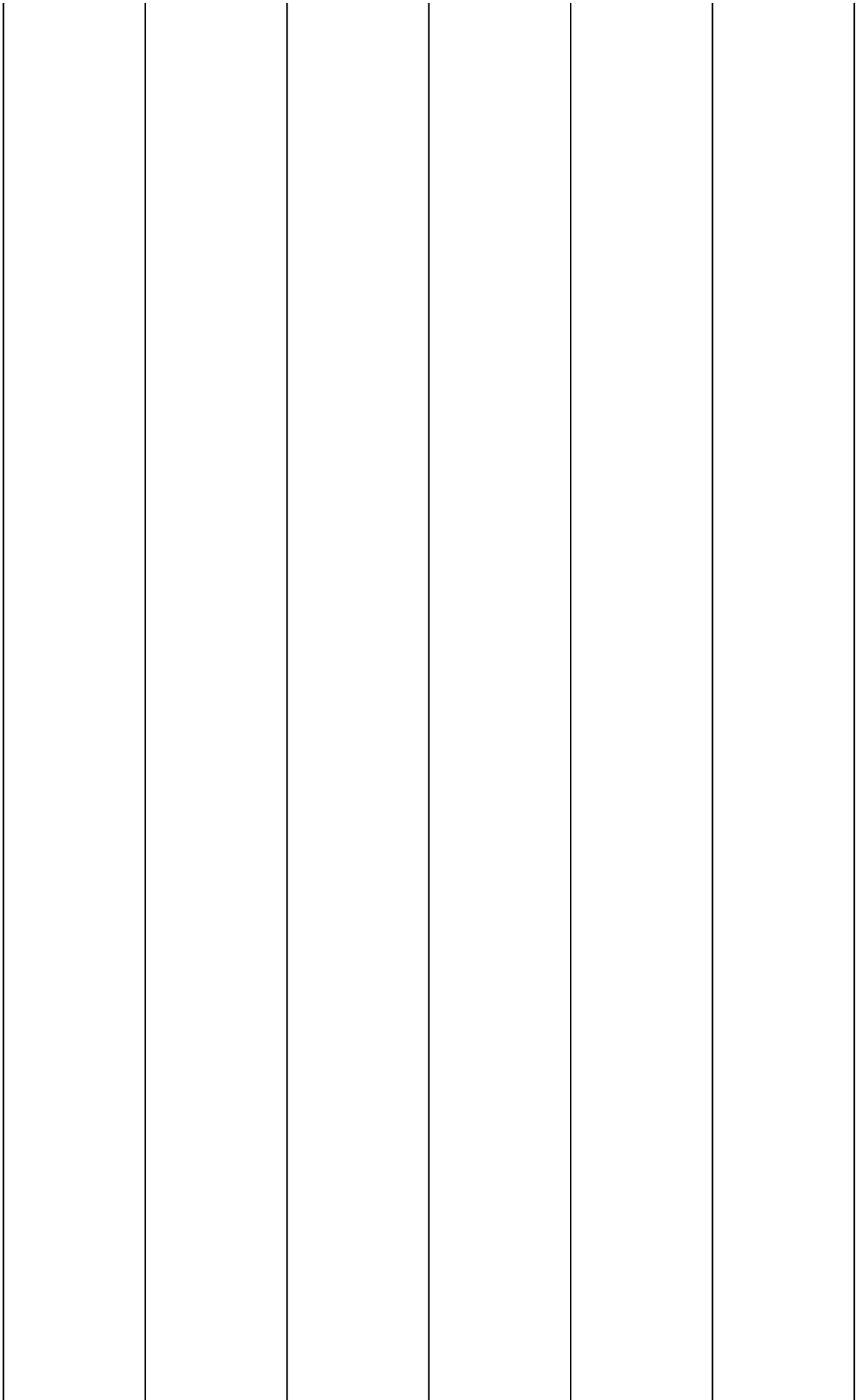




S1121
(Éogan Mór)
turn of 2nd-
3rd century >
Fiachu
Mullethan







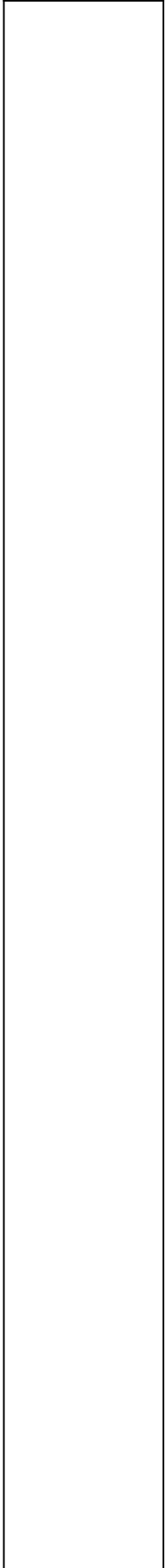
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27	26	25	24	23	22
260	325	390	455	520	585

BY23525	A12395	A12396	A12397	A12398 > A12399	A12401
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A6526 > A6527	A6528 > A6530	A6531 > A6532	A6533 > A6534	BY199071	BY24403
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FT15523	FT17696	Z17989	Z17990	A2289	A2290
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A152

FT11485

A714

A716

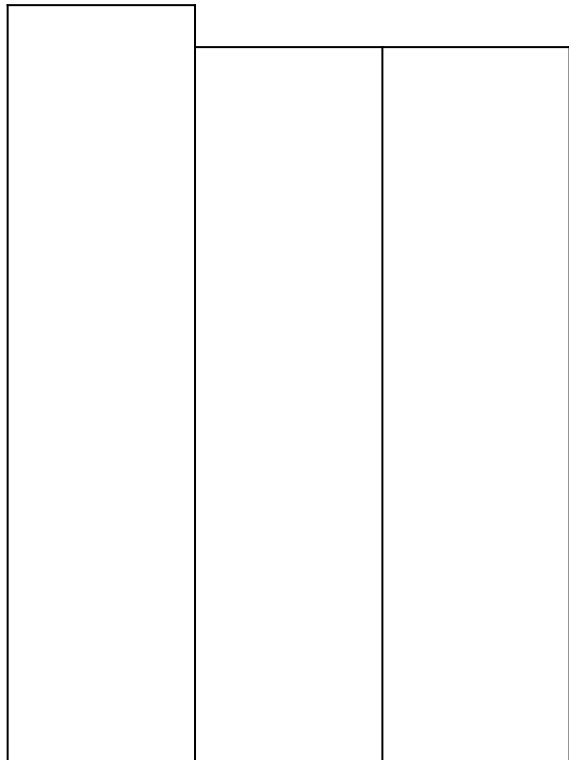
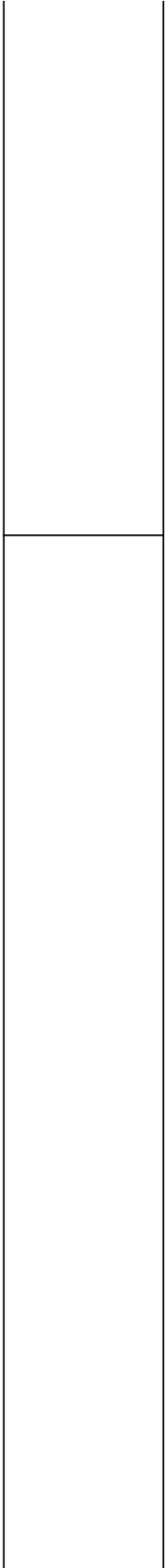
A717

FT132319

FT74196

FT74225

Z22515



BY19775

A956

BY43102

FT221512

FT220841

FT221025

BY42660 >
Z21065
(Dáire
Cerbba? r.
326-333)

FT7592
(Fiachu
Fidgenid)

A195

A761

Z16254 >
Z16254.1

A154

FT76192 >
FT87749

A88 >
A27510

						Z16259

L270 (Corc
mac Luigthig
340-379)

FGC42460
(Óengus mac
Nad Froích
430-489)

Z16518
(Feidlimid
mac
Óengusa
455-500)

Z16519

Z16520
(Fíngen mac
Áedo Duib
king of
Munster 601-
618)

A9005 >
Y18975
(Locha Léin
branch)

FGC29068
(Dauí
Iarlaithe mac
Maithni?)

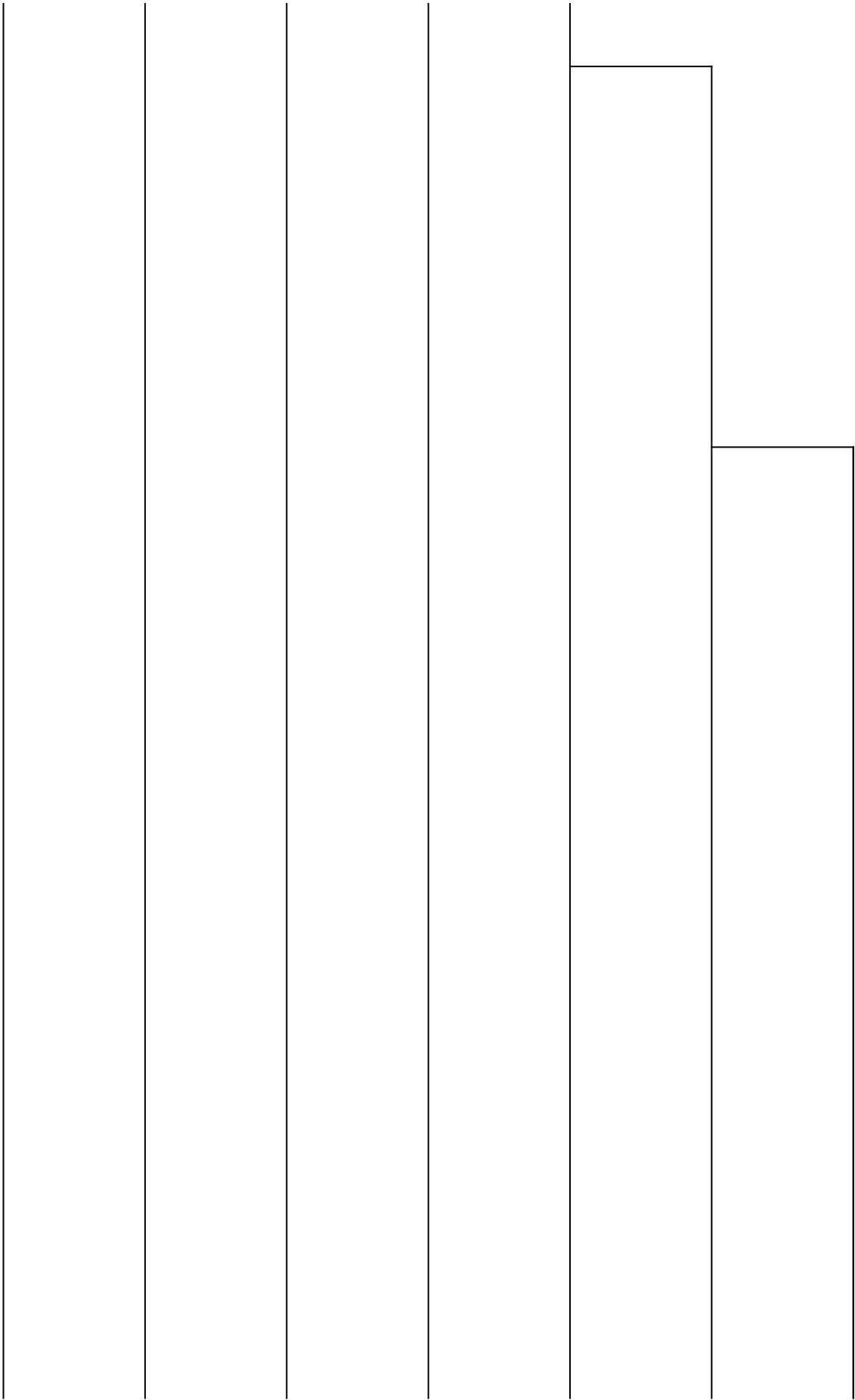
BY2880 >
FGC29058
(Áed Bennán
mac
Crimthainn?)

Z16252

Z16251

FGC11136

SECRET



A159
(Glendamnac
h branch)

BY2881
(Crimthann
Srem mac
Echado? d.
542)

BY149

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21	20	19	18	17	16
650	715	780	845	910	975
	A7751	BY23421	FGC43846		
				FGC43844	BY24496
S1115*	S1115*	S1115*	S1115*	S1115*	S1115*
					BY23626
A12402 > A12403	BY23727	BY34888	BY34889	BY34890	FT17939

A6518	A6519	A6520	A6521	A6522
A19227				
	A206	A210	A214	A216

	AZ00	AZ10	AZ14	AZ10
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FTA87606	FTA87656	FTA88308
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		BY57568	BY66248
BY42760	FT92546	FT22011	BY92277

FT15805	FT16800	FT17909	FT227541	FT230098	FT443641
					BY79430

A6525	FT18951	FT27067	A7756
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	FT263830	FT116979
BY24324	BY24386	BY24781

A2292	BY35052	FT124315	FT32967	FT33423	FT34673
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A151*	A151*	A151*
	FT126960	FT433763

FGC29768	FGC29765	F4219	FGC29767
		BY139	BY65689

FT12788	FT11483		BY186440	BY186471	BY186626
		A715	FGC30535	FGC30536	FGC30539

BY111005	BY210274
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FT132386	FT132919	FT133053	FT133352	FT133434	FT133626
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		B42*
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FT33478	FT48495	A2288	BY34725	A5313	FT33440
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FT221131	FT221403	FT221522	FT221773	FT221992	FT222404
	A2427	A2428	A2429	A2430	A2431

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A12594 > FT339253	M6030 > Y878	FT60126 > A12596	FT60302	BY89583 > FT225404	FT59997 > FT59998

FTA53616	FTA53296
	A1338

			FT259889	BY3317	FT258931
BY42898	BY44161	Z16255			

BY69720	BY104485	BY123998
BY23574	BY34897	FT409873

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	FT76192*
	FT76192*

A89 > A90	FT74418 > Z16256	BY15518		A155	FT80537
			FT375160	FT375163 > FT375518	FT375636
			BY161234	BY160948	BY161702

FT8024

Z16258

A2220

BY24785

BY23650

A2219
(Donnubán
mac Cathail
d. 980)

BY2876

Z16521

Z16522

Z20762
(Suilebhan
mac Maolura
b. 862?)

FT43021

BY39363

FT88142

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	A6516	A6305	A6388	FT74998	FT76114
A807	FGC9871	FT32453	FT56503	FT7884	FT9966

BY43744 (Congal mac Máele Dúin?)	FGC17180 (Máel Dúin mac Áedo d. 786 ?)	A2224	FT16094	FT96700		
				FTB79755		
	A804	BY43715	FGC29060	FGC29065	FT226301	FT225578 > FT225852
					A2221	
					FGC29067	
				A802 > A805		

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A9903	BY24481	BY3518 > BY3519	BY3520	BY3522 > BY3523	BY3524
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	A726	BY121005
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S1126

FGC11140

A150

BY80113

FT206119

FT207324

BY2877
(Máel Muad
mac Brain, d.
978)

FGC11145

FGC11150

FT81000	FT80305	FTB42514	Z3006 > Z3006.2	BY107248	BY128799
				BY23569	BY92647
				A6507	

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Z17982	Z17983	BY21825	BY34719	BY34720	BY34721
		A664	BY3525	A12015	BY130219
				A7752	BY24129
		A923*>A923*	A923*>A923*	A923*>A923*	A923*

A923

FT17827

BY21614

FT15209

FT182994

15	14	13	12	11	10
1040	1105	1170	1235	1300	1365

FGC43833	FGC43839	FGC43845	FGC43848	FGC43849	FGC43847
<i>S1115*</i>	<i>S1115*</i>	<i>S1115*</i>	<i>S1115*</i>	<i>S1115*</i>	<i>S1115*</i>
BY23677	BY23899	BY23948	BY23975	BY24329	BY24333
FT25479	FT25533	FT56496	A12400	FT16765	FT26607
				<i>A212*</i>	<i>A212*</i>

A6523	A6524	BY23845	BY42871	FT90283	FT90317
					<i>A19227*</i>
					<i>A19227*</i>

<i>A217</i>	<i>A202</i>	<i>A240</i>	<i>A251</i>
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A211	A292	A349	A351	A208	A208*
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FTA88741	FTA89029	FTA89232	FTA89960	FTA90625	FTA90958
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BY141017	BY141017*
	BY141017*

FTA7527	FT434613	FTA11815
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BY105766	BY110143	BY126779	BY131856	BY144213	BY151287
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BY42760*	BY42760*	BY42760*	BY42760*	BY42760*	BY42760*
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FTB15758	FTB14964	FTB15045	FTB15046	FTB15225	FTB15916
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BY53755	BY112881	BY115025	FT14881	FT17398
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BY3535	FT152636	FT17592
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A6526*

BY186342*	BY186342*
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FT22816	BY186342	FT230100	FT161067	FT159560	FT231295

BY118067	BY82695	BY83057	BY83062	BY83063	BY87918
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A9512	BY24499	BY3533	FT15925	FT16003	FT22447	
		<i>FGC84010*</i>	<i>FGC84010*</i>	<i>FGC84010*</i>	<i>FGC84010*</i>	
		<i>FGC84010*</i>	<i>FGC84010*</i>	<i>FGC84010*</i>	<i>FGC84010*</i>	
FT193869	FT263426	FT263831	FT263855	FT263916	FT264110	
BY43865	FT17413	FT21317				
			A5595	A5596	A5597	
FT59726		FT33173			<i>FT33173*</i>	
					<i>FT33173*</i>	
			FT33326	FT33574		
						A2291
			FT62340	FT62926	FTB78632	
BY81788 (Cernach Ua Mórdha, d. 1018)		FT57712				
			FT57070			
			FT57428	BY121414		

<i>A151*</i>	<i>A151*</i>	<i>A151*</i>	<i>A151*</i>	<i>A151*</i>	<i>A151*</i>
Y71696	Y79692	Z13904	<i>FT126960*</i>	<i>FT126960*</i>	<i>FT126960*</i>
			<i>FT126960*</i>	<i>FT126960*</i>	<i>FT126960*</i>
	FT83818		<i>FT83818*</i>	<i>FT83818*</i>	<i>FT83818*</i>
		BY110712	BY127320	BY130284	BY137168
		<i>FGC29768*</i>	<i>FGC29768*</i>	<i>FGC29768*</i>	<i>FGC29768*</i>
FGC29772	FGC29776	FGC29777	FGC84011	FT442858	FGC29773
BY104421	BY139093	BY155379	BY56352	BY78932	BY81428
	A9865				
		A12087	A12197	BY43064	FT437049

BY141	BY42721	BY43632	FT94600	FT94672	BY77015
BY187203	BY188688	BY205811	BY98217	FT388944	FT389570
FGC30540				FGC30535*	FGC30535*
	BY77371	BY139831	BY77371*	BY77371*	BY77371*

FT20917	BY119951	BY52334	FT16213	FT17068	BY197966
FT133811	FT133829	FT134298	FT134317	FT134435	FT134448
BY21620	BY21621	BY21622	BY21623	FT74194	FTA81303
<i>B42*</i>	<i>B42*</i>	<i>B42*</i>	<i>B42*</i>	<i>B42*</i>	<i>B42*</i>
				BY74009	BY142037

			A7659	Z36987	A7659*
					A7659*
					FT174815
					A7654
			A1135*	A1135*	A1135*
BY138989	BY144010	BY150293	BY43397	BY61757	FTB15478
A9426	A9424	A9427	A9429	A9431	A9449
A11843	A11845	A12019	FT124584	BY32462	BY32460

			A956*
			A956*
FT212634	FT212634*	FT212634*	FT212634*
	FT212634*	FT212634*	FT212634*

			FTA73940
		BY19776	BY19777

FT34909	FT48494	A5312	FT66047	FT183049	FT67860
			BY34895	BY34896	FT44543
	<i>FT7592*</i>	<i>FT7592*</i>	<i>FT7592*</i>	<i>FT7592*</i>	<i>FT7592*</i>
FT222459	FT222672	FT222690	FT222730	FT222745	FT222863
A2432	BY21615	BY21616	BY21617	FT341523	FT341260

A195*	A195*	A195*	A195*	A195*	A195*
				A761*	A761*
FT148759	FT148659	FT148884	FT149048	FT149688	FT149800
FT59999 > FT60321	FT60368 > FT60398	FT60403 > FT64065	FT216347 FT214902 FT216696		
			FT60152		FT180543

FTA55700	FTA53616*	FTA53616*	FTA53616*	FTA53616*	FTA53616*
					Z29660
FGC85559	FTB97035	FT377860	FT377413	FT377469	FT379010
				A13922	A13922*
				A13922*	
		A1226	A1227	A1220	A1240

			FT396199	FT396919	FT396460
				BY97073	BY111614
BY34898	BY54896	FGC54312	FT110018	FT80649	FT81042
A156	A157	A158	FT275834	FT276173	FT276312
				<i>BY15518*</i>	<i>BY15518*</i>
				<i>BY15518*</i>	<i>BY15518*</i>
				<i>BY15518*</i>	<i>BY15518*</i>
				<i>BY15518*</i>	<i>BY15518*</i>

FT375813	FT375905	FT375974	FT376031	FT424368	FT424369
BY161805	BY162348	BY162349	BY163143	FT190105	FT190623

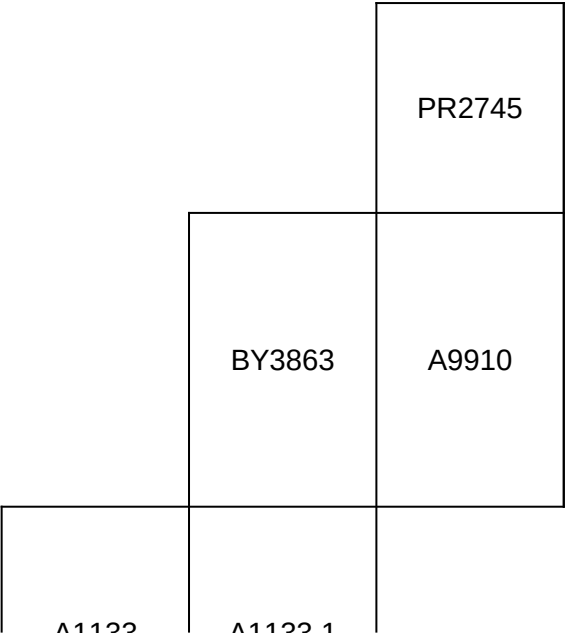
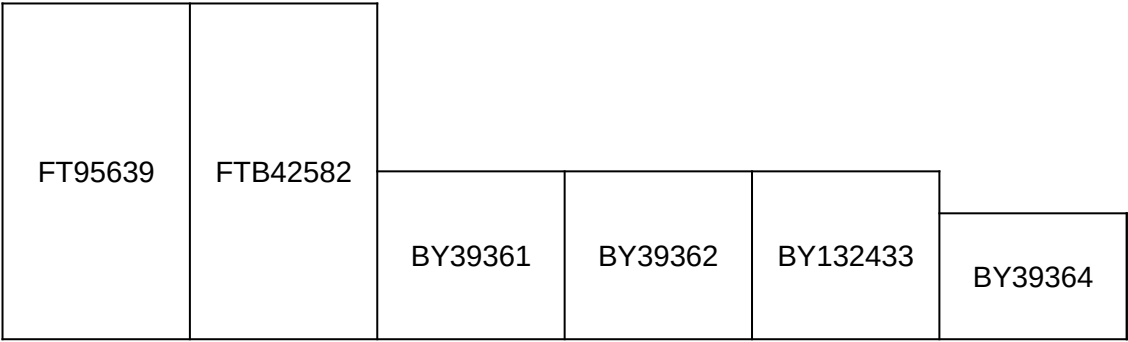
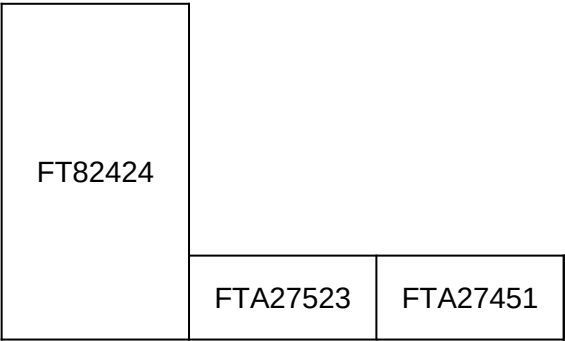
FT85796	<i>FT85796*</i>

A10727	
	BY42849

A2294	A2295	FTC11811
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A1333	A1334	A1335	Y58926	Y59696	Y47157
	ZS4590	A9699	ZS4589	ZS4591	ZS4592

FGC42465	FGC42469	FGC42474
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A1155	A1155.1	
		BY80863
Z16252*	Z16252*	Z16252*

FT76552	BY167060	FT43001	BY167060*	BY167060*	BY167060*
			BY167060*	BY167060*	BY167060*
		A6511	A6512	A6513	A6514
Z20766	FT32505	FT32233	FT32395	FT32634	FT409397
			FT344782	FT344783	FT67376
		BY72807	A17860	BY180443	BY182415 > BY182416
		A806	A808 > A810	BY23994 > FTB78027	FT182396
		FT8178 > FT7853			

	<i>FGC29068*</i>	<i>FGC29068*</i>	<i>FGC29068*</i>
BY184816	BY184938	BY185482	BY185736

<i>BY43744*</i>	<i>BY43744*</i>	<i>BY43744*</i>	<i>BY43744*</i>
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Z15318	FT96881	FT96398	FT97118	<i>FT96881*</i>	<i>FT96881*</i>
				<i>FT96881*</i>	<i>FT96881*</i>
BY65440	FT319193	FTB80769	FTB81658	FTB83859	FTB84702

BY201782	FT17669	BY201596
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FT226198	FT226367 > FT226369	FT226441	FT226791	FT227014	FT227076
A2222	A2223	A2225	BY11802	BY23402	BY24891
FGC29061	FGC29063	FGC29064	FGC29072	FGC29073	FGC29074

BY151141	BY24877 (Conchobar Ua Donnchadha Glenflesk, Killarney d. 1178)	FT36037 > FT36193	FT37986 > FT48511		
				BY3531	A803

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BY178061	BY179106
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BY42629	BY43278	BY44204	FT108071	FT183000	FT183001
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FGC29291	FT75714	FT75913	FT76441
	FGC29286		<i>FGC29286*</i>
		FGC29289	FGC29278
	BY62133	BY101964	BY136218
	<i>A726*</i>	<i>A726*</i>	<i>A726*</i>

BY69974	BY103866
FT107329	FT107376

					<i>FT27204*</i>
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FT27204	BY205777	BY34724	FT18171	FT18952	FT19839
					BY84873

BY66777	BY104562	BY100217	BY55226	BY72072
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DT00777	DT104303	DT109217	DT33330	FT13072
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S1129	A542	A543	FT38151	FT38651
			BY176882	BY176669

					BY80113*
					BY80113*
FT206443	FT207584	FT207820	FT207939	FT207965	FT374030

FGC11151	Z20764	BY198766	BY198752	BY199344	FTB2431
				FGC11142	FGC11143
	F24356	A20854	A20855	A20856	A20857

A9185 (Caomh?)	BY23498	BY24005	F21702	FT225347	Y154798
			FTA81221	FT94532	FTA79868
BY216661	FT258144	FT258145	FT55397	FT80625	FT80814
BY97779	BY100559	BY109928	BY110591	BY113125	BY117434

					FT387992
	FTB54252	A6505	FT429024	FTB54253	A6508
S27124	FT98242	FT450242	FT97491	FT98065	FT98551
					CTS9233
		BY23686	BY24174	FT112436	FT83060
				BY21825*	BY21825*

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Y139079	FT207609
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BY34722	BY34723	FT3648			
			BY102748	BY124915	BY133710

FTB22351	FTB22352	FTB23452
		BY76665

BY125602	<i>BY130219*</i>	<i>BY130219*</i>	<i>BY130219*</i>	<i>BY130219*</i>	<i>BY130219*</i>
	<i>BY130219*</i>	<i>BY130219*</i>	<i>BY130219*</i>	<i>BY130219*</i>	<i>BY130219*</i>
FT83664	<i>BY23543*</i>	<i>BY23543*</i>	<i>BY23543*</i>	<i>BY23543*</i>	<i>BY23543*</i>
	BY24080			<i>BY24080*</i>	<i>BY24080*</i>
		BY23443	BY23596	BY23597	BY23598

BY24697	BY3527	BY3528	BY34893	BY34894	MF39232
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A923*	A923*	A923*	A923*	A923*	A923*
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BY51516	BY51518	BY51520			
			BY51519	BY43321	

BY189083

Y108997	FT81989	Y97778	BY92116	BY92117
BY21613		BY61468	BY119827	BY52313
	Y103372	FT28545	FT29466	FT28425
				BY21614*

FT18336	FT234238				
		FT234213	A12625	BY18128	FT234403
			Z38201	FT197872	FT198007
	FT20099	FT15437	FT16898	FT18727	FT19113
	BY199281	BY160688	BY198342	BY198677	BY200074

9	8	7	6	5	4
1430	1495	1560	1625	1690	1755
	A17979	BY36567	A17979*	A17979*	A17979*
			A17979*	A17979*	A17979*
FGC43844*	FGC43844*	FGC43844*	FGC43844*	FGC43844*	FGC43844*
BY254553	BY254554	FGC43847*	FGC43847*	FGC43847*	FGC43847*
S1115*	S1115*	S1115*	S1115*	S1115*	S1115*
BY24364	BY24623	BY24735	BY23626*	BY23626*	BY23626*
			BY23626*	BY23626*	BY23626*
FT86584	BY202957	FT86493	FT86948	FT86584*	FT86584*

FT89695	FT241001	FT241001*
		FT241001*
		FT241001*

BY137126	FTB69998	BY90171	BY90083	FTB69998*	FTB69998*
				BY108277	BY120507
		BY218841	FT48990	FT49558	FT51651
A212*	A212*	A212*	A212*	A212*	A212*
BY24850	BY24628	BY23687	BY23494	BY23429	A7652
FT90417	FT90494	FT90624	Z26733	A6518*	A6518*
				A6518*	A6518*
A19227*	A19227*	A19227*	A19227*	A19227*	A19227*
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A208*	A208*	A208*	A208*	A208*	A208*
		A7699*	A7699*	A7699*	A7699*
		A7699*	A7699*	A7699*	A7699*
FTA87606*	FTA87606*	FTA87606*	FTA87606*	FTA87606*	FTA87606*
	FTA88737	FTA90718	FTC43278	FTA88737*	FTA88737*
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BY141017*	BY141017*	BY141017*	BY141017*	BY141017*	BY141017*
BY141017*	BY141017*	BY141017*	BY141017*	BY141017*	BY141017*
FTA6483	FTA7059	FTA8084	FTA8120	FTC48296	FTC50280
BY71636	FT183012	FT229458	FT95037	FT95038	FT95681
BY42760*	BY42760*	BY42760*	BY42760*	BY42760*	BY42760*
FTB20776	FTB20783	FTB20784	FTB20835	FTB47478	MF86984
FT186025	FT18991	FT38055		BY53755*	BY53755*
				BY53755*	BY53755*
				BY53755*	BY53755*
			FT22615		FT22615*
				FT124898	FT124898*
FT17889	BY222454	BY43588	FT14814	BY222454*	BY222454*
				BY222454*	BY222454*
				BY222454*	BY222454*
			BY3862	FT359816	BY3862*
					BY3862*
A6526*	A6526*	A6526*	A6526*	A6526*	A6526*
BY186342*	BY186342*	BY186342*	BY186342*	BY186342*	BY186342*

FT231311	FT231312	FT231337	FT232664	FT231295*	FT231295*
				FT231295*	FT231295*
	BY200345	BY198713	BY198884	BY199365	BY200037

BY79430*	BY79430*	BY79430*	BY79430*	BY79430*	BY79430*
					BY102663
FT19559	FT121816	FT19559*	FT19559*	FT19559*	FT19559*
		FT19559*	FT19559*	FT19559*	FT19559*

		<i>FT19559*</i>	<i>FT19559*</i>	<i>FT19559*</i>	<i>FT19559*</i>
					A9513
<i>FGC84010*</i>	<i>FGC84010*</i>	<i>FGC84010*</i>	<i>FGC84010*</i>	<i>FGC84010*</i>	<i>FGC84010*</i>
<i>FGC84010*</i>	<i>FGC84010*</i>	<i>FGC84010*</i>	<i>FGC84010*</i>	<i>FGC84010*</i>	<i>FGC84010*</i>
FT264184	FT264889	FT265004	FT436389	FTA98285	FTB20460
				<i>FT17964*</i>	<i>FT17964*</i>
	FT17964	BY93490	FT17273	FT16888	FT15486
A5598	BY158674	BY23777	BY23786	BY24221	BY24552
<i>FT33173*</i>	<i>FT33173*</i>	<i>FT33173*</i>	<i>FT33173*</i>	<i>FT33173*</i>	<i>FT33173*</i>
					<i>FT33326*</i>
					<i>FT33326*</i>
					<i>FT33326*</i>
					<i>FT33326*</i>
					<i>FT33326*</i>
FT34500	BZ3369	FT33316	FT362821	<i>FT34500*</i>	<i>FT34500*</i>
				FT363991	FT35357
	<i>A2291*</i>	<i>A2291*</i>	<i>A2291*</i>	<i>A2291*</i>	<i>A2291*</i>
	<i>A2291*</i>	<i>A2291*</i>	<i>A2291*</i>	<i>A2291*</i>	<i>A2291*</i>
					<i>BY81788*</i>
					<i>BY81788*</i>
FTB88194	<i>FT62340*</i>	<i>FT62340*</i>	<i>FT62340*</i>	<i>FT62340*</i>	<i>FT62340*</i>
	<i>FT62340*</i>	<i>FT62340*</i>	<i>FT62340*</i>	<i>FT62340*</i>	<i>FT62340*</i>
FTA33572	FTA33722	BY104884	BY127772	FTB61124	<i>BY104884*</i>
					<i>BY104884*</i>
	<i>FT57712*</i>	<i>FT57712*</i>	<i>FT57712*</i>	<i>FT57712*</i>	<i>FT57712*</i>
	<i>FT57712*</i>	<i>FT57712*</i>	<i>FT57712*</i>	<i>FT57712*</i>	<i>FT57712*</i>
					FT430185
FT12902	FT56763	FT57675	FT57780	FT58887	Y172183

A151*	A151*	A151*	A151*	A151*	A151*		
FT126960*	FT126960*	FT126960*	FT126960*	FT126960*	FT126960*		
FT126960*	FT126960*	FT126960*	FT126960*	FT126960*	FT126960*		
FT83818*	FT83818*	FT83818*	FT83818*	FT83818*	FT83818*		
BY218756	FT128437	FT129120	Y45859	Z11505	BY110712*		
					BY110712*		
FGC29768*	FGC29768*	FGC29768*	FGC29768*	FGC29768*	FGC29768*		
				F4219*	F4219*		
			FTA47305	FTA86087	FTA47305*		
					FTA47305*		
				FTB77708	FTB78080		
FGC29779	FGC29771			FT183034	FT183034*		
				BY51215	BY165758		
				BY99312	BY99312*		
					BY99312*		
		BY15520	FT133298	BY15519.1	FT135956		
				F3189	BY96071		
				FT112056	BY140714	BY144091	FT111997
							BY65689*
		FT202869	FT38053	FT38054	FT6225	BY212618	BY153186
BY43350	BY43503	BY130073	BY130073*	BY130073*	BY130073*		
			BY130073*	BY130073*	BY130073*		
					A12087*		
A12110	A12110	ET271290	ET271150	ET271700	ET271012		

<i>A12149</i>	<i>A12140</i>	<i>F1314300</i>	<i>F1314400</i>	<i>F1314100</i>	<i>F1314040</i>
		BY140	BY142	Z17988	<i>BY140*</i>
					<i>BY140*</i>
FT112711	FT117005	<i>BY77015*</i>	<i>BY77015*</i>	<i>BY77015*</i>	<i>BY77015*</i>
		<i>BY77015*</i>	<i>BY77015*</i>	<i>BY77015*</i>	<i>BY77015*</i>
BY93960	BY100725	BY149007	BY150198	FT450849	FTB99308
<i>BY186440*</i>	<i>BY186440*</i>	<i>BY186440*</i>	<i>BY186440*</i>	<i>BY186440*</i>	<i>BY186440*</i>
					BY187664
<i>FGC30535*</i>	<i>FGC30535*</i>	<i>FGC30535*</i>	<i>FGC30535*</i>	<i>FGC30535*</i>	<i>FGC30535*</i>
<i>BY77371*</i>	<i>BY77371*</i>	<i>BY77371*</i>	<i>BY77371*</i>	<i>BY77371*</i>	<i>BY77371*</i>
					BY108746

FGC23796	BY158648	FGC23797	FGC23799	FGC23800	FGC23801
		<i>BY111005*</i>	<i>BY111005*</i>	<i>BY111005*</i>	<i>BY111005*</i>
		<i>BY111005*</i>	<i>BY111005*</i>	<i>BY111005*</i>	<i>BY111005*</i>
				<i>FT20917*</i>	<i>FT20917*</i>
			BY63482	FT268137	<i>BY63482*</i>
					<i>BY63482*</i>
BY199032	BY199540	BY200393	BY201012	BY225490	FT16385
FT134532	FT134562	FT135130	FT89382	<i>FT132319*</i>	<i>FT132319*</i>
				<i>FT132319*</i>	<i>FT132319*</i>
	FT415046	FT414973	FT415145	FT415169	FT415194
FT236584	FTA81323	FTA81678	FTA85239	FTA85813	FTA90633
					FT265165
					BY21619
<i>B42*</i>	<i>B42*</i>	<i>B42*</i>	<i>B42*</i>	<i>B42*</i>	<i>B42*</i>
BY211648	BY93972	FT180124	FT37889	FT431285	<i>BY74009*</i>

A7659*	A7659*	A7659*	A7659*	A7659*	A7659*
A7659*	A7659*	A7659*	A7659*	A7659*	A7659*
FT208006	FT206448	FT206513	FT207045	FT430617	FT208006*
					FT208006*
FT175691	FT175813	FT175976	FT174815*	FT174815*	FT174815*
			FT174815*	FT174815*	FT174815*
	FT47674	FT47401	FT47821	FT69755	FT47674*
					FT47674*
A7655	A7656	A7657	BY91926	FT82288	A7654*
					A7654*
					A7654*
					A7654*
A1135*	A1135*	A1135*	A1135*	A1135*	A1135*
FTB21025	Y88755	BY62857*	BY62857*	BY62857*	BY62857*
		BY62857*	BY62857*	BY62857*	BY62857*
A9450	BY219045	BY219046	FGC40177	FGC40179	FGC80306
BY32462*	BY32462*	BY32462*	BY32462*	BY32462*	BY32462*
BY32461	BY32463	BY32464	BY32465	Y111286	BY32460*
					BY32460*
		A12525	A12525*	A12525*	A12525*
			A12525*	A12525*	A12525*
			A12525*	A12525*	A12525*
	BY19775*	BY19775*	BY19775*	BY19775*	BY19775*
A956*	A956*	A956*	A956*	A956*	A956*
A956*	A956*	A956*	A956*	A956*	A956*
FT212634*	FT212634*	FT212634*	FT212634*	FT212634*	FT212634*
FT212634*	FT212634*	FT212634*	FT212634*	FT212634*	FT212634*
A7754	BY24170	BY24458	A7754*	A7754*	A7754*
			A7754*	A7754*	A7754*
FTA73987	FTA74264	FTA86827	Y280824	Y281270	Y282182
BY19778	BY19780	BY19781	BY44172	FT124899	FT125030
				FT66047*	FT66047*
				FT66047*	FT66047*
				FT66047*	FT66047*

				FT221747	FT282218
FT449520	FT66156	FT68942	FT69332	FT69341	FTA48403
		FT98282	FT227340	FT226494	FT226812
			FT390914	BY182344	BY182077
		FT35000			
			FT33931	FT33127	FT33427
					A5312*
	FT236270		FT236270*	FT236270*	FT236270*
		FT234914	FT236939	FT237061	FT440757
		FT259411	FT334756	M12124	FT259411*
					FT259411*
					FT259411*
					FT259411*

		FTA83516	FTA79359	FTA83534	FTA96579
BY136072	BY109264	BY224455	BY225353	FT39430	BY136072*
	BY23645	A8748	BY23776	FTA52623	BY23645*
FT7592*	FT7592*	FT7592*	FT7592*	FT7592*	FT7592*
FT223006	FT223022	FT433376	FT447855	FT452952	FT221512*
					FT221512*
				FTA25435	FTA43267
FT341486	FT342106	FT343121	FT359673		

					FT359343
				BY145883	BY58704
A195*	A195*	A195*	A195*	A195*	A195*
A761*	A761*	A761*	A761*	A761*	A761*
FT150026	FT150174	FT361911	MF89	FT148759*	FT148759*
				FT148759*	FT148759*
			FT60302*	FT60302*	FT60302*
			FT216347*	FT216347*	FT216347*
FT217079	FT218352	FTB59051	FT218547	FT214334	FT218547*
					FT218547*
	FT125416	FT127270	FT126423	FT126423*	FT126423*
					FT402567
FT60159	FT69754	FT64139	FT77248	FT344833	FT342966
				FT64084	FT64124
				FT60254	FT344788
					A12589
FTA53616*	FTA53616*	FTA53616*	FTA53616*	FTA53616*	FTA53616*
Z29660*	Z29660*	Z29660*	Z29660*	Z29660*	Z29660*
Z29660*	Z29660*	Z29660*	Z29660*	Z29660*	Z29660*
	A1338*	A1338*	A1338*	A1338*	A1338*
	A1338*	A1338*	A1338*	A1338*	A1338*
	A1338*	A1338*	A1338*	A1338*	A1338*
FT379055	FT436901	Y72144	FT377860*	FT377860*	FT377860*
			FT377860*	FT377860*	FT377860*
A13922*	A13922*	A13922*	A13922*	A13922*	A13922*
A13922*	A13922*	A13922*	A13922*	A13922*	A13922*
A13922*	A13922*	A13922*	A13922*	A13922*	A13922*
A1241	A1242	EC011950	ET06706	ET07010	A1336*

A1341	A1342	FGC11030	F100700	F107010	A1336*	
FT259889*	FT259889*	FT259889*	FT259889*	FT259889*	FT259889*	
FT259889*	FT259889*	FT259889*	FT259889*	FT259889*	FT259889*	
Y20467				BY55890*	BY55890*	
	BY74161	BY189467	BY80237	FT214047	FT214628	
A153*	A153*	A153*	A153*	A153*	A153*	
A153*	A153*	A153*	A153*	A153*	A153*	
A153*	A153*	A153*	A153*	A153*	A153*	
					BY11841*	
					BY11841*	
FT108570	FT108773	FT108842	FT108990	BY108570*	BY108570*	
				BY108570*	BY108570*	
	A474*	A474*	A474*	A474*	A474*	
	A474*	A474*	A474*	A474*	A474*	
	A474*	A474*	A474*	A474*	A474*	
FTB61096	FTB61379	FTB68842	FTB68853	FTB70032	MF641480	
		A88*	A88*	A88*	A88*	
		A88*	A88*	A88*	A88*	
BY77971	BY97424	FTA91381	FTA91949	FTA94216	Y4783	
BY23574*	BY23574*	BY23574*	BY23574*	BY23574*	BY23574*	
BY23574*	BY23574*	BY23574*	BY23574*	BY23574*	BY23574*	
FT409873*	FT409873*	FT409873*	FT409873*	FT409873*	FT409873*	
		BY208692			BY208692*	
			BY207095	FT179589	FTA52642	
FT99207			A7660*	A7660*	A7660*	
			A7660*	A7660*	A7660*	
			A7660*	A7660*	A7660*	
					BY203429	BY203546
	BY106347	FT98800	FT98908	BY106347*	BY106347*	
BY106347*				BY106347*		
BY106347*				BY106347*		
FT76192*	FT76192*	FT76192*	FT76192*	FT76192*	FT76192*	
FT76192*	FT76192*	FT76192*	FT76192*	FT76192*	FT76192*	
A155*	A155*	A155*	A155*	A155*	A155*	

FT396505	FT396950	<i>FT396199*</i>	<i>FT396199*</i>	<i>FT396199*</i>	<i>FT396199*</i>
		<i>FT396199*</i>	<i>FT396199*</i>	<i>FT396199*</i>	<i>FT396199*</i>
BY120698	BY76688	BY84653	BY99263	FT129501	<i>BY97073*</i>
					<i>BY97073*</i>
					<i>BY97073*</i>
Y169450	Y33241	FT111304	FT110280	FT110281	<i>BY142753*</i>
					<i>BY142753*</i>
					<i>BY142753*</i>
					<i>BY142753*</i>
					Z27975
FT276878	FT277144	FT277409	FT277879	FT278335	FT68661
<i>BY15518*</i>	<i>BY15518*</i>	<i>BY15518*</i>	<i>BY15518*</i>	<i>BY15518*</i>	<i>BY15518*</i>
<i>BY15518*</i>	<i>BY15518*</i>	<i>BY15518*</i>	<i>BY15518*</i>	<i>BY15518*</i>	<i>BY15518*</i>
<i>BY15518*</i>	<i>BY15518*</i>	<i>BY15518*</i>	<i>BY15518*</i>	<i>BY15518*</i>	<i>BY15518*</i>
<i>BY15518*</i>	<i>BY15518*</i>	<i>BY15518*</i>	<i>BY15518*</i>	<i>BY15518*</i>	<i>BY15518*</i>
	BY91970	BY144626	Y8606	<i>BY91970*</i>	<i>BY91970*</i>
				<i>BY91970*</i>	<i>BY91970*</i>
FT83642	BY218379	BY91857	FT83343	Y72614	Y72793

FT375738	CTS6490					<i>CTS6490*</i>			
						<i>CTS6490*</i>			
		FTA40874	FTB35987			<i>FTA40874*</i>	<i>FTA40874*</i>		
						<i>FTA40874*</i>	<i>FTA40874*</i>		
FT202848	FT202849	BY163142	FT59809	BY161181	FT190567				
								<i>BY104765*</i>	<i>BY104765*</i>
								<i>BY104765*</i>	<i>BY104765*</i>
								<i>BY104765*</i>	<i>BY104765*</i>
<i>FT85796*</i>	<i>FT85796*</i>	<i>FT85796*</i>	<i>FT85796*</i>	<i>FT85796*</i>	<i>FT85796*</i>				
FT86556	BY106263	BY75086	<i>FT86556*</i>	<i>FT86556*</i>	<i>FT86556*</i>				
			<i>FT86556*</i>	<i>FT86556*</i>	<i>FT86556*</i>				
<i>A10727*</i>	<i>A10727*</i>	<i>A10727*</i>	<i>A10727*</i>	<i>A10727*</i>	<i>A10727*</i>				
<i>A10727*</i>	<i>A10727*</i>	<i>A10727*</i>	<i>A10727*</i>	<i>A10727*</i>	<i>A10727*</i>				
<i>A10727*</i>	<i>A10727*</i>	<i>A10727*</i>	<i>A10727*</i>	<i>A10727*</i>	<i>A10727*</i>				
<i>A10727*</i>	<i>A10727*</i>	<i>A10727*</i>	<i>A10727*</i>	<i>A10727*</i>	<i>A10727*</i>				

				FTA28720	FTA29112
A12779	BY145328	BY77264	Y85564	Y86292	Z14956 (Laurence Collins 1702)
FT389270	FT389270*	FT389270*	FT389270*	FT389270*	FT389270*
	FT389307	FT387471	FT387653	FT387925	FT389967
					A2219*
					A2219*
					A2219*
					A2219*
					A12017
				A2294*	A2294*
				A2294*	A2294*
				A2294*	A2294*
				A2294*	A2294*
FT163700	FT162088	FT162172	FT162173	FT162181	FT163715
		A7755	A7755*	A7755*	A7755*
			A7755*	A7755*	A7755*
			BY70308		
BY2876*	BY2876*	BY2876*	BY2876*	BY2876*	BY2876*
F23785	FT358064	FT358065	FT82353	FT82733	FT83992
				BY24169	A12016
ZS4593	ZS4594	ZS6209	ZS4590*	ZS4590*	ZS4590*
			ZS4590*	ZS4590*	ZS4590*
	BY23396	A17710	A17711	BY200516	FGC65178
FGC42465*	FGC42465*	FGC42465*	FGC42465*	FGC42465*	FGC42465*
FGC42465*	FGC42465*	FGC42465*	FGC42465*	FGC42465*	FGC42465*
FT43021*	FT43021*	FT43021*	FT43021*	FT43021*	FT43021*
FT43021*	FT43021*	FT43021*	FT43021*	FT43021*	FT43021*
FT43021*	FT43021*	FT43021*	FT43021*	FT43021*	FT43021*
FT43021*	FT43021*	FT43021*	FT43021*	FT43021*	FT43021*
BY68911	BY54709	BY55143	FT182523	BY68911*	BY68911*
				BY68911*	BY68911*

		BY111825	FT123860	BY111825*	BY111825*
				BY111825*	BY111825*
BY96220	BY43610	BY82238	BY96220*	BY96220*	BY96220*
			BY96220*	BY96220*	BY96220*
	BY29109	BY29109*	BY29109*	BY29109*	BY29109*
		BY29109*	BY29109*	BY29109*	BY29109*
		BY29108	BY29108*	BY29108*	BY29108*
			BY29108*	BY29108*	BY29108*
			BY29108*	BY29108*	BY29108*
			BY29108*	BY29108*	BY29108*
FTA28323	FTA29096	FTA29227	FTA29292	FTA33728	FTB33286
			BY39363*	BY39363*	BY39363*
			BY39363*	BY39363*	BY39363*
			BY39363*	BY39363*	BY39363*
			FT95639*	FT95639*	FT95639*
			FT95639*	FT95639*	FT95639*
			FT95639*	FT95639*	FT95639*
			FT95639*	FT95639*	FT95639*

BY81670	BY98212	BY144697	BY207791	BY43989	Y138419 (John Cuebrera 177)
		FT200346	FT200346*	FT200346*	FT200346*
			FT200346*	FT200346*	FT200346*
			FT200346*	FT200346*	FT200346*
					BY171262
BY16026	PR2745*	PR2745*	PR2745*	PR2745*	PR2745*
					BY128975

FT84573	FT84728	FT85192	FT85252 (Edward Teague, 1660-1697)	FT85261	Y29016
				A1133*	A1133*
				A1133*	A1133*
				A1133*	A1133*

<i>FGC29068*</i>	<i>FGC29068*</i>	<i>FGC29068*</i>	<i>FGC29068*</i>	<i>FGC29068*</i>	<i>FGC29068*</i>
BY185769	FGC75097	FT186366	FT188588	FT188601	FT188968
				<i>BY2880*</i>	<i>BY2880*</i>
<i>BY43744*</i>	<i>BY43744*</i>	<i>BY43744*</i>	<i>BY43744*</i>	<i>BY43744*</i>	<i>BY43744*</i>
		<i>FT96700*</i>	<i>FT96700*</i>	<i>FT96700*</i>	<i>FT96700*</i>
<i>FT96881*</i>	<i>FT96881*</i>	<i>FT96881*</i>	<i>FT96881*</i>	<i>FT96881*</i>	<i>FT96881*</i>
<i>FT96881*</i>	<i>FT96881*</i>	<i>FT96881*</i>	<i>FT96881*</i>	<i>FT96881*</i>	<i>FT96881*</i>
FTB84707	FTB84855	FTC43289	<i>FTB79755*</i>	<i>FTB79755*</i>	<i>FTB79755*</i>
			<i>FTB79755*</i>	<i>FTB79755*</i>	<i>FTB79755*</i>
		<i>BY201782*</i>	<i>BY201782*</i>	<i>BY201782*</i>	<i>BY201782*</i>
BY201859	FT16703	<i>BY201596*</i>	<i>BY201596*</i>	<i>BY201596*</i>	<i>BY201596*</i>
FT227419	FT227673	FT422769	FT424353	Y168316	Y99257
<i>A2221*</i>	<i>A2221*</i>	<i>A2221*</i>	<i>A2221*</i>	<i>A2221*</i>	<i>A2221*</i>
		A6464	FT43265	Y20070	<i>A6464*</i>
					<i>A6464*</i>
					<i>A6464*</i>
					<i>A6464*</i>
FGC29075	FGC29078	FGC29071	BY74966	FGC29069	FGC29076
		BY168422	<i>BY168422*</i>	<i>BY168422*</i>	<i>BY168422*</i>
			<i>BY168422*</i>	<i>BY168422*</i>	<i>BY168422*</i>
		BY64196	BY138834 > BY218274	FT85425	FT86193
FTA17324	BY131880	BY180431	BY180434	BY180840	BY180910
				<i>BY3531*</i>	<i>BY3531*</i>
				<i>BY3531*</i>	<i>BY3531*</i>
				<i>BY3531*</i>	<i>BY3531*</i>
			BY207612	FT35652	FT361600
A914				BY121634	FT303169
	BY137015	BY218524	FT206174	FT206478	BY71573
					<i>BY137015*</i>
	<i>BY111610</i>	<i>BY57625</i>	<i>BY06011</i>	<i>FT15160</i>	<i>FT151050</i>

	DT144010	DT37023	DT00011	FT13400	FT431930
	FGC29280*	FGC29280*	FGC29280*	FGC29280*	FGC29280*
		BY42407	BY42407*	BY42407*	BY42407*
			BY42407*	BY42407*	BY42407*
BY179531	BY180077	BY21048			
			FT355316	FT354911	FT439604
FT183002	FTB34095				
		FTB32484	Y98603	BY61223	BY113628
FGC29291*	FGC29291*	FGC29291*	FGC29291*	FGC29291*	FGC29291*
FGC29291*	FGC29291*	FGC29291*	FGC29291*	FGC29291*	FGC29291*
FGC29291*	FGC29291*	FGC29291*	FGC29291*	FGC29291*	FGC29291*
FT75714*	FT75714*	FT75714*	FT75714*	FT75714*	FT75714*
FT75714*	FT75714*	FT75714*	FT75714*	FT75714*	FT75714*
FGC29286*	FGC29286*	FGC29286*	FGC29286*	FGC29286*	FGC29286*
			FGC29289*	FGC29289*	FGC29289*
FGC29283	FGC29285	FGC29290			FGC29281
BY216449	BY43530	BY91403	FT165317	FT170830	Y92482
A726*	A726*	A726*	A726*	A726*	A726*
BY125085	BY63107	BY69975			
			FTA40948	FT154536	FTA38889
FT437700					
	FT107283	FT106747	FT108260	FT108419	FTC1706
FT27204*	FT27204*	FT27204*	FT27204*	FT27204*	FT27204*
		FT235624	FT235487		
				BY68839	BY55384
FT16978	FT17558	FT22709	FT23932	FT24337	FT26223
FT86973	FT153755	FT152532	FT152960	FT153005	FT154877
	BY127407	BY53342	BY127407*	BY127407*	BY127407*
			BY127407*	BY127407*	BY127407*
BY66777*	BY66777*	BY66777*	BY66777*	BY66777*	BY66777*

BY66777*	BY66777*	BY66777*	BY66777*	BY66777*	BY66777*
				BY44591	BY44649
					S1129*
					S1129*
					S1129*
					S1129*
					S1129*
					S1129*
FT124435	FGC36625	FT124356	FT124435*	FT124435*	FT124435*
			FT124435*	FT124435*	FT124435*
			FT124435*	FT124435*	FT124435*
		S1112	BY90497	BY91305	S1123

		FT41075	FT183047	FT41278	FT42153
BY177042	BY177176	BY177425	FTB59049	FTB59050	BY176882*
					BY176882*
		A150*	A150*	A150*	A150*
		A150*	A150*	A150*	A150*
FT346134*	FT346134*	FT346134*	FT346134*	FT346134*	FT346134*
FT346134*	FT346134*	FT346134*	FT346134*	FT346134*	FT346134*
BY80113*	BY80113*	BY80113*	BY80113*	BY80113*	BY80113*
BY80113*	BY80113*	BY80113*	BY80113*	BY80113*	BY80113*
FT207324*	FT207324*	FT207324*	FT207324*	FT207324*	FT207324*
		Y33141	Y33141*	Y33141*	Y33141*
			Y33141*	Y33141*	Y33141*

BY2879	A745	A746	A747	A748	A745*
					A745*
					BY198766*
FTA98174	FT320410	FT367918	FTA98695	FTB49953	FTB50143
		FGC11142*	FGC11142*	FGC11142*	FGC11142*
FGC11159.1	FGC11152				FGC11152*
					FGC11152*
					FGC11152*
		FT140136	FT135889	FT136009	FT136977
A20858	A20859	A20860	A20861	FT293644	P98

					A9185*
					A9185*
					A9185*
					A9185*
Y154798*	Y154798*	Y154798*	Y154798*	Y154798*	Y154798*
Y154798*	Y154798*	Y154798*	Y154798*	Y154798*	Y154798*
		A18874			A18873
			FT359985	BY134953	BY122528
FTA82895	FTA94396	FTA94421	FTB41332	FTB42529	FTB42530
FT80907	Y144636	Y144647	Y144661	Y144664	Y144668
BY120137	BY134191 > BY140505	FTB36236 > FTB36298	FTB37389 > FTB44639	BY156904	BY53533
BY61240	BY104782	BY120002	BY134716	BY143402	BY143416
FT388070	FT388194	FT388927	FT389124	FT389457	FT389961
A6509	BY24541	BY3529	FTB85352	FTB87267	A6510
FT98575	FT98580	FT98242*	FT98242*	FT98242*	FT98242*
		FT98242*	FT98242*	FT98242*	FT98242*
CTS5536	CTS8921	FT95198	FT95981	CTS9233*	CTS9233*
FT83519					BY23686*
	BY23843	FT83984	BY23843*	BY23843*	BY23843*
			BY23843*	BY23843*	BY23843*
BY21825*	BY21825*	BY21825*	BY21825*	BY21825*	BY21825*
BY63432	BY135210	BY220565	FT309449	BY63432*	BY63432*
				BY63432*	BY63432*
				Y139079*	Y139079*

FT206394	<i>FT207609*</i>	<i>FT207609*</i>	<i>FT207609*</i>	<i>FT207609*</i>	<i>FT207609*</i>
	<i>FT207609*</i>	<i>FT207609*</i>	<i>FT207609*</i>	<i>FT207609*</i>	<i>FT207609*</i>
	<i>BY34719*</i>	<i>BY34719*</i>	<i>BY34719*</i>	<i>BY34719*</i>	<i>BY34719*</i>
		BY65170		<i>BY65170*</i>	<i>BY65170*</i>
			FT62343	FT62466	<i>BY65170*</i>
					<i>FT62343*</i>
					<i>FT62343*</i>
BY140117	BY147868	<i>BY102748*</i>	<i>BY102748*</i>	<i>BY102748*</i>	<i>BY102748*</i>
			BY72127	BY59080	<i>BY72127*</i>
					<i>BY72127*</i>
					<i>BY72127*</i>
<i>A664*</i>	<i>A664*</i>	<i>A664*</i>	<i>A664*</i>	<i>A664*</i>	<i>A664*</i>
<i>A664*</i>	<i>A664*</i>	<i>A664*</i>	<i>A664*</i>	<i>A664*</i>	<i>A664*</i>
<i>A664*</i>	<i>A664*</i>	<i>A664*</i>	<i>A664*</i>	<i>A664*</i>	<i>A664*</i>
<i>A664*</i>	<i>A664*</i>	<i>A664*</i>	<i>A664*</i>	<i>A664*</i>	<i>A664*</i>
	FTB46515	FT108528	FT361762	A1511	A1512
BY15517	BY24173	BY24180	FT225662	FT226161	BY30547
FTB23573			<i>FTB22351*</i>	<i>FTB22351*</i>	<i>FTB22351*</i>
	FTB51422	FT175014	FTB52284	FTC14663	<i>FTB51422*</i>
					<i>FTB51422*</i>
BY107284	BY150387	BY86785	BY90550	BY97684	FTA78739
<i>BY130219*</i>	<i>BY130219*</i>	<i>BY130219*</i>	<i>BY130219*</i>	<i>BY130219*</i>	<i>BY130219*</i>
<i>BY130219*</i>	<i>BY130219*</i>	<i>BY130219*</i>	<i>BY130219*</i>	<i>BY130219*</i>	<i>BY130219*</i>
<i>BY23543*</i>	<i>BY23543*</i>	<i>BY23543*</i>	<i>BY23543*</i>	<i>BY23543*</i>	<i>BY23543*</i>
<i>BY24080*</i>	<i>BY24080*</i>	<i>BY24080*</i>	<i>BY24080*</i>	<i>BY24080*</i>	<i>BY24080*</i>
BY23599	BY23850	BY24280	FT127345	SK778	<i>BY23443*</i>
					<i>BY23443*</i>
			<i>A7752*</i>	<i>A7752*</i>	<i>A7752*</i>
					<i>BY34893*</i>
BY69984	BY102524	BY133409	BY52983	FT225369	FT74318
<i>A923*</i>	<i>A923*</i>	<i>A923*</i>	<i>A923*</i>	<i>A923*</i>	<i>A923*</i>
	<i>BY51516*</i>	<i>BY51516*</i>	<i>BY51516*</i>	<i>BY51516*</i>	<i>BY51516*</i>
BY51521	FT183007	FT86706	FT86719	FT87407	<i>BY51519*</i>
					<i>BY51519*</i>

BY188808	BY189335	BY164394	BY164394*	BY164394*	BY164394*
			BY164394*	BY164394*	BY164394*
				Y108997*	Y108997*
			FTA26679	BY54637	FTA26861

FT413431	FT412533	FT413747	FT414144	FT414151	FT414485
					BY21613*
					BY21613*

BY61468*	BY61468*	BY61468*	BY61468*	BY61468*	BY61468*
	FTB56203	FTB56235	FTB68062	FTB56203*	FTB56203*
				FTB56203*	FTB56203*
Y103372*	Y103372*	Y103372*	Y103372*	Y103372*	Y103372*
FT29692	FT30414	FT30672	FT31687	FT29466*	FT29466*
				FT29466*	FT29466*
BY21614*	BY21614*	BY21614*	BY21614*	BY21614*	BY21614*
			FT18336*	FT18336*	FT18336*
	FTC4533	FTC67391	FTC4533*	FTC4533*	FTC4533*
			FTC4533*	FTC4533*	FTC4533*

FT234465	FT234492	FT234586	FT234765	FT234766	FT258194
			BY109226	BY109226*	BY109226*
				BY109226*	BY109226*

FT198473	FT199593	FT406700	Z38201*	Z38201*	Z38201*
			Z38201*	Z38201*	Z38201*

FT19469	FT21930	FT22031	FT22321	FT225395	FT25514
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BY200501	BY201138	BY201407	BY209454	FT225350	BY199281*
					BY199869

BY30544	BY30545	BY30546	FT64491	BY30546*	BY30546*
					FTB16646
				BY34891	BY34892

3	2	1	FTDNA	Surname	Country	
1820	1885	1950	Kit No.	of MRKA	of origin	
A17979*	A17979*	A17979*	287251	Morgan	Ireland	
A17979*	A17979*	A17979*	?	?	Ireland	
FGC43844*	FGC43844*	FGC43844*	IN39543	Gordon	Ulster	
FGC43847*	FGC43847*	FGC43847*	B211485	Gordon	USA	
FGC43838	FGC43838*	FGC43838*	370718	McKinney	unknown	
	FGC43838*	FGC43838*	129782	Jones	unknown	
S1115*	S1115*	S1115*	IN116501	Urien	France	
BY23626*	BY23626*	BY23626*	263719	McCormack	Ireland	
BY23626*	BY23626*	BY23626*	?	?	Ulster	
FT86584*	FT86584*	FT86584*	B304265	Jones	England	
	JFS0135	BY204016	159713	Jones	Ireland	
			?	?	Ireland	
	A12400*	A12400*	878554	Roberts	USA	
	A12400*	A12400*	?	?	USA	
	A12400*	A12400*	967221	Roberts	unknown	
FT89695*	FT89695*	FT89695*	?	?	unknown	
FT241001*	FT241001*	FT241001*	360259	Roberts	England	
FT241001*	FT241001*	FT241001*	875573	Roberts	unknown	
FT241001*	FT241001*	FT241001*	?	?	unknown	
		FT225338	MK57004	Roberts	unknown	
			N132267	Roberts	unknown	
			?	?	unknown	
FTB69998*	FTB69998*	FTB69998*	?	?	unknown	
BY160866	BY93841	BY90083*	593778	Roberts	USA	
		BY90083*	14409	Roberts	USA	
			B811097	Roberts	USA	
			BY218841*	B124558	NPE	USA
			BY218841*	?	?	USA
			BY218841*	?	?	unknown
FT460457	FT51651*	FT51651*	737649	Roberts	USA	
	FT51651*	FT51651*	820317	Roberts	USA	
A212*	A212*	A212*	N144863	Robertson	Scotland	
A7651	A7649	A7648	99139	Stalker	UK	
			106549	Stalker	unknown	
A6518*	A6518*	A6518*	166439	Walker	England	
A6518*	A6518*	A6518*	?	?	USA	
	BY113739	BY113739*	18396	Walker	Ireland	
		BY113739*	?	?	unknown	
A19227*	A19227*	A19227*	?	?	unknown	
A19227*	A19227*	A19227*	?	?	unknown	
A206*	A206*	A206*	226109	Weir	Scotland	

A208*	A208*	A208*	21418	Crain	Scotland
A7699*	A7699*	A7699*	814352	Lindsay	Scotland
A7699*	A7699*	A7699*	U2460	Swinson	unknown
FTA87606*	FTA87606*	FTA87606*	?	?	USA
FTA88737*	FTA88737*	FTA88737*	?	?	Scotland
FTA88737*	FTA88737*	FTA88737*	B768436	Campbell	unknown
BY141017*	BY141017*	BY141017*	61760	Bergin	Ireland
BY141017*	BY141017*	BY141017*	?	?	unknown
Z25357	FTA7527*	FTA7527*	930704	Boylan	Ireland
	FTA7527*	FTA7527*	?	?	unknown
FT95732	FT96066	BY66248*	121376	McCulloch	Scotland
		BY66248*	1087	McCulloch	USA
		BY66248*	?	?	Ireland
BY42760*	BY42760*	BY42760*	B94719	Roddy	Ireland
FTB15758*	FTB15758*	FTB15758*	212998	Savage	England
FTB15758*	FTB15758*	FTB15758*	956444	Savage	unknown
FTB15758*	FTB15758*	FTB15758*	?	?	unknown
BY53755*	BY53755*	BY53755*	63259	Smith	Ireland
BY53755*	BY53755*	BY53755*	?	?	unknown
BY53755*	BY53755*	BY53755*	?	?	unknown
FT22615*	FT22615*	FT22615*	502781	Lindsey	unknown
FT124898*	FT124898*	FT124898*	938935	Lynch	Ireland
FT124898*	FT124898*	FT124898*	?	?	Scotland
BY222454*	BY222454*	BY222454*	136639	Cuffe	Ireland
BY222454*	BY222454*	BY222454*	?	?	Ireland
BY222454*	BY222454*	BY222454*	853794	Hall	USA
BY3862*	BY3862*	BY3862*	B2560	Murphy	Ulster
BY3862*	BY3862*	BY3862*	N125723	Murphy	Ireland
A6526*	A6526*	A6526*	?	?	Ulster
BY186342*	BY186342*	BY186342*	B654981	Miller	Ulster
	FT161067*	FT161067*	69621	Henry	Ireland
FT159560*	FT159560*	FT159560*	907986	Gibson	unknown
FT231295*	FT231295*	FT231295*	322250	Gibson	Ulster
FT231295*	FT231295*	FT231295*	334149	Gibson	UK
FT230101	BY200345*	BY200345*	415796	Menaugh	Ireland
	BY200345*	BY200345*	?	?	Ireland
A6529	A6529*	A6529*	283159	Thompson	Ireland
	A6529*	A6529*	183403	Hamilton	UK
	A6529*	A6529*	249476	Hamilton	unknown
BY79430*	BY79430*	BY79430*	?	?	Ireland
BY118388	BY102663*	BY102663*	350808	Kelly	unknown
	BY102663*	BY102663*	?	?	unknown
FT19559*	FT19559*	FT19559*	207493	Weir	Scotland
FT19559*	FT19559*	FT19559*	191515	Adams	Ulster

<i>FT19559*</i>	<i>FT19559*</i>	<i>FT19559*</i>	901888	Weir	unknown
<i>A9513*</i>	<i>A9513*</i>	<i>A9513*</i>	IN16219	Paton	Scotland
<i>A9513*</i>	<i>A9513*</i>	<i>A9513*</i>	326295	Lennox	unknown
FT179161	<i>FT179161*</i>	<i>FT179161*</i>	286042	Thompson	unknown
	<i>FT179161*</i>	<i>FT179161*</i>	118168	Thompson	unknown
	<i>FT179161*</i>	<i>FT179161*</i>	185596	Thompson	unknown
	<i>FT179161*</i>	<i>FT179161*</i>	?	?	unknown
<i>FGC84010*</i>	<i>FGC84010*</i>	<i>FGC84010*</i>	IN81160	Wood	England
<i>FGC84010*</i>	<i>FGC84010*</i>	<i>FGC84010*</i>	?	?	Ireland
FTB20473	Z6559	<i>FT263830*</i>	?	?	USA
		<i>FT263830*</i>	?	?	unknown
<i>FT17964*</i>	<i>FT17964*</i>	<i>FT17964*</i>	N96330	Delaney	Ireland
	<i>BY93490*</i>	<i>BY93490*</i>	330331	Doorey	England
Y3442 (Thomas Dunn, 1835- 1885 Manchester)	FT24801	BY69735	B8872	Dunn	England
			349619	Dunn	England
		<i>FT24801*</i>	MK65825	Dunn	England
				463287	Dunn
BY24710	<i>A5595*</i>	<i>A5595*</i>	267249	Butler	Ireland
	<i>A5595*</i>	<i>A5595*</i>	84676	Butler	England
<i>FT33173*</i>	<i>FT33173*</i>	<i>FT33173*</i>	586190	Moore	Ireland
<i>FT33326*</i>	<i>FT33326*</i>	<i>FT33326*</i>	274652	McEvoy	Ireland
<i>FT33326*</i>	<i>FT33326*</i>	<i>FT33326*</i>	148516	Drennan	Ireland
<i>FT33326*</i>	<i>FT33326*</i>	<i>FT33326*</i>	643319	McAvoy	Ireland
<i>FT33326*</i>	<i>FT33326*</i>	<i>FT33326*</i>	63117	McEvoy	Ireland
<i>FT33326*</i>	<i>FT33326*</i>	<i>FT33326*</i>	602748	McEvoy	Ireland
<i>FT34500*</i>	<i>FT34500*</i>	<i>FT34500*</i>	B205587	McAvoy	Ireland
FT35270	FT34667	FT34819	811766	Cavanaugh	Ireland
			AM15727	Cavanaugh	Ireland
<i>A2291*</i>	<i>A2291*</i>	<i>A2291*</i>	130070	McBee	Scotland
<i>A2291*</i>	<i>A2291*</i>	<i>A2291*</i>	268892	Plunkett	Ireland
<i>BY81788*</i>	<i>BY81788*</i>	<i>BY81788*</i>	836889	Moore	Ireland
<i>BY81788*</i>	<i>BY81788*</i>	<i>BY81788*</i>	299740	Moore	Ireland
<i>FT62340*</i>	<i>FT62340*</i>	<i>FT62340*</i>	SI12656	Moore	Ireland
<i>FT62340*</i>	<i>FT62340*</i>	<i>FT62340*</i>	99253	Moore	Ireland
	<i>FTA33572*</i>	<i>FTA33572*</i>	919646	Dunne	Ireland
<i>BY104884*</i>	<i>BY104884*</i>	<i>BY104884*</i>	N108250	Lawler	Ireland
<i>BY104884*</i>	<i>BY104884*</i>	<i>BY104884*</i>	B148772	Lawlor	Ireland
<i>FT57712*</i>	<i>FT57712*</i>	<i>FT57712*</i>	IN102703	Moore	Ireland
<i>FT57712*</i>	<i>FT57712*</i>	<i>FT57712*</i>	N55067	Dowling	Ireland
MF43490	<i>FT430185*</i>	<i>FT430185*</i>	B429031	Moore	Ireland
	<i>FT430185*</i>	<i>FT430185*</i>	171262	Moore	Ireland
	<i>FT430185*</i>	<i>FT430185*</i>	903468	Moore	England
<i>FT57428*</i>	<i>FT57428*</i>	<i>FT57428*</i>	743640	Moore	Ireland
<i>FT57428*</i>	<i>FT57428*</i>	<i>FT57428*</i>	IN52181	Moore	Ireland

A151*	A151*	A151*	?	?	?
FT126960*	FT126960*	FT126960*	128597	Flowers	England
FT126960*	FT126960*	FT126960*	210257	Borre	Denmark
FT83818*	FT83818*	FT83818*	?	?	Ireland
BY110712*	BY110712*	BY110712*	367981	Kelly	Ireland
BY110712*	BY110712*	BY110712*	?	?	UK
FGC29768*	FGC29768*	FGC29768*	101204	Morrissey	Ireland
F4219*	F4219*	F4219*	MI51371	Morrison	Scotland
FTA47305*	FTA47305*	FTA47305*	?	?	Scotland
FTA47305*	FTA47305*	FTA47305*	?	?	Scotland
FTC48755	FTB77708*	FTB77708*	?	?	Scotland
	FTB77708*	FTB77708*	?	?	Scotland
	FGC29771*	FGC29771*	567235	McCauley	Scotland
	FGC29771*	FGC29771*	214888	MacAulay	Scotland
	FGC29771*	FGC29771*	71671	Macaulay	Scotland
	FGC29771*	FGC29771*	N213691	MacAulay	Scotland
	FGC29771*	FGC29771*	?	?	Scotland
FT183034*	FT183034*	FT183034*	?	?	Scotland
FGC29774	FGC29774*	FGC29774*	B285387	Macaulay	Scotland
	FGC29774*	FGC29774*	41613	Macaulay	Scotland
BY51215*	BY51215*	BY51215*	IN23391	Macaulay	Scotland
BY51215*	BY51215*	BY51215*	556370	Macaulay	Scotland
BY99312*	BY99312*	BY99312*	756190	Macaulay	Scotland
BY99312*	BY99312*	BY99312*	?	?	Scotland
FT137005	FGC34068	Y62753	B69378	Macaulay	Scotland
			446648	Macaulay	Scotland
	FT137005*	FT137005*	IN10518	Macaulay	Scotland
			64647	Macaulay	Scotland
			?	?	Scotland
			F3189*	275642	Macaulay
FT124750	BY96071*	BY96071*	93950	Macaulay	Scotland
	BY96071*	BY96071*	?	?	Scotland
FT112266	Y59119	FT112056*	307509	Macaulay	Scotland
		FT112056*	?	?	Scotland
BY65689*	BY65689*	BY65689*	?	?	USA
BY212618*	BY212618*	BY212618*	MK25249	?	unknown
BY153739	BY154056	BY153186*	690902	James	USA
		BY153186*	B491046	James	USA
		BY153186*	?	?	unknown
BY43350*	BY43350*	BY43350*	B48749	Fealy	Ireland
BY130073*	BY130073*	BY130073*	?	?	Ireland
BY130073*	BY130073*	BY130073*	?	?	unknown
A12087*	A12087*	A12087*	38804	Givens	Ireland
FT275024	A12149*	A12149*	240139	Patterson	unknown

FT373024	A12149*	A12149*	?	?	unknown
BY140*	BY140*	BY140*	H1944	Romundstad	Norway
BY140*	BY140*	BY140*	426842	Rønningen	Norway
BY77015*	BY77015*	BY77015*	IN41257	Rimmer	UK
BY77015*	BY77015*	BY77015*	250373	Boone	unknown
FTC11815	BY93960*	BY93960*	?	?	USA
	BY93960*	BY93960*	?	?	unknown
BY186440*	BY186440*	BY186440*	?	?	unknown
BY187678	BY188530	BY187664*	54066	Hill	England
		BY187664*	314891	Hill	USA
FGC30535*	FGC30535*	FGC30535*	8031	Hamilton	Scotland
BY77371*	BY77371*	BY77371*	B171492	Lloyd	Australia
BY114931	BY128254	BY108746*	204927	Brazil	unknown
		BY108746*	?	?	unknown
FGC30538	FGC30538*	FGC30538*	310554	Brazil	Ireland
	FGC30538*	FGC30538*	?	?	Ireland
FGC23803	FGC23804	FGC23796*	25836	Davidson	unknown
		FGC23796*	?	?	unknown
BY111005*	BY111005*	BY111005*	IN80467	Molloy	Ireland
BY111005*	BY111005*	BY111005*	?	?	Ireland
FT20917*	FT20917*	FT20917*	139252	Shinnick	Ireland
BY63482*	BY63482*	BY63482*	437922	Hallahan	Ireland
BY63482*	BY63482*	BY63482*	437922	Shinnick	USA
BY197966*	BY197966*	BY197966*	168616	O'Neill	Ireland
BY197966*	BY197966*	BY197966*	323149	Fox	Ireland
FT132319*	FT132319*	FT132319*	662720	Brien	Ireland
FT132319*	FT132319*	FT132319*	959508	O'Brien	Ireland
FT426039	FT415046*	FT415046*	541673	Wood	England
	FT415046*	FT415046*	239974	Reardon	USA
	FT415046*	FT415046*	970831	Hopkins	unknown
	FT415046*	FT415046*	?	?	unknown
	FT415046*	FT415046*	?	?	unknown
FTA81303*	FTA81303*	FTA81303*	162959	Jones	Wales
FTA81303*	FTA81303*	FTA81303*	946019	Jones	unknown
FT265166	BY57987*	BY57987*	10505	Simmons	England
	BY57987*	BY57987*	234464	Willis	USA
		BY21619*	308826	Pearson	England
		BY21619*	?	?	England
		BY21619*	?	?	unknown
BY34899	BY34899*	BY34899*	303548	Richie	Ireland
	BY34899*	BY34899*	?	?	unknown
B42*	B42*	B42*	268141	Brothers	Wales
BY74009*	BY74009*	BY74009*	?	?	unknown
BY108004	BY22060	BY108004*	245010	Ober	unknown

DT100004	152909	BY108004*	?	?	unknown
A7659*	A7659*	A7659*	240898	Jones	UK
A7659*	A7659*	A7659*	222314	O'Connell	Ireland
FT208006*	FT208006*	FT208006*	8927	Shea	Ireland
FT208006*	FT208006*	FT208006*	?	?	Ireland
FT174815*	FT174815*	FT174815*	B671580	Connell	Ireland
FT174815*	FT174815*	FT174815*	?	?	unknown
FT47674*	FT47674*	FT47674*	B1159	Connell	Ireland
FT47674*	FT47674*	FT47674*	564716	Connell	Ireland
A7654*	A7654*	A7654*	128141	O'Connell	Ireland
A7654*	A7654*	A7654*	112325	O'Connell	Ireland
A7654*	A7654*	A7654*	N62032	O'Connell	Ireland
A7654*	A7654*	A7654*	444147	O'Connell	Ireland
	FT417354	BY124305	220067	O'Connell	Ireland
			?	?	Ireland
A1135*	A1135*	A1135*	355848	Thorpe	Ireland
BY62857*	BY62857*	BY62857*	275522	McAuliffe	Ireland
BY62857*	BY62857*	BY62857*	?	?	Ireland
A9426*	A9426*	A9426*	364427	Aber	Wales
A9426*	A9426*	A9426*	B100601	Aber	UK
BY32462*	BY32462*	BY32462*	281968	Hickey	Ireland
BY32460*	BY32460*	BY32460*	81544	Hickey	Ireland
BY32460*	BY32460*	BY32460*	80818	Memos	Ireland
A12525*	A12525*	A12525*	942600	Connell	Ireland
A12525*	A12525*	A12525*	710588	Hickey	Ireland
A12525*	A12525*	A12525*	N28633	Martin	Ireland
BY19775*	BY19775*	BY19775*	114459	Franklin	Ireland
A956*	A956*	A956*	293678	Daley	Ireland
A956*	A956*	A956*	959372	Kelly	Ireland
FT212634*	FT212634*	FT212634*	208185	Kirby	Ireland
FT212634*	FT212634*	FT212634*	?	?	Ireland
A7754*	A7754*	A7754*	335758	Lindsey	Ireland
A7754*	A7754*	A7754*	B1114	Lindsey	Ireland
		FTA73940*	938990	Arbing	unknown
FTA86631	FTA86631*	FTA86631*	B476676	O'Neal	USA
	FTC62006	FTC62006*	B169652	O'Neal	USA
		FTC62006*	?	?	unknown
Z39811	BY19776*	BY19776*	189728	Robertson	Scotland
	BY19776*	BY19776*	444316	Robertson	Scotland
	BY19776*	BY19776*	636762	Robertson	Scotland
	BY19776*	BY19776*	?	?	Scotland
FT66047*	FT66047*	FT66047*	?	?	Ireland
FT66047*	FT66047*	FT66047*	?	?	Ireland
FT66047*	FT66047*	FT66047*	IN108148	Barry	unknown

FT393589	FT450541	FT221747*	?	?	Ireland
		FT221747*	?	?	Ireland
FT67860*	FT67860*	FT67860*	?	?	unknown
FT67860*	FT67860*	FT67860*	?	?	unknown
FT227494		FT227340*	?	?	unknown
		FT227340*	?	?	unknown
BY182055	BY181317	FT98485	?	?	Ireland
			?	?	unknown
FT35176	FT33971	FT35000*	?	?	Ireland
		FT33931*	?	?	Ireland
		FT33971*	?	?	Ireland
		FT33971*	?	?	unknown
A5312*	A5312*	A5312*	?	?	Ireland
FT236270*	FT236270*	FT236270*	N124160	Connolly	Ireland
FT453079	FTA37206	FT234914*	?	?	Tajikistan
		FT234914*	?	?	unknown
		FT234914*	?	?	unknown
FT259411*	FT259411*	FT259411*	235487	Daly	Ireland
FT259411*	FT259411*	FT259411*	?	?	Ireland
FT259411*	FT259411*	FT259411*	?	?	Ireland
FT259411*	FT259411*	FT259411*	?	?	unknown
BY34896*	BY34896*	BY34896*	31143	Desmond	Ireland
BY34896*	BY34896*	BY34896*	?	?	Ireland
BY34896*	BY34896*	BY34896*	?	?	unknown
BY34896*	BY34896*	BY34896*	?	?	unknown
FTA96680	FTA96772	FTA83516	?	?	Ireland
			?	?	unknown
BY136072*	BY136072*	BY136072*	?	?	unknown
	BY103331	BY103331*	?	?	Ireland
		BY103331*	?	?	unknown
BY23645*	BY23645*	BY23645*	227225	Bryan	unknown
A7753	A7753*	A7753*	46005	Bryan	Ireland
	A7753*	A7753*	17156	Bryan	Ireland
FT7592*	FT7592*	FT7592*	?	?	Germany
FT221512*	FT221512*	FT221512*	513741	Britt	Ireland
FT221512*	FT221512*	FT221512*	325534	Gore	unknown
		A2427*	A3093	Hazzard	England
		A2427*	447329	Hazzard	unknown
FTA25435*	FTA25435*	FTA25435*	?	?	USA
FTA25435*	FTA25435*	FTA25435*	?	?	USA
		FT200212	569858	Hazard	USA
			?	?	unknown
			?	?	unknown
		FT106101	938674	Clarke	England

FT358974	FT358852	FT100101	233447	Clarke	England
			939972	Clarke	England
FT364071	FT364507	BY145883*	510187	Shreve	England
		BY145883*	425233	Shreve	unknown
		BY145883*	247223	Morgan	unknown
A195*	A195*	A195*	902538	Rowe	USA
A761*	A761*	A761*	739263	O'Donegan	Ireland
FT148759*	FT148759*	FT148759*	?	?	USA
FT148759*	FT148759*	FT148759*	937263	Baker	unknown
FT60302*	FT60302*	FT60302*	?	?	Ireland
FT216347*	FT216347*	FT216347*	?	?	unknown
FT218547*	FT218547*	FT218547*	?	?	Ireland
FT218547*	FT218547*	FT218547*	?	?	unknown
		FTB59051*	?	?	unknown
FT126423*	FT126423*	FT126423*	?	?	unknown
FT402567*	FT402567*	FT402567*	?	?	unknown
FT402567*	FT402567*	FT402567*	?	?	unknown
	FT202433	FT202433*	409322	Daly	Ireland
		FT202433*	?	?	unknown
		FT60152*	?	?	Ireland
		FT64139*	288748	Daly	Canada
	FT344833*	FT344833*	?	?	Ireland
FT342772	F22130	FT334129	?	?	Ireland
			?	?	Ireland
FT64125	FT64208	FT64084*	?	?	Ireland
		FT64084*	?	?	Ireland
		FT64084*	?	?	Ireland
		FT64084*	?	?	unknown
FT344789	FT344790	FT60254*	?	?	Ireland
		FT60254*	?	?	unknown
A12591	A12589*	A12589*	469572	Lynch	Ireland
	A12589*	A12589*	363004	McLaren	Scotland
FTA53616*	FTA53616*	FTA53616*	?	?	unknown
Z29660*	Z29660*	Z29660*	225829	Hogan	unknown
Z29660*	Z29660*	Z29660*	?	?	unknown
A1338*	A1338*	A1338*	30296	Allen	Ireland
A1338*	A1338*	A1338*	928014	Meehan	Ireland
A1338*	A1338*	A1338*	295333	Whelan	Ireland
FT377860*	FT377860*	FT377860*	931173	Donohue	Ireland
FT377860*	FT377860*	FT377860*	IN109887	Dunphy	Ireland
A13922*	A13922*	A13922*	?	?	Ireland
A13922*	A13922*	A13922*	?	?	Ireland
A13922*	A13922*	A13922*	968368	Thiesse	unknown
A1336*	A1336*	A1336*	229625	Murray	Ireland

A1336*	A1336*	A1336*	54161	Hunter	unknown
FT259889*	FT259889*	FT259889*	926698	Conner	USA
FT259889*	FT259889*	FT259889*	977130	McCartney	unknown
BY55890*	BY55890*	BY55890*	?	?	England
BY74161*	BY74161*	BY74161*	137059	Clay	Ireland
BY74161*	BY74161*	BY74161*	?	?	England
BY74161*	BY74161*	BY74161*	76790	Clay	unknown
BY74161*	BY74161*	BY74161*	497275	Clay	unknown
BY74161*	BY74161*	BY74161*	?	?	unknown
FTC6744	FTC6744*	FTC6744*	320564	Clay	Wales
	FTC6744*	FTC6744*	B645730	Carmack	unknown
A153*	A153*	A153*	962825	Houlihan	Ireland
A153*	A153*	A153*	374065	Green	Ireland
A153*	A153*	A153*	U3586	Connor	UK
BY11841*	BY11841*	BY11841*	864	Glennon	Ireland
BY11841*	BY11841*	BY11841*	628	Glennon	Ireland
BY108570*	BY108570*	BY108570*	352	Glennon	Ireland
BY108570*	BY108570*	BY108570*	?	?	Ireland
A474*	A474*	A474*	239478	Daly	Ireland
A474*	A474*	A474*	128753	Griffin	Ireland
A474*	A474*	A474*	N45540	Kelley	Ireland
FTB60099*	FTB60099*	FTB60099*	364380	Daley	Ireland
FTB60099*	FTB60099*	FTB60099*	?	?	unknown
A88*	A88*	A88*	526288	Shea	Ireland
A88*	A88*	A88*	?	?	Ireland
BY69720*	BY69720*	BY69720*	251695	Ua Carmain	Ireland
BY69720*	BY69720*	BY69720*	955054	Walker	Ireland
BY23574*	BY23574*	BY23574*	296555	Fitzpatrick	Ireland
BY23574*	BY23574*	BY23574*	486232	McCarthy	Ireland
FT409873*	FT409873*	FT409873*	361892	Bean	Scotland
BY208692*	BY208692*	BY208692*	481275	Hurley	Ireland
BY207095*	BY207095*	BY207095*	?	?	Ireland
BY207095*	BY207095*	BY207095*	584096	Hurley	USA
A7660*	A7660*	A7660*	348657	Crowley	Ireland
A7660*	A7660*	A7660*	?	?	Ireland
A7660*	A7660*	A7660*	?	?	unknown
BY203429*	BY203429*	BY203429*	67258	Crowley	Ireland
BY203429*	BY203429*	BY203429*	IN68273	Crowley	unknown
BY106347*	BY106347*	BY106347*	775210	Crowley	Ireland
BY106347*	BY106347*	BY106347*	284952	Crowley	Ireland
BY106347*	BY106347*	BY106347*	?	?	Ireland
FT76192*	FT76192*	FT76192*	748612	McDermott	Ireland
FT76192*	FT76192*	FT76192*	B5288	Burns	Ireland
A155*	A155*	A155*	298364	Neal	UK

<i>FT396199*</i>	<i>FT396199*</i>	<i>FT396199*</i>	937374	Kane	Ireland
<i>FT396199*</i>	<i>FT396199*</i>	<i>FT396199*</i>	B445590	McCall	Ulster
<i>BY97073*</i>	<i>BY97073*</i>	<i>BY97073*</i>	310865	Cahoon	Scotland
<i>BY97073*</i>	<i>BY97073*</i>	<i>BY97073*</i>	718074	Cahoon	USA
<i>BY97073*</i>	<i>BY97073*</i>	<i>BY97073*</i>	677997	Rodgers	USA
<i>BY142753*</i>	<i>BY142753*</i>	<i>BY142753*</i>	292737	O'Hearn	Ireland
<i>BY142753*</i>	<i>BY142753*</i>	<i>BY142753*</i>	65951	Page	unknown
<i>FT111304*</i>	<i>FT111304*</i>	<i>FT111304*</i>	?	?	unknown
	<i>Z27975*</i>	<i>Z27975*</i>	?	?	England
BY156940	<i>BY156940*</i>	<i>BY156940*</i>	380474	Fitzgibbon	Ireland
	<i>BY156940*</i>	<i>BY156940*</i>	322991	Fitzgerald	Ireland
		BY184272	27354	Fitzgibbon	Ireland
			640852	Fitzgibbon	Ireland
FTB45176	FTB46441	<i>A156*</i>	229799	McDonald	Scotland
		<i>A156*</i>	188279	McDonald	Scotland
		<i>A156*</i>	?	?	Scotland
		<i>A156*</i>	37571	McDonald	unknown
<i>BY15518*</i>	<i>BY15518*</i>	<i>BY15518*</i>	75606	Irwin	Ireland
<i>BY15518*</i>	<i>BY15518*</i>	<i>BY15518*</i>	?	?	Ireland
<i>BY15518*</i>	<i>BY15518*</i>	<i>BY15518*</i>	931574	<i>O'Neill</i>	unknown
<i>BY15518*</i>	<i>BY15518*</i>	<i>BY15518*</i>	IN46738	<i>Corcoran</i>	unknown
<i>BY91970*</i>	<i>BY91970*</i>	<i>BY91970*</i>	681326	O'Connor	Ireland
<i>BY91970*</i>	<i>BY91970*</i>	<i>BY91970*</i>	?	?	unknown
Y73259	Z37686	<i>FT83642*</i>	42048	Erwin	Ireland
		<i>FT83642*</i>	933211	Connor	Ireland
<i>FT375610*</i>	<i>FT375610*</i>	<i>FT375610*</i>	B11183	Thornton	Ireland
	<i>FT375738*</i>	<i>FT375738*</i>	?	?	Ireland
<i>CTS6490*</i>	<i>CTS6490*</i>	<i>CTS6490*</i>	B679474	Thornton	Ireland
<i>CTS6490*</i>	<i>CTS6490*</i>	<i>CTS6490*</i>	?	?	Ireland
<i>FTA40874*</i>	<i>FTA40874*</i>	<i>FTA40874*</i>	B476332	Thornton	Ireland
<i>FTA40874*</i>	<i>FTA40874*</i>	<i>FTA40874*</i>	962409	Thornton	unknown
<i>BY161234*</i>	<i>BY161234*</i>	<i>BY161234*</i>	326763	O'Donnell	Ireland
<i>BY163142*</i>	<i>BY163142*</i>	<i>BY163142*</i>	933219	O'Donnell	unknown
FT202566	<i>BY161181*</i>	<i>BY161181*</i>	B292198	O'Donnell	Ireland
	<i>BY161181*</i>	<i>BY161181*</i>	?	?	unknown
<i>BY104765*</i>	<i>BY104765*</i>	<i>BY104765*</i>	N9778	O'Brien	Ireland
<i>BY104765*</i>	<i>BY104765*</i>	<i>BY104765*</i>	?	?	Ireland
<i>FT85796*</i>	<i>FT85796*</i>	<i>FT85796*</i>	B460426	Regan	Ireland
<i>FT86556*</i>	<i>FT86556*</i>	<i>FT86556*</i>	N10540	Crowley	Ireland
<i>FT86556*</i>	<i>FT86556*</i>	<i>FT86556*</i>	237350	Reagin	unknown
<i>A10727*</i>	<i>A10727*</i>	<i>A10727*</i>	274113	Lawton	Ireland
<i>A10727*</i>	<i>A10727*</i>	<i>A10727*</i>	566437	Connors	Ireland
<i>A10727*</i>	<i>A10727*</i>	<i>A10727*</i>	190013	Driscoll	Ireland
<i>A10727*</i>	<i>A10727*</i>	<i>A10727*</i>	675904	Hart	USA

FTA29590	FTA33675	FTA28720*	189097	O'Brien	Ireland
		FTA28720*	B690392	Griffin	Ireland
		FTA28720*	278696	Griffin	Ireland
BY42849*	BY42849*	BY42849*	315944	Collins	Ireland
BY42849*	BY42849*	BY42849*	262999	Collins	Ireland
FT389270*	FT389270*	FT389270*	971075	Martin	Ireland
FT389307*	FT389307*	FT389307*	B447178	Burke	Wales
FT389307*	FT389307*	FT389307*	?	?	unknown
A2219*	A2219*	A2219*	965322	Donovan	Ireland
A2219*	A2219*	A2219*	B487486	Donovan	Ireland
A2219*	A2219*	A2219*	B267288	Donovan	Ireland
A2219*	A2219*	A2219*	IN100516	O'Keeffe	unknown
A12017*	A12017*	A12017*	286308	Donovan	Ireland
A12017*	A12017*	A12017*	?	?	Ireland
A2294*	A2294*	A2294*	184078	Donovan	Ireland
A2294*	A2294*	A2294*	282358	O'Donovan	Ireland
A2294*	A2294*	A2294*	?	?	Ireland
A2294*	A2294*	A2294*	400251	O'Donovan	unknown
FT163780	FT11810	FT163700*	B275891	Berg	unknown
		FT163700*	?	?	unknown
A7755*	A7755*	A7755*	52203	Hayes	Ireland
A7755*	A7755*	A7755*	86233	Driscoll	Ireland
BY51873	BY70308*	BY70308*	154640	Hayes	Ireland
	BY70308*	BY70308*	154640	Hayes	Ireland
BY2876*	BY2876*	BY2876*	N140278	Sweeney	Ireland
Y58926*	Y58926*	Y58926*	414336	Reagan	USA
Y58926*	Y58926*	Y58926*	182613	Ragan	unknown
Y51368	Y51575	Y47157*	73128	Riggin	Ireland
		Y47157*	910740	Riggins	USA
		Y47157*	302930	Riggen	unknown
BY24894	BY43724	BY24169*	B21583	Regan	Ireland
		BY24169*	117962	Ragan	unknown
ZS4590*	ZS4590*	ZS4590*	128856	McCarthy	Ireland
ZS4590*	ZS4590*	ZS4590*	107457	McCarthy	Ireland
BY23396*	BY23396*	BY23396*	326253	McCarthy	Ireland
BY23396*	BY23396*	BY23396*	?	?	Ireland
FGC42465*	FGC42465*	FGC42465*	154255	Sullivan	Ireland
FGC42465*	FGC42465*	FGC42465*	231495	O'Sullivan	UK
FT43021*	FT43021*	FT43021*	B71565	Sullivan	Ireland
FT43021*	FT43021*	FT43021*	164413	Sullivan	Ireland
FT43021*	FT43021*	FT43021*	B739126	Delacy	Ireland
FT43021*	FT43021*	FT43021*	328508	Sullivan	England
BY68911*	BY68911*	BY68911*	239517	Stovold	England
BY68911*	BY68911*	BY68911*	?	?	unknown

BY111825*	BY111825*	BY111825*	714461	O'Sullivan	Ireland
BY111825*	BY111825*	BY111825*	B29282	Fleming	Ireland
BY96220*	BY96220*	BY96220*	N263078	O'Sullivan	Ireland
BY96220*	BY96220*	BY96220*	?	?	Ireland
BY29109*	BY29109*	BY29109*	B53034	Sullivan	Ireland
BY29109*	BY29109*	BY29109*	336949	McCarthy	Ireland
BY29108*	BY29108*	BY29108*	672557	Driscoll	Ireland
BY29108*	BY29108*	BY29108*	858572	Sullivan	Ireland
BY29108*	BY29108*	BY29108*	?	?	USA
BY29108*	BY29108*	BY29108*	254559	NPE	unknown
Y31777	ZS6254	FTA27523*	B625674	Murphy	Ireland
		FTA27523*	B463907	Steele	unknown
BY39363*	BY39363*	BY39363*	865860	Sullivan	Ireland
BY39363*	BY39363*	BY39363*	B514024	Sullivan	Ireland
BY39363*	BY39363*	BY39363*	280100	Sullivan	Ireland
FT95639*	FT95639*	FT95639*	801429	Sullivan	Ireland
FT95639*	FT95639*	FT95639*	?	?	Ireland
FT95639*	FT95639*	FT95639*	?	?	Ireland
FT95639*	FT95639*	FT95639*	?	?	unknown
	BY39361*	BY39361*	IN25545	McGillicuddy	Ireland
	BY39364*	BY39364*	?	?	Ireland
Y195409	BY98212*	BY98212*	MK66026	Sughrue	Ireland
	BY98212*	BY98212*	424423	Sughrue	Ireland
FT200346*	FT200346*	FT200346*	306759	Daly	Ireland
FT200346*	FT200346*	FT200346*	?	?	Ireland
FT200346*	FT200346*	FT200346*	?	?	unknown
FT250606	FT250866	BY171262*	B18339	Daly	Ireland
		BY171262*	?	?	unknown
		BY171262*	?	?	unknown
PR2745*	PR2745*	PR2745*	?	?	unknown
BY217627	BY128975*	BY128975*	468763	Sullivan	Ireland
	BY128975*	BY128975*	?	?	Ireland
	BY16027	BY16025	167276	Sullivan	Ireland
			168193	Sullivan	Ireland
	BY3863*	BY3863*	187530	Teague	England
	FT183003	FT85105	190326	Teague	Wales
			206335	Teague	England
Y29015	Y29014	Y29013	424338	Teague	Wales
			613115	Teague	Wales
			448690	Teague	Wales
		654232	Teague	unknown	
A1133*	A1133*	A1133*	267382	Sullivan	Ireland
A1133*	A1133*	A1133*	196206	Sullivan	Ireland
A1133*	A1133*	A1133*	888229	Sullivan	Ireland

A1133*	A1133*	A1133*	871535	Sullivan	USA
BY80863*	BY80863*	BY80863*	518952	Shea	Ireland
BY80863*	BY80863*	BY80863*	295125	Keith	Scotland
Z16252*	Z16252*	Z16252*	503076	Sharp	Ulster
BY54649*	BY54649*	BY54649*	956441	Nunan	Ireland
BY54649*	BY54649*	BY54649*	?	?	Wales
A9005*	A9005*	A9005*	245554	Fetten	Ireland
A9005*	A9005*	A9005*	?	?	Ireland
BY99310*	BY99310*	BY99310*	610151	Driscoll	Ireland
BY99310*	BY99310*	BY99310*	?	?	unknown
BY167060*	BY167060*	BY167060*	112894	Murnan	Ireland
BY167060*	BY167060*	BY167060*	36951	Warren	USA
A6511*	A6511*	A6511*	181167	Searls	USA
A6511*	A6511*	A6511*	319282	White	USA
FT32505*	FT32505*	FT32505*	141352	Lynch	Ireland
FT32505*	FT32505*	FT32505*	?	?	Ireland
FT344782*	FT344782*	FT344782*	N50796	O'Connor	Ireland
FT68824	FT67376*	FT67376*	IN43131	Donoghue	Ireland
	FT67376*	FT67376*	473032	Donoghue	Ireland
FT344784	BY110673*	BY110673*	206071	Mahoney	Ireland
	BY110673*	BY110673*	214296	Mahony	Ireland
BY47253*	BY47253*	BY47253*	N130087	Cournane	Ireland
BY47253*	BY47253*	BY47253*	654156	Coutney	Ireland
FT56505*	FT56505*	FT56505*	489089	Courtenay	France
FT56505*	FT56505*	FT56505*	?	?	USA
	BY58887*	BY58887*	140800	Windom	Ireland
	BY58887*	BY58887*	940270	Courtney	unknown
FT11102*	FT11102*	FT11102*	618759	Cournane	Ireland
FT11102*	FT11102*	FT11102*	530298	Cournane	Ireland
FT11102*	FT11102*	FT11102*	844126	Courtney	Ireland
A806*	A806*	A806*	409303	Leahy	Ireland
FT182396*	FT182396*	FT182396*	943872	Leahy	Australia
	A2337*	A2337*	92748	McDonald	Scotland
	BY24758*	BY24758*	394167	Lee	England
	BY24758*	BY24758*	975536	Lee	unknown
	BY24758*	BY24758*	?	?	unknown
A2331*	A2331*	A2331*	179824	Lee	USA
A2334	BY24202*	BY24202*	298545	Lee	Ireland
	BY24202*	BY24202*	160052	Lee	unknown
FT88981	FT88981*	FT88981*	366080	Leahy	Ireland
	FT88981*	FT88981*	471311	Leahy	Ireland
	FT119616*	FT119616*	B423171	Meyers	unknown
FT116268	FT114755	FT116268*	N59178	Carroll	Ireland
		FT116268*	967356	Carroll	unknown

FGC29068*	FGC29068*	FGC29068*	?	?	Ireland
BY184816*	BY184816*	BY184816*	?	?	Ireland
BY184816*	BY184816*	BY184816*	?	?	unknown
BY2880*	BY2880*	BY2880*	N65343	Carroll	Ireland
BY43744*	BY43744*	BY43744*	?	?	unknown
FT96700*	FT96700*	FT96700*	563428	Smithhart	USA
FT96881*	FT96881*	FT96881*	232534	Daly	Ireland
FT96881*	FT96881*	FT96881*	?	?	unknown
FTB79755*	FTB79755*	FTB79755*	387722	Hurley	Ireland
FTB79755*	FTB79755*	FTB79755*	?	?	Ireland
BY201782*	BY201782*	BY201782*	?	?	unknown
BY201596*	BY201596*	BY201596*	539013	Cashman	USA
BY218953	BY201888	BY201807	672601	Sheehen	Ireland
			169109	Sheehen	unknown
FT226301*	FT226301*	FT226301*	?	?	Ireland
FT226301*	FT226301*	FT226301*	?	?	unknown
A2221*	A2221*	A2221*	270685	Moriarty	Ireland
A6464*	A6464*	A6464*	504583	O'Brien	Ireland
A6464*	A6464*	A6464*	323199	Murray	Ireland
A6464*	A6464*	A6464*	400670	Moriarty	Ireland
A6464*	A6464*	A6464*	289110	McCarthy	Ireland
FT287332	MF41134	FGC29071*	12283	McCarty	Ireland
		FGC29071*	?	?	Ireland
		FGC29071*	?	?	unknown
BY168422*	BY168422*	BY168422*	752104	O'Donoghue	Ireland
BY168422*	BY168422*	BY168422*	?	?	Ireland
BY64196*	BY64196*	BY64196*	43423	Donoghue	Ireland
BY64196*	BY64196*	BY64196*	IN91875	O'Donoghue	Ireland
FTA19390	FTA17324*	FTA17324*	?	?	Ireland
	FTA17324*	FTA17324*	?	?	unknown
BY3531*	BY3531*	BY3531*	152057	O'Donoghue	Ireland
BY3531*	BY3531*	BY3531*	541766	Donahue	Ireland
BY3531*	BY3531*	BY3531*	27983	Donoghue	Ireland
FT361601	FT361600*	FT361600*	MK65224	O'Donoghue	Ireland
	FT361600*	FT361600*	MK68709	Donahue	Ireland
	BY206957	BY206958	162289	O'Donoghue	Ireland
			179164	Donahue	Ireland
BY121634*	BY121634*	BY121634*	11211	O'Donoghue	Ireland
BY121634*	BY121634*	BY121634*	183411	O'Donoghue	Ireland
BY119374	BY71573*	BY71573*	119130	Dunaway	Ireland
	BY71573*	BY71573*	?	?	England
	BY71573*	BY71573*	240921	Turner	USA
BY137015*	BY137015*	BY137015*	?	?	unknown
CT04726	BY144618*	BY144618*	32032	Donoho	Ireland

FGC104130	BY144618*	BY144618*	284729	Donoho	Ireland
FGC29280*	FGC29280*	FGC29280*	643556	McCarthy	Ireland
BY42407*	BY42407*	BY42407*	307280	Hallahan	Ireland
BY42407*	BY42407*	BY42407*	B130242	Foley	Ireland
BY178061*	BY178061*	BY178061*	784606	Neil	Ireland
FT355316*	FT355316*	FT355316*	194511	Mahoney	Ireland
FT355316*	FT355316*	FT355316*	?	?	unknown
BY3536*	BY3536*	BY3536*	382339	Holbert	USA
BY3536*	BY3536*	BY3536*	176550	Ballard	unknown
BY3536*	BY3536*	BY3536*	402153	Ballard	unknown
BY3536*	BY3536*	BY3536*	252569	Ballard	unknown
FTB32484*	FTB32484*	FTB32484*	972033	Ballard	USA
FTB34515	FTB47477	BY61223*	?	?	USA
		BY61223*	103589	Ballard	unknown
FGC29291*	FGC29291*	FGC29291*	877407	Sullivan	Ireland
FGC29291*	FGC29291*	FGC29291*	840889	Jones	USA
FGC29291*	FGC29291*	FGC29291*	411652	Cohron	USA
FT75714*	FT75714*	FT75714*	117135	Reddin	Ireland
FT75714*	FT75714*	FT75714*	?	?	unknown
FGC29286*	FGC29286*	FGC29286*	N2812	McKenzie	Scotland
FGC29289*	FGC29289*	FGC29289*	?	?	Scotland
FGC29282	FT121558	FGC29281*	257329	Ferguson	Ireland
		FGC29281*	337190	Thompson	England
		FGC29281*	?	?	USA
BY62133*	BY62133*	BY62133*	899915	Lynch	Ireland
BY62133*	BY62133*	BY62133*	?	?	Ireland
A726*	A726*	A726*	56172	Wren	Ireland
BY69974*	BY69974*	BY69974*	119777	Reidy	Ireland
FTA39076	FTA42485	FTA40948*	B475646	Ryan	Ireland
		FTA40948*	535083	Ryan	Ireland
FT107329*	FT107329*	FT107329*	IN99071	O'Brien	Ireland
FT107283*	FT107283*	FT107283*	IN28647	Murphy	Ireland
FT107283*	FT107283*	FT107283*	942326	Casto	unknown
FT27204*	FT27204*	FT27204*	N100963	Donley	Ireland
	FT235624*	FT235624*	?	?	Ireland
BY68839*	BY68839*	BY68839*	?	?	Ireland
BY68839*	BY68839*	BY68839*	?	?	unknown
FT19839*	FT19839*	FT19839*	499524	Cotter	Ireland
FT19839*	FT19839*	FT19839*	395150	Cotter	Ireland
FT155346	FT153755*	FT153755*	864214	Manning	Ireland
	FT153755*	FT153755*	112331	Manning	Ireland
BY127407*	BY127407*	BY127407*	B3245	Leary	Ireland
BY127407*	BY127407*	BY127407*	355519	O'Leary	Ireland
BY66777*	BY66777*	BY66777*	179146	Desmond	Ireland

BY66777*	BY66777*	BY66777*	181672	Corder	unknown
BY44759	BY44775	BY44567	353692	Mac Cárthaig	Ireland
			?	?	unknown
S1129*	S1129*	S1129*	B1983	Caldwell	Ireland
S1129*	S1129*	S1129*	B7185	NPE	unknown
S1129*	S1129*	S1129*	36785	Caldwell	unknown
S1129*	S1129*	S1129*	37856	McCullough	unknown
S1129*	S1129*	S1129*	?	?	?
S1129*	S1129*	S1129*	?	?	?
FT124435*	FT124435*	FT124435*	N123765	Howay	Ireland
FT124435*	FT124435*	FT124435*	273871	Howie	Scotland
FT124435*	FT124435*	FT124435*	?	?	unknown
S1124	S1133	S1112*	55723	Hughey	Ireland
		S1112*	657547	Hughey	Scotland
		S1112*	B527008	Hughey	unknown
	BY120008	BY120008*	772861	Caldwell	Ireland
		BY120008*	27520	Caldwell	Ireland
FT41075*	FT41075*	FT41075*	875867	Caldwell	USA
FT41075*	FT41075*	FT41075*	906045	Walker	unknown
BY176882*	BY176882*	BY176882*	442933	Cloyd	Ulster
BY176882*	BY176882*	BY176882*	?	?	unknown
A150*	A150*	A150*	336553	O'Mahoney	Ireland
A150*	A150*	A150*	63936	Finn	Ireland
FT346134*	FT346134*	FT346134*	549387	Kelly	USA
FT346134*	FT346134*	FT346134*	954752	Kelley	unknown
BY80113*	BY80113*	BY80113*	N27645	Finn	Ireland
BY80113*	BY80113*	BY80113*	358292	Houlihan	Ireland
FT207324*	FT207324*	FT207324*	297991	Crawforth	England
Y33141*	Y33141*	Y33141*	372412	Crawford	Scotland
Y33141*	Y33141*	Y33141*	?	?	unknown
		BY2877*	369967	Evergreen	unknown
A745*	A745*	A745*	165440	Mahony	Ireland
A745*	A745*	A745*	250250	Mahoney	Ireland
BY198766*	BY198766*	BY198766*	IN43328	O'Mahoney	Ireland
FTB50540	FTB50661	FTA98174*	?	?	unknown
FGC11142*	FGC11142*	FGC11142*	945100	Riley	unknown
FGC11152*	FGC11152*	FGC11152*	181491	O'Reily	Ireland
FGC11152*	FGC11152*	FGC11152*	257151	Reilly	Ireland
FGC11152*	FGC11152*	FGC11152*	115485	Mahoney	Ireland
FT140272	FT140136*	FT140136*	331290	Reiley	Ireland
	FT140136*	FT140136*	?	?	unknown
Y71840		F24356*	847503	Robertson	USA
		F24356*	169042	Barrus	unknown
		A20863*	137535	Grigsby	England

	A20863	A20863*	904220	Roberson	USA
		A20863*	N16476	Roberson	unknown
A9185*	A9185*	A9185*	202133	Mulcahy	Ireland
A9185*	A9185*	A9185*	?	?	Ireland
A9185*	A9185*	A9185*	335272	Banks	unknown
A9185*	A9185*	A9185*	?	?	unknown
Y154798*	Y154798*	Y154798*	?	?	Ireland
Y154798*	Y154798*	Y154798*	?	?	unknown
A18874*	A18874*	A18874*	206512	Keefe	Ireland
A18874*	A18874*	A18874*	?	?	Ireland
A18873*	A18873*	A18873*	382210	McCarty	Scotland
A18873*	A18873*	A18873*	?	?	Ireland
BY116580	BY114011	BY106322	166433	O'Keefe	Ireland
			?	?	Ireland
MF649647	FTA81221*	FTA81221*	MK74044	Sullivan	Ireland
	FTA85729	FTA85729*	955461	Sullivan	Ireland
		FTA85729*	MK74045	Sullivan	Ireland
Y144694	Y144709	FT80866	325685	O'Hanlon	Ireland
			300242	O'Hanlon	Ireland
	BY97779*	BY97779*	328325	Cleary	Ireland
		BY156904*	892387	Clary	USA
		BY156904*	?	?	unknown
BY150012	BY102694	BY61497	?	?	unknown
			?	?	unknown
FT377610	BY61240*	BY61240*	20429	Donahue	Ireland
	BY61240*	BY61240*	B636100	Donoghue	Ireland
FT389991	FT84417	FT388386	956957	Burke	Ireland
			937495	Burke	Ireland
			963639	Burke	Ireland
A6508*	A6508*	A6508*	26927	Sullivan	Ireland
A6508*	A6508*	A6508*	?	?	Ireland
BY55816	A6510*	A6510*	167155	Sullivan	Ireland
	A6510*	A6510*	196882	Sullivan	Ireland
FT98242*	FT98242*	FT98242*	322691	Lusby	England
FT98242*	FT98242*	FT98242*	?	?	unknown
CTS9233*	CTS9233*	CTS9233*	?	?	unknown
CTS4655	FT97031	CTS4655*	B302257	Hogan	unknown
BY23686*	BY23686*	BY23686*	867480	Grant	Ireland
BY23843*	BY23843*	BY23843*	N160218	Callahan	Ireland
BY23843*	BY23843*	BY23843*	?	?	Ireland
BY21825*	BY21825*	BY21825*	498582	Barry	Ireland
BY63432*	BY63432*	BY63432*	257601	Wilson	Scotland
BY63432*	BY63432*	BY63432*	?	?	unknown
Y139079*	Y139079*	Y139079*	N37831	MacKay	Scotland

<i>FT207609*</i>	<i>FT207609*</i>	<i>FT207609*</i>	918585	Twomey	Ireland
<i>FT207609*</i>	<i>FT207609*</i>	<i>FT207609*</i>	?	?	Barbados
<i>BY34719*</i>	<i>BY34719*</i>	<i>BY34719*</i>	B573547	Holmes	Ireland
<i>BY65170*</i>	<i>BY65170*</i>	<i>BY65170*</i>	541995	Maguire	Ireland
<i>BY65170*</i>	<i>BY65170*</i>	<i>BY65170*</i>	?	?	UK
<i>FT62343*</i>	<i>FT62343*</i>	<i>FT62343*</i>	B327919	Sullivan	USA
<i>FT62343*</i>	<i>FT62343*</i>	<i>FT62343*</i>	B229209	Sullivan	USA
<i>BY102748*</i>	<i>BY102748*</i>	<i>BY102748*</i>	147450	Johnston	unknown
<i>BY72127*</i>	<i>BY72127*</i>	<i>BY72127*</i>	12294	Flynn	Ireland
<i>BY72127*</i>	<i>BY72127*</i>	<i>BY72127*</i>	IN41665	McCarthy	Ireland
<i>BY72127*</i>	<i>BY72127*</i>	<i>BY72127*</i>	68048	McCarthy	Ireland
<i>A664*</i>	<i>A664*</i>	<i>A664*</i>	262511	Kelly	Ireland
<i>A664*</i>	<i>A664*</i>	<i>A664*</i>	N229524	Devine	Ireland
<i>A664*</i>	<i>A664*</i>	<i>A664*</i>	873535	Gardner	England
<i>A664*</i>	<i>A664*</i>	<i>A664*</i>	173850	Roberts	unknown
	<i>FTB46515*</i>	<i>FTB46515*</i>	IN100088	McAuliffe	unknown
<i>A1511*</i>	<i>A1511*</i>	<i>A1511*</i>	202776	McCartney	Ireland
<i>A1511*</i>	<i>A1511*</i>	<i>A1511*</i>	233152	McCartney	Ireland
		<i>BY42772</i>	435555	Quirk	Ireland
			302117	Quirke	Ireland
<i>BY30548</i>	<i>BY30547*</i>	<i>BY30547*</i>	294056	Kirk	unknown
	<i>BY30547*</i>	<i>BY30547*</i>	?	?	unknown
	<i>BY30547*</i>	<i>BY30547*</i>	?	?	unknown
<i>FTB22351*</i>	<i>FTB22351*</i>	<i>FTB22351*</i>	?	?	Ireland
<i>FTB51422*</i>	<i>FTB51422*</i>	<i>FTB51422*</i>	918776	Foren	Ireland
<i>FTB51422*</i>	<i>FTB51422*</i>	<i>FTB51422*</i>	B564806	Forne	USA
<i>FTA88873</i>	<i>BY76665*</i>	<i>BY76665*</i>	728841	Looney	Ireland
	<i>BY76665*</i>	<i>BY76665*</i>	?	?	unknown
	<i>BY76665*</i>	<i>BY76665*</i>	?	?	unknown
<i>BY130219*</i>	<i>BY130219*</i>	<i>BY130219*</i>	?	?	Ireland
<i>BY130219*</i>	<i>BY130219*</i>	<i>BY130219*</i>	?	?	Scotland
<i>BY23543*</i>	<i>BY23543*</i>	<i>BY23543*</i>	372854	Corrigan	Ireland
<i>BY24080*</i>	<i>BY24080*</i>	<i>BY24080*</i>	?	?	unknown
<i>BY23443*</i>	<i>BY23443*</i>	<i>BY23443*</i>	N35077	Kelleher	Ireland
<i>BY23443*</i>	<i>BY23443*</i>	<i>BY23443*</i>	643686	MacPherson	Scotland
<i>A7752*</i>	<i>A7752*</i>	<i>A7752*</i>	258506	McCarthy	Ireland
<i>BY34893*</i>	<i>BY34893*</i>	<i>BY34893*</i>	203073	Lundergan	Ireland
<i>FT74326</i>	<i>FT76203</i>	<i>BY69984*</i>	B210369	Minihan	Ireland
		<i>BY69984*</i>	?	?	Ireland
<i>A923*</i>	<i>A923*</i>	<i>A923*</i>	208388	Dennehy	Ireland
<i>BY51516*</i>	<i>BY51516*</i>	<i>BY51516*</i>	860437	Neal	Ireland
<i>BY51519*</i>	<i>BY51519*</i>	<i>BY51519*</i>	169169	Edwards	Ireland
<i>BY51519*</i>	<i>BY51519*</i>	<i>BY51519*</i>	IN22997	McCarthy	Ireland
	<i>BY189083*</i>	<i>BY189083*</i>	N31188	Barrett	Ireland

BY164394*	BY164394*	BY164394*	IN42061	O'Connor	Ireland
BY164394*	BY164394*	BY164394*	IN23221	Macfarlane	unknown
Y108997*	Y108997*	Y108997*	244292	O'Neill	Ireland
FTA26881	FTA27179	FTA26679*	H1894	Fitzpatrick	Ireland
		FTA26679*	?	?	Ireland
		BY92116*	?	?	unknown
FT456647	FT413431*	FT413431*	H1617	Fitzpatrick	Ireland
	FT413431*	FT413431*	938615	Fitzpatrick	Ireland
BY21613*	BY21613*	BY21613*	152711	Quinlan	Ireland
BY21613*	BY21613*	BY21613*	513622	Bordeaux	unknown
BY61468*	BY61468*	BY61468*	299812	Carey	Ireland
FTB56203*	FTB56203*	FTB56203*	SI12984	St John	Ireland
FTB56203*	FTB56203*	FTB56203*	?	?	Ireland
Y103372*	Y103372*	Y103372*	N137720	Kuhn	USA
FT29466*	FT29466*	FT29466*	797400	Danaher	Ireland
FT29466*	FT29466*	FT29466*	?	?	Ireland
BY21614*	BY21614*	BY21614*	B133763	Kirwan	England
FT18336*	FT18336*	FT18336*	345844	Sheehan	Ireland
FTC4533*	FTC4533*	FTC4533*	222832	Sheehan	Ireland
FTC4533*	FTC4533*	FTC4533*	MI68912	Sheehan	Ireland
MF13298	FT234213*	FT234213*	619616	Sheehan	Ireland
	FT234213*	FT234213*	301191	Sheehan	Ireland
BY109226*	BY109226*	BY109226*	300793	Sheehan	Ireland
BY109226*	BY109226*	BY109226*	959622	Shawn	USA
Z38201*	Z38201*	Z38201*	566535	Sheehan	Ireland
Z38201*	Z38201*	Z38201*	?	?	Ireland
FT26649	FT20099*	FT20099*	MK43344	Brunette	Ireland
	FT20099*	FT20099*	433938	Brunette	Ireland
BY199281*	BY199281*	BY199281*	B489597	Whalen	Canada
FT199520	BY199869*	BY199869*	B191986	Highlands	Ireland
	BY199869*	BY199869*	?	?	USA
		BY30544*	478103	Sheehan	Ireland
BY30546*	BY30546*	BY30546*	310969	Sheehan	Ireland
FTB16646*	FTB16646*	FTB16646*	B58300	Sheehan	Ireland
FTB16646*	FTB16646*	FTB16646*	IN96505	Shehan	Ireland
S17760	BY34891*	BY34891*	44641	Shahen	Ireland
	BY34891*	BY34891*	783357	Shahen	Ireland
	BY34891*	BY34891*	853734	Sheehan	Ireland
	BY34891*	BY34891*	N139735	Sheehan	unknown
		BY119288	81090	Sheehan	Ireland
		833664	Sheehan	Ireland	

County or city	Sept or clan
Down	
	Roberts family

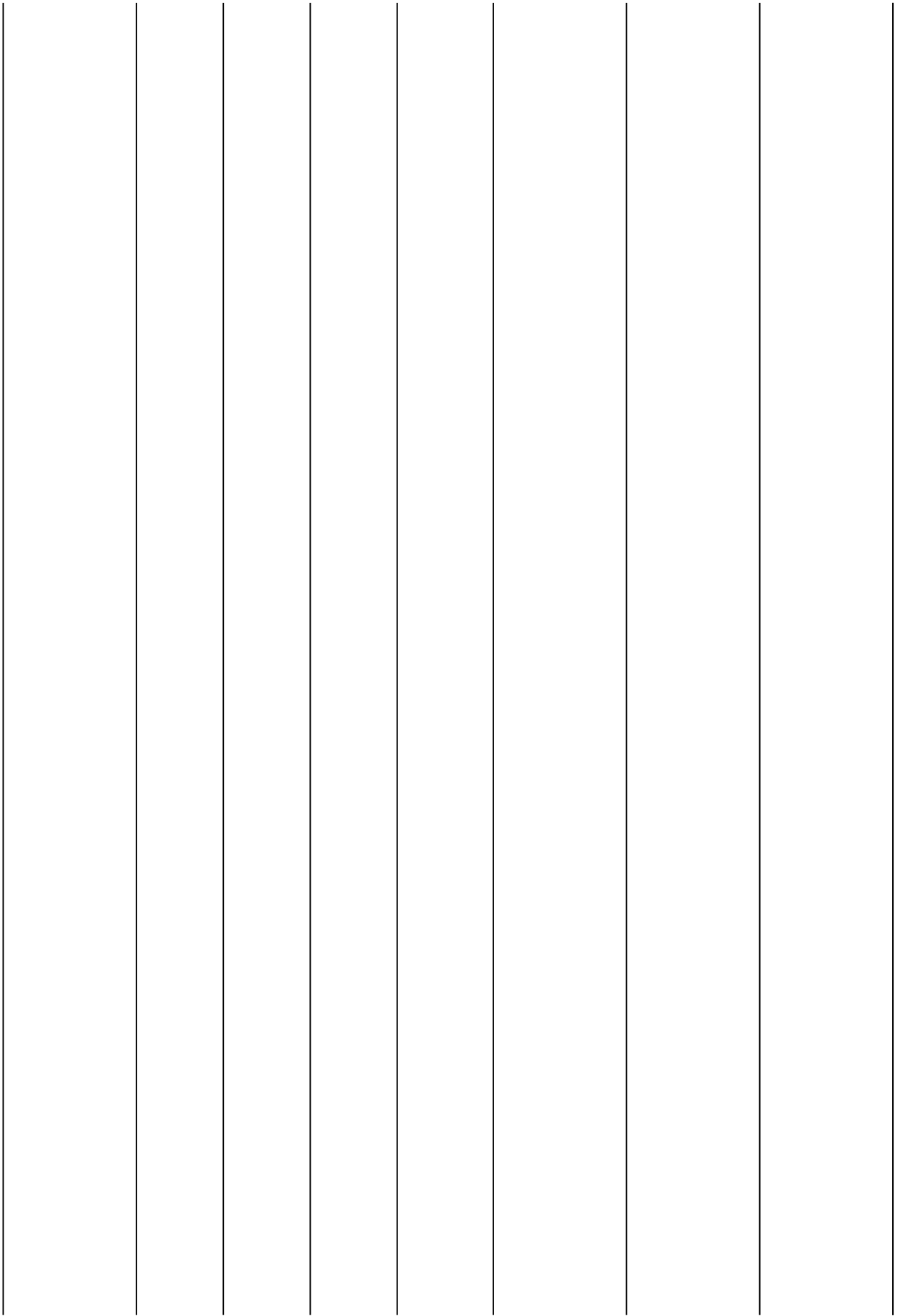
Yorkshire	
Kent	
Manchester	
Manchester	
Manchester	
Manchester	
Laois	McAvoy of Laois
Laois	
Dublin	
Offaly	
Laois	Moore (Laois sept? Majority of Moore under DF21)
Laois	
Laois	
Kerry	
Offaly	
Kilkenny	
Leinster	
Kildare	
Kildare	
Tipperary	
Tipperary	

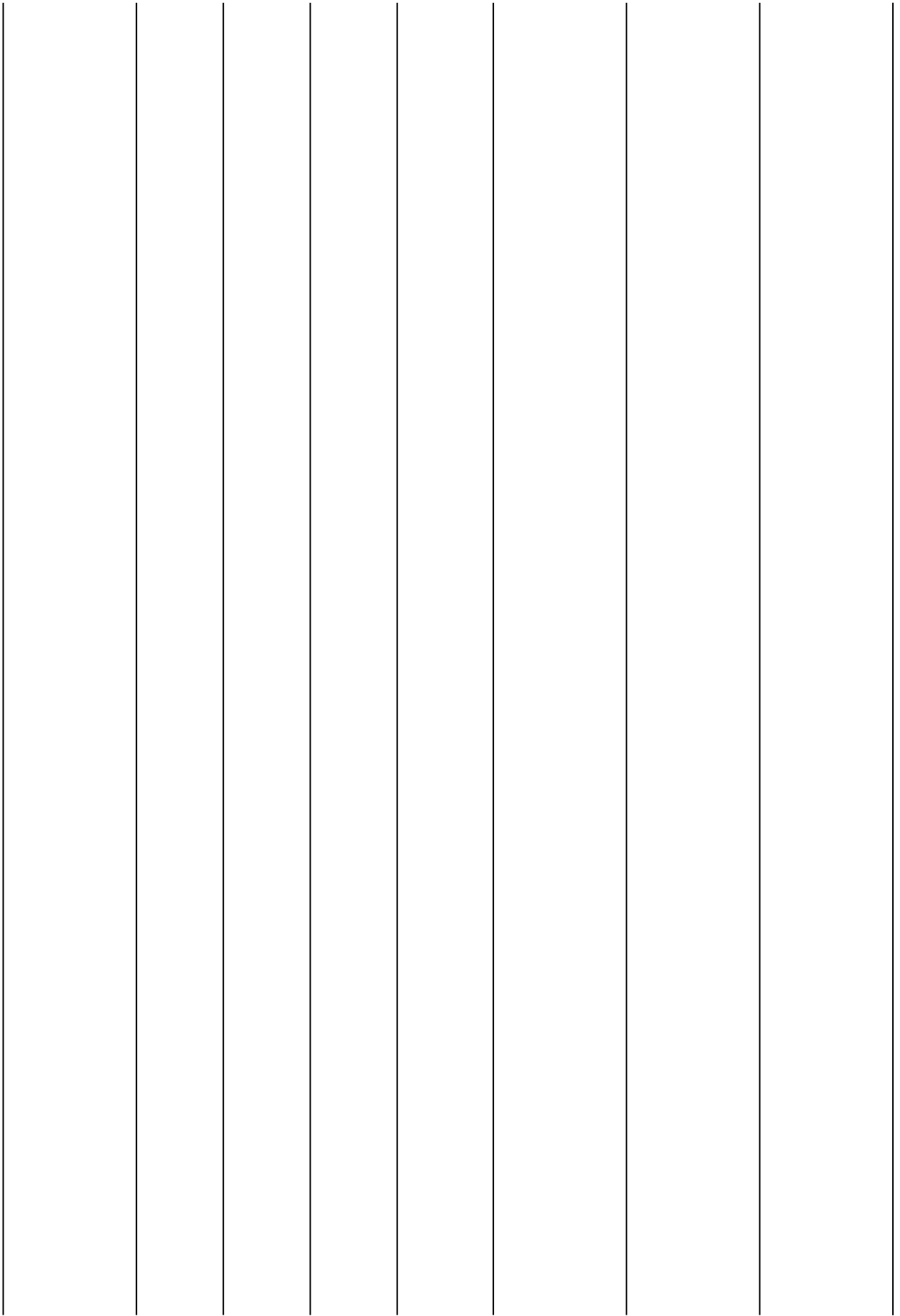
Waterford	
Isle of Lewis	Macaulay family of Uig of Lewis
Ross (West)	
Isle of Lewis	
Isle of Lewis	
Isle of Lewis	
Isle of Lewis	
Isle of Lewis	
Isle of Lewis	
Isle of Lewis	
Western Isles	
Isle of Harris	
Isle of Harris	
Isle of Lewis	
Isle of Lewis	
Antrim	

Tipperary	
Waterford	O'Connell of Derrynane (Uí Fídgenti)
Cork	
Kerry	
Kerry	
Kerry	
Offaly	
Kerry	
Clare	
Galway	
Isle of Skye	
Isle of Skye	

Cork	
Antrim	
Cork	
Cork	
Cork	
Kerry	
Cork	
Cork	
Kerry	O'Curnain
Kerry	
Kerry	
Kerry	
	Ó Laochdha
Kerry	

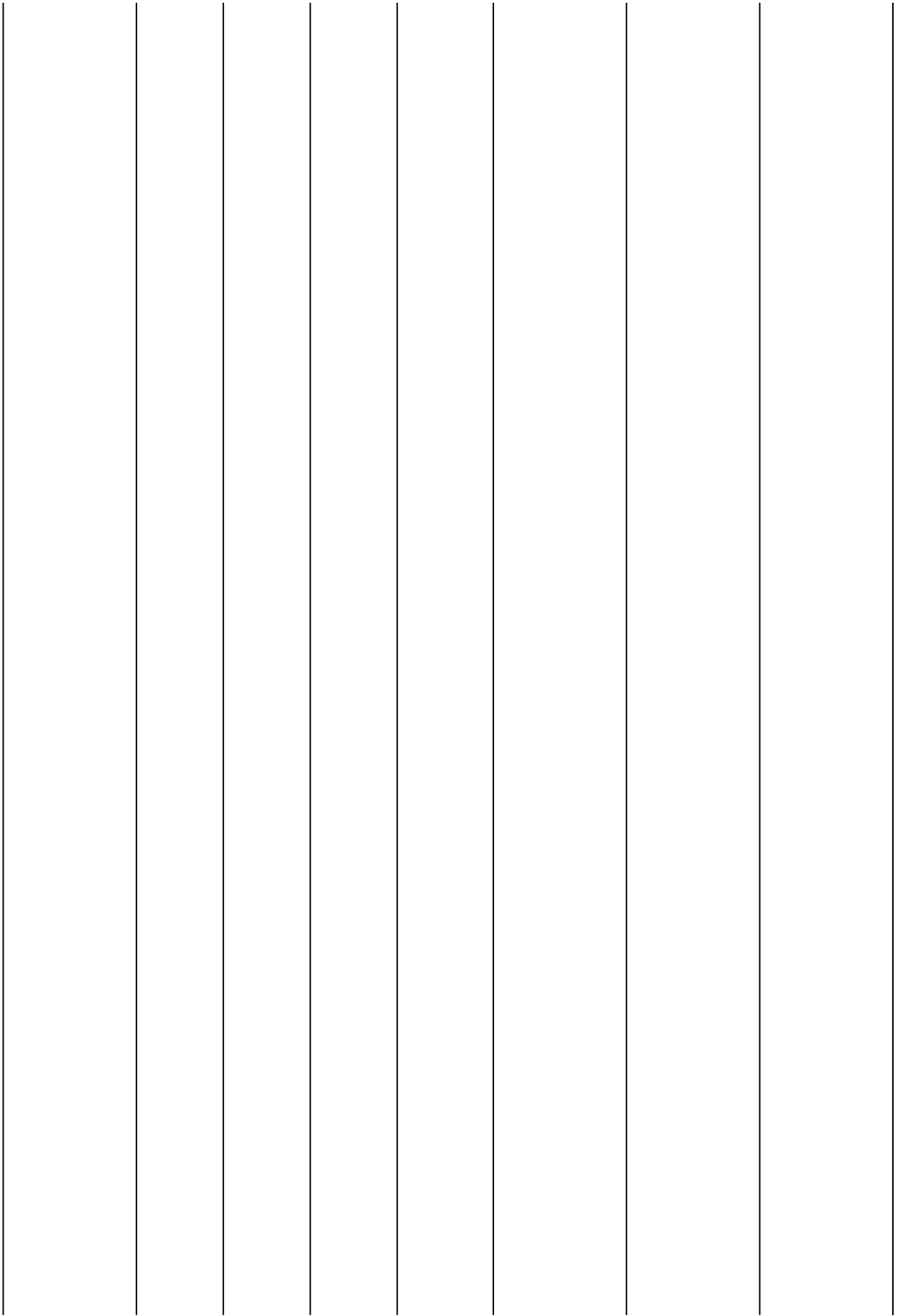
Cork	Ó Caoimh (O'Keefe)
Tipperary	
Limerick	
Kerry	
Cork	
Tipperary	
Waterford	



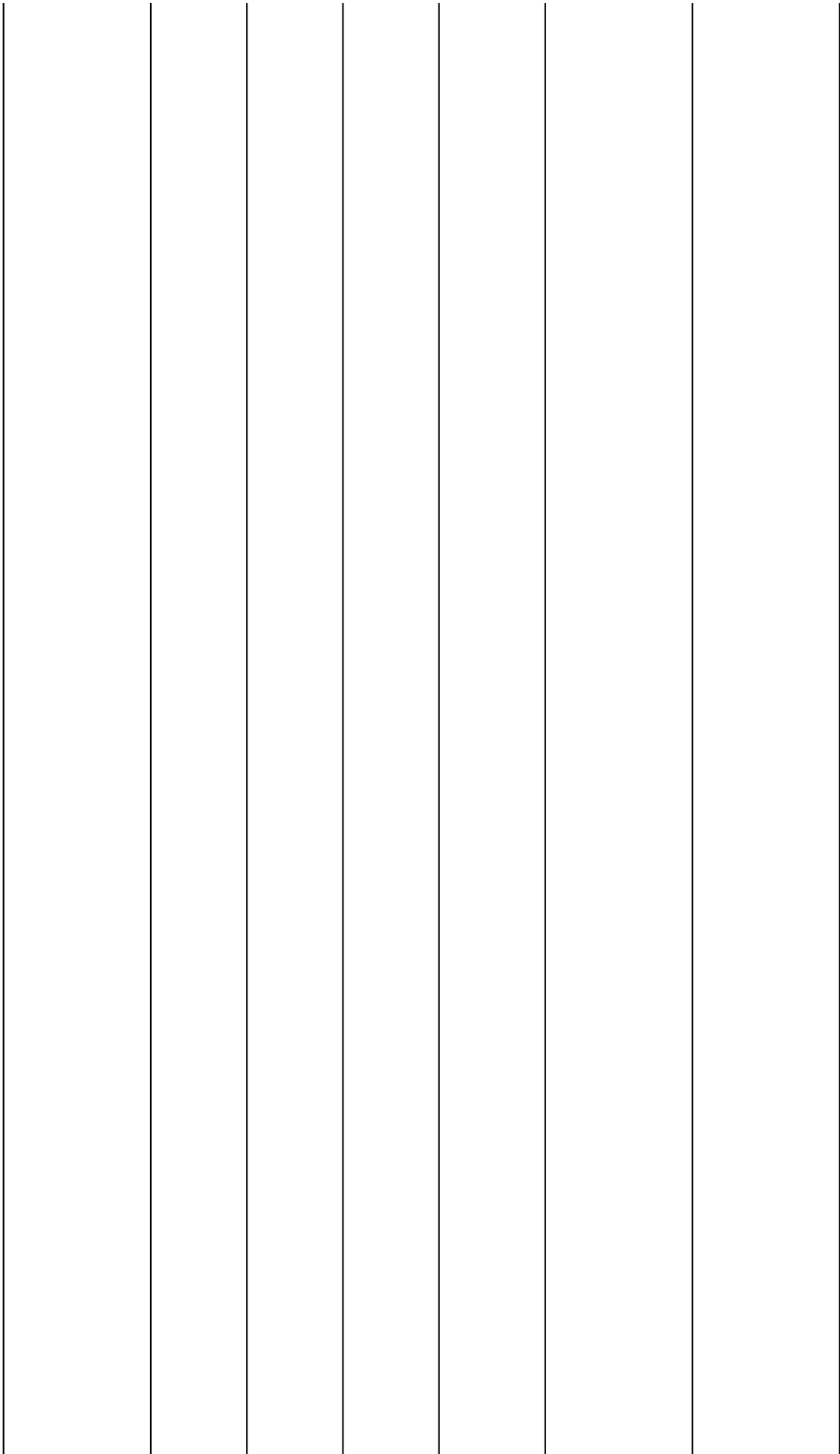


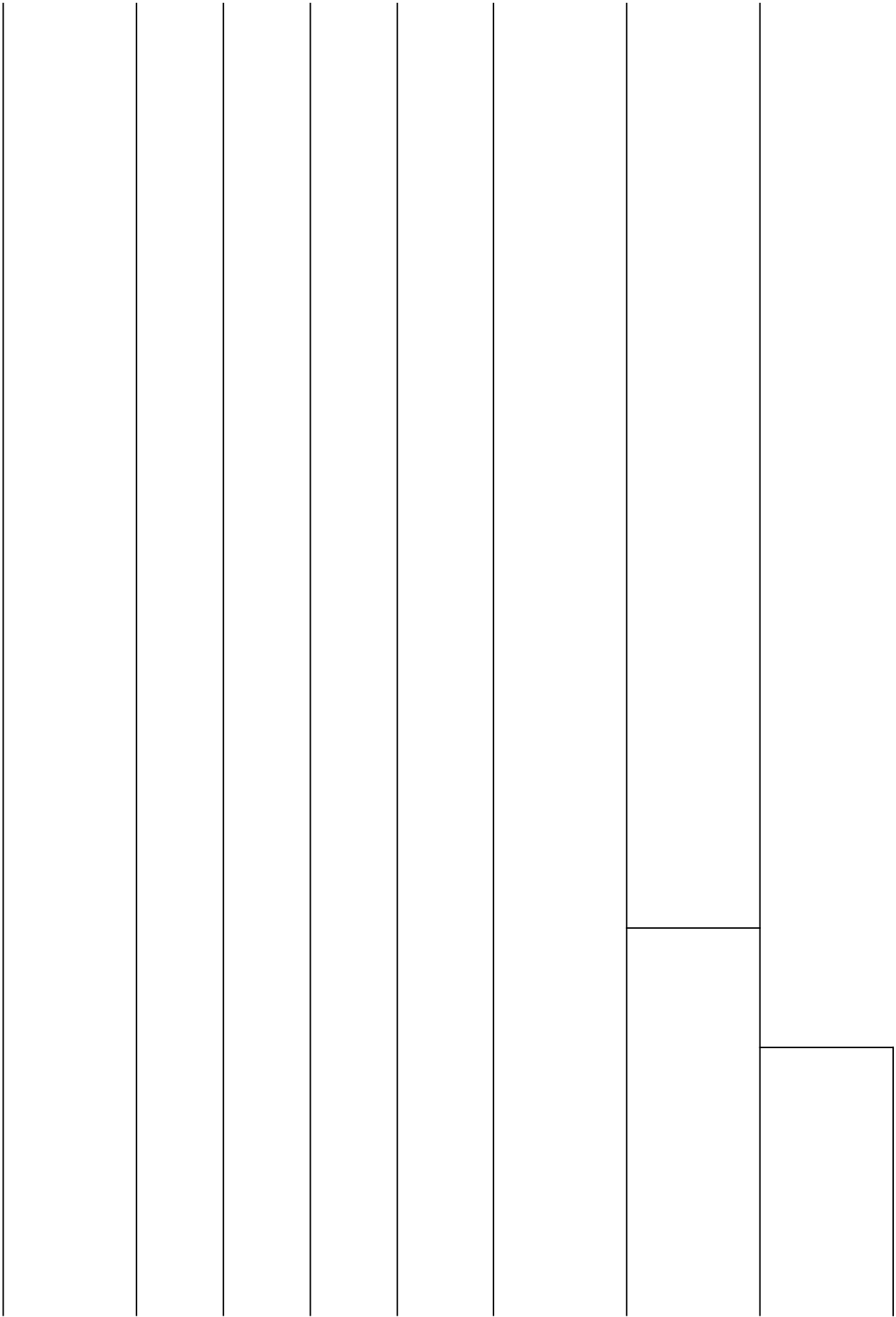
FGC5628
(Carthann
Fionn)

ZZ31_1
(Blod)



<p>L226 (Cormac Cas) lived around 200 CE; not paternally related to Éogan Mór; 10 SNPs, branching 520 BCE</p>	<p>FGC5660 (Mug Corb)>(Ferg Corb)</p>	<p>FGC5621 (Óengus Tírech)</p>	<p>FGC5631 (Lugaid Mend)>(Déisi Tuisceart clan) b. around 330?</p>	<p>FGC79630 (Conall Eachluath 359-434) oldest son Enna Airttheach (died w/o heir?)</p>	<p>Z17669 (Tál Cas) b. around 380-390</p>		
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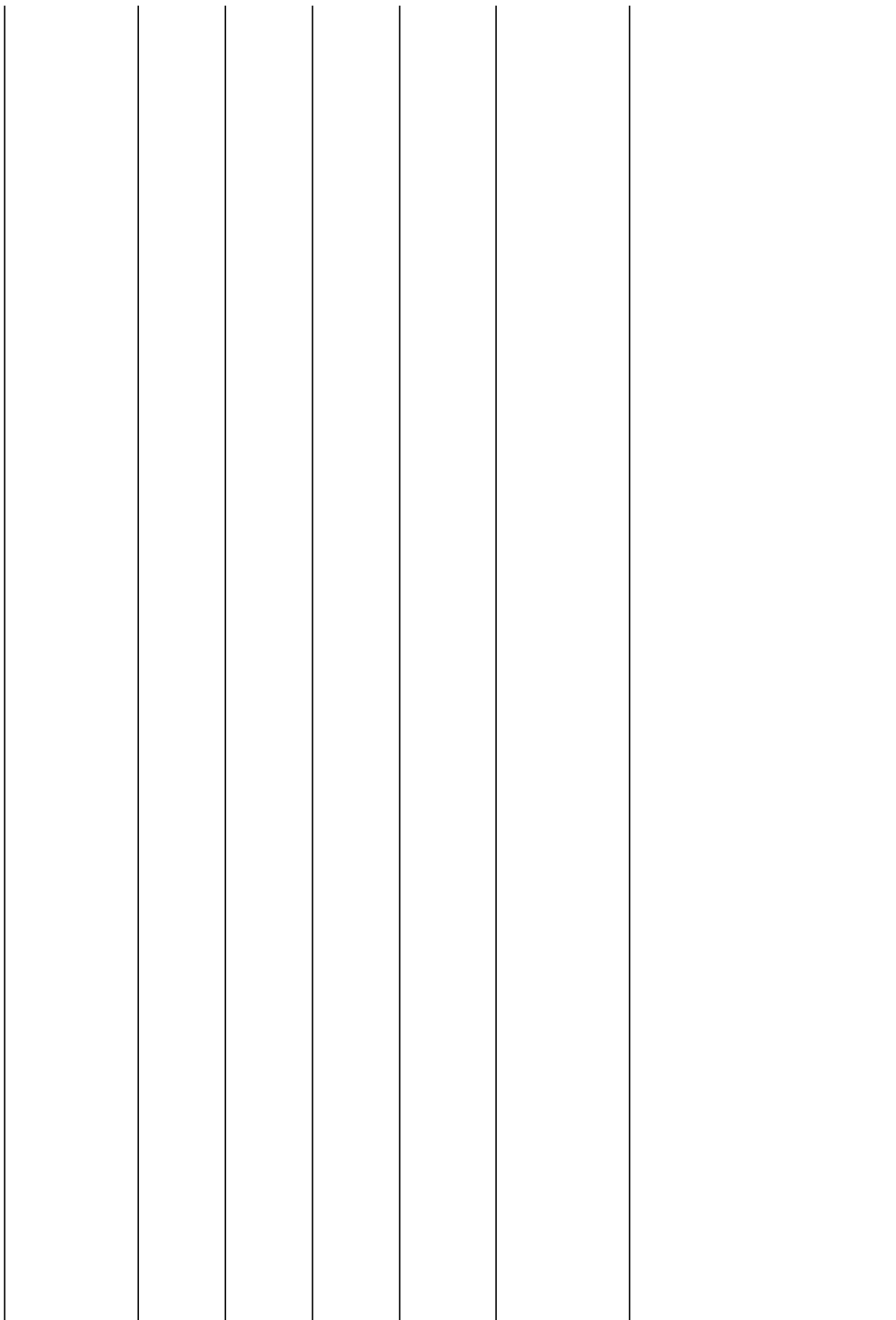




DC9 > DC10
> DC1164 >
DC8 (Aengus
Cínatrach)

DC1165
(Cinéal
Fermaic) >
O'Dea

DC993
(Cinéal
gCullachtaig
h) > Griffin



FGC79628 (Ui Caisin)

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21	20	19	18	17	16
650	715	780	845	910	975
<i>DC70*</i>	<i>DC70*</i>	<i>DC70*</i>	<i>DC70*</i>	<i>DC70*</i>	<i>DC70*</i>
<i>DC70*</i>	<i>DC70*</i>	<i>DC70*</i>	<i>DC70*</i>	<i>DC70*</i>	<i>DC70*</i>
<i>DC70*</i>	<i>DC70*</i>	<i>DC70*</i>	<i>DC70*</i>	<i>DC70*</i>	<i>DC70*</i>

FT22500	DC1239	FT22258	FT25139	FT25141	FT25528
		DC69 (Énna Téith?) 3rd son of Conall?	BY24634	DC331	DC962
				FT384333	FT384053
		DC109	BY43859	DC113	DC114

DC782

FT27298
(Brian
Boruma mac
Cennétig
941-1014)

ZZ34_1
(Lorcan?)

ZZ35_1
(Cennétig
mac Lorcáin
d. 951)

FGC5659 &
FGC5659.1

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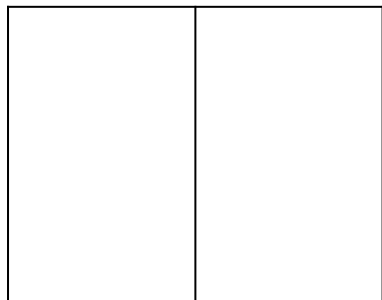
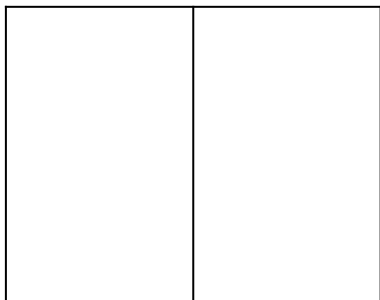
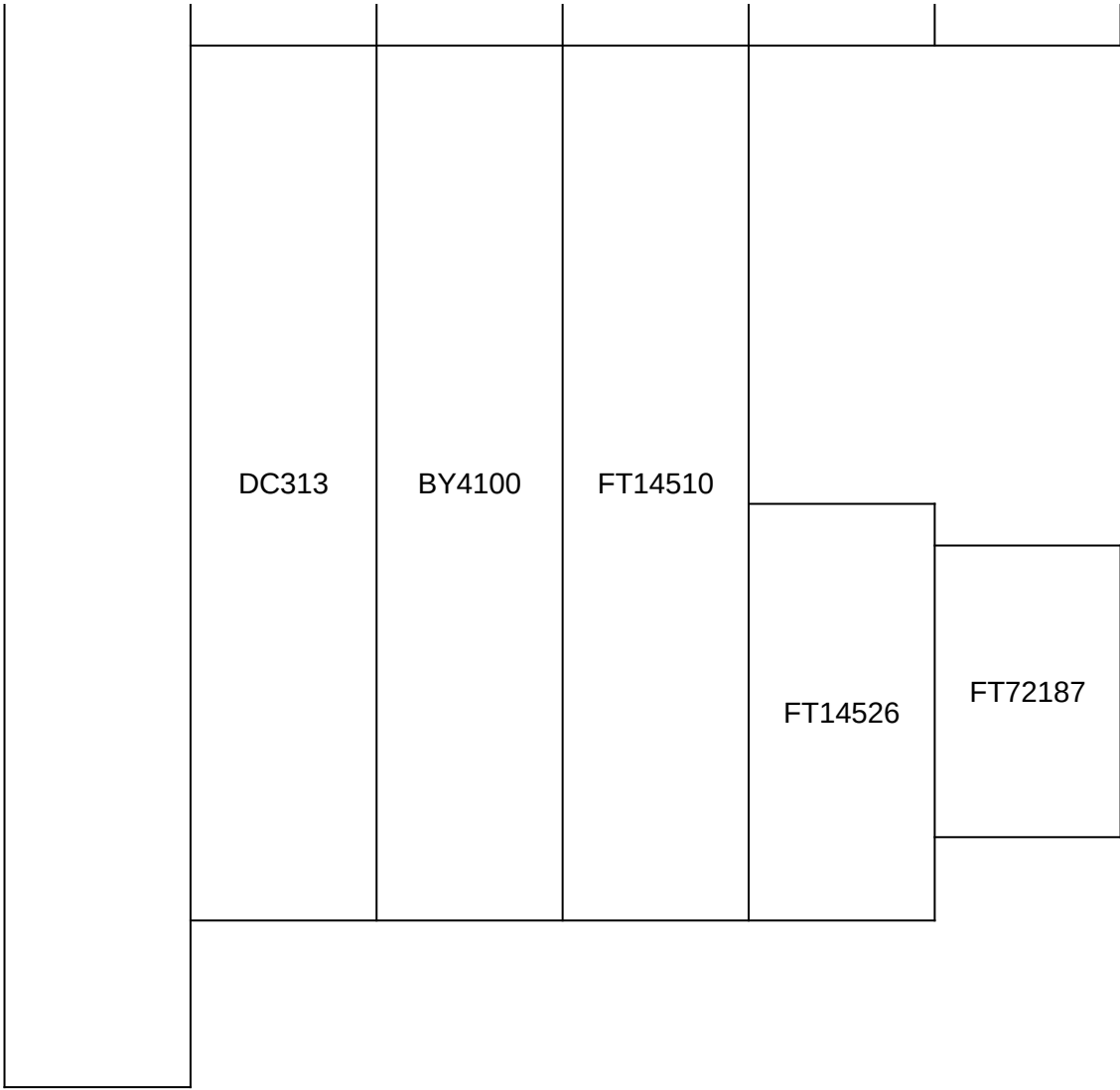
BY4103 & FT419536

DC414	DC415	DC416
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DC269	BY185997	DC856
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DC41	DC 42 & DC43	DC44
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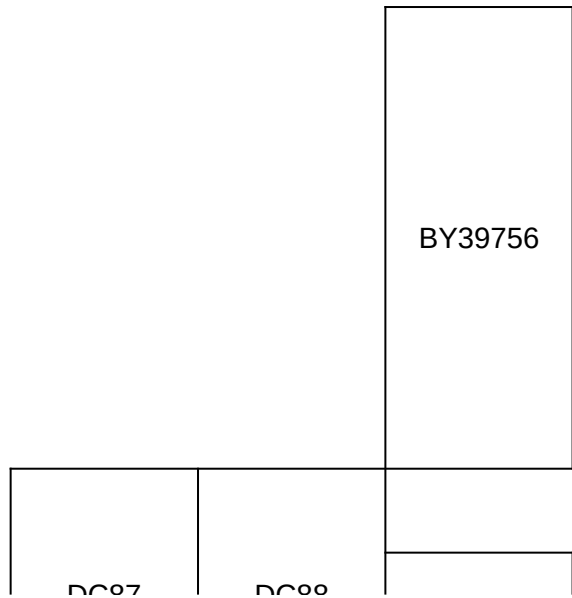
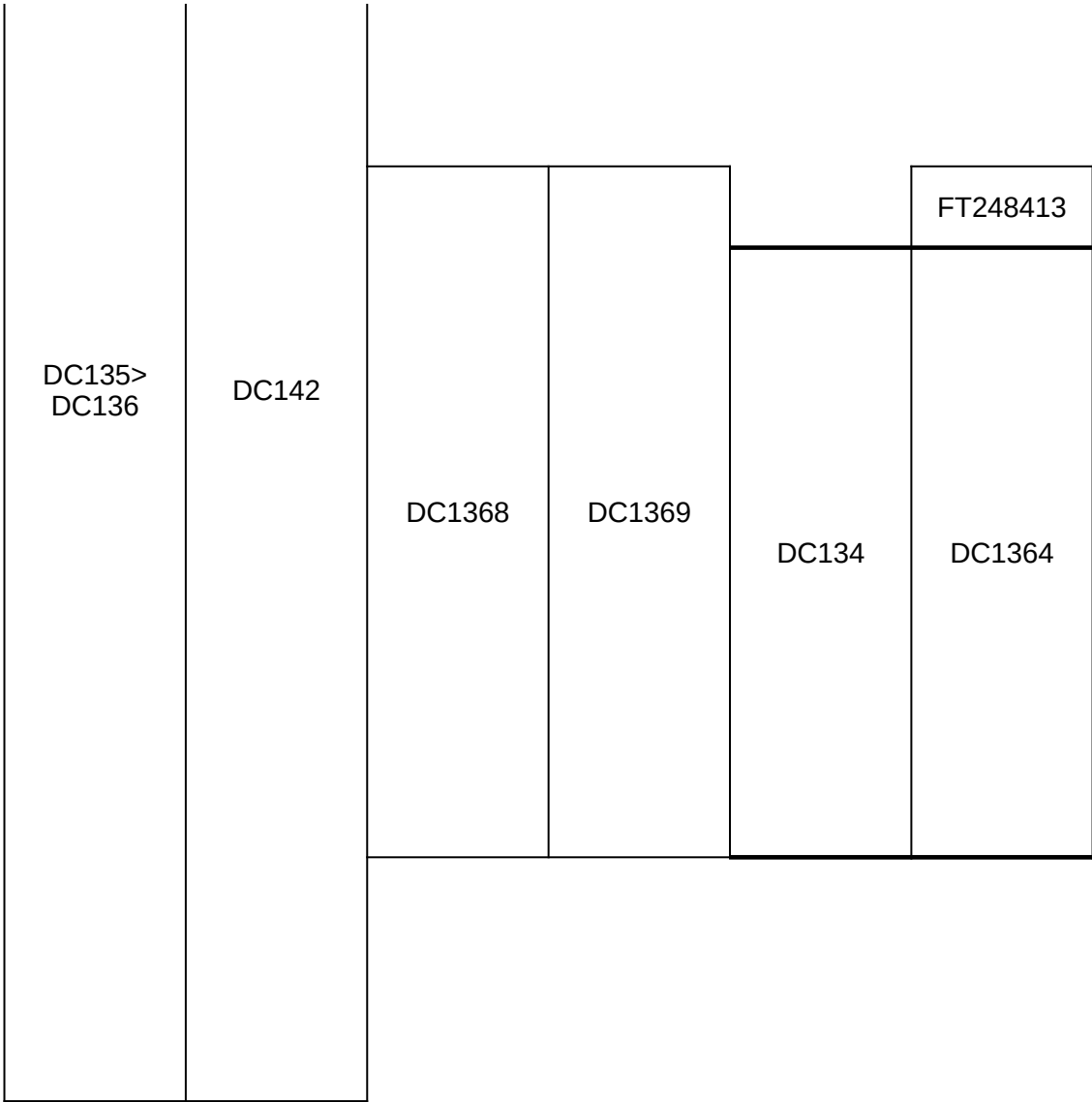


BY4102	DC24	DC40	DC50	DC51
			FT62906	<i>FT62906*</i>
			DC18	DC1297

		DC194	FT211628
			DC464
		DC1316	DC1318
	FT57108		
DC20			

DC20			
	FGC12295	BY4098	FGC12297

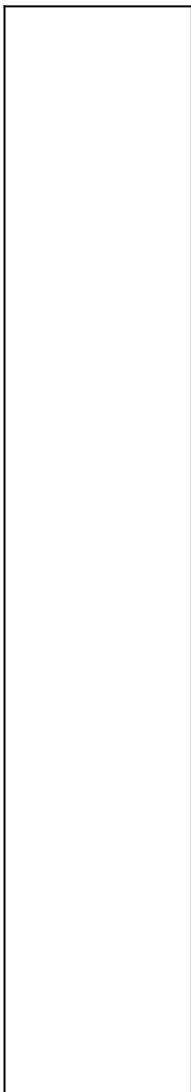
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	DC01	DC00	DC512
DC25	FT56566	FT56567	FT56586

FT410068	FT185773	FT409558	FT409740
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DC116	DC117	DC118	DC121
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DC63
(Carthann)

BY4101

DC29

DC32

DC470

				DC362	DC31
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15	14	13	12	11	10
1040	1105	1170	1235	1300	1365
<i>DC70*</i>	<i>DC70*</i>	<i>DC70*</i>	<i>DC70*</i>	<i>DC70*</i>	<i>DC70*</i>
<i>DC70*</i>	<i>DC70*</i>	<i>DC70*</i>	<i>DC70*</i>	<i>DC70*</i>	<i>DC70*</i>
<i>DC70*</i>	<i>DC70*</i>	<i>DC70*</i>	<i>DC70*</i>	<i>DC70*</i>	<i>DC70*</i>

FT25530	FT26439	<i>FT22500*</i>	<i>FT22500*</i>	<i>FT22500*</i>	<i>FT22500*</i>
		<i>FT22500*</i>	<i>FT22500*</i>	<i>FT22500*</i>	<i>FT22500*</i>
FT32872	FT32873	FT32874	FT4391	FT4533	FT5797
FT384301	FT385379	FT385747	FT385751	FT385810	FT386186
DC334	DC335	DC505	FT100364	DC503	DC504
DC35	FT123264	DC36	BY4091	DC37	
					DC296

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DC495

Y5610

DC1

DC13

FT401395

FT400870

FT401099

DC456

VES221206

			15251200
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DC288

BY184691

FGC5647	FGC498	FGC5619	FGC5634
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DC291			
	FT101316	DC1454	FT101216

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FT126220	BY188384
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	DC709		
		DC815	<table border="1"> <tr> <td><i>DC815*</i></td> <td><i>DC815*</i></td> </tr> </table>
<i>DC815*</i>	<i>DC815*</i>		

DC45	FT8890				<i>FT8890*</i>
		FT8466	FT10275	FT10634	FT11411
<i>PH184*</i>	<i>PH184*</i>	<i>PH184*</i>	<i>PH184*</i>	<i>PH184*</i>	<i>PH184*</i>

DC1341

FT113343	FT113567	FT115810	FT115866	FT117149	FT117687.1
DC877	DC878	DC879	DC880	DC881	DC882

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DC418	DC419	FT34537	FT34000	FT33257	FT33377
	DC918	BY140662	BY51754	DC919	DC920

FT77683	FT77685	DC908	DC910	DC911	FT77679
FT35696	FT36040	FT36754	FT1955	FT273434	FT273874

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	<i>FT169142*</i>	<i>FT169142*</i>	<i>FT169142*</i>	<i>FT169142*</i>	<i>FT169142*</i>
FT169142	DC15	DC208	DC950	FT265257	FT265258

MF45191	FT71838	A4264	FT223086	FT71714	FT72195
FT14460	FT14490	FT14496	FT14512	FT14517	FT14537
DC901	DC902	DC903	DC904	DC905	DC906
<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>
<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>
<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>
<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>
<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>
<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>
<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>
<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>
<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>
<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>
				DC233	DC234

DC52	DC53	DC54	DC245	DC244	DC247
				BY43792	DC1573

					DC261
<i>FT62906*</i>	<i>FT62906*</i>	<i>FT62906*</i>	<i>FT62906*</i>	<i>FT62906*</i>	<i>FT62906*</i>
	FT159770	FT159792	FT159545	FT159819	FT159993
		FT244455	FT241370	FT411818	FT242218
DC1302	DC1308	DC683	Y42666	YFS157702	A6097
				DC936	DC940

FT199569	FT198765	FT461239
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BY182258	FTB6959	BY182258*
		BY182258*

		DC392	A6829	DC394	DC396
FT212775	BY166060	FT211355	FT211387	FT212935	FT212964
DC465	DC469	DC719			
			DC717	BY218946	BY222460
DC1320	DC1321	DC1323	DC1327	DC1328	DC1329

		DC435	DC1440	DC436	DC439

FGC12298	FGC65573				
		FGC12290	FGC12292	FGC12302	
					FGC12296

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FT223736	FT223992
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FT248470	FT249328	FT250345	FT278653	FT278654	Y69322
DC1406	DC506	DC587	DC588	FT153635	FT126138
				DC373	DC1362
				DC728	DC733
				DC993 (Cinéal gCuallachtaig h)	

FT37203	FTB59393	DC104	BY209072	DC106	DC101
				DC889	BY199154

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BY53073	DC1112	DC1113	DC513	DC515	DC518
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FT56654					
	DC26	FT59728			
			BY62163	BY101651	BY114826

<i>DC63*</i>	<i>DC63*</i>
<i>DC63*</i>	<i>DC63*</i>
<i>DC63*</i>	<i>DC63*</i>
<i>DC63*</i>	<i>DC63*</i>
<i>DC63*</i>	<i>DC63*</i>
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<i>DC63*</i>	<i>DC63*</i>

FT410096	FT410195	FT410373	FT410582	FT410750	FT410925
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DC685

DC122	DC123	FT178983	FT181284	FT265519	FT265684
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DC127					
	DC125	DC132			

			DC130	DC133	FT87641
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DC631	BY214361	DC1554
<i>DC362*</i>	<i>DC362*</i>	<i>DC362*</i>
<i>DC362*</i>	<i>DC362*</i>	<i>DC362*</i>
<i>DC362*</i>	<i>DC362*</i>	<i>DC362*</i>
<i>DC362*</i>	<i>DC362*</i>	<i>DC362*</i>
<i>DC362*</i>	<i>DC362*</i>	<i>DC362*</i>
<i>DC362*</i>	<i>DC362*</i>	<i>DC362*</i>
		DC168
		DC735

DC1274	DC471	DC474	DC476	FT179175	
					DC472

DC406	DC1561	DC407	DC408	DC409	DC410
			DC30 Cú Mara mac Domhnall around 1099	DC189	DC191

9	8	7	6	5	4
1430	1495	1560	1625	1690	1755
DC70*	DC70*	DC70*	DC70*	DC70*	DC70*
DC70*	DC70*	DC70*	DC70*	DC70*	DC70*
DC70*	DC70*	DC70*	DC70*	DC70*	DC70*
					DC83*
FT22500*	FT22500*	FT22500*	FT22500*	FT22500*	FT22500*
FT22500*	FT22500*	FT22500*	FT22500*	FT22500*	FT22500*

FTB79393	BY224322	FTB79393*	FTB79393*	FTB79393*	FTB79393*
				DC1083	DC1084
				DC377	DC380

FT386753	FT387303	FT384333*	FT384333*	FT384333*	FT384333*
		FT384333*	FT384333*	FT384333*	FT384333*
FT100059	FT100521	FT101643	FT103364	FT103408	FTC20331
			DC505*	DC505*	DC505*
			DC505*	DC505*	DC505*
			DC505*	DC505*	DC505*
			DC505*	DC505*	DC505*
			DC505*	DC505*	DC505*

		DC381	DC381*	DC381*	DC381*
DC299	DC296*	DC296*	DC296*	DC296*	DC296*
					DC297

DC977	BY178080	DC1073	DC979	DC980	DC981
				Y5610*	Y5610*
				Y5610*	Y5610*
				Y5610*	Y5610*
				Y5610*	Y5610*
				Y5610*	Y5610*
DC441	DC442	DC443	DC444	DC445	DC446
	FTA18022	FT302534	FTA19313	FTA20718	FTC11846 John O'Brien (1725-1809) Fauquier, Virginia
FT401155	FT401158	FT401593	FT401631	FT401832	FT402205
	DC1220	DC1218			
			FT196383	FT194845	FT195273
				DC456*	DC456*
FT232974	FTB39232	DC453	DC457	DC459	FT73700 Patrick O'Briant b. Limerick 1740-d. 1804 Granville Co., NC
FT120209	DC344	DC344.1	DC310	BY177751 Donough O'Brien b. 1687 Co Clare	FT120208
				FGC134418	BY24503
			DC311	BY224900	DC312

DC1344	BY4092	DC62		BY5212	Matthew O'Dea, b. 1766 and d. 1844
					Denis O'Brien, Clare/Limerick > Loughglyn, Rosc b1763
					Y44000 John O'Brien 1782-1836, Rathwood, Abington Pari
DC289	FTA29801	FTB2443			DC288*
					DC288*
					DC288*
			FTA15100	FTA14166	FTA14318
			DC966*	DC966*	DC966*
BY185177	BY185856	FT421634	MF102628	Y225868	BY184691*
					BY184691*
FGC5640	FGC5653	FGC5658	FGC8005		FGC5647*
					FGC5647*
				FGC5639	FGC5645

FT102559	FT134392	MF28981	FT101316*	FT101316*	FT101316*
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				DC709*	DC709*
	FT130422	FT130595	FT130988	FT131043	FT131456
DC1547	DC772	DC773	DC774	DC775	DC776 Long Andrew Kennedy
				DC1544*	DC1544*
				DC1544*	DC1544*

		DC1544	FT382449	FT383080	FT382449*
					FT382449*
					Morgan Kennedy 1700-1770
DC815*	DC815*	DC815*	DC815*	DC815*	DC815*
		FT375402	FT375215	FT375268	FT375537

		DC818	BY208548	BY208568	DC820
FT8890*	FT8890*	FT8890*	FT8890*	FT8890*	FT8890*
FT9243	FT9737	FT8466*	FT8466*	FT8466*	FT8466*
		FT8466*	FT8466*	FT8466*	FT8466*
DC39	DC605	FT198008			Patrick Ahern, b 1743 Mitchelstown, Co Cork
			DC46	DC48	DC49
PH184*	PH184*	PH184*	PH184*	PH184*	PH184*
DC1333	DC1341*	DC1341*	DC1341*	DC1341*	DC1341*
	DC1338	DC1337	DC1338*	DC1338*	DC1338*
			DC1338*	DC1338*	DC1338*
			DC1338*	DC1338*	DC1338*
			FTA78235 William W Hogan, 1660- 1734	FTA78235*	FTA78235*
FT117846	FT179303	FT376794	FTB2433	FT117936	FT113765
DC883	DC885	FT163460	FTB52002	FTB54255 James Luttrell, b. 1630	GG383

	<i>FGC5659*</i>	<i>FGC5659*</i>	<i>FGC5659*</i>	<i>FGC5659*</i>	<i>FGC5659*</i>
	<i>FGC5659*</i>	<i>FGC5659*</i>	<i>FGC5659*</i>	<i>FGC5659*</i>	<i>FGC5659*</i>
	<i>FGC5659*</i>	<i>FGC5659*</i>	<i>FGC5659*</i>	<i>FGC5659*</i>	<i>FGC5659*</i>
	<i>FGC5659*</i>	<i>FGC5659*</i>	<i>FGC5659*</i>	<i>FGC5659*</i>	<i>FGC5659*</i>
	<i>FGC5659*</i>	<i>FGC5659*</i>	<i>FGC5659*</i>	<i>FGC5659*</i>	<i>FGC5659*</i>
	<i>FGC5659*</i>	<i>FGC5659*</i>	<i>FGC5659*</i>	<i>FGC5659*</i>	<i>FGC5659*</i>
	<i>FGC5659*</i>	<i>FGC5659*</i>	<i>FGC5659*</i>	<i>FGC5659*</i>	<i>FGC5659*</i>
	<i>FGC5659*</i>	<i>FGC5659*</i>	<i>FGC5659*</i>	<i>FGC5659*</i>	<i>FGC5659*</i>
	<i>FGC5659*</i>	<i>FGC5659*</i>	<i>FGC5659*</i>	<i>FGC5659*</i>	<i>FGC5659*</i>
		<i>DC209</i>	<i>DC209*</i>	<i>DC209*</i>	<i>DC209*</i>
			<i>DC21</i>	<i>DC21*</i>	<i>DC21*</i>
				<i>DC21*</i>	<i>DC21*</i>
		<i>BY4103*</i>	<i>BY4103*</i>	<i>BY4103*</i>	<i>BY4103*</i>
		<i>BY4103*</i>	<i>BY4103*</i>	<i>BY4103*</i>	<i>BY4103*</i>
		<i>BY4103*</i>	<i>BY4103*</i>	<i>BY4103*</i>	<i>BY4103*</i>
					<i>DC414*</i>

FT33466	FT33484	FT33935	FT34310	FT34364	FT34865
DC921	DC922	DC926	DC927	FT32875	Y149686
DC276				DC274	<i>DC274*</i>
					<i>DC274*</i>
	DC1067	DC1068	DC1069	DC1070	DC1071

FT352178	FT352470	FT352926	FT393193	<i>FT352178*</i>	<i>FT352178*</i>
					FT100291 John Lynch, 1742-1821
FT77681	FT77682	FT92466	SK1958	Z23396	DC909

			<i>FT36754*</i>	<i>FT36754*</i>	<i>FT36754*</i>
FT273907	FT274786	FT274865	FT275221	FT459712	FTA48362
			<i>DC278</i>	<i>DC278</i>	<i>FT122267</i>

DC270	DC279	FT123307
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<i>FT169142*</i>	<i>FT169142*</i>	<i>FT169142*</i>	<i>FT169142*</i>	<i>FT169142*</i>	<i>FT169142*</i>
FT267669	PF5351	Y41039	Y43897	Y65968	YFS230971 Henry Anderson 1716-1790 Kilkenny
		<i>FT14526*</i>	<i>FT14526*</i>	<i>FT14526*</i>	<i>FT14526*</i>
		FT106631	FT106775	FT107029 John Haton Morris, 1679- 1739	FT107058
FT72284	FT72285	FTA89106	FTA88891	FTA90080	FTB44898
					MF287
FT14546	<i>FT14460*</i>	<i>FT14460*</i>	<i>FT14460*</i>	<i>FT14460*</i>	<i>FT14460*</i>
	<i>FT14460*</i>	<i>FT14460*</i>	<i>FT14460*</i>	<i>FT14460*</i>	<i>FT14460*</i>
DC907	DC928	FT100282	FT102927	FT103166	DC901*
					DC901*
<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>
<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>
<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>
<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>
<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>
<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>
<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>
<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	Jacob Brown
<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	b.1722, d.1790
<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>	<i>FGC5628*</i>

DC239	DC240	DC241	DC242	DC243	DC564
BY122665	BY131033	BY145732	DC1053	<i>BY122665*</i>	<i>BY122665*</i>
				<i>BY122665*</i>	<i>BY122665*</i>

				DC245*	DC245*	DC245*
				DC245*	DC245*	DC245*
DC1175	DC1176	DC1177	FTB21072		FT215918	FT214784
DC248	FT52231	FT52711	FT52845	FT54082	FT54485 William Lynch [1752-1837]	
DC56	DC57	DC58	DC59	DC60 Pierce Noland, b. ca. 1628	DC61	
DC40*	DC40*	DC40*	DC40*	DC40*	DC40*	
DC40*	DC40*	DC40*	DC40*	DC40*	DC40*	
DC40*	DC40*	DC40*	DC40*	DC40*	DC40*	
DC40*	DC40*	DC40*	DC40*	DC40*	DC40*	
DC40*	DC40*	DC40*	DC40*	DC40*	DC40*	
DC262	DC263	FT106790	DC261*	DC261*	DC261*	
			DC261*	DC261*	DC261*	
FT62906*	FT62906*	FT62906*	FT62906*	FT62906*	FT62906*	
FT160737	FT161722	FTC11463	FTC11464	FT159792*	FT159792*	
				FT159792*	FT159792*	
FT244455*	FT244455*	FT244455*	FT244455*	FT244455*	FT244455*	
FT242395	FT242692	FT243873	FT244006	FT242218*	FT242218*	
				FT242218*	FT242218*	
			BY193041	BY193041*	BY193041*	
				BY193041*	BY193041*	
				BY193041*	BY193041*	
DC1299	DC1301	YFS157633	A6097*	A6097*	A6097*	
			DC684		DC766	FT356560
					DC936*	
					DC936*	
BY157541	DC943	DC946	DC947	DC948	DC940*	
					DC940*	
	ZZ31_1*	ZZ31_1*	ZZ31_1*	ZZ31_1*	ZZ31_1*	
	ZZ31_1*	ZZ31_1*	ZZ31_1*	ZZ31_1*	ZZ31_1*	
	ZZ31_1*	ZZ31_1*	ZZ31_1*	ZZ31_1*	ZZ31_1*	

<i>FT199569*</i>	<i>FT199569*</i>	<i>FT199569*</i>	<i>FT199569*</i>	<i>FT199569*</i>	<i>FT199569*</i>
<i>FT199569*</i>	<i>FT199569*</i>	<i>FT199569*</i>	<i>FT199569*</i>	<i>FT199569*</i>	<i>FT199569*</i>
			<i>DC194*</i>	<i>DC194*</i>	<i>DC194*</i>
			<i>DC194*</i>	<i>DC194*</i>	<i>DC194*</i>
<i>BY182258*</i>	<i>BY182258*</i>	<i>BY182258*</i>	<i>BY182258*</i>	<i>BY182258*</i>	<i>BY182258*</i>
<i>BY182258*</i>	<i>BY182258*</i>	<i>BY182258*</i>	<i>BY182258*</i>	<i>BY182258*</i>	<i>BY182258*</i>
		FTA80958	FTA79461	FTA80793	FTA82956
DC397	DC398	FT211263	<i>DC392*</i>	<i>DC392*</i>	<i>DC392*</i>
			<i>DC392*</i>	<i>DC392*</i>	<i>DC392*</i>
FT213145	FT213433	FT213438	FT233275	FT376815	FT419555

BY222994	FT21931	DC1185	FT15101	FT16446	FT16447
FT397040	FT58187	FT58188	MF22660	<i>DC1316*</i>	<i>DC1316*</i>
				<i>DC1316*</i>	<i>DC1316*</i>
				<i>DC1316*</i>	<i>DC1316*</i>
				<i>DC199*</i>	<i>DC199*</i>
				<i>DC199*</i>	<i>DC199*</i>
				<i>DC199*</i>	<i>DC199*</i>
		DC199	DC198	FT384964	DC200

DC440			<i>DC435*</i>	<i>DC435*</i>	<i>DC435*</i>
			<i>DC435*</i>	<i>DC435*</i>	<i>DC435*</i>
			<i>DC435*</i>	<i>DC435*</i>	<i>DC435*</i>
					ACT3399*
					DC997
		DC437	DC1435	DC1436	DC1437
			<i>FGC12290*</i>	<i>FGC12290*</i>	<i>FGC12290*</i>
					<i>FGC12302*</i>

					DC201
DC201	FT14483	DC201*	DC201*	DC201*	DC201*
		DC201*	DC201*	DC201*	DC201*
		DC201*	DC201*	DC201*	DC201*
					DC868
			DC360	DC608 William McCraw b.1690	FT404279
BY34353					
	FT308208	FT432006	Z24912	FTA55090	FTA55127
			FGC12289	FGC12293	FGC12294
				DC9*	DC9*
				DC9*	DC9*
				DC9*	DC9*
				DC9*	DC9*
			DC1165*	DC1165*	DC1165*
				DC135*	DC135*
				DC135*	DC135*
				DC135*	DC135*
				DC135*	DC135*
				DC135*	DC135*
				DC135*	DC135*
				FT223736*	

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FT224575	FTB65001	FT185853	FTB64469	FTB64832	FTB65567
FTA56415	FT329266	FTA58244	FTA89309	FTA90715	FTB59412
<i>FT248413*</i>	<i>FT248413*</i>	<i>FT248413*</i>	<i>FT248413*</i>	<i>FT248413*</i>	<i>FT248413*</i>
<i>FT248413*</i>	<i>FT248413*</i>	<i>FT248413*</i>	<i>FT248413*</i>	<i>FT248413*</i>	<i>FT248413*</i>
				<i>DC134*</i>	<i>DC134*</i>
				<i>DC134*</i>	<i>DC134*</i>
				<i>DC134*</i>	<i>DC134*</i>
				<i>DC134*</i>	<i>DC134*</i>
				<i>DC134*</i>	<i>DC134*</i>
				<i>DC134*</i>	<i>DC134*</i>
<i>FT153635*</i>	<i>FT153635*</i>	<i>FT153635*</i>	<i>FT153635*</i>	<i>FT153635*</i>	<i>FT153635*</i>
	DC430	DC1545	DC383	DC431	DC433
DC1363	DC1365	DC1366	FTB68796	<i>DC373*</i>	
				<i>DC373*</i>	
				FT65411	BY189742
FT81386	FT92575	<i>DC728*</i>	<i>DC728*</i>	<i>DC728*</i>	<i>DC728*</i>
		<i>DC728*</i>	<i>DC728*</i>	<i>DC728*</i>	<i>DC728*</i>
				FT410393	FT86171
<i>DC993*</i>	<i>DC993*</i>	<i>DC993*</i>	<i>DC993*</i>	<i>DC993*</i>	<i>DC993*</i>
<i>DC993*</i>	<i>DC993*</i>	<i>DC993*</i>	<i>DC993*</i>	<i>DC993*</i>	<i>DC993*</i>
<i>DC993*</i>	<i>DC993*</i>	<i>DC993*</i>	<i>DC993*</i>	<i>DC993*</i>	<i>DC993*</i>
	DC812	BY208539	FT78783	FT77902	FT78532
DC103	DC108	DC97	DC98	FT36072	
					DC851
	<i>DC889*</i>	<i>DC889*</i>	<i>DC889*</i>	<i>DC889*</i>	<i>DC889*</i>
				<i>BY199154*</i>	<i>BY199154*</i>
BY200749	BY198316	BY198515	BY199572	BY199675	Y303244
DC658	DC89	DC90	DC91	DC92	DC93
			FT228012	DC1552	FT0667

DC519	DC637	FGC59257	FT220042	DC1333	FT0007
			DC514	DC516	DC517

				DC329	DC329*
					DC329*
					DC329*
			DC26*	DC26*	DC26*
			DC26*	DC26*	DC26*
			DC26*	DC26*	DC26*
			DC26*	DC26*	DC26*
		DC158	DC163	DC167	DC158*
					DC158*
BY117785	BY128398	BY79805	FT59253	FT59436	FT59521
		DC447	BY220485	BY221726	DC450
DC63*	DC63*	DC63*	DC63*	DC63*	DC63*
DC63*	DC63*	DC63*	DC63*	DC63*	DC63*
DC63*	DC63*	DC63*	DC63*	DC63*	DC63*
DC63*	DC63*	DC63*	DC63*	DC63*	DC63*
DC63*	DC63*	DC63*	DC63*	DC63*	DC63*
DC63*	DC63*	DC63*	DC63*	DC63*	DC63*
DC63*	DC63*	DC63*	DC63*	DC63*	DC63*
FT411015	FT411079	FT411193	FT439899	FT410068*	FT410068*
				FT410068*	FT410068*
DC686	DC689	DC690	FT343349	FT343512	Y144591
FT266198	BY155997	FT265579	FT266350	FT266438	FT267184
				DC120	FT381429 John Costello 1785-1865 Clare
				DC127*	DC127*
				DC127*	DC127*
				DC127*	DC127*
				DC127*	DC127*
				DC127*	DC127*
					DC125*
		S24530	FT404638	FT405072	FT406525
DC130*	DC130*	DC130*	DC130*	DC130*	DC130*

					DC337
DC1543	<i>DC1543*</i>	<i>DC1543*</i>	<i>DC1543*</i>	<i>DC1543*</i>	<i>DC1543*</i>
	<i>DC1543*</i>	<i>DC1543*</i>	<i>DC1543*</i>	<i>DC1543*</i>	<i>DC1543*</i>
	<i>DC1543*</i>	<i>DC1543*</i>	<i>DC1543*</i>	<i>DC1543*</i>	<i>DC1543*</i>
	<i>DC1543*</i>	<i>DC1543*</i>	<i>DC1543*</i>	<i>DC1543*</i>	<i>DC1543*</i>
	<i>DC1543*</i>	<i>DC1543*</i>	<i>DC1543*</i>	<i>DC1543*</i>	<i>DC1543*</i>
	<i>BY4101*</i>	<i>BY4101*</i>	<i>BY4101*</i>	<i>BY4101*</i>	<i>BY4101*</i>
	<i>BY4101*</i>	<i>BY4101*</i>	<i>BY4101*</i>	<i>BY4101*</i>	<i>BY4101*</i>
	<i>BY4101*</i>	<i>BY4101*</i>	<i>BY4101*</i>	<i>BY4101*</i>	<i>BY4101*</i>
	<i>BY4101*</i>	<i>BY4101*</i>	<i>BY4101*</i>	<i>BY4101*</i>	<i>BY4101*</i>
	<i>BY4101*</i>	<i>BY4101*</i>	<i>BY4101*</i>	<i>BY4101*</i>	<i>BY4101*</i>
	<i>BY4101*</i>	<i>BY4101*</i>	<i>BY4101*</i>	<i>BY4101*</i>	<i>BY4101*</i>
	<i>BY4101*</i>	<i>BY4101*</i>	<i>BY4101*</i>	<i>BY4101*</i>	<i>BY4101*</i>
	<i>BY4101*</i>	<i>BY4101*</i>	<i>BY4101*</i>	<i>BY4101*</i>	<i>BY4101*</i>
	<i>BY4101*</i>	<i>BY4101*</i>	<i>BY4101*</i>	<i>BY4101*</i>	<i>BY4101*</i>
	<i>BY4101*</i>	<i>BY4101*</i>	<i>BY4101*</i>	<i>BY4101*</i>	<i>BY4101*</i>
	<i>BY4101*</i>	<i>BY4101*</i>	<i>BY4101*</i>	<i>BY4101*</i>	<i>BY4101*</i>
	<i>BY4101*</i>	<i>BY4101*</i>	<i>BY4101*</i>	<i>BY4101*</i>	<i>BY4101*</i>
	DC1378	FT72069	FT72438	FT72650	<i>DC1378*</i>
				<i>DC1378*</i>	
DC478	DC479	DC480	DC481	FT232893	Z18881
<i>DC362*</i>	<i>DC362*</i>	<i>DC362*</i>	<i>DC362*</i>	<i>DC362*</i>	<i>DC362*</i>
<i>DC362*</i>	<i>DC362*</i>	<i>DC362*</i>	<i>DC362*</i>	<i>DC362*</i>	<i>DC362*</i>
<i>DC362*</i>	<i>DC362*</i>	<i>DC362*</i>	<i>DC362*</i>	<i>DC362*</i>	<i>DC362*</i>
<i>DC362*</i>	<i>DC362*</i>	<i>DC362*</i>	<i>DC362*</i>	<i>DC362*</i>	<i>DC362*</i>
<i>DC362*</i>	<i>DC362*</i>	<i>DC362*</i>	<i>DC362*</i>	<i>DC362*</i>	<i>DC362*</i>
<i>DC362*</i>	<i>DC362*</i>	<i>DC362*</i>	<i>DC362*</i>	<i>DC362*</i>	<i>DC362*</i>
DC829	FT2630	<i>DC168*</i>	<i>DC168*</i>	<i>DC168*</i>	<i>DC168*</i>
		DC170	DC171	DC172	DC174
BY43764	DC1536	DC1537	DC738	DC739	DC740
			<i>DC470*</i>	<i>DC470*</i>	<i>DC470*</i>
	DC1422	BY93454	DC1419	DC1420	DC1423
DC1273	DC475	FT31876	DC482	DC483	DC484
			<i>DC31*</i>	<i>DC31*</i>	<i>DC31*</i>
			<i>DC31*</i>	<i>DC31*</i>	<i>DC31*</i>

			<i>DC31*</i>	<i>DC31*</i>	<i>DC31*</i>
			<i>DC31*</i>	<i>DC31*</i>	<i>DC31*</i>
			<i>DC31*</i>	<i>DC31*</i>	<i>DC31*</i>
DC411	DC412	DC651	FT132717	FT134023	
					FT374387

	<i>DC179*</i>	<i>DC179*</i>	<i>DC179*</i>
	<i>DC179*</i>	<i>DC179*</i>	<i>DC179*</i>
<i>DC189*</i>	<i>DC189*</i>	<i>DC189*</i>	<i>DC189*</i>
<i>DC189*</i>	<i>DC189*</i>	<i>DC189*</i>	<i>DC189*</i>
<i>DC189*</i>	<i>DC189*</i>	<i>DC189*</i>	<i>DC189*</i>
<i>DC189*</i>	<i>DC189*</i>	<i>DC189*</i>	<i>DC189*</i>
<i>DC189*</i>	<i>DC189*</i>	<i>DC189*</i>	<i>DC189*</i>
<i>DC189*</i>	<i>DC189*</i>	<i>DC189*</i>	<i>DC189*</i>

FTA91181	<i>FTA91181*</i>	<i>FTA91181*</i>	<i>FTA91181*</i>	<i>FTA91181*</i>	<i>FTA91181*</i>
	<i>FTA91181*</i>	<i>FTA91181*</i>	<i>FTA91181*</i>	<i>FTA91181*</i>	<i>FTA91181*</i>
				DC365	DC366
DC340	DC320	DC324	DC325	DC594	DC595

3	2	1	FTDNA	Surname	Country	Sept
1820	1885	1950	Kit No.	of MRKA	of origin	or clan
DC70*	DC70*	DC70*	N219242	Clift	England	Déisi Muman? (move to Wales from Ireland around 200-250 CE)
DC70*	DC70*	DC70*	184259	Manus	unknown	
DC70*	DC70*	DC70*	?	?	England	
DC83*	DC83*	DC83*	174394	Walker	England	
FT22500*	FT22500*	FT22500*	948344	Walsh	Ireland	
FT22500*	FT22500*	FT22500*	359729	Wallace	unknown	
		DC69*	56031	Casey	Ireland	Casey sept
FTB79393*	FTB79393*	FTB79393*	MI36320	Casey	Ireland	
DC1085	DC1083*	DC1083*	131349	Casey	Ireland	
	DC1083*	DC1083*	245778	Casey	Ireland	
		DC377*	373282	Casey	Ireland	
DC722	DC724	DC722*	833307	Boyd	unknown	
		DC722*	131285	McLain	unknown	
FT384333*	FT384333*	FT384333*	IN95726	Mullins	Ireland	Clancy (Mac Fhlannchaidh)
FT384333*	FT384333*	FT384333*	930895	McCook	Ireland	
MF106363	DC503*	DC503*	888465	Butler	unknown	
	DC503*	DC503*	382632	Butler	unknown	
	DC503*	DC503*	585032	Kern	USA	
DC505*	DC505*	DC505*	437757	Clancy	Ireland	
DC505*	DC505*	DC505*	389558	Clancy	Ireland	
DC505*	DC505*	DC505*	310801	Clancy	Ireland	
DC505*	DC505*	DC505*	322662	Clancy	Ireland	
DC505*	DC505*	DC505*	?	?	unknown	
	DC36*	DC36*	326033	O'Brien	Ireland	
	DC36*	DC36*	717257	O'Brien	Ireland	
	DC36*	DC36*	154119	Bryant	Ireland	
	DC36*	DC36*	346879	Winnett	Ireland	
	DC36*	DC36*	52082	Bryant	unknown	
	DC326	DC326*	345292	Bryant	Ireland	
		DC326*	334249	Bryant	Ireland	
		DC326*	IN70710	O'Brien	Ireland	
		DC326*	MK55820	Hanley	Ireland	
DC381*	DC381*	DC381*	B447669	O'Brien	Ireland	
	DC382	DC382*	460890	Bryant	USA	
		DC382*	?	?	unknown	
DC296*	DC296*	DC296*	505175	Brien	Ireland	
DC298	DC300	DC297*	656407	O'Bryan	USA	
		DC297*	B122229	O'Bryan	USA	
		DC297*	368920	O'Bryan	USA	
		DC297*	AM15749	Bryant	USA	
		DC297*	359721	Keys	unknown	
		DC495*	40468	O'Brien	Ireland	

DC982	Y75874 (Michel O'Brien 1850)	DC977*	B183643	O'Brien	Ireland
		DC977*	B385305	O'Brien	Ireland
Y5610*	Y5610*	Y5610*	197598	O'Brien	Ireland
Y5610*	Y5610*	Y5610*	171533	O'Brien	Ireland
Y5610*	Y5610*	Y5610*	30225	O'Brien	Ireland
Y5610*	Y5610*	Y5610*	849304	Ryan	Ireland
Y5610*	Y5610*	Y5610*	406276	FitzGibbon	England
FTA96573	DC441*	DC441*	286323	O'Brien	Ireland
		DC441*	956689	O'Brien	unknown
FTC11847	FTA18022*	FTA18022*	IN101228	O'Brien	USA
	FTA17952	FTA17952*	467583	O'Brien	USA
		FTA17952*	B1324	O'Brien	USA
		FTA17952*	933852	?	unknown
DC13*	DC13*	DC13*	293338	Hogan	unknown
FT411819	FT401395*	FT401395*	IN54774	O'Brien	Ireland
	FT401395*	FT401395*	938272	O'Brien	Ireland
DC1220*	DC1220*	DC1220*	IN85607	O'Brien	Ireland
DC1220*	DC1220*	DC1220*	B240961	O'Brien	Ireland
DC1220*	DC1220*	DC1220*	IN73006	O'Brien	unknown
FT195365 (Timothy O' Brien 1775)	FT196601	FT196383*	935473	O'Brien	Ireland
		FT196383*	58280	O'Brien	Ireland
DC456*	DC456*	DC456*	228072	Whitney	unknown
Michael O'Brien c. 1800, Graiguenama nagh, Kilconnor	DC454	DC453*	B224950	O'Brien	Ireland
		DC453*	548647	O'Brien	Ireland
		DC454*	963089	Bryan	Ireland
		DC454*	206478	O'Brien	USA
FT306078	FT446455	FT306078*	95292	O'Briant	Ireland
		FT306078*	206478	O'Brien	USA
FT120209*	FT120209*	FT120209*	?	?	Ireland
FT120209*	FT120209*	FT120209*	?	?	Ireland
DC344*	DC344*	DC344*	749559	Morris	Ireland
DC344*	DC344*	DC344*	259847	O'Brien	Ireland
FT80848	Y132949	DC310*	IN32215	Brien	Ireland
		DC310*	B96372	Brien	Ireland
		FTB68795	N142662	Brien	Ireland
		FTB68795	SI12632	Brien	Ireland
		FTB68795	IN73613	Brien	Ireland
DC308	DC309	FGC13418*	29355	O'Brien	Ireland
		FGC13418*	?	?	Ireland
FT197894 Michael Morrissey	FT198003	DC311*	338843	Morrissey	Ireland
		DC311*	MK43541	Morrissey	Ireland
	BY5212*	BY5212*	74637	O'Brien	Ireland
	BY5212*	BY5212*	313937	O'Day	Ireland
	BY5212*	BY5212*	MK37301	O'Brien	Ireland

O'Brien sept
(chief of
Thomond)

Patrick O'Brien, b 1802, Bushkill	BY5212*	BY5212*	MK37299	O'Brien	Ireland
	BY5212*	BY5212*	B288126	O'Brien	Ireland
	BY5212*	BY5212*	363020	O'Dea	Ireland
DC1542	DC1542*	DC1542*	IN11528	O'Dea	Ireland
	DC1542*	DC1542*	IN33914	O'Dea	Ireland
DC863	DC864	DC863*	IN105501	O'Brien	Ireland
		DC863*	IN49258	O'Brien	Ireland
		DC863*	62268	O'Brien	Ireland
		DC863*	606858	O'Brien	Ireland
		DC863*	822032	O'Brien	Ireland
		DC863*	B234890	O'Brien	Ireland
Y39134 William O'Brien, c1800-1869, Rath, Abington, Co Limerick		Y44000*	45897	O'Brien	Ireland
		Y44000*	MK43540	O'Brien	Ireland
		Y44000*	?	?	Ireland
	FT96594	FT96594*	107307	O'Brien	Ireland
		FT96594*	48596	O'Brien	Ireland
DC288*	DC288*	DC288*	164407	Fitzgerald	Ireland
DC288*	DC288*	DC288*	448840	Fitzgerald	Ireland
DC288*	DC288*	DC288*	B394590	Fitzgerald	Ireland
FTA15100*	FTA15100*	FTA15100*	437810	Stack	Ireland
FTA15100*	FTA15100*	FTA15100*	IN100957	Stack	Ireland
DC966*	DC966*	DC966*	416203	O'Brien	Ireland
BY184691*	BY184691*	BY184691*	B57645	Davis	unknown
BY184691*	BY184691*	BY184691*	IN45880	?	unknown
FGC5647*	FGC5647*	FGC5647*	B3986	Kersey	USA
FGC5647*	FGC5647*	FGC5647*	B89528	Casey	USA
FGC5639*	FGC5639*	FGC5639*	77349	Casey	USA
FGC5639*	FGC5639*	FGC5639*	539983	Casey	Ireland
FGC5639*	FGC5639*	FGC5639*	51924	Casey	Ireland
FGC5639*	FGC5639*	FGC5639*	844322	Casey	unknown
FGC5639*	FGC5639*	FGC5639*	920824	Casey	unknown
DC290	DC290*	DC290*	176989	O'Brien	Ireland
	DC290*	DC290*	665725	<i>adopted</i>	USA
FT101316*	FT101316*	FT101316*	B450956	Carey	England
BY216498	BY216498*	BY216498*	298743	Carey	USA
	BY216498*	BY216498*	960448	Cary	unknown
DC709*	DC709*	DC709*	46800	Wilder	unknown
DC709*	DC709*	DC709*	?	?	unknown
FT132007	FT41370	FT130422*	?	?	unknown
		FT130422*	?	?	unknown
DC777	DC778	FT126220*	B162155	Kennedy	Ireland
		FT126220*	688850	Kennedy	Ireland
DC1544*	DC1544*	DC1544*	492677	Kennedy	Scotland
DC1544*	DC1544*	DC1544*	438505	Kennedy	unknown

<i>FT382449*</i>	<i>FT382449*</i>	<i>FT382449*</i>	N15794	Turney	USA	Kennedy sept
<i>FT382449*</i>	<i>FT382449*</i>	<i>FT382449*</i>	?	?	unknown	
DC951	BY148180	<i>DC951*</i>	405921	Kennedy	Ireland	
		<i>DC951*</i>	422354	Kennedy	Ireland	
<i>DC815*</i>	<i>DC815*</i>	<i>DC815*</i>	B662648	Kennedy	Ireland	
FT427842	Y6869	<i>FT375402*</i>	B317459	Kennedy	Ireland	
		<i>FT375402*</i>	740921	Kennedy	Ireland	
FTA41077	<i>FTA41077*</i>	<i>FTA41077*</i>	302019	Kennedy	Ireland	
	<i>FTA41077*</i>	<i>FTA41077*</i>	IN105345	Kennedy	Ireland	
	<i>FTA41077*</i>	<i>FTA41077*</i>	850601	O'Brien	Ireland	
<i>DC818*</i>	<i>DC818*</i>	<i>DC818*</i>	344136	Kennedy	Ireland	
<i>DC818*</i>	<i>DC818*</i>	<i>DC818*</i>	IN26076	Kennedy	Ireland	
<i>DC818*</i>	<i>DC818*</i>	<i>DC818*</i>	728240	Kennedy	unknown	
<i>DC818*</i>	<i>DC818*</i>	<i>DC818*</i>	?	?	unknown	
<i>FT8890*</i>	<i>FT8890*</i>	<i>FT8890*</i>	948064	Hern	USA	Ahern sept
<i>FT8466*</i>	<i>FT8466*</i>	<i>FT8466*</i>	537546	Ahearn	Ireland	
<i>FT8466*</i>	<i>FT8466*</i>	<i>FT8466*</i>	878206	Ahern	Ireland	
<i>DC39*</i>	<i>DC39*</i>	<i>DC39*</i>	329000	O'Brien	Ireland	
<i>DC39*</i>	<i>DC39*</i>	<i>DC39*</i>	MK44600	Ahern	Ireland	
<i>DC39*</i>	<i>DC39*</i>	<i>DC39*</i>	B3470	Ahern	Ireland	
<i>DC39*</i>	<i>DC39*</i>	<i>DC39*</i>	903414	Yardley	England	
	<i>DC46*</i>	<i>DC46*</i>	MK31083	Colegrove	Wales	
DC47	<i>DC47*</i>	<i>DC47*</i>			England	
	<i>DC47*</i>	<i>DC47*</i>	138720	Brown	unknown	
	<i>DC47*</i>	<i>DC47*</i>	286386	Brown	unknown	
	<i>DC47*</i>	<i>DC47*</i>	111836	Peevy	unknown	
<i>PH184*</i>	<i>PH184*</i>	<i>PH184*</i>	75766	Shanahan	Ireland	
<i>DC1341*</i>	<i>DC1341*</i>	<i>DC1341*</i>	286797	Hogan	Ireland	
<i>DC1338*</i>	<i>DC1338*</i>	<i>DC1338*</i>	N49530	Hogan	Ireland	
<i>DC1338*</i>	<i>DC1338*</i>	<i>DC1338*</i>	221344	Hogan	Ireland	
<i>DC1338*</i>	<i>DC1338*</i>	<i>DC1338*</i>	MK41452	Clancy	Ireland	
<i>FTA78235*</i>	<i>FTA78235*</i>	<i>FTA78235*</i>	251225	Hogan	Ireland	
<i>FTA78235*</i>	<i>FTA78235*</i>	<i>FTA78235*</i>	525179	Hogan	USA	
<i>FTA78235*</i>	<i>FTA78235*</i>	<i>FTA78235*</i>	296319	Brown	unknown	
	<i>FT116656*</i>	<i>FT116656*</i>	IN95441	Armstrong	Ireland	
FT115833 (John Hogan b. 1820)	FT119609	<i>FT117936*</i>	MK74076	Hogan	Ireland	
		<i>FT117936*</i>	479807	Hogan	Ireland	
	<i>DC877*</i>	<i>DC877*</i>	634478	Luttrell	Ireland	
	<i>DC877*</i>	<i>DC877*</i>	527261	Rowland	Ireland	
	<i>DC877*</i>	<i>DC877*</i>	58423	Littrell	USA	
	<i>DC877*</i>	<i>DC877*</i>	863113	Cummyne	USA	
	<i>DC877*</i>	<i>DC877*</i>	451135	Littrell	unknown	
	<i>DC877*</i>	<i>DC877*</i>	892884	Luttrell	unknown	
	<i>DC877*</i>	<i>DC877*</i>	825140	Ford	unknown	

	<i>DC877*</i>	<i>DC877*</i>	?	?	unknown	
FTB51718	FTB51310	FTB51718*	944898	Corum	USA	
		FTB51718*	968936	Corum	unknown	
<i>FGC5659*</i>	<i>FGC5659*</i>	<i>FGC5659*</i>	510955	McMahon	Ireland	
<i>FGC5659*</i>	<i>FGC5659*</i>	<i>FGC5659*</i>	397892	Kennedy	Ireland	
<i>FGC5659*</i>	<i>FGC5659*</i>	<i>FGC5659*</i>	152324	Collins	Ireland	
<i>FGC5659*</i>	<i>FGC5659*</i>	<i>FGC5659*</i>	IN39547	Keane	Ireland	
<i>FGC5659*</i>	<i>FGC5659*</i>	<i>FGC5659*</i>	156620	Kennedy	Ireland	
<i>FGC5659*</i>	<i>FGC5659*</i>	<i>FGC5659*</i>	745552	McNamara	Ireland	
<i>FGC5659*</i>	<i>FGC5659*</i>	<i>FGC5659*</i>	315758	Cary	Ireland	
<i>FGC5659*</i>	<i>FGC5659*</i>	<i>FGC5659*</i>	?	?	Ireland	
<i>FGC5659*</i>	<i>FGC5659*</i>	<i>FGC5659*</i>	428194	FitzGerald	Canada	
<i>FGC5659*</i>	<i>FGC5659*</i>	<i>FGC5659*</i>	502654	Quinn	USA	
<i>FGC5659*</i>	<i>FGC5659*</i>	<i>FGC5659*</i>	B48548	Kennedy	unknown	
<i>DC209*</i>	<i>DC209*</i>	<i>DC209*</i>	B90761	Hallinan	Ireland	
<i>DC21*</i>	<i>DC21*</i>	<i>DC21*</i>	N97658	Riel	Ireland	
<i>DC21*</i>	<i>DC21*</i>	<i>DC21*</i>	?	?	unknown	
<i>BY4103*</i>	<i>BY4103*</i>	<i>BY4103*</i>	935056	Hart	Ireland	
<i>BY4103*</i>	<i>BY4103*</i>	<i>BY4103*</i>	864039	Topel	USA	
<i>BY4103*</i>	<i>BY4103*</i>	<i>BY4103*</i>	917018	<i>Collins</i>	unknown	
<i>DC414*</i>	<i>DC414*</i>	<i>DC414*</i>	514225	Phelan	Ireland	
FT34913	FT35394	<i>FT34000*</i>	?	?	Ireland	
		<i>FT34000*</i>	884505	<i>Kennelly</i>	unknown	
Y151676 Andrew Kelly b. 1705	<i>DC918*</i>	<i>DC918*</i>	152125	Kelly	Ireland	
	<i>DC918*</i>	<i>DC918*</i>	IN15776	Kelly	Ireland	
<i>DC274*</i>	<i>DC274*</i>	<i>DC274*</i>	294619	Gibson	Ireland	
<i>DC274*</i>	<i>DC274*</i>	<i>DC274*</i>	?	?	Ireland	
DC1072	FGC59021	<i>DC1067*</i>	B262377	Kirrane	Ireland	
		<i>DC1067*</i>	B403588	Spellissy	Ireland	
		<i>DC269*</i>	293008	McMahon	Ireland	
<i>FT352178*</i>	<i>FT352178*</i>	<i>FT352178*</i>	?	?	Ireland	
<i>FT100291*</i>	<i>FT100291*</i>	<i>FT100291*</i>	930638	Lynch	Ireland	
<i>FT100291*</i>	<i>FT100291*</i>	<i>FT100291*</i>	311627	Lynch	Ireland	
	<i>DC908*</i>	<i>DC908*</i>	230106	Lynch/Lindsey	Ireland	Lynch / Lindsey sept
	<i>DC908*</i>	<i>DC908*</i>	905971	Lindsey	Ireland	
	<i>DC908*</i>	<i>DC908*</i>	917253	Lynch/Lindsey	USA	
<i>DC909*</i>	<i>DC909*</i>	<i>DC909*</i>	?	?	unknown	
	DC1388	<i>DC1388*</i>	764773	Lynch/Lindsey	Ireland	
		<i>DC1388*</i>	B233196	Lynch/Lindsey	Ireland	
		<i>DC41*</i>	84813	O'Kelly	Ireland	
<i>FT36754*</i>	<i>FT36754*</i>	<i>FT36754*</i>	703605	Kelly	Ireland	
FTA48363	FTA48364	<i>FT1955*</i>	IN83836	O'Kelly	Ireland	
		<i>FT1955*</i>	?	?	unknown	
<i>FT124212</i>	<i>FT124460</i>	<i>DC278*</i>	IN97034	Kelly	Ireland	

FT124212	FT124409	DC278*	313502	O'Kelly	unknown
		DC313*	B58927	Carroll	Ireland
		DC313*	29530	Doolin	Ireland
		DC313*	261286	Quinn	Ireland
		DC313*	277239	Hannon	Ireland
		DC313*	?	?	Ireland
		DC313*	675781	Bridges	Canada
FT169142*	FT169142*	FT169142*	623973	West	Ireland
		DC15*	IN71845	Anderson	Ireland
		DC15*	B199399	Anderson	Ireland
DC14	ZS11729	DC14*	IN78310	Anderson	Ireland
		DC14*	16274	Anderson	Ireland
FT14526*	FT14526*	FT14526*	IN97557	Finnane	Ireland
FT106631*	FT106631*	FT106631*	N129502	Morris	USA
FT106631*	FT106631*	FT106631*	869391	Morris	USA
FT106631*	FT106631*	FT106631*	B171927	Morris	USA
FTB46362	FTA89106*	FTA89106*	956680	O'Brien	Ireland
	FTA89106*	FTA89106*	247288	O'Brien	Ireland
BY178658	MF287*	MF287*	B411704	Flannigan	Ireland
	MF287*	MF287*	774244	Flanagan	Ireland
FT14460*	FT14460*	FT14460*	15818	Townsend	UK
FT14460*	FT14460*	FT14460*	600572	McNamara	Australia
DC901*	DC901*	DC901*	308215	Franklin	Ireland
DC901*	DC901*	DC901*	?	?	USA
	DC900	DC900*	324403	Roach	USA
		DC900*	804475	Roach	unknown
FGC5628*	FGC5628*	FGC5628*	21421	O'Bresnahan	Ireland
FGC5628*	FGC5628*	FGC5628*	216044	O'Brien	Ireland
FGC5628*	FGC5628*	FGC5628*	128341	Hogan	Ireland
FGC5628*	FGC5628*	FGC5628*	723999	Halleran	Ireland
FGC5628*	FGC5628*	FGC5628*	IN35394	Carroll	Ireland
FGC5628*	FGC5628*	FGC5628*	?	?	Ireland
FGC5628*	FGC5628*	FGC5628*	?	?	UK
FGC5628*	FGC5628*	FGC5628*	302523	McGuire	unknown
FGC5628*	FGC5628*	FGC5628*	316035	Brown	unknown
FGC5628*	FGC5628*	FGC5628*	247861	Brown	unknown
FGC5628*	FGC5628*	FGC5628*	179495	Huggins	unknown
		DC50*	B3520	Casey	Ireland
		DC50*	815930	McCormack	Ireland
		DC50*	163350	Tracy	England
FT337492	DC233*	DC233*	159748	Byrne	USA
	DC233*	DC233*	306374	Byrne	unknown
BY122665*	BY122665*	BY122665*	847470	NPE	USA
BY122665*	BY122665*	BY122665*	326658	Johnson	unknown

DC245*	DC245*	DC245*	865684	Cain	Ireland
DC245*	DC245*	DC245*	266222	Lynch	Ireland
DC1175*	DC1175*	DC1175*	93744	Edenfield	England
Y50070	FT215918*	FT215918*	497706	Tracy	Ireland
	FT215918*	FT215918*	?	?	unknown
FT55157	FTC29089	DC246*	293836	Lynch	Ireland
		DC246*	899736	Lynch	Ireland
		DC246*	155896	Bryan	unknown
		DC246*	N35262	Lynch	unknown
		DC246*	?	?	unknown
FT190845	Y48957	DC55*	61777	Noland	Ireland
		DC55*	590849	Noland	USA
		FT190925	910603	Noland	Ireland
		FT190925	B585115	Noland	Ireland
		Z16855	?	?	France
		Z16855	360774	Noland	USA
		Z16855	?	?	unknown
DC40*	DC40*	DC40*	877124	Barry	Ireland
DC40*	DC40*	DC40*	B1778	Rathkeale	Ireland
DC40*	DC40*	DC40*	?	?	Ireland
DC40*	DC40*	DC40*	IN80593	Hicky	unknown
DC40*	DC40*	DC40*	B733022	Miles	unknown
DC261*	DC261*	DC261*	?	?	Ireland
DC261*	DC261*	DC261*	217593	Bergesen	unknown
FT62906*	FT62906*	FT62906*	IN38800	Rogers	Ireland
FT159792*	FT159792*	FT159792*	H1174	FitzPatrick	Ireland
FT159792*	FT159792*	FT159792*	911728	FitzPatrick	unknown
FT244455*	FT244455*	FT244455*	899777	Hawes	USA
FT242218*	FT242218*	FT242218*	188247	O'Malley	Ireland
FT242218*	FT242218*	FT242218*	IN87577	Malley	Ireland
BY193041*	BY193041*	BY193041*	IN98637	Cannon	Ireland
BY193041*	BY193041*	BY193041*	682483	Cannon	Ireland
BY193041*	BY193041*	BY193041*	MK73567	Cannon	Ireland
A6097*	A6097*	A6097*	N13807	Cannon	Ireland
		DC684*	N54074	Cannon	Ireland
DC766*	DC766*	DC766*	444016	Cannon	Ireland
DC766*	DC766*	DC766*	158322	Gibbs	unknown
DC936*	DC936*	DC936*	N252837	Doordan	Ireland
DC936*	DC936*	DC936*	650541	Wilson	unknown
DC940*	DC940*	DC940*	53526	Kennedy	Ireland
DC940*	DC940*	DC940*	N87250	Kennedy	Ireland
ZZ31_1*	ZZ31_1*	ZZ31_1*	265790	Dooley	Ireland
ZZ31_1*	ZZ31_1*	ZZ31_1*	476569	Donoughae	Ireland
ZZ31_1*	ZZ31_1*	ZZ31_1*	406530	Connery	Ireland

<i>FT199569*</i>	<i>FT199569*</i>	<i>FT199569*</i>	B155254	Hogan	Ireland
<i>FT199569*</i>	<i>FT199569*</i>	<i>FT199569*</i>	541630	Doolan	Ireland
<i>DC194*</i>	<i>DC194*</i>	<i>DC194*</i>	314215	Toohy	Ireland
<i>DC194*</i>	<i>DC194*</i>	<i>DC194*</i>	767773	Harden	unknown
<i>BY182258*</i>	<i>BY182258*</i>	<i>BY182258*</i>	N25784	Rines	Ireland
<i>BY182258*</i>	<i>BY182258*</i>	<i>BY182258*</i>	964648	Carey	Ireland
FTA84297	FTA85320	<i>FTA80958*</i>	952541	O'Malley	Ireland
		<i>FTA80958*</i>	N108821	O'Malley	Ireland
<i>DC392*</i>	<i>DC392*</i>	<i>DC392*</i>	956100	Towle	Ireland
<i>DC392*</i>	<i>DC392*</i>	<i>DC392*</i>	547781	Tuohey	Ireland
	<i>FT212775*</i>	<i>FT212775*</i>	H2174	FiztPatrick	Ireland
FT71180	<i>FT71180*</i>	<i>FT71180*</i>	278471	FiztPatrick	Ireland
	<i>FT71180*</i>	<i>FT71180*</i>	H2238	FiztPatrick	Ireland
<i>DC464*</i>	<i>DC464*</i>	<i>DC464*</i>	284819	Callaghan	Ireland
<i>DC464*</i>	<i>DC464*</i>	<i>DC464*</i>	82328	Brown	unknown
<i>DC464*</i>	<i>DC464*</i>	<i>DC464*</i>	?	?	unknown
	<i>DC717*</i>	<i>DC717*</i>	170625	Callaghan	Ireland
FT16699	FT17290	<i>FT21931*</i>	B327581	Callahan	Ireland
		<i>FT21931*</i>	223156	Callahan	Ireland
<i>DC1316*</i>	<i>DC1316*</i>	<i>DC1316*</i>	N219216	Donohoe	Ireland
<i>DC1316*</i>	<i>DC1316*</i>	<i>DC1316*</i>	213742	Donoghue	Ireland
<i>DC1316*</i>	<i>DC1316*</i>	<i>DC1316*</i>	?	?	unknown
<i>DC199*</i>	<i>DC199*</i>	<i>DC199*</i>	488753	McDonough	Ireland
<i>DC199*</i>	<i>DC199*</i>	<i>DC199*</i>	MI57287	Carroll	Ireland
<i>DC199*</i>	<i>DC199*</i>	<i>DC199*</i>	?	?	Ireland
	<i>DC198*</i>	<i>DC198*</i>	184165	O'Mahony	Ireland
	<i>DC198*</i>	<i>DC198*</i>	683317	Mahony	Ireland
FT387831	<i>DC200*</i>	<i>DC200*</i>	191654	O'Mahony	Ireland
	<i>DC200*</i>	<i>DC200*</i>	156885	Mahony	Ireland
		<i>FGC12295*</i>	180168	Bray	Ireland
		<i>FGC12295*</i>	915503	Bray	unknown
<i>DC435*</i>	<i>DC435*</i>	<i>DC435*</i>	930443	O'Brien	Ireland
<i>DC435*</i>	<i>DC435*</i>	<i>DC435*</i>	322820	O'Bryan	Ireland
<i>DC435*</i>	<i>DC435*</i>	<i>DC435*</i>	866685	McVay	unknown
<i>ACT3399*</i>	<i>ACT3399*</i>	<i>ACT3399*</i>	IN26037	O'Brien	Ireland
DC998	DC999	<i>DC997*</i>	856410	Roberts	unknown
		<i>DC997*</i>	919229	Roberts	unknown
DC1439 John O'Brien, 1800-1856, Ballyporeen, Tipperary		<i>DC437*</i>	AM30369	O'Brien	Ireland
	BY220984	DC438	690059	O'Brien	Ireland
			631722	O'Brien	Ireland
			114201	O'Brien	Ireland
<i>FGC12290*</i>	<i>FGC12290*</i>	<i>FGC12290*</i>	310239	Phelan	Ireland
<i>FGC12302*</i>	<i>FGC12302*</i>	<i>FGC12302*</i>	?	?	England
<i>DC205*</i>	<i>DC205*</i>	<i>DC205*</i>	335295	McGrath	Ireland

<i>DC205*</i>	<i>DC205*</i>	<i>DC205*</i>	365751	<i>Marostica</i>	unknown	MacCraith sept of Thomond, court poets / historians
<i>DC201*</i>	<i>DC201*</i>	<i>DC201*</i>	178183	McGraugh	Ireland	
<i>DC201*</i>	<i>DC201*</i>	<i>DC201*</i>	627615	McGrath	Ireland	
<i>DC201*</i>	<i>DC201*</i>	<i>DC201*</i>	?	?	Ireland	
<i>DC866*</i>	<i>DC866*</i>	<i>DC866*</i>	172693	Jones	USA	
<i>DC866*</i>	<i>DC866*</i>	<i>DC866*</i>	475581	Jones	unknown	
<i>DC866*</i>	<i>DC866*</i>	<i>DC866*</i>	?	?	unknown	
<i>DC868*</i>	<i>DC868*</i>	<i>DC868*</i>	791797	Jones	Wales	
		FT14913	824623	Jones	USA	
			N119685	Jones	USA	
		<i>DC360*</i>	69433	MacCraw	Scotland	
		<i>DC360*</i>	882361	Gray	unknown	
		<i>DC360*</i>	?	?	unknown	
FT100328	FT102973	FT102714	349546	MacCraw	Scotland	
			948474	McCraw	Scotland	
FT50075	<i>FT50075*</i>	<i>FT50075*</i>	917679	MacCraw	unknown	
	<i>FT50075*</i>	<i>FT50075*</i>	917679	McGraw	unknown	
		<i>FGC12296*</i>	N124930	Hogan	Ireland	
		<i>FGC12296*</i>	33966	Pepper	Ireland	
		<i>FGC12296*</i>	394922	<i>Thomas</i>	unknown	
		<i>FGC12296*</i>	136254	<i>Thomas</i>	unknown	
		<i>FGC12296*</i>	443194	Musgrove	unknown	
		<i>FGC12296*</i>	161988	Green	unknown	
<i>FT308208*</i>	<i>FT308208*</i>	<i>FT308208*</i>	917525	Pate	Ireland	
FTB50713	FTA55090*	FTA55090*	950540	Lindsey	USA	
	FTA55090*	FTA55090*	962336	<i>Lindsay</i>	USA	
	FTA55090*	FTA55090*	?	?	unknown	
	<i>FGC12289*</i>	<i>FGC12289*</i>	B173234	Green	Ireland	
FGC12300	FGC12301	<i>FGC12293*</i>	25505	Wright	Ireland	
		<i>FGC12293*</i>	124291	Wright	Ireland	
		<i>FGC12293*</i>	754191	<i>Wright</i>	unknown	
<i>DC9*</i>	<i>DC9*</i>	<i>DC9*</i>	436834	McCormack	Ireland	
<i>DC9*</i>	<i>DC9*</i>	<i>DC9*</i>	?	?	Ireland	
<i>DC9*</i>	<i>DC9*</i>	<i>DC9*</i>	?	?	unknown	
<i>DC9*</i>	<i>DC9*</i>	<i>DC9*</i>	?	?	unknown	
<i>DC1165*</i>	<i>DC1165*</i>	<i>DC1165*</i>	172840	<i>Farrell</i>	Ireland	
<i>DC135*</i>	<i>DC135*</i>	<i>DC135*</i>	254182	O'Dea	Ireland	
<i>DC135*</i>	<i>DC135*</i>	<i>DC135*</i>	344153	O'Dea	Ireland	
<i>DC135*</i>	<i>DC135*</i>	<i>DC135*</i>	840385	O'Dea	Ireland	
<i>DC135*</i>	<i>DC135*</i>	<i>DC135*</i>	810625	O'Dea	Ireland	
<i>DC135*</i>	<i>DC135*</i>	<i>DC135*</i>	724475	FitzGerald	Ireland	
<i>DC135*</i>	<i>DC135*</i>	<i>DC135*</i>	?	?	Ireland	
<i>DC135*</i>	<i>DC135*</i>	<i>DC135*</i>	201294	Crow	Ireland	
<i>FT223736*</i>	<i>FT223736*</i>	<i>FT223736*</i>	590134	O'Malley	Ireland	

<i>FTB65001*</i>	<i>FTB65001*</i>	<i>FTB65001*</i>	185202	McMahan	Ireland
<i>FTB65001*</i>	<i>FTB65001*</i>	<i>FTB65001*</i>	883605	McMahan	USA
MF49884	YP5024	<i>FTA56415*</i>	963420	Doyle	Ireland
		<i>FTA56415*</i>	879193	Davis	USA
<i>FT248413*</i>	<i>FT248413*</i>	<i>FT248413*</i>	B1121	McCoy	Ireland
<i>FT248413*</i>	<i>FT248413*</i>	<i>FT248413*</i>	150110	Coy	Ireland
<i>DC134*</i>	<i>DC134*</i>	<i>DC134*</i>	590074	Crowe	Ireland
<i>DC134*</i>	<i>DC134*</i>	<i>DC134*</i>	97850	Neel	Ireland
<i>DC134*</i>	<i>DC134*</i>	<i>DC134*</i>	260936	Martin	Ireland
<i>DC134*</i>	<i>DC134*</i>	<i>DC134*</i>	547368	O'Brien	Ireland
<i>DC134*</i>	<i>DC134*</i>	<i>DC134*</i>	?	?	Ireland
<i>DC134*</i>	<i>DC134*</i>	<i>DC134*</i>	5822	Blair	unknown
<i>FT153635*</i>	<i>FT153635*</i>	<i>FT153635*</i>	916125	Crowe	Ireland
DC434	DC507	<i>DC430*</i>	7624	Crow	Ireland
		<i>DC430*</i>	B107494	Crow	USA
<i>DC373*</i>	<i>DC373*</i>	<i>DC373*</i>	N112917	Croak	Ireland
<i>DC373*</i>	<i>DC373*</i>	<i>DC373*</i>	5318	Sheffield	UK
		<i>FTB68796*</i>	IN93658	Crowe	Ireland
		<i>FTB68796*</i>	?	?	unknown
FT65156	<i>FT65411*</i>	<i>FT65411*</i>	IN45915	Crowe	Ireland
	<i>FT65411*</i>	<i>FT65411*</i>	780942	Crowe	Ireland
<i>DC728*</i>	<i>DC728*</i>	<i>DC728*</i>	286559	Fogerty	Ireland
<i>DC728*</i>	<i>DC728*</i>	<i>DC728*</i>	B160740	Montgomery	Canada
<i>FT410393*</i>	<i>FT410393*</i>	<i>FT410393*</i>	72419	McIntyre	Scotland
<i>FT410393*</i>	<i>FT410393*</i>	<i>FT410393*</i>	484435	McIntyre	Scotland
<i>FT410393*</i>	<i>FT410393*</i>	<i>FT410393*</i>	B573488	McIntire	Scotland
<i>FT410393*</i>	<i>FT410393*</i>	<i>FT410393*</i>	?	?	unknown
<i>DC993*</i>	<i>DC993*</i>	<i>DC993*</i>	547437	Galvin	Ireland
<i>DC993*</i>	<i>DC993*</i>	<i>DC993*</i>	640312	Griffin	Ireland
<i>DC993*</i>	<i>DC993*</i>	<i>DC993*</i>	N122123	<i>Kirby</i>	unknown
<i>DC812*</i>	<i>DC812*</i>	<i>DC812*</i>	593136	Connyll	Ireland
FT78537	FT80207	<i>FT78783*</i>	B225296	McCarthy	Ireland
		<i>FT78783*</i>	531687	McCarthy	Ireland
		<i>DC105*</i>	B717734	O'Brien	Ireland
		<i>DC105*</i>	332050	O'Brien	Ireland
DC850	FT459181	<i>DC851*</i>	325051	Larkin	Ireland
		<i>DC851*</i>	132038	Larkin	Ireland
<i>DC889*</i>	<i>DC889*</i>	<i>DC889*</i>	N123888	Welch	USA
<i>BY199154*</i>	<i>BY199154*</i>	<i>BY199154*</i>	?	?	Ireland
Y66739	<i>BY200749*</i>	<i>BY200749*</i>	82280	Burgess	UK
	<i>BY200749*</i>	<i>BY200749*</i>	?	?	India
DC95	<i>DC658*</i>	<i>DC658*</i>	909900	Grattan	Ireland
	<i>DC658*</i>	<i>DC658*</i>	370197	<i>Grattan</i>	unknown
<i>FT228042*</i>	<i>FT228042*</i>	<i>FT228042*</i>	878164	Cain	Ireland

Crowe (Mac
Enchroe)
sept

FT228042*	FT228042*	595606	Caine	USA	
DC514*	DC514*	B244661	Keane	Ireland	
DC649	DC516*	466941	Keane	Ireland	
		DC25*	823394	O'Brien	Ireland
		DC25*	?	?	unknown
DC329*	DC329*	B80421	Lyddy	Ireland	
DC329*	DC329*	N231440	Brennan	Ireland	
DC329*	DC329*	106428	Knox	Scotland	
DC26*	DC26*	N59474	Daly	Ireland	
DC26*	DC26*	N56434	Reilly	Ireland	
DC26*	DC26*	940222	Coleman	Ireland	
DC26*	DC26*	?	?	Ireland	
DC158*	DC158*	B248922	Ryder	Ireland	
DC158*	DC158*	169471	Bryan	unknown	
FT59729	BY62163*	BY62163*	B489634	Larkin	Ireland
	BY62163*	BY62163*	?	?	Ireland
DC447*	DC447*	DC447*	410392	Dwyer	Ireland
DC447*	DC447*	DC447*	?	?	Ireland
DC63*	DC63*	DC63*	541312	Curtis	Ireland
DC63*	DC63*	DC63*	485164	Farrell	Ireland
DC63*	DC63*	DC63*	112586	Hart	Ireland
DC63*	DC63*	DC63*	799267	Coleman	Ireland
DC63*	DC63*	DC63*	503330	Kelly	USA
DC63*	DC63*	DC63*	?	?	unknown
DC63*	DC63*	DC63*	?	?	unknown
FT410068*	FT410068*	FT410068*	148239	O'Brien	Ireland
FT410068*	FT410068*	FT410068*	?	?	unknown
DC685*	DC685*	DC685*	734651	Frawley	Ireland
DC685*	DC685*	DC685*	791315	Spriggs	unknown
FT268263	FTC34149	FT266198*	61297	Hart	USA
		FT266198*	?	?	USA
DC120*	DC120*	DC120*	310809	Costello	Ireland
DC120*	DC120*	DC120*	B583678	Costello	Ireland
	FT123075*	FT123075*	932570	Costello	Canada
		FT123075*	393961	Costello	Canada
DC127*	DC127*	DC127*	406590	Cusack	Ireland
DC127*	DC127*	DC127*	160913	Cusack	Ireland
DC127*	DC127*	DC127*	MI15456	O'Brien	Ireland
DC127*	DC127*	DC127*	191141	Gleeson	Ireland
DC127*	DC127*	DC127*	?	?	unknown
DC125*	DC125*	DC125*	936824	Clune	Ireland
FT409398	FT409400	S24530*	268424	Trench	Ireland
		S24530*	184282	Trench	unknown
DC130*	DC130*	DC130*	?	?	unknown

FT383816	DC337*	DC337*	386442	Maloney	Ireland
	DC337*	DC337*	249892	Smith	unknown
DC1543*	DC1543*	DC1543*	910319	Moloney	Ireland
DC1543*	DC1543*	DC1543*	IN84852	Molony	Ireland
DC1543*	DC1543*	DC1543*	B207984	Doyle	Ireland
DC1543*	DC1543*	DC1543*	967527	O'Donnell	Ireland
DC1543*	DC1543*	DC1543*	B128523	Johnson	USA
BY4101*	BY4101*	DC29*	531130	Nealy	Ireland
BY4101*	BY4101*	DC29*	507968	McCann	Ireland
BY4101*	BY4101*	DC29*	270302	Cleary	Ireland
BY4101*	BY4101*	DC29*	55369	O'Halloran	Ireland
BY4101*	BY4101*	DC29*	570863	Hogan	Ireland
BY4101*	BY4101*	DC29*	343774	Cline	Ireland
BY4101*	BY4101*	DC29*	BP22427	Mooney	Ireland
BY4101*	BY4101*	DC29*	358035	O'Brien	Ireland
BY4101*	BY4101*	DC29*	259208	Hartigan	unknown
BY4101*	BY4101*	DC29*	B2461	James	unknown
BY4101*	BY4101*	DC29*	?	?	unknown
DC1378*	DC1378*	DC1378*	IN26385	Halloran	Ireland
DC1378*	DC1378*	DC1378*	MK62609	Murray	USA
DC631*	DC631*	DC631*	50373	O'Hehir	Ireland
DC631*	DC631*	DC631*	?	?	Ireland
DC631*	DC631*	DC631*	N19674	Hartigan	Canada
DC362*	DC362*	DC362*	162715	Hannon	Ireland
DC362*	DC362*	DC362*	B464825	Dailey	Ireland
DC362*	DC362*	DC362*	371078	Corry	Ireland
DC362*	DC362*	DC362*	?	?	Ireland
DC362*	DC362*	DC362*	700138	Maley	unknown
DC362*	DC362*	DC362*	?	?	unknown
DC168*	DC168*	DC168*	B205928	Griffin	Ireland
DC176	DC178	DC170*	93878	O'Loughlin	Ireland
		DC170*	?	?	unknown
DC741	DC742	DC735*	371630	O'Malley	Ireland
		DC735*	357319	O'Malley	Ireland
		DC735*	590133	O'Malley	Ireland
		DC735*	350664	Maley	Ireland
DC470*	DC470*	DC470*	B649729	Currie	Canada
DC1422*	DC1422*	DC1422*	N116962	Corry	Ireland
DC1422*	DC1422*	DC1422*	720203	James	England
	DC472*	DC472*	560167	Curry	Ireland
DC485	DC629	DC482*	422298	Curry	Ireland
		DC482*	IN44326	Curry	unknown
DC31*	DC31*	DC31*	260590	MacNamara	Ireland
DC31*	DC31*	DC31*	N117537	McInerney	Ireland

<i>DC31*</i>	<i>DC31*</i>	<i>DC31*</i>	596853	O'Halloran	Ireland
<i>DC31*</i>	<i>DC31*</i>	<i>DC31*</i>	?	?	USA
<i>DC31*</i>	<i>DC31*</i>	<i>DC31*</i>	275247	Savage	unknown
<i>DC406*</i>	<i>DC406*</i>	<i>DC651*</i>	N152879	Slattery	Ireland
FT374995	<i>FT374387*</i>	<i>FT374387*</i>	252019	Slater	Ireland
	<i>FT374387*</i>	<i>FT374387*</i>	B471655	Slater	USA
		<i>DC30*</i>	?	?	USA
<i>DC179*</i>	<i>DC179*</i>	<i>Y48268*</i>	125443	O'Neill	Ireland
<i>DC179*</i>	<i>DC179*</i>	<i>Y48268*</i>	793124	McNamara	Ireland
<i>DC189*</i>	<i>DC189*</i>	<i>DC189*</i>	194861	Small	Ireland
<i>DC189*</i>	<i>DC189*</i>	<i>DC189*</i>	593316	Gleason	Ireland
<i>DC189*</i>	<i>DC189*</i>	<i>DC189*</i>	754947	MacNamara	Ireland
<i>DC189*</i>	<i>DC189*</i>	<i>DC189*</i>	731877	McNamara	Ireland
<i>DC189*</i>	<i>DC189*</i>	<i>DC189*</i>	?	?	Ireland
<i>DC189*</i>	<i>DC189*</i>	<i>DC189*</i>	?	?	Ireland
		<i>DC191*</i>	464903	Bryan	Ireland
		<i>DC191*</i>	27143	Bryan	Ireland
		<i>DC191*</i>	270991	Bryan	Ireland
		<i>DC191*</i>	?	?	Ireland
		<i>DC191*</i>	?	?	Ireland
		<i>DC191*</i>	N104574	Davis	unknown
<i>FTA91181*</i>	<i>FTA91181*</i>	<i>FTA91181*</i>	964058	McNamara	Ireland
<i>FTA91181*</i>	<i>FTA91181*</i>	<i>FTA91181*</i>	B725687	McNamara	Ireland
DC369	<i>DC365*</i>	<i>DC365*</i>	B56983	Fitzgerald	Ireland
	<i>DC365*</i>	<i>DC365*</i>	?	?	Ireland
FT259649 Thomas	<i>DC340*</i>	<i>DC340*</i>	309786	McNamara	Ireland
	<i>DC340*</i>	<i>DC340*</i>	453608	McNamara	Ireland

MacNamara
(Mac
Conmara)
sept of
Thomond
(2nd
strongest)

Mutation Age Time	26	25	24	23	22
	325	390	455	520	585
			Y36593 (Loarn mac Eirc?)	BY28638	FT103902

Y140584

FTT7

						BY19882
					BY19878	BY19879

S7753 et al.
(15 SNPs)
260 AD

Y4142

Y8701 (Erc of
Dalriada, d.
474; 3 sons:
Fergus,
Loarn and
Oengus)

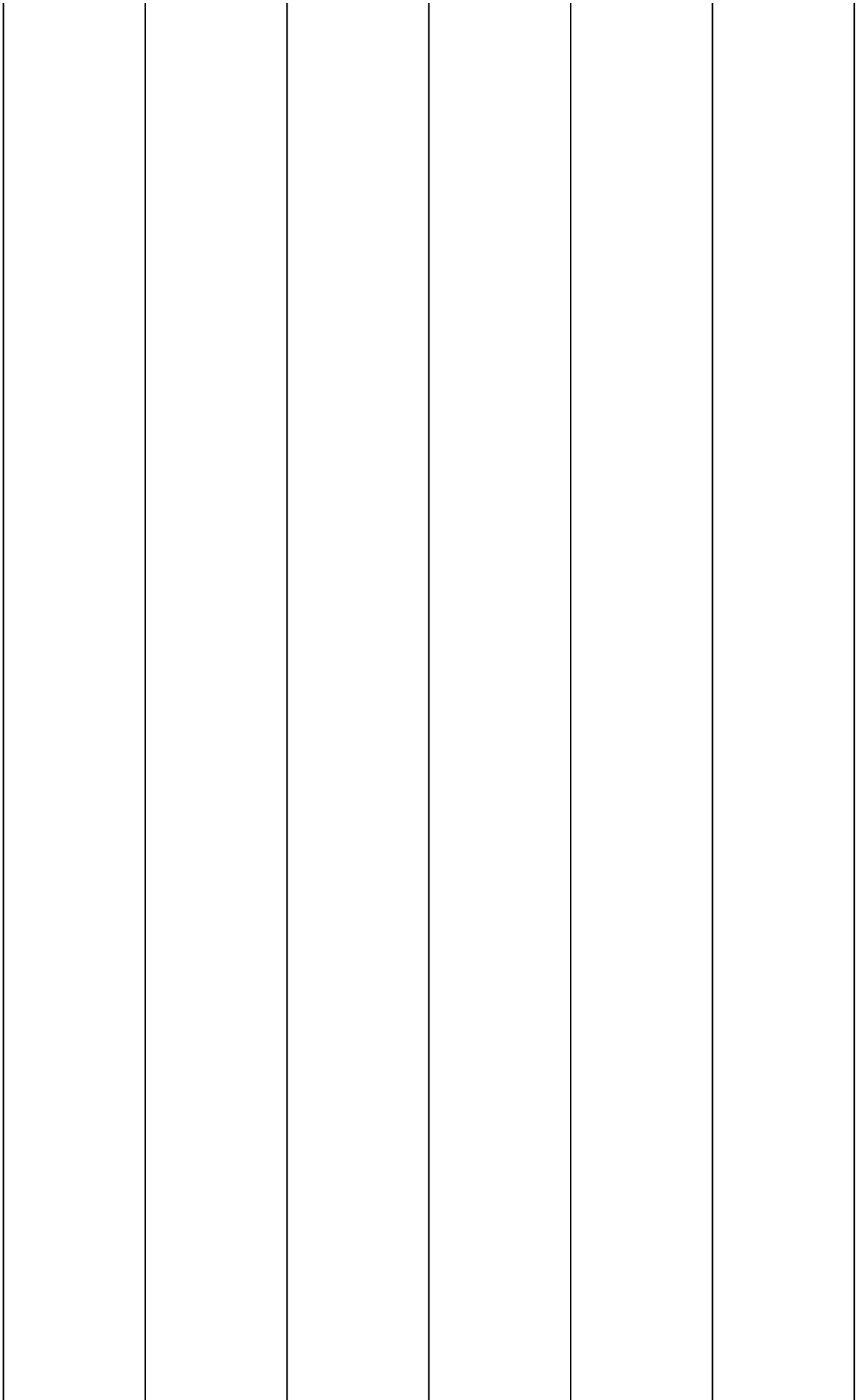
Y4751
(Fergus Mór,
430-501) 20
sons

Y19693

YP6208

Y4752 >
Y4753

Y4750



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21	20	19	18	17	16
650	715	780	845	910	975

Y23716

Y7196 (Óengus?)	Y7472	L361	Y7191
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				Y36593*	Y36593*
FT90245	FT90344	FT90574	Y36594		

FTA40085	FTA38972	FTA39039
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Y140585	BY54878				FT330900
		BY60810	BY144117	BY174761 > BY175053	FT2594 > FT2689
				FTA73391	BY95941

Y31615		BY48168		Y31616	FT427818
BY182595	BY182773	BY183455	BY183603	BY183692	

	Y72806	BY37543	FT418455	FT417267	FT417904
BY3611	FT442809	Y181914			
			Y63570	BY46872	FT150448
Y107226			FT446370	FT303354	BY60486
	FT4643	BY211000	FT150275	FT150276	FT150277

S24492	FT16077	FT16635	FT17586	Y139605	Y139607
					FTB96966
					BY19885

FT28718	FT92226	Y34393	BY19883	BY19884	(Labhradh or Etru mac Labhradh, chief of Monagh of Ulaid)
BY19880	BY19881	Y251807 > Y36135	FT91746	FT75627	FGC67659
			BY59204	ET57612	

			DT06294	FT07043	BY155320
			Y10655	BY19898	BY48498
		Y10657			FTB55114

BY99586	FT157182
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	BY3814	FT109715	FT111634	FT112409	FT278581
Y23144	BY19891	BY47664	BY82135	FT84491	FT85049

Z24428	FT14954	FT150294	FT17337	FT22983
	Y62974	FT165277	FT165265	FT165664

FT115204	FT150301	BY19909	BY19911	BY45733	FT112716 > FT114134

	BY3819	BY3820	BY3822	FT52196	Y22518

BY47292

Y11858

A7391

FT2503

FT2525

Y5673

				BY3818	Y151718
				FGC21575	BY45717
	Y8599	BY19892	FT14303 > FT14312	Y10704	Y11668

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15	14	13	12	11	10
1040	1105	1170	1235	1300	1365
FT202217	Y141897	Y61916	Y23716*	Y23716*	Y23716*
				Y70079	Y70079*
					Y70079*

Y7192	Y7195	Y7470	Y7471	Y7474	Y7475
Y36593*	Y36593*	Y36593*	Y36593*	Y36593*	Y36593*
		FT220078*	FT220078*	FT220078*	FT220078*

	FT220078	BY136377	FT220080	FT151543	Y181758
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FT90436	FT395553	FT395109	FT395514 (Sir Adam Perker 1255)	FT395809	FT396036
		BY3807	FT249107	FT249463	Y52716

				BY53709	BY101698
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Y4751*	Y4751*	Y4751*	Y4751*	Y4751*	Y4751*
Y4751*	Y4751*	Y4751*	Y4751*	Y4751*	Y4751*

FTA39603	FTA40679	FTA40736	FTA40921	FTA41523	FTA41755
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		FT12756	BY126379	FT13041	FT13277
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				Y100052	BY37547
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DV2000	DV10000	DV10000	DV10001	DV10002	DV10002
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DT1990	DT1999	DT19900	DT19901	DT19902	DT19903
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BY117881	BY128114	BY130720	BY62926	BY77073	BY96038
	BY37539	BY37539*	BY37539*	BY37539*	BY37539*
				BY37530	BY132347
	Y21729	FTA75920	Y21730	Y21731	Y21732

Y12715	Y12714	Y12716	Y12717	CTS10326 A17455	

FT97667 > FT97742	FT97770 > FT97805	FT97916 > FT97945	FT98019 > FT98261	FT98324	FT98334 > FT98337
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FT96174	BY222158	FT182791	FT96175	FT96935
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FT228503	FT228781
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FT350908*	FT350908*	FT350908*
FT350908*	FT350908*	FT350908*

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FT342728	FT341621	FT343893	BY185828	FT345137	FTA52805
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Y156372	Y39490	BY175167	BY175368	BY175129	BY175314

FTA73358	FTA73480	FTA73570	FTA73725	FTA73944	FTA74562
				Y31615*	Y31615*
			FT333432	FT334267	FT342193

Y92243	Y106424
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Y40418	FTB45604	Y38657	FT36397	Y42917	BY3809

FT64549	FT64707	FT65341	BY69496	FT64734	BY202118
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FT445944	FTC39745	Y63651	Y66155	Y68227	Y77865
		BY3101	BY202267	BY202298	BY204574
FT150552	Y181314	Y189240	Y65160	Y65986 > Y67864	Y63570*
					FT150388
		Y107226*	Y107226*	Y107226*	Y107226*
		Y107226*	Y107226*	Y107226*	Y107226*
				FT446370*	FT446370*
FT303646	FT305114	FT305746	FT306065	FT306316	FT306768
FT3556	FT4347	FT4762	FT4858	FT4949	FT5154
BY37532	A22955	BY37534	BY37536	BY37546	BY55805
Y139612*	Y139612*	Y139612*	Y139612*	Y139612*	Y139612*

Y139609	Y139611	Y139615	Y167050	Y168438	FT22831
FTB95611	FTB95716	FTB95776	FTB95859	FTB96124	FTB96224

FT28031	FT28471	FTA77472	BY19889	BY19890	
					FT209324

			Y39696	FTB50976	Y130813
<i>BY19878*</i>	<i>BY19878*</i>	<i>BY19878*</i>	<i>BY19878*</i>	<i>BY19878*</i>	<i>BY19878*</i>

FT250762	FT268628	FT268629	FT74476	FT76125	FT76156
		FT73077	BY218118	BY220034	FT67750
				<i>BY58294*</i>	<i>BY58294*</i>
				<i>BY58294*</i>	<i>BY58294*</i>
				<i>BY58294*</i>	<i>BY58294*</i>
		ETE7020	ETE7267	ETE7062	ETE9401

		FT57039	FT57207	FT57002	FT50491
BY155320*	BY155320*	BY155320*	BY155320*	BY155320*	BY155320*
					BY152312
BY49162	FT58412	FT58597	Y10656	Y10658	Y11029
FTB55115				Y29627	Y30722
					Y98733*
					Y98733*
	FT94047	Y30034	Y30035 (Gilbert de Hannethe, fl. 1296 ?)	Y29626	BY17572
				FT362629	FT362514
					Y4752*
				FT157789	FT156687
BY71571	BY118783	BY133668	BY140315	BY76234	FTA10786
				Y17398	BY19907
FT90934	FTC5936	Y45000	Y46196	Y51111	Y56467
FT92211	Y23145				
		FT85036	BY57586	BY86729	Y67458

FT25651	Y131608	Y131609	Y131611	Y131614	Y131618
FT167599	FT168107	FT168231	FT168548	FT168649	FT168717
		BY100549	FT84687	FT90694	FT92243
FT195512	FT195138	FT195332	FT196038	FT197196	FT197333
			BY3815	BY3816	FT191182
Y32659	BY46612	FT114347	Y32660	Y96916	Y32659*
FT114466 > FT120154	M6438	Y36769	BY19910	BY45769 > BY89912	BY89916 > FGC59671

FTC42544	FTC42210 > FTC42377	FTC42525	FTC42532	FTC42828	FTC43089
BY108544	BY141881	BY209137	BY89548	BY89802	BY108108

Y136834

A9405	BY3821
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FTC3353	Y15017	YFS085624	Y11857	Y11197	BY32329

BY169034	BY130751
FGC20067	FGC20072

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BY19877	BY47897	FT130937	Y131693	FT446880	Y131685
FGC21574	FT81673	Y11247	FGC21575*		
			Y11246	FGC21572	FGC21573
Y19624	Y9267	Y9269 > FT444971	Z21257 > FTB54339	V1840	BY48551
				Y9269*	
				Y8600	FTB99665

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9	8	7	6	5	4
1430	1495	1560	1625	1690	1755
Y23716*	Y23716*	Y23716*	Y23716*	Y23716*	Y23716*
Y70079*	Y70079*	Y70079*	Y70079*	Y70079*	Y70079*
Y70079*	Y70079*	Y70079*	Y70079*	Y70079*	Y70079*
BY3805	BY3805*	BY3805*	BY3805*	BY3805*	BY3805*
	BY3805*	BY3805*	BY3805*	BY3805*	BY3805*
Y7196*	Y7196*	Y7196*	Y7196*	Y7196*	Y7196*
Y7476	A20948	A20950	A20948*	A20948*	A20948*
			A20948*	A20948*	A20948*
				Y7190	Y7193 (Roderick MacDonald)
Y36593*	Y36593*	Y36593*	Y36593*	Y36593*	Y36593*
FT220078*	FT220078*	FT220078*	FT220078*	FT220078*	FT220078*
				Y91989	FTB91766
				BY136377*	BY136377*
				BY136377*	BY136377*
				BY136377*	BY136377*
					FT366338
FT151543*	FT151543*	FT151543*	FT151543*	FT151543*	FT151543*
FT150755	FT150623	FT151342	FT151414	FT151467	FT151521
		FT90436*	FT90436*	FT90436*	FT90436*
		FT90436*	FT90436*	FT90436*	FT90436*
FT396105	FT396229	FT396317	FT396710	FTB20399	Y223914
Y55089	Y58326	BY3807*	BY3807*	BY3807*	BY3807*
		BY3807*	BY3807*	BY3807*	BY3807*
BY109171	BY116837	BY118732	BY216938	FT105563	PH959
Y4751*	Y4751*	Y4751*	Y4751*	Y4751*	Y4751*
Y4751*	Y4751*	Y4751*	Y4751*	Y4751*	Y4751*
FTA41955	FTA44073	FTA44133	FTA44193	FTA94782	Y47459
FTA77935	S4056	FT12756*	FT12756*	FT12756*	FT12756*
		FT12756*	FT12756*	FT12756*	FT12756*
Y104810	Y108854	Y110555	Y110914	Y94701	Y94789
					BY3811
DV10004	DV10005	DV10006	DV10277	S2202	BY3096*

DT19904	DT19903	DT19900	DT40211	55202	BY3096*
Y139256	Y136703	Y139184	Y139220	Y139236	Y139297
FT42026	FT42049	FT65976	Y54134	Cotney 1745-	
				BY205783	FT93039 (James Cotney)
BY37539*	BY37539*	BY37539*	BY37539*	BY37539*	BY37539*
BY37531	BY37533	BY37535	BY37537	BY37538	BY37540
Y31853			BY82880	BY82880*	BY82880*
				BY82880*	BY82880*
				BY82880*	BY82880*
	BY3812	Y31089	Y31090	Y31852	Y112311
Y12715*	Y12715*	Y12715*	Y12715*	Y12715*	Y12715*
A17456	A17457	A17458	A17460	A17461	A17462
Y12339	Y12340	Y12713	Y12718	Y12719	Y12720
FT98429	FT98546	FT98568	FT98569	FT97521*	FT97521*
				FT97521*	FT97521*
				FT97521*	FT97521*
				FT97521*	FT97521*
				Y196241	FT404327
FT96962	FT97140	FT97251	FT97311	FTB88398	FT96174* FT96174*
FT229084	FT229316	FT229369	FT229736	FT228503*	FT228503*
				FT228503*	FT228503*
				FT228503*	FT228503*
				FT228503*	FT228503*
				FT228503*	FT228503*
FT350908*	FT350908*	FT350908*	FT350908*	FT350908*	FT350908*
FT350908*	FT350908*	FT350908*	FT350908*	FT350908*	FT350908*
				FT342728*	FT342728*
				FT343071	FT342604
					Y85159

FTA53724	FTA53931	FTA54965	FTB2030	MF643544	(William Gowin b.~1732 & living in Lunenburg/Bedford Co., VA)
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			BY175167*	BY175167*	BY175167*
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BY175430	BY175730	BY175776	BY79385	FT150118	BY175129*
					BY175129*

	BY56711	BY102988	BY56711*	BY56711*	BY56711*
			BY56711*	BY56711*	BY56711*
					BY137073

FTA75015	FTA75608	FTA76288	FTA76289	FTA96628	FTA97233
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Y31615*	Y31615*	Y31615*	Y31615*	Y31615*	Y31615*
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FT437797			FT333961	FT334770	FT337524
	FTA46313	FTA47857	FTA46313*	FTA46313*	FTA46313*
			FTA46313*	FTA46313*	FTA46313*

				Y31616*	Y31616*
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	FT435332	FT435332*	FT435332*	FT435332*	FT435332*
		FT435332*	FT435332*	FT435332*	FT435332*

Y84689	Y92243*	Y92243*	Y92243*	Y92243*	Y92243*
	Y92243*	Y92243*	Y92243*	Y92243*	Y92243*
	Y92243*	Y92243*	Y92243*	Y92243*	Y92243*

BY149594	FTA60180	FTB54342	FTB54343	Y38668	Y38816
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		BY63950	BY193755	BY63950*	BY63950*
				BY63950*	BY63950*
				BY182595*	BY182595*
					BY69496*

BY202161	F6345	FT64526	BY202140	BY202056	BY202075
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			Y72806*	Y72806*	Y72806*
			Y72806*	Y72806*	Y72806*

		FT418169	FT417401	FT418484	FT418252
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					FT410332
FTA37584	Y68677	Y73012	FTA11172	FTA11766	FTA32022
BY3072	BY53160	Y38435	Y41427	Y43000	Y44177
Y63570*	Y63570*	Y63570*	Y63570*	Y63570*	Y63570*
		MF25261	BY103808	MF25261*	MF25261*
				MF25261*	MF25261*
FT150563	FT150612	FT150880	FT151608	FT151621	FT151649
Y107226*	Y107226*	Y107226*	Y107226*	Y107226*	Y107226*
Y107226*	Y107226*	Y107226*	Y107226*	Y107226*	Y107226*
FT446370*	FT446370*	FT446370*	FT446370*	FT446370*	FT446370*
FT307901	FT440800	S12100	FT303354*	FT303354*	FT303354*
			FT303354*	FT303354*	FT303354*
FT5540	FT5883	FT6313	S18110	FT4643*	FT4643*
				FT4643*	FT4643*
Y101499	Y85612	Y88730	Y92696	BY37548	BY37544 (Adam McGowan)
Y139612*	Y139612*	Y139612*	Y139612*	Y139612*	Y139612*
BY3808	FT434148	FT440539	Y39364	Y42086	Y42692
BY204341	FT14843	FT15277	FT17582	FT23629	FT24080
			BY72262*	BY72262*	BY72262*
	BY72262	Y139614	BY72262*	BY72262*	BY72262*
				FT255960	FT256354
FTB96274	FTB96476	FTB96886	FTB97059	FTB97067	FTB99044
FT92226*	FT92226*	FT92226*	FT92226*	FT92226*	FT92226*

	BY140887*	BY140887*	BY140887*	BY140887*
BY140887				BY126105

<i>FT209324*</i>	<i>FT209324*</i>	<i>FT209324*</i>	<i>FT209324*</i>	<i>FT209324*</i>	<i>FT209324*</i>
			BY53629	FT447766	FT448257
	BY19886	BY19887	BY19888		<i>FT409819*</i>
				FT409819	Y36529
	FT60011	FT60059	FT60157	FT60359	FT60413
Y132729	Y39206			Y39421	BY209138
		Y134064	FT103465	Y134061	Y134067
			Y130736	BY151723 (Humphrey Hunter 1719- 1760 County Londonderry)	FT73996
		BY222142	<i>BY222142*</i>	<i>BY222142*</i>	<i>BY222142*</i>
					FTB43268
<i>BY19878*</i>	<i>BY19878*</i>	<i>BY19878*</i>	<i>BY19878*</i>	<i>BY19878*</i>	<i>BY19878*</i>
BY170610	FTA85768	<i>BY170610*</i>	<i>BY170610*</i>	<i>BY170610*</i>	<i>BY170610*</i>
		<i>BY170610*</i>	<i>BY170610*</i>	<i>BY170610*</i>	<i>BY170610*</i>
	<i>FT91746*</i>	<i>FT91746*</i>	<i>FT91746*</i>	<i>FT91746*</i>	<i>FT91746*</i>
FT76746	FT76880	FT76901	FT76922	FT77012	FT77023
					<i>FT73077*</i>
FT67330	FT429071	FT66697	FT67913	FT68264	FTC13929
<i>BY58294*</i>	<i>BY58294*</i>	<i>BY58294*</i>	<i>BY58294*</i>	<i>BY58294*</i>	<i>BY58294*</i>
<i>BY58294*</i>	<i>BY58294*</i>	<i>BY58294*</i>	<i>BY58294*</i>	<i>BY58294*</i>	<i>BY58294*</i>
<i>BY58294*</i>	<i>BY58294*</i>	<i>BY58294*</i>	<i>BY58294*</i>	<i>BY58294*</i>	<i>BY58294*</i>
<i>FT59669</i>	<i>FT57839*</i>	<i>FT57839*</i>	<i>FT57839*</i>	<i>FT57839*</i>	<i>FT57839*</i>

FT5000Z	FT57839*	FT57839*	FT57839*	FT57839*	FT57839*
BY155320*	BY155320*	BY155320*	BY155320*	BY155320*	BY155320*
BY154711	BY155116	BY156916	BY152312*	BY152312*	BY152312*
			BY152312*	BY152312*	BY152312*
Y11030	Y11031	Y11032	FT58617	FT141290	FT56878
				Y10655*	Y10655*
				Y10655*	Y10655*
				Y10655*	Y10655*
FT86027	FT86207	FTB55116	Robert Hanna (1710- 1777)		
			Y30722*	Y30722*	Y30722*
			Y30722*	Y30722*	Y30722*
Y98733*	Y98733*	Y98733*	Y98733*	Y98733*	Y98733*
Y98733*	Y98733*	Y98733*	Y98733*	Y98733*	Y98733*
Y31109	FT95189	Y74683	F2426	Y65301	BY224380
				Y74683*	Y74683*
		Y31109*	Y31109*	Y31109*	Y31109*
			Y29626*	Y29626*	Y29626*
			Y29626*	Y29626*	Y29626*
FT362918	FT363768	FT363878	FT460859	MF4208	FT362629*
					FT362629*
Y4752*	Y4752*	Y4752*	Y4752*	Y4752*	Y4752*
FT157411	FT157654	FT157870	FT157963	FT157982	FT158291
FTB49916	FTB69947	FTB69947*	FTB69947*	FTB69947*	FTB69947*
			BY117107	FT442912	FTB41257
	Y19693*	Y19693*	Y19693*	Y19693*	Y19693*
BY19908	FT165952	FT166012	FT168212	FT169147	FT171474
				BY3814*	BY3814*
FTC6690	FT110824	FT109779	FT110351	FT110588	FT376685
		Y46292	Y52457	Y57253 (Daniel Malone)	Y46292*
					Y46292*

Y68143	Y74290	Y77786	Y78201	FT85036*	FT85036*
				FT85036*	FT85036*
Z24428*	Z24428*	Z24428*	Z24428*	Z24428*	Z24428*

Y131617	Y131617*	Y131617*	Y131617*	Y131617*	Y131617*
	Y131617*	Y131617*	Y131617*	Y131617*	Y131617*
		FT124260	FT431894	Y131610	Y131613
		FTA31522	FTA457234	FTA32515	FTA33144
FT169618	FT169654	FT170452	FT171079	FT171642	FT191167
Y70846	Y76840	Y80548			FT272214
			BY152391	BY152391*	BY152391*
				BY152391*	BY152391*
FT275513		FT195512*	FT195512*	FT195512*	FT195512*
		FT274689	FT272921	FT274689*	FT274689*
				FT274689*	FT274689*
	FT195584	FT195757	FT195892	FT197140	FT195584* FT195584*
Y48515	BY3815*	BY3815*	BY3815*	BY3815*	BY3815*
	BY3815*	BY3815*	BY3815*	BY3815*	BY3815*
Y32659*	Y32659*	Y32659*	Y32659*	Y32659*	Y32659*
	Y32661	BY151776	FT113378	BY151776*	BY151776*
				BY151776*	BY151776*
		FT134731			
FT116854 > Y36143					FTA49256
	Z13702	BY71295	Z13702*	Z13702*	Z13702*
			Z13702*	Z13702*	Z13702*
					BY19910*
					BY19910*
	BY19909*	BY19909*	BY19909*	BY19909*	
	BY19909*	BY19909*	BY19909*	BY19909*	
	BY3819*	BY3819*	BY3819*	BY3819*	
	BY3819*	BY3819*	BY3819*	BY3819*	
	BY3819*	BY3819*	BY3819*	BY3819*	
BY3819*	BY3819*	BY3819*	BY3819*		

		BY3819*	BY3819*	BY3819*	BY3819*
		BY3819*	BY3819*	BY3819*	BY3819*
FTC43171	FTC47888	FTC65056	FTC65057	FTC65058	Y240023

BY123693	BY124373	BY207489	FT276248		
				FT432338	FT346319

			Z44671	BY218106	Y140497
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Y136834*	Y136834*	Y136834*	Y136834*	Y136834*	Y136834*
Y136834*	Y136834*	Y136834*	Y136834*	Y136834*	Y136834*
Y136834*	Y136834*	Y136834*	Y136834*	Y136834*	Y136834*

					BY19896 (Andrew Farney 1722)
		A9405*	A9405*	A9405*	A9405*

FT85200					
			BY3035	FT95765	FT97382
					Y30372
	Y67430	Y131410	Y131405	Y131406	Y131410*

				Y131410*
				Y131410*

Y11858*
Y11858*
Y11858*

FTC3354	BY81373	FT71433 (John Thompson, 1710-1766)	FTC3354*	FTC3354*
			BY14000	

				A11612	A11613 (Samuel Gillespie b. 1742)
			A5860 (Thomas Gillespie 1719-1797)	A5858	A5858*
A2239	A2229	A2230	FTA38496	FT258702	FTA38496*
					FTA38496*
					A20217
			Y17214	BY48483	YFS107266
	Y5673*	Y5673*	Y5673*	Y5673*	Y5673*
BY170321	BY170850	BY171566	FT274284	FT47814	Y59457
FGC20079	FGC20068	FGC20071	FGC20074	FGC20076	FGC20080
			BY117352	BY117777	BY93828
			BY3818*	BY3818*	BY3818*
			BY3818*	BY3818*	BY3818*
				BY3817	Y39068
			Y131693*	Y131693*	Y131693*
			Y131693*	Y131693*	Y131693*

FTB6825	FT382651	FTB6620	FTB8410	FTC26383	MF243426
					FT293411
FT431585	Y90750	<i>FT431585*</i>	<i>FT431585*</i>	<i>FT431585*</i>	<i>FT431585*</i>
					FT421095
		FT335440	FT340659	FT341035	Y133076
<i>FGC21575*</i>	<i>FGC21575*</i>	<i>FGC21575*</i>	<i>FGC21575*</i>	<i>FGC21575*</i>	<i>FGC21575*</i>
FGC84684	FT81092	FT81137	FT81980	FT82306	S15280
FT33817	Y29075	Y29077	BY19894	BY47257	FT33034
Y9269*	Y9269*	Y9269*	Y9269*	Y9269*	Y9269*
			BY47538	<i>BY47538*</i>	<i>BY47538*</i>
				<i>BY47538*</i>	<i>BY47538*</i>
					<i>Z21257*</i>
					<i>Z21257*</i>
					<i>Z21257*</i>
					<i>Z21257*</i>
					<i>Z21257*</i>
					<i>Z21257*</i>
					<i>Z21257*</i>
				BY50642	BY50649
			A6695	A6696	A6697
Y150646			Y8601	Y9270	Y8602
			<i>FT146652*</i>	<i>FT146652*</i>	<i>FT146652*</i>

FI14665Z > BY177850	FI145395 > FTA51564
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FT146089

3	2	1	FTDNA	Surname	Country
1820	1885	1950	Kit No.	of MRKA	of origin
Y23716*	Y23716*	Y23716*	285808	McWhinnie	Scotland
Y70079*	Y70079*	Y70079*	294150	Grubb	Ireland
Y70079*	Y70079*	Y70079*	302240	Betts	USA
BY3805*	BY3805*	BY3805*	408793	Bartlett	England
BY3805*	BY3805*	BY3805*	755750	Willumsen	Norway
Y7196*	Y7196*	Y7196*	419073	Mitchell	unknown
A20948*	A20948*	A20948*	?	?	Scotland
A20948*	A20948*	A20948*	?	?	Scotland
Y7194	Y7473	Y7190*	308028	MacDonald	Scotland
		Y7190*	B1563	MacDonald	Scotland
Y36593*	Y36593*	Y36593*	?	?	England
FT220078*	FT220078*	FT220078*	141021	Murphy	Ireland
Y91989*	Y91989*	Y91989*	IN91507	Trattle	England
Y91989*	Y91989*	Y91989*	388136	McPherson	Scotland
BY136377*	BY136377*	BY136377*	945911	Watson	Scotland
BY136377*	BY136377*	BY136377*	?	?	Scotland
BY136377*	BY136377*	BY136377*	?	?	unknown
FT404193	FT366338*	FT366338*	243352	McVay	Ireland
	FT366338*	FT366338*	282340	McVey	Scotland
	FT366338*	FT366338*	?	?	unknown
FT151543*	FT151543*	FT151543*	?	?	Ireland
FT220079	FT150755*	FT150755*	B170700	McVay	Ulster
	FT150755*	FT150755*	IN68542	McVey	Ulster
FT90436*	FT90436*	FT90436*	456331	McSweeney	Isle of Man
FT90436*	FT90436*	FT90436*	?	?	Scotland
FT395553*	FT395553*	FT395553*	B599157	Parker	England
FT395553*	FT395553*	FT395553*	478474	Parker	USA
BY3807*	BY3807*	BY3807*	41010	Haldane	Scotland
BY3807*	BY3807*	BY3807*	?	?	UK
BY53709*	BY53709*	BY53709*	B486533	McLarty	Scotland
BY53709*	BY53709*	BY53709*	312842	MacBean	Scotland
Y4751*	Y4751*	Y4751*	948982	Sprague	USA
Y4751*	Y4751*	Y4751*	?	?	?
ZS6254	FTA40085*	FTA40085*	?	?	Scotland
	FTA40085*	FTA40085*	B348810	King	unknown
FT12756*	FT12756*	FT12756*	N117269	Clark	unknown
FT12756*	FT12756*	FT12756*	?	?	unknown
Y100052*	Y100052*	Y100052*	171435	Burns	USA
171435	Y100052*	Y100052*	420787	Barnes	unknown
Y100052*	Y100052*	Y100052*	935474	Burns	unknown
BY3811*	BY3811*	BY3811*	?	?	Ireland
BY3096*	BY3096*	BY3096*	B6568	Diamond	Ireland

BY3096*	BY3096*	BY3096*	25337	Dimond	Ulster
Y140001	Y139256*	Y139256*	183762	McGinnis	Ireland
	Y139256*	Y139256*	413302	Magennis	Ireland
	Y139256*	Y139256*	?	?	Ireland
		BY3810	342777	McGennis	Ireland
M6979	BY77857*	BY77857*	526246	Cotney	Ireland
	BY205783*	BY205783*	550116	Cotney	Ireland
	BY205783*	BY205783*	646195	Cotney	Ireland
BY37539*	BY37539*	BY37539*	50204	Radcliffe	Ireland
BY37541	BY37542	BY37530*	B246202	Holmes	Scotland
		BY37530*	?	?	unknown
BY82880*	BY82880*	BY82880*	393506	Hart	Ireland
BY82880*	BY82880*	BY82880*	B44846	Hart	Ireland
BY82880*	BY82880*	BY82880*	384117	Mullis	USA
		BY3812*	72353	Hart	Ireland
Y109658	Y109272	BY127884	24927	Hart	Ireland
			?	?	Ireland
Y12715*	Y12715*	Y12715*	?	?	Scotland
A17464	CTS10326*	CTS10326*	533154	McIntosh	UK
	CTS10326*	CTS10326*	410784	McIntosh	unknown
Y12339*	Y12339*	Y12339*	199243	Gunning	Ireland
Y12339*	Y12339*	Y12339*	N53563	Taggart	Ulster
Y12339*	Y12339*	Y12339*	364513	MacGilhast	UK
FT97521*	FT97521*	FT97521*	?	?	Scotland
FT97521*	FT97521*	FT97521*	464545	Lindsay	Canada
FT97521*	FT97521*	FT97521*	?	?	Ulster
FT97521*	FT97521*	FT97521*	960718	?	unknown
Y196241*	Y196241*	Y196241*	182183	Lindsey	Ireland
FT404327*	FT404327*	FT404327*	926297	Lindsay	Ireland
FT404327*	FT404327*	FT404327*	IN11216	Lindsay	Ulster
FT96174*	FT96174*	FT96174*	313707	Bowes	Ireland
FT96174*	FT96174*	FT96174*			unknown
FT228503*	FT228503*	FT228503*	855347	Wetherhead	England
FT228503*	FT228503*	FT228503*	B558644	Weatherly	England
FT228503*	FT228503*	FT228503*			England
FT228503*	FT228503*	FT228503*	B183518	Witherell	USA
FT228503*	FT228503*	FT228503*			unknown
FT350908*	FT350908*	FT350908*	329342	Cochran	Ulster
FT350908*	FT350908*	FT350908*	?	?	England
FT342728*	FT342728*	FT342728*	IN102261	Macaulay	Scotland
FT344136	FT343071*	FT343071*	216735	Macdonald	Scotland
	FT343071*	FT343071*	912723	Smith	Canada
	FTA52805*	FTA52805*	258900	Gowin	Scotland
	FTA52805*	FTA52805*	B51944	Gowin	USA

		<i>FTA52805*</i>	<i>FTA52805*</i>	48992	Goings	unknown
		<i>FTA52805*</i>	<i>FTA52805*</i>	406266	Ray	unknown
FTA52914			<i>FTA52914*</i>			unknown
	FT104542		<i>FT104542*</i>	119679	Gowin	Scotland
			<i>FT104542*</i>	200849	Gowin	unknown
			<i>FT104542*</i>	966972	Gowin	unknown
			<i>FT104542*</i>	B620231	Gowin	unknown
<i>BY175167*</i>	<i>BY175167*</i>	<i>BY175167*</i>	B5977	Carson	Scotland	
<i>BY175129*</i>	<i>BY175129*</i>	<i>BY175129*</i>	353347	Morrow	Ireland	
<i>BY175129*</i>	<i>BY175129*</i>	<i>BY175129*</i>	95398	Morrow	USA	
<i>BY56711*</i>	<i>BY56711*</i>	<i>BY56711*</i>	223701	Carson	Ireland	
<i>BY56711*</i>	<i>BY56711*</i>	<i>BY56711*</i>	?	?	Canada	
<i>BY137073*</i>	<i>BY137073*</i>	<i>BY137073*</i>	412953	Forsythe	Ulster	
<i>BY137073*</i>	<i>BY137073*</i>	<i>BY137073*</i>	313657	Forsyth	USA	
<i>BY137073*</i>	<i>BY137073*</i>	<i>BY137073*</i>	324782	Skotte	Finland	
<i>BY137073*</i>	<i>BY137073*</i>	<i>BY137073*</i>	?	?	Finland	
MF160151		<i>FTA73391*</i>	<i>FTA73391*</i>	966044	Devlin	Ireland
		<i>FTA73391*</i>	<i>FTA73391*</i>	160401	Devlin	Ireland
<i>Y31615*</i>	<i>Y31615*</i>	<i>Y31615*</i>	?	?	unknown	
FT337663		<i>FT333961*</i>	<i>FT333961*</i>	273682	McVey	Ireland
		<i>FT333961*</i>	<i>FT333961*</i>	363985	McEvoy	Ireland
<i>FTA46313*</i>	<i>FTA46313*</i>	<i>FTA46313*</i>	B240315	McEvoy	Ulster	
<i>FTA46313*</i>	<i>FTA46313*</i>	<i>FTA46313*</i>	N113461	McEvoy	England	
<i>Y31616*</i>	<i>Y31616*</i>	<i>Y31616*</i>	701414	Ross	Ulster	
<i>FT435332*</i>	<i>FT435332*</i>	<i>FT435332*</i>	934166	Callihan	Ulster	
<i>FT435332*</i>	<i>FT435332*</i>	<i>FT435332*</i>	159867	O'Neill	unknown	
<i>Y92243*</i>	<i>Y92243*</i>	<i>Y92243*</i>	?	?	USA	
<i>Y92243*</i>	<i>Y92243*</i>	<i>Y92243*</i>	?	?	unknown	
<i>Y92243*</i>	<i>Y92243*</i>	<i>Y92243*</i>	?	?	unknown	
			<i>Y38657*</i>	310186	McConville	Ireland
			<i>Y38657*</i>	B284575	Ross	Ireland
Y42268	Y43115		<i>BY3809*</i>	?	?	Ireland
			<i>BY3809*</i>	?	?	unknown
<i>BY63950*</i>	<i>BY63950*</i>	<i>BY63950*</i>	106250	McGinnis	Ireland	
<i>BY63950*</i>	<i>BY63950*</i>	<i>BY63950*</i>	?	?	unknown	
<i>BY182595*</i>	<i>BY182595*</i>	<i>BY182595*</i>	24559	Arnold	unknown	
<i>BY69496*</i>	<i>BY69496*</i>	<i>BY69496*</i>	208993	Hall	unknown	
<i>BY202118*</i>	<i>BY202118*</i>	<i>BY202118*</i>	295338	Neal	unknown	
FT64796	FT65075		<i>BY202140*</i>	647748	White	USA
			<i>BY202140*</i>	?	?	unknown
<i>Y72806*</i>	<i>Y72806*</i>	<i>Y72806*</i>	46482	Crowley	Ireland	
<i>Y72806*</i>	<i>Y72806*</i>	<i>Y72806*</i>	518155	Clark	USA	
			<i>FT418169*</i>	?	?	unknown
<i>FT418352*</i>	<i>FT418352*</i>	<i>FT418352*</i>	?	?	unknown	

FT418352	FT418352*	FT418352*	?	?	unknown
FTA37584*	FTA37584*	FTA37584*	313656	Coyle	Ireland
FTA11172*	FTA11172*	FTA11172*	?	?	unknown
FTA11172*	FTA11172*	FTA11172*	?	?	unknown
FTA11172*	FTA11172*	FTA11172*	?	?	unknown
BY3101*	BY3101*	BY3101*	345139	Viktil	Norway
BY3101*	BY3101*	BY3101*	?	?	Norway
Y63570*	Y63570*	Y63570*	208416	Byrne	Ireland
MF25261*	MF25261*	MF25261*	921735	Riley	Ulster
MF25261*	MF25261*	MF25261*	197742	Armstrong	unknown
Y181597 > Y181995	Y188800	FT150722	IN94723	Byrne	Ireland
			IN63889	Byrne	Ireland
			?	?	unknown
Y107226*	Y107226*	Y107226*	B713740	McComb	Ireland
Y107226*	Y107226*	Y107226*	IN89653	Morrison	Scotland
FT446370*	FT446370*	FT446370*	151052	Rogan	Ireland
FT303354*	FT303354*	FT303354*	?	?	unknown
FT303354*	FT303354*	FT303354*	?	?	unknown
FT4643*	FT4643*	FT4643*	MK44088	Roe	USA
FT4643*	FT4643*	FT4643*	907031	Roe	USA
	BY37532*	BY37532*	N103267	Aiken	unknown
Y97539	BY37548*	BY37548*	B122233	McGowan	USA
	BY37548*	BY37548*	157628	McGowan	USA
Y139612*	Y139612*	Y139612*	9830	Quin	Ireland
Y43030	Y43324	BY3808*	181543	Philip	Scotland
		BY3808*	134963	Durie	Scotland
Y168402	FT22831*	FT22831*	H1121	Hunter	Scotland
	FT22831*	FT22831*	?	?	Scotland
BY72262*	BY72262*	BY72262*	555571	Kelly	Ireland
BY72262*	BY72262*	BY72262*	?	?	unknown
FT257287	FT257544	FT257330	209480	Hawthorne	England
			?	?	unknown
FTB99071	FTB99154	FTB96966	?	?	unknown
			?	?	unknown
FT92226*	FT92226*	FT92226*	262546	Callow	UK
	FT52608	FT52608*	388756	Lavery	Ireland
		FT52608*	MI28526	Lavery	Ulster
BY140887*	BY140887*	BY140887*	U2615	Lavery	Ireland
FT27957	FT31123	BY126105*	92532	Lavery	Ireland
		BY126105*	344292	Lavery	Ulster
		BY19889*	?	?	Ulster
		BY19889*	29359	Lowery	Scotland
		BY19889*	971259	Lowry	unknown
		BY19889*	970933	Lowry	unknown

		BY19889*	682530	Lowry	unknown
		Y99824*	104494	Lowry	unknown
		Y99824*	?	?	unknown
FT209324*	FT209324*	FT209324*	438362	Lavery	Ireland
Y44980	Z33773	BY53629*	900260	Lowrie	Scotland
		BY53629*	?	?	unknown
		BY19886*	954008	Lavery	Ulster
		BY19886*	?	?	unknown
FT409819*	FT409819*	FT409819*	B669421	Campbell	USA
Y36529*	Y36529*	Y36529*	40685	Lowry	Scotland
Y36529*	Y36529*	Y36529*	B101570	Lowry	USA
		Y105604	130536	Lowry	unknown
			954516	Lowry	unknown
FT72819	FT60011*	FT60011*	55344	Turner	Scotland
	FT60011*	FT60011*	MK73508	Hunter	Scotland
	FT60011*	FT60011*	246657	Hunter	Scotland
	FT60011*	FT60011*	?	?	unknown
Y40099	Y39421*	Y39421*	916304	Eastridge	Scotland
	Y39421*	Y39421*	211494	Eastridge	Scotland
	Y39421*	Y39421*	39658	Hunt	Scotland
Y134070	Y134064*	Y134064*	404406	Hunter	Scotland
	Y134064*	Y134064*	?	?	Scotland
FT74070	Y130808	Y130808*	N144278	Hunter	Scotland
		Y130808*	866873	Hunter	Scotland
	FT138527	FT138527*	77562	Hunter	Ireland
		FT138527*	946043	Hunter	Scotland
	Y130736*	Y130736*	35189	Hunter	Ireland
	Y130736*	Y130736*	761033	Hunter	Scotland
BY222142*	BY222142*	BY222142*	276656	Hunter	Ulster
FTB43888	FTB43938	FTB43268	BP24378	McCarthy	Samoa
			?	?	Samoa
BY19878*	BY19878*	BY19878*	B24489	Fagan	Ireland
BY170610*	BY170610*	BY170610*	B703299	Hyland	unknown
BY170610*	BY170610*	BY170610*	?	?	unknown
FT91746*	FT91746*	FT91746*	617791	Ennis	Ireland
FT77044	MF69102	FT75627*	IN71441	NPE	Australia
		FT75627*	IN42578	NPE	New Zealand
FT73077*	FT73077*	FT73077*	348699	O'Connor	Ireland
FTC14282	Y9048	FT67330*	B112298	Byrne	Ireland
		FT67330*	433422	Byrne	unknown
BY58294*	BY58294*	BY58294*	B220324	Evans	Wales
BY58294*	BY58294*	BY58294*	960331	Foran	USA
BY58294*	BY58294*	BY58294*	?	?	unknown
FT57839*	FT57839*	FT57839*	825731	Moore	Ireland

<i>FT57839*</i>	<i>FT57839*</i>	<i>FT57839*</i>	650407	Dimsey	England
<i>BY155320*</i>	<i>BY155320*</i>	<i>BY155320*</i>	553063	Bayhan	unknown
<i>BY152312*</i>	<i>BY152312*</i>	<i>BY152312*</i>	416601	Beahan	Ireland
<i>BY152312*</i>	<i>BY152312*</i>	<i>BY152312*</i>	?	?	unknown
FT57221	<i>FT58617*</i>	<i>FT58617*</i>	N53273	McLean	Scotland
	<i>FT58617*</i>	<i>FT58617*</i>	?	?	Scotland
	<i>FT58617*</i>	<i>FT58617*</i>	?	?	Scotland
<i>Y10655*</i>	<i>Y10655*</i>	<i>Y10655*</i>	116977	McLean	Scotland
<i>Y10655*</i>	<i>Y10655*</i>	<i>Y10655*</i>	39026	McLean	Scotland
<i>Y10655*</i>	<i>Y10655*</i>	<i>Y10655*</i>	236714	McLean	Scotland
FT113654	FGC32057	Y92890	563508	Hanna	Ireland
			B144434	Hanna	Ireland
<i>Y30722*</i>	<i>Y30722*</i>	<i>Y30722*</i>	414303	Hannah	Scotland
<i>Y30722*</i>	<i>Y30722*</i>	<i>Y30722*</i>	376060	Hanna	Ulster
<i>Y98733*</i>	<i>Y98733*</i>	<i>Y98733*</i>	149420	Bryant	unknown
<i>Y98733*</i>	<i>Y98733*</i>	<i>Y98733*</i>	359732	Hanna	unknown
Y64924	<i>Y65301*</i>	<i>Y65301*</i>	170759	Hanna	Ireland
	<i>Y65301*</i>	<i>Y65301*</i>	H1118	Hanna	unknown
<i>Y74683*</i>	<i>Y74683*</i>	<i>Y74683*</i>	272373	Hannah	Ulster
<i>Y31109*</i>	<i>Y31109*</i>	<i>Y31109*</i>	355358	Hanna	Ireland
<i>Y29626*</i>	<i>Y29626*</i>	<i>Y29626*</i>	N97303	McCreight	Scotland
<i>Y29626*</i>	<i>Y29626*</i>	<i>Y29626*</i>	491421	Adams	USA
<i>FT362629*</i>	<i>FT362629*</i>	<i>FT362629*</i>	IN54091	Wilson	Scotland
<i>FT362629*</i>	<i>FT362629*</i>	<i>FT362629*</i>	?	?	unknown
<i>Y4752*</i>	<i>Y4752*</i>	<i>Y4752*</i>	263569	Hendry	Scotland
FT439594	Z21274	<i>FT157789*</i>	58053	Rainey	Scotland
		<i>FT157789*</i>	?	?	Ireland
<i>FTB69947*</i>	<i>FTB69947*</i>	<i>FTB69947*</i>	?	?	Ireland
<i>BY117107*</i>	<i>BY117107*</i>	<i>BY117107*</i>	N96875	Wilson	Ireland
<i>BY117107*</i>	<i>BY117107*</i>	<i>BY117107*</i>	?	?	UK
<i>Y19693*</i>	<i>Y19693*</i>	<i>Y19693*</i>	B126209	Mannion	Ireland
Y17399	Y17400	<i>Y17398*</i>	322562	Mehorter	Ireland
		<i>Y17398*</i>	N132928	McWhorter	unknown
		<i>Y17398*</i>	?	?	unknown
<i>BY3814*</i>	<i>BY3814*</i>	<i>BY3814*</i>	311636	Malone	Ireland
<i>FT110824*</i>	<i>FT110824*</i>	<i>FT110824*</i>	968356	Malone	Ireland
<i>FT110824*</i>	<i>FT110824*</i>	<i>FT110824*</i>	?	?	unknown
<i>Y46292*</i>	<i>Y46292*</i>	<i>Y46292*</i>	23396	Malone	Ireland
<i>Y46292*</i>	<i>Y46292*</i>	<i>Y46292*</i>	B823973	Malone	Ireland
	Y67976	<i>Y67976*</i>	228248	Agnew	UK
		<i>Y67976*</i>	196113	Agnew	UK
<i>FT85036*</i>	<i>FT85036*</i>	<i>FT85036*</i>	B336748	Adair	Ireland
<i>FT85036*</i>	<i>FT85036*</i>	<i>FT85036*</i>	?	?	Ireland
<i>Z24428*</i>	<i>Z24428*</i>	<i>Z24428*</i>	119288	McCullough	Ireland

Y131617*	Y131617*	Y131617*	342638	McCrackan	Ulster
Y131617*	Y131617*	Y131617*	22590	Mills	UK
Y131616	FT124260*	FT124260*	?	?	Scotland
	FT124260*	FT124260*	497452	Barron	USA
FTA34969	FTA31522*	FTA31522*	?	?	unknown
	FTA31522*	FTA31522*	?	?	unknown
FT165277*	FT165277*	FT165277*	?	?	Scotland
FT165277*	FT165277*	FT165277*	?	?	Scotland
BY165368	BY165368*	BY165368*	?	?	England
	BY165368*	BY165368*	321910	Crumley	unknown
	BY165368*	BY165368*	?	?	unknown
FT272214*	FT272214*	FT272214*	440623	Crumley	England
FT272214*	FT272214*	FT272214*	?	?	unknown
BY152391*	BY152391*	BY152391*	2741	Grimes	Scotland
BY152391*	BY152391*	BY152391*	?	?	Ireland
FT195512*	FT195512*	FT195512*	?	?	unknown
FT274689*	FT274689*	FT274689*	68584	Carson	Ulster
FT274689*	FT274689*	FT274689*	?	?	Scotland
FT195584*	FT195584*	FT195584*	911032	Knox	Ireland
FT195584*	FT195584*	FT195584*	922818	Knox	Scotland
BY3815*	BY3815*	BY3815*	IN40228	Kerr	Ulster
BY3815*	BY3815*	BY3815*	281247	Allen	unknown
Y32659*	Y32659*	Y32659*	B402577	Brooks	unknown
BY151776*	BY151776*	BY151776*	79750	Hall	unknown
BY151776*	BY151776*	BY151776*	?	?	unknown
			429636	Mackfall	Scotland
			IN20639	Mackfall	Scotland
BY83102	FTA55393	FTA49256*	179964	Ferguson	Scotland
		FTA49256*	201307	Ferguson	Scotland
		FTA49256*	185584	Ferguson	Scotland
		FTA49256*	142030	Ferguson	Scotland
		FTA49256*	148477	Ferguson	Ireland
		FTA49256*	?	?	Ireland
		FTA49256*	?	?	unknown
Z13702*	Z13702*	Z13702*	84965	Ferguson	unknown
Z13702*	Z13702*	Z13702*	?	?	unknown
BY19910*	BY19910*	BY19910*	108667	Ferguson	UK
BY19910*	BY19910*	BY19910*	110016	Ferguson	Scotland
BY19909*	BY19909*	BY19909*	91841	Ferguson	unknown
BY19909*	BY19909*	BY19909*	?	?	Scotland
BY3819*	BY3819*	BY3819*	B1694	Walker	Scotland
BY3819*	BY3819*	BY3819*	?	?	Scotland
BY3819*	BY3819*	BY3819*	474099	Gamble	Ulster
BY3819*	BY3819*	BY3819*	B483932	Stitt	Ulster

BY3819*	BY3819*	BY3819*	?	?	England
BY3819*	BY3819*	BY3819*	950458	O'Brien	unknown
Y25571	FTC42544*	FTC42544*	?	?	Ulster
	FTC42544*	FTC42544*	?	?	Scotland
BY108108*	BY108108*	BY108108*	836831	Stewart	unknown
FT364681	FT364487	FT364109	14556	Stewart	Ireland
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	FT432338*	FT432338*			Ireland
FTA25082	FTA26225	FTA25082*	10016	Stewart	Ulster
		FTA25082*	B822930	Stewart	USA
Z44671*	Z44671*	Z44671*	73971	Laughlin	Ireland
Z44671*	Z44671*	Z44671*	720726	Laughlin	Ulster
Y136834*	Y136834*	Y136834*	B41953	Liggett	Ireland
Y136834*	Y136834*	Y136834*	?	?	Ireland
Y136834*	Y136834*	Y136834*	308154	McLaurine	Scotland
BY19897	BY19896*	BY19896*	211477	Forgey	Ireland
	BY19896*	BY19896*	215267	Forgey	unknown
A9405*	A9405*	A9405*	16810	Ferguson	Ireland
BY3821*	BY3821*	BY3821*	121578	Ferguson	Scotland
BY3821*	BY3821*	BY3821*	277873	Ferguson	England
BY3035*	BY3035*	BY3035*	MK59791	Ferguson	Ireland
BY3035*	BY3035*	BY3035*	173397	Ferguson	England
BY3035*	BY3035*	BY3035*	284568	Ferguson	unknown
BY3035*	BY3035*	BY3035*	?	?	unknown
Y30372*	Y30372*	Y30372*	17426	Ferguson	Scotland
Y30372*	Y30372*	Y30372*	257851	Ferguson	Ireland
	A11471	A11471*	204552	Ferguson	Ireland
		A11471*	204544	Ferguson	Ireland
		A11471*	199741	Ferguson	Scotland
Y131410*	Y131410*	Y131410*	113655	Barber	Ireland
Y131410*	Y131410*	Y131410*	15187	McArthur	unknown
			75126	Fergusson	Scotland
Y11858*	Y11858*	Y11858*	188098	Hedley	England
Y11858*	Y11858*	Y11858*	272968	Gillespy	England
Y11858*	Y11858*	Y11858*	B124452	Thompson	USA
FTC3354*	FTC3354*	FTC3354*	?	?	USA
	BY81373*	BY81373*	B433959	Thompson	Ireland
	BY81373*	BY81373*	358116	Thompson	Ireland
	BY81373*	BY81373*	406791	Watkins	Ireland
	BY81373*	BY81373*	256849	Thompson	unknown
	BY141000*	BY141000*	458583	Thompson	USA
FT342448 (John Thompson)	BY87612	FT342448	689627	Thompson	Ulster
			MI41670	Thompson	unknown
A7395	A7396	A7395*	388371	McKenzie	Scotland

			211934	Gillespie	Ireland
			143222	Gillespie	Ulster
A7392	A11612*	A11612*	247567	Gillespie	Ulster
	A11612*	A11612*	B6098	Gillespie	Ulster
	A11612*	A11612*	825200	Gillespie	Ulster
	A20723	A20723*	278409	Gillespie	Ulster
			96468	Gillespie	Ulster
A5858*	A5858*	A5858*	75180	Gillespie	Ulster
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	A17510	A17510*	28870	Gillespie	Ulster
		A17510*	913621	Gillespie	Ulster
		A17510*	564582	Gillespie	unknown
			46283	Gillespie	Ulster
	A2239*	A2239*	211468	Gillespie	Ulster
	A2239*	A2239*	359724	Gillespie	Ulster
	A2239*	A2239*	935413	Gillespie	Ireland
FTA38496*	FTA38496*	FTA38496*	588178	Gillespie	Ulster
FTA38496*	FTA38496*	FTA38496*	?	?	Ulster
FT354883	A20217*	A20217*	64340	Gillespie	Ulster
	A20217*	A20217*	74732	Gillespie	Ulster
	A20217*	A20217*	?	?	unknown
			163959	Gillespie	Ulster
			158559	Gillespie	Ulster
Y17214*	Y17214*	Y17214*	N98125	Spencer	unknown
Y17214*	Y17214*	Y17214*	N112569	Allen	Scotland
Y17214*	Y17214*	Y17214*	B290446	McKnight	USA
Y17214*	Y17214*	Y17214*	260744	Gillespie	Ireland
	A7389	A7389*	312840	Gillespie	Ulster
	A7403	A7403*	142370	Gillespie	Ulster
Y5673*	Y5673*	Y5673*	226582	Fuqua	unknown
BY169034*	BY169034*	BY169034*	15412	Montgomery	Ulster
BY169034*	BY169034*	BY169034*	B604680	Montgomery	USA
BY169034*	BY169034*	BY169034*	?	?	unknown
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FGC20070	FGC20070*	FGC20070*	219546	McMillion	Scotland
FT191816	FT3297	BY66686	281654	McMillin	unknown
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BY3818*	BY3818*	BY3818*	226852	McKeen	Ulster
BY3818*	BY3818*	BY3818*	518748	Colley	USA
Y41443	BY3817*	BY3817*	250256	McKinstry	Ireland
	BY3817*	BY3817*	?	?	Ulster
Y131693*	Y131693*	Y131693*	?	?	unknown
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	FTB6825*	FTB6825*	?	?	Scotland

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Y127320	FT293411*	FT293411*	39307	Wilkerson	UK
	BY100274	BY100274*	?	?	USA
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FT431585*	FT431585*	FT431585*	?	?	unknown
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FT335440*	FT335440*	FT335440*	?	?	Ireland
FT335440*	FT335440*	FT335440*	?	?	Ulster
FGC21575*	FGC21575*	FGC21575*	?	?	UK
Y11246*	Y11246*	Y11246*	12835	MacRannald	Scotland
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Y11246*	Y11246*	Y11246*	?	?	unknown
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	BY19895	BY19893	414449	Young	USA
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Y29076	Y29076*	Y29076*	N54369	Thompson	Scotland
	Y29076*	Y29076*	?	Thompson	unknown
Y9269*	Y9269*	Y9269*	451447	Hillhouse	Scotland
BY47538*	BY47538*	BY47538*	266933	Hillis	Ireland
BY47538*	BY47538*	BY47538*	210431	Hillis	USA
Z21257*	Z21257*	Z21257*	236753	Hemphill	Ulster
Z21257*	Z21257*	Z21257*	214555	Hemphill	Ulster
Z21257*	Z21257*	Z21257*	H1189	Hemphill	USA
Z21257*	Z21257*	Z21257*	299916	Hemphill	USA
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Z21257*	Z21257*	Z21257*	?	?	Ireland
BY50657	BY50662	BY50656	793519	Hemphill	USA
			764287	Hemphill	USA
BY220204	A6696*	A6696*	?	?	Ulster
		BY88061	284304	Hemphill	unknown
			?	?	unknown
Y8600*	Y8600*	Y8600*	251583	Hemphill	Ireland
	Y8601*	Y8601*	H1188	Hemphill	Scotland
FTB39105	FTB39131	FTB39105*	964491	Hemphill	USA
		FTB39105*	932585	Hemphill	unknown
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Y9270*	Y9270*	Y9270*	425127	Hemphill	Ulster
	Y8602*	Y8602*	H1158	Hemphill	Ulster
FT150299	A6699	A6699*	H1186	Hemphill	Ulster
			H1025	Hemphill	Ulster
		A6698	H1154	Hemphill	Ulster
FT146652*	FT146652*	FT146652*	?	?	unknown

FT146354	<i>FT146089*</i>	<i>FT146089*</i>	239124	Hemphill	Ireland
	<i>FT146089*</i>	<i>FT146089*</i>	?	?	unknown
FT122991	Y232347	<i>FT122991*</i>	?	?	Ireland
		<i>FT122991*</i>	IN88921	Hemphill	Ulster

Wicklow	
Wicklow	
Western Isles	
Down	
Tipperary	
Fife	
Antrim	
Down	

Mutation Age Time	29 130	28 195	27 260	26 325	25 390
	Y11772 (Íar mac Dedad?)	A11115	BY49242	FT11340	Y32622
				Y12075	FGC71266

PF4135 et al.
(Deda mac
Sin?) - 20
SNPs,
branching
1235 BCE

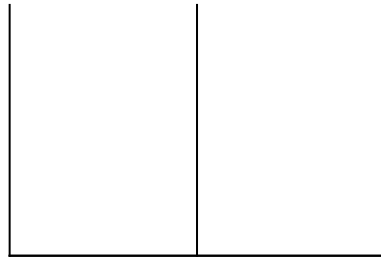
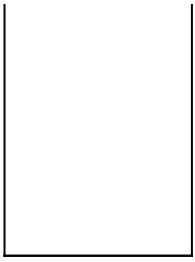
A13665
(Dáire
Doimthech)

Y31055
(Lugaid mac
Con r. 173-
203)

BY157584

Y91501
(Conganchne
s mac
Dedad?)

A11374



24	23	22	21	20	19
455	520	585	650	715	780
Y75401	Y64698	A19477	A19478	Y64704	BY86156
FGC71274					
	Y36079	A17247	FT162109	FT162530	FT162537

Y85926	Y31631	A13664	BY47942	FT13804	FT144526
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BY157776	BY157884	BY157937	BY158023	BY158259	BY158280
		Z45261	A17708	A17709	BY204455

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18	17	16	15	14	13
845	910	975	1040	1105	1170
BY182504	BY46826	BY53108	FT111181	FT112040	Y63669

Y12073	FGC71263	FGC71273 (Donald Munro of Foulis, ?- 1039)	FGC71275	FGC71276	FGC71292
A8270	A17248	BY37469	BY37471	A19302	BY37470

				BY133999	BY138409
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FT3383	Y126098	A14359	A13904	FT3432	A19162
					Y37101
		FGC39003	BY62732	BY101724	BY103549

BY158566	BY158590	BY158626	BY158627	BY209663	BY217273
BY78831	FGC31289	FT144591	FTB5745	Y104292	Y106034

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12	11	10	9	8	7
1235	1300	1365	1430	1495	1560
Y67001	Y76495	Y62883	BY155294	BY82092	FT110786
				<i>BY86156*</i>	<i>BY86156*</i>

<i>A11115*</i>	<i>A11115*</i>	<i>A11115*</i>	<i>A11115*</i>
<i>A11115*</i>	<i>A11115*</i>	<i>A11115*</i>	<i>A11115*</i>
<i>A11115*</i>	<i>A11115*</i>	<i>A11115*</i>	<i>A11115*</i>
<i>A11115*</i>	<i>A11115*</i>	<i>A11115*</i>	<i>A11115*</i>
			FT8412
			FGC85557

FGC71295	FGC71297 (Robert de Munro, ?-1369)	FGC71304	FGC71331	FTB16521	Y12059
FT162235	FT163229	FT443435	Y128944	BY218314	Y128218
				BY73985	BY95225
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					<i>A19302*</i>

<i>Y36079*</i>	<i>Y36079*</i>	<i>Y36079*</i>	<i>Y36079*</i>
	<i>Y12075*</i>	<i>Y12075*</i>	<i>Y12075*</i>

<i>A13665*</i>	<i>A13665*</i>	<i>A13665*</i>	<i>A13665*</i>	<i>A13665*</i>	<i>A13665*</i>
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					<i>Y31631*</i>
					<i>A13664*</i>
FT148499	FT177130	FT178071	Y163882	<i>BY133999*</i>	<i>BY133999*</i>
				<i>BY133999*</i>	<i>BY133999*</i>
				<i>A14359*</i>	<i>A14359*</i>

BY176167

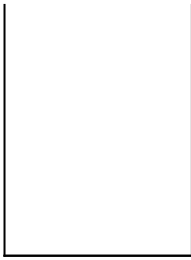
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				BY37208	A19381
					Y112683
BY140143	BY218123	BY64547	BY78715	BY89994	BY96710
BY105765	BY117374	BY136503	BY211703	BY223253	FT123071

FTA409536	FTA409648	FTA409683	FTA84811	FTA93632	FTA85805
Y108013	Y146443	Y89952	Y98208	Z45262	Z45263

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6	5	4	3	2	1
1625	1690	1755	1820	1885	1950
Y68103	Y68185	Y62883*	Y62883*	Y62883*	Y62883*
				Y79838	Y79838*
					Y79838*
					Y79838*
BY86156*	BY86156*	BY86156*	BY86156*	BY86156*	BY86156*
Y64698*	Y64698*	Y64698*	Y64698*	Y64698*	Y64698*
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FT10671	FT7847	Y168221	FT8412*	FT8412*	FT8412*
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FT339764	A11984	FT339764*	FT339764*	FT339764*	FT339764*
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Y12073*	Y12073*	Y12073*	Y12073*	Y12073*	Y12073*
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Y12073*	Y12073*	Y12073*	Y12073*	Y12073*	Y12073*
Y12073*	Y12073*	Y12073*	Y12073*	Y12073*	Y12073*
Y12073*	Y12073*	Y12073*	Y12073*	Y12073*	Y12073*
Y12073*	Y12073*	Y12073*	Y12073*	Y12073*	Y12073*
Y128944*	Y128944*	Y128944*	Y128944*	Y128944*	Y128944*
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FT5131	FTB28128	MF31400	FTB28128*	FTB28128*	FTB28128*
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A19302*	A19302*	A19302*	A19302*	A19302*	A19302*
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Y12075*	Y12075*	Y12075*	Y12075*	Y12075*	Y12075*
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BY133999*	BY133999*	BY133999*	BY133999*	BY133999*	BY133999*
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BY86789	BY156239	BY171719	Y71243	BY86789*	BY86789*	
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	A19162*	A19162*	A19162*	A19162*	A19162*	
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FGC22318	Y102853	BY90072*	BY90072*	BY90072*	BY90072*	
			Y100290	Y100290*	Y100290*	
Y37101*	Y37101*	Y37101*	Y37101*	Y37101*	Y37101*	
FT93613	Y167071	BY37208*	BY37208*	BY37208*	BY37208*	
		BY123243	BY108228	BY57844	FTB58156	
FT176677	Y112683*	Y112683*	Y112683*	Y112683*	Y112683*	
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	FT368107	FT368340	FT369107*	FT369107*	FT369107*	FT369107*
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			FT344905	FT344905*	FT344905*	FT344905*
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				FT344905*	FT344905*	FT344905*
				FT344905*	FT344905*	FT344905*



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			<i>FT344905*</i>	<i>FT344905*</i>
			<i>FT344905*</i>	<i>FT344905*</i>
				<i>Y166579*</i>
<i>Y166579</i>				<i>FT268556*</i>
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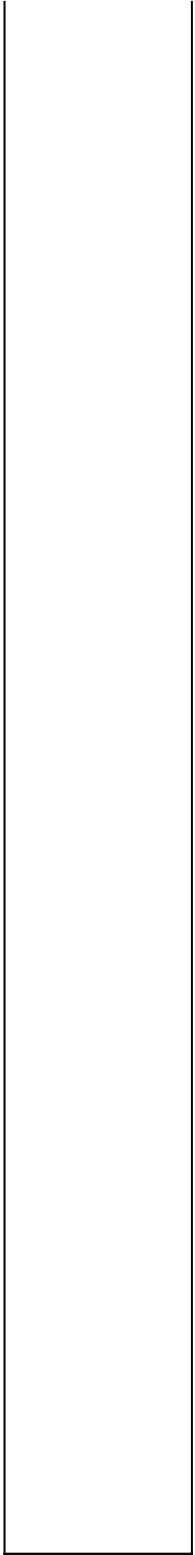
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300438	Kinley	Isle of Man	
153528	Kinley	Isle of Man	
?	?	UK	
B560111	Corkill	Isle of Man	
717970	Driscoll	Ireland	
245513	Leary	Ireland	
B77884	Daniel	UK	
IN70607	Davies	Wales	
?	?	unknown	
B333072	Finn	Ireland	
?	?	unknown	
103208	McDaniel	Scotland	Clan Munro of Easter Ross
?	?	Scotland	
?	?	USA	
242813	Monroe	Scotland	
SI11468	Munro	unknown	
349429	Munro	Scotland	
?	?	Scotland	
17299	Munro	Scotland	
?	?	Scotland	
?	?	Scotland	
?	?	Scotland	
?	?	unknown	
?	?	Scotland	
B408386	Gräf	Germany	
B298743	Mitchell	Scotland	
?	?	unknown	
438595	Mitchell	unknown	
N64850	Parker	USA	
IN39913	<i>Walter</i>	unknown	
405354	<i>Harritt</i>	England	
254545	Barry	Ireland	
?	?	Ireland	
B501365	Dessort	France	
430053	Driscoll	Ireland	
554655	Diskey	unknown	
?	?	England	
743418	O'Driscoll	Ireland	
?	?	USA	
498503	Driscoll	Ireland	
100934	Driscoll	Ireland	

?	?	Ireland	Corcu Loigde (O'Driscoll)
61687	Driscoll	Ireland	
882910	Shanahan	Ireland	
?	?	Ireland	
755288	Driscoll	Ireland	
129723	Driscoll	Ireland	
97206	Driscoll	Ireland	
?	?	USA	
B43528	Donovan	Ireland	
?	?	Ireland	
?	?	Ireland	
484820	Driscoll	Ireland	
?	?	Ireland	
397640	Driscoll	Ireland	
87791	Driscoll	Ireland	
?	?	Ireland	
255886	Driscoll	Ireland	
528760	Driscoll	Ireland	
?	?	Ireland	
525412	Driscoll	USA	
284440	Driscoll	Ireland	
?	?	Ireland	
?	?	Ireland	
667572	Flynn	unknown	
?	?	unknown	
261782	Hash	unknown	
?	?	unknown	
231897	Murray	Ireland	Cork
404721	Williams	Wales	
B768428	Williams	unknown	
902884	Davis	USA	
?	?	USA	
8172	Williamson	UK	
916788	Atkinson	USA	
N184237	Atkinson	USA	
?	?	unknown	
?	?	unknown	
?	?	unknown	
218866	Adkins	USA	
193189	Adkins	unknown	
470377	Hall	USA	
900620	Sully Hall	USA	
B675336	Saylor	USA	
27753	Hall	unknown	

?	?	unknown	
?	?	unknown	
?	?	unknown	
37871	Mullins	UK	
887067	Mullins	USA	
	Mullins	USA	

62	61	60	59	58	57
-2015	-1950	-1885	-1820	-1755	-1690
				Y21507	A10512
	S7708	A19303	A19304	BY37515	BY37516

Y3723 et al.
(31 SNPs)



56	55	54	53	52	51
-1625	-1560	-1495	-1430	-1365	-1300

A10513	A10514	A10515	BY37517	BY37520	BY37521
BY37519	BY37522	BY44602	BY44739	FT1450988	FT145183

FGC7193

Y4692

Y3734

FGC7215

FGC14453

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50	49	48	47	46	45
-1235	-1170	-1105	-1040	-975	-910

BY85494	FT98859	FT99772	Y20866	Y20868	Y20869
FT145273	FT145475	FT145509	FT146175	FT146632	FT233118

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Y5460	Y5455	BY48987	FGC14451	FGC14455	FGC14456
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Y4665

44	43	42	41	40	39
-845	-780	-715	-650	-585	-520
				Y3723*	Y3723*
				Y3723*	Y3723*

Y20873	Y21508	Y21509	Y21510	Y21511	Y21512
FT275517	FT34747	S7714	Y182408	Y61420	Y62320

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FGC14461	FGC14464	FGC14472	FGC14473	FGC41358	FGC41373

FGC7160

FGC7162

FGC7163

FGC7166

FGC7168

FGC7183

38	37	36	35	34	33
-455	-390	-325	-260	-195	-130
Y3723*	Y3723*	Y3723*	Y3723*	Y3723*	Y3723*
Y3723*	Y3723*	Y3723*	Y3723*	Y3723*	Y3723*
	A22306	FT251600	FT251689	BY55932	BY101049
Y21514	Y21516	Y21517	Y75693	Z18584	Y20870
Y62443	Y63182	Y64188	Y66257	Y68986	Y69224
	FT360421	FGC2956	FGC81772	FT358591	FT359274

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FT20707	FT27263	Y18218	Y18392	Y38223	Y5450

FGC7185

FGC7187

FGC7189

FGC7192

FGC7196

FGC7209

32	31	30	29	28	27
-65	0	65	130	195	260
Y3723*	Y3723*	Y3723*	Y3723*	Y3723*	Y3723*
Y3723*	Y3723*	Y3723*	Y3723*	Y3723*	Y3723*
BY105254	BY109473	BY109848	BY118063	BY119394	BY128554

FT110235	FT144578	FT9151	FT98715	FT98791	FT98816
Y71358	Y71545	Y75954	BY82983	BY139718	BY142178
FT359294	FT359491	FT359534	FT359575	FT360020	FT360039

		BY171838	FT234364	BY171828	BY113918

Y5463

Y5464

FGC14458

Y5453

Y5451

FGC7214

FGC7217

FGC7224

FGC8131

FGC83829

FGC87939

26	25	24	23	22	21
325	390	455	520	585	650
Y3723*	Y3723*	Y3723*	Y3723*	Y3723*	Y3723*
Y3723*	Y3723*	Y3723*	Y3723*	Y3723*	Y3723*
BY133274	BY134341	BY140515	BY150002	BY56309	BY69182
			BY62644	BY107497	BY108629

FT98829	FT98893	FT99004	FT99005	FT99024	FT99295
BY226176	BY85616	FT272860	FT273108	FT273171	FT273186

	BY37518				
		FGC14181	BY44555	BY106395	BY44657
FT360318	FT360589	FT360590	FT360749	FT361040	FT361118
				FGC14453*	FGC14453*

BY171832	BY171836	BY171837	BY171839	BY171844	BY171846

A7729	BY46347	Y18393	Y18648	Y18649
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BY184836

FGC14462	FGC14466	FT110912	FT17207	FT18181	FT73591
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Y5280

FGC7210

FGC7167

FGC7179

FGC7198

FGC7180

20	19	18	17	16	15
715	780	845	910	975	1040
Y3723*	Y3723*	Y3723*	Y3723*	Y3723*	Y3723*
Y3723*	Y3723*	Y3723*	Y3723*	Y3723*	Y3723*
BY72472	BY75508	BY77278	BY78078	BY78269	BY79337
BY119740	BY129989	BY135861	BY219377	BY51712	BY77022
					Y21507*

FT99421	FT99468	Y20874	Y21513	Y21515	Y20871
FT273702	FT274670	FT274671	FT275215	FT275511	FT275512

FT253995	FT254498	FT439209	FTA26257	FT254710	FT376316
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BY44686	BY44788	FT145151	FT146685	FTB30627	PH3673
FT361176	FT361235	FT361336	FT361360	FT361393	FT361442
FGC14453*	FGC14453*	FGC14453*	FGC14453*	FGC14453*	FGC14453*

BY171852	BY171859	BY171863	BY209850	BY210278	BY221437
				A7729*	A7729*
					BY116314

A12374	FT144821	Y181505	BY37223	BY224067	BY224067*

BY127055	BY202259	BY202924	BY203349	BY203845	FT148231
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Y5465				FT64429 (Geibhennac h, son of Aedh, d. 971)	Y43901
	Y128131	FT126600	BY55527	FT125633	FT126086

FGC14716

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FT119902	PH1907	PH1907*	PH1907*
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FT144553	FTA23349	FTA23091	FTA23230	FTA23446	FTA23653
		FT143462	FT109319	FT142902	FT142991
				Y32297	A14890

A10741	FT15975	BY136251	FGC6273	FGC82462	BY54698
			BY180053	BY179962	FT309335

14	13	12	11	10	9
1105	1170	1235	1300	1365	1430
Y3723*	Y3723*	Y3723*	Y3723*	Y3723*	Y3723*
Y3723*	Y3723*	Y3723*	Y3723*	Y3723*	Y3723*
BY99738	FT343845	FT343878	FT344374	FT350588	Y157525
BY92499	FT251805	FT251838	BY62644*	BY62644*	BY62644*
			BY62644*	BY62644*	BY62644*
Y21507*	Y21507*	Y21507*	Y21507*	Y21507*	Y21507*
				FT99343	FT451196
A11113	FT107755	FT108075	Y20872	BY87892	Y194743
FTA45210	Y143849	Y143850	Y143851	Y143852	Y143853

		FT253995*	FT253995*	FT253995*	FT253995*
FT90593	FTA94677			FT86959	BY66968
		FTA79200	FTA79740	FTA80907	FTA81582
				FGC14181*	FGC14181*
				FGC14181*	FGC14181*
Y143389	Y98643	BY44555*	BY44555*	BY44555*	BY44555*
			BY44773	BY44733	FT145093
FT361516	FT361533	FT428850	FT431141	FT450653	FT457833
FGC14453*	FGC14453*	FGC14453*	FGC14453*	FGC14453*	FGC14453*
				BY171838*	BY171838*

FT268562	Y155072	Y155077	FT233952	FT233664	FT233690
A7729*	A7729*	A7729*	A7729*	A7729*	A7729*
FT356545	FT357212	Y212176	BY116314*	BY116314*	BY116314*
			BY116314*	BY116314*	BY116314*

					BY37223*
					BY37223*
BY224067*	BY224067*	BY224067*	BY224067*	BY224067*	BY224067*

		Y63687	BY202258	FT188751	FT180295
					FGC14458*
FT148334	FT148800	FT148838	FT149070	FT149086	FT149534
		BY150381	Y45719	BY186335	BY186584
FGC14463	FT83249	FT83661	BY158352	FT245715	FT246845
Y39012			Y43901*	Y43901*	Y43901*
			Y43901*	Y43901*	Y43901*
	FT119407	FGC41364	FGC41365	FGC41367	FT114696
FT377102	FT377103	Y128027	Y128539	Y128584	Y128691

		Y67777	BY37526	BY37527	BY37528
FGC14714	FGC14720	V00162	ET12402	ET72502	ETD20207

		100102	FT13402	FT13393	FT12037
			Y5280*	Y5280*	Y5280*
		FT119902*	FT119902*	FT119902*	FT119902*
PH1907*	PH1907*	PH1907*	PH1907*	PH1907*	PH1907*
					FGC7210*
			FGC7198*	FGC7198*	FGC7198*
	FGC7191	BY45792	FGC7158	FGC7165	FGC7190
FTA23992	FTA24164	FTA25333	FTA25535	FTA25571	FTA25655
FT143273	FT143858	FT143893	FT144422	FT191194	FT191195
A14891	FT85791	FT85959	Y31126	FT86615	FT86748
			A10741*	A10741*	A10741*
			A10741*	A10741*	A10741*
		BY136251*	BY136251*	BY136251*	BY136251*
FT15099	FT73594		FT256067	FT256148	FT255656
		BY120202	BY105573	Y60448	Y67192
FT308565	FT309430	FT315783			FT309335*
			FT308875	FT309710	FT412168

<i>BY37223*</i>	<i>BY37223*</i>	<i>BY37223*</i>	<i>BY37223*</i>	<i>BY37223*</i>	<i>BY37223*</i>
<i>BY37223*</i>	<i>BY37223*</i>	<i>BY37223*</i>	<i>BY37223*</i>	<i>BY37223*</i>	<i>BY37223*</i>
<i>BY224067*</i>	<i>BY224067*</i>	<i>BY224067*</i>	<i>BY224067*</i>	<i>BY224067*</i>	<i>BY224067*</i>
		Y49923	MF2471	Y47651	Y56688
			Y63687*	Y63687*	Y63687*
<i>FT180295*</i>	<i>FT180295*</i>	<i>FT180295*</i>	<i>FT180295*</i>	<i>FT180295*</i>	<i>FT180295*</i>
<i>FT180295*</i>	<i>FT180295*</i>	<i>FT180295*</i>	<i>FT180295*</i>	<i>FT180295*</i>	<i>FT180295*</i>
<i>FGC14458*</i>	<i>FGC14458*</i>	<i>FGC14458*</i>	<i>FGC14458*</i>	<i>FGC14458*</i>	<i>FGC14458*</i>
FT149920	FT151774	Y27700			
			FT402914	FT402981	<i>FT402914*</i>
					<i>FT402914*</i>
					FTB13774
				<i>BY150381*</i>	<i>BY150381*</i>
BY186613	BY188020	BY188066	BY188723	BY188726	FT63867
			<i>BY158352*</i>	<i>BY158352*</i>	<i>BY158352*</i>
			<i>BY158352*</i>	<i>BY158352*</i>	<i>BY158352*</i>
FT245506	FT246786	FT246983	FT461199		<i>FT246845*</i>
				FT245250	<i>FT245250*</i>
					<i>FT245250*</i>
FGC14449	Y44666	<i>FGC14449*</i>	<i>FGC14449*</i>	<i>FGC14449*</i>	<i>FGC14449*</i>
			FGC14450	FGC14465	<i>FGC14450*</i>
					<i>FGC14450*</i>
<i>Y43901*</i>	<i>Y43901*</i>	<i>Y43901*</i>	<i>Y43901*</i>	<i>Y43901*</i>	<i>Y43901*</i>
<i>Y43901*</i>	<i>Y43901*</i>	<i>Y43901*</i>	<i>Y43901*</i>	<i>Y43901*</i>	<i>Y43901*</i>
FT59662	<i>FT119407*</i>	<i>FT119407*</i>	<i>FT119407*</i>	<i>FT119407*</i>	<i>FT119407*</i>
	<i>FT119407*</i>	<i>FT119407*</i>	<i>FT119407*</i>	<i>FT119407*</i>	<i>FT119407*</i>
Y129370	Y129461	Y129716	Y130346	<i>FT126600*</i>	<i>FT126600*</i>
				<i>FT126600*</i>	<i>FT126600*</i>
			BY184822	BY185399	<i>BY184822*</i>
					<i>BY184822*</i>
Y62387	Y66056	Y70127	Y73109	Y73321	Z12334
		FGC14718	FGC14721	FGC17415	<i>FGC14718*</i>
					<i>FGC14718*</i>
		FT14043	FT13831	FT13349	FT13036
V02911			ET70510	ET70109	V101710

Y2011	FT79371		FT79371	FT79371	FT79371
		FT79371*	FT79371*	FT79371*	FT79371*
Y5280*	Y5280*	Y5280*	Y5280*	Y5280*	Y5280*
FT119902*	FT119902*	FT119902*	FT119902*	FT119902*	FT119902*
PH1907*	PH1907*	PH1907*	PH1907*	PH1907*	PH1907*
FGC7210*	FGC7210*	FGC7210*	FGC7210*	FGC7210*	FGC7210*
FGC7198*	FGC7198*	FGC7198*	FGC7198*	FGC7198*	FGC7198*
FGC7194	FGC7203	FGC7205	FGC7213	FGC87937	FT144552
FTB11313	FTB20402	FTA25838	FTB68852	ZS3308	FTA25838*
					FTA25838*
				FTB68914	FTB68914*
					FTB68914*

FT161813	FT158871	FT202809	Y140229	Z15318	FT161813*
					FT161813*

					Y82491
		FT86615*	FT86615*	FT86615*	FT86615*
FT86840	FT56485	Y39543	Y82829	Y41442	Y39002
				FTA90875	FTA90875*
					FTA90875*
A10741*	A10741*	A10741*	A10741*	A10741*	A10741*
A10741*	A10741*	A10741*	A10741*	A10741*	A10741*
BY136251*	BY136251*	BY136251*	BY136251*	BY136251*	BY136251*
			FT256067*	FT256067*	FT256067*
FT256002	FT257029	FT257645	FT257647	FT257978	FT256148*
					FT256148*
Y68196	Y69677	Y69737	Y71310	Y72816	Y79281
				BY180053*	BY180053*
FT309335*	FT309335*	FT309335*	FT309335*	FT309335*	FT309335*
FT308875*	FT308875*	FT308875*	FT308875*	FT308875*	FT308875*
FT308875*	FT308875*	FT308875*	FT308875*	FT308875*	FT308875*

2	1	FTDNA	Surname	Country	County
1885	1950	Kit No.	of MRKA	of origin	
Y3723*	Y3723*	MI64233	Gueguen de La Roche	France	
Y3723*	Y3723*	B11366	Harrod	USA	
BY55932*	BY55932*	261891	Butchart	Scotland	
BY55932*	BY55932*	164613	Randolph	unknown	
BY62644*	BY62644*	215358	Hunter	Scotland	Roxburgh
BY62644*	BY62644*	?	?	France	
Y21507*	Y21507*	?	?	France	
FT99343*	FT99343*	916344	Burnside	unknown	
FT99343*	FT99343*	?	?	unknown	
	BY87892*	36048	Dodd	Ireland	
Y50064*	Y50064*	?	?	Ireland	
Y55588	BY87766	906796	Todd	Ireland	
		192579	Todd	Ireland	
BY151966*	BY151966*	14332	Gibbins	Ireland	
BY151966*	BY151966*	226839	Todd	unknown	
BY151966*	BY151966*	220068	Chitwood	unknown	
BY151966*	BY151966*	?	?	unknown	
BY82983*	BY82983*	?	?	Germany	
BY82983*	BY82983*	946865	Hoover	England	
BY82983*	BY82983*	118927	Roberts	unknown	
BY37518*	BY37518*	169029	Jolley	France	
FT253995*	FT253995*	511279	Morrison	USA	
FT86959*	FT86959*	916786	Mackie	Scotland	Fife
FT86959*	FT86959*	?	?	unknown	
FTA79200*	FTA79200*	250389	Kelly	Ireland	
FTA79200*	FTA79200*	958880	Mahaffey	USA	
FGC14181*	FGC14181*	MI44046	Murray	Ireland	
FGC14181*	FGC14181*	306862	Hubbard	UK	
BY44555*	BY44555*	75157	Watt	Scotland	Aberdeenshire
BY44773*	BY44773*	B157401	Kennedy	Scotland	
BY44773*	BY44773*	108498	Mitchell	UK	
BY44773*	BY44773*	?	?	USA	
FT360421*	FT360421*	149323	Long	Ireland	
FT360421*	FT360421*	?	?	USA	
FGC14453*	FGC14453*	IN12486	Greaves	UK	
BY171838*	BY171838*	IN13416	Leece	England	
BY171828*	BY171828*	104018	Armstrong	Scotland	
FT233952*	FT233952*	105641	Armstrong	Scotland	
FT233952*	FT233952*	?	?	unknown	
A7729*	A7729*	N58620	Flynn	Ireland	Cork
BY116314*	BY116314*	B573112	Norman	USA	
BY116314*	BY116314*	MK32684	Hadley	unknown	

BY37223*	BY37223*	94275	Mulvihill	Ireland	Longford
BY37223*	BY37223*	9620	Dalton	Ireland	
BY224067*	BY224067*	42413	Mitchell	Ireland	
Y59192	Y49923*	226917	Ganley	Ireland	Mayo
	Y49923*	601266	Ganly	Ireland	Mayo
Y63687*	Y63687*	172276	Clark	Ireland	Meath
FT180295*	FT180295*	46112	Morgan	Ireland	
FT180295*	FT180295*	4805	Brown	unknown	
FGC14458*	FGC14458*	561473	Gill	Ireland	Roscommon
BY184836*	BY184836*	646192	Byrnes	Ireland	
BY184836*	BY184836*	?	?	Ireland	
BY184836*	BY184836*	937266	Burns	unknown	
FT402914*	FT402914*	405887	Byrnes	Ireland	
FT402914*	FT402914*	?	?	Ireland	
FTB13774*	FTB13774*	550118	Burns	Ireland	
FTB13774*	FTB13774*	?	?	Ireland	
BY150381*	BY150381*	N99069	Clyne	Ireland	
MF24446	BY186335*	391141	Perea	USA	
	BY186335*	847023	Perea	USA	
	BY186335*	?	?	USA	
	BY186335*	?	?	USA	
BY158352*	BY158352*	N24073	Cox	Ireland	
BY158352*	BY158352*	?	?	unknown	
FT246845*	FT246845*	150416	Cox	Ireland	
FT245250*	FT245250*	113173	Cox	Ireland	
FT245250*	FT245250*	558674	Cox	Ireland	
FGC14449*	FGC14449*	65681	Keaveny	Ireland	Mayo
FGC14450*	FGC14450*	IN105394	Keaveny	Ireland	Sligo
FGC14450*	FGC14450*	113806	Keaveny	Ireland	Galway
Y43901*	Y43901*	332736	Skelly / Hyman	Ireland	Westmeath
Y43901*	Y43901*	474155	Reid	Ireland	Mayo
FT119407*	FT119407*	?	?	Ireland	
FT119407*	FT119407*	?	?	USA	
FT126600*	FT126600*	535407	Casey	Ireland	Roscommon
FT126600*	FT126600*	?	?	Ireland	
BY184822*	BY184822*	661310	Crohan	Ireland	
BY184822*	BY184822*	?	?	unknown	
ZS9058	Y67777*	B76115	Washington	Ireland	Galway
	Y67777*	547783	Washington	Ireland	Galway
FGC14718*	FGC14718*	263355	Woods	Ireland	Meath
FGC14718*	FGC14718*	N80283	Morton	UK	
BY210915	FT12948	864236	Weaver	USA	
FT79549*	FT79549*	68215	Rasco	England	
FT79549*	FT79549*	101115	Rasco	England	

<i>FT79549*</i>	<i>FT79549*</i>	58781	Rasco	Ireland	
<i>FT79549*</i>	<i>FT79549*</i>	935812	Wilkinson	USA	
<i>FT79371*</i>	<i>FT79371*</i>	?	?	England	
<i>Y5280*</i>	<i>Y5280*</i>	?	?	unknown	
<i>FT119902*</i>	<i>FT119902*</i>	471405	Shearer	Scotland	
<i>PH1907*</i>	<i>PH1907*</i>	480463	Casey	Ireland	
<i>FGC7210*</i>	<i>FGC7210*</i>	482264	O'Connor	Ireland	
<i>FGC7198*</i>	<i>FGC7198*</i>	?	?	Ireland	
FT144554	<i>FGC7191*</i>	302892	O'Grady	Ireland	Limerick
	<i>FGC7191*</i>	N28466	O'Grady	Ireland	Limerick
<i>FTA25838*</i>	<i>FTA25838*</i>	B509095	Lane	Ireland	
<i>FTA25838*</i>	<i>FTA25838*</i>	?	?	unknown	
<i>FTB68914*</i>	<i>FTB68914*</i>	?	?	unknown	
<i>FTB68914*</i>	<i>FTB68914*</i>	?	?	unknown	
	<i>FT143462*</i>	875952	Madigan	unknown	
<i>FT161813*</i>	<i>FT161813*</i>	B70302	Madigan	Ireland	
<i>FT161813*</i>	<i>FT161813*</i>	B509910	Madigan	unknown	
<i>Y32297*</i>	<i>Y32297*</i>	B3617	Morrissey	Ireland	
<i>Y82491*</i>	<i>Y82491*</i>	562027	Morrissey	Ireland	Kilkenny
<i>Y82491*</i>	<i>Y82491*</i>	929119	Morrissey	Ireland	
<i>FT86615*</i>	<i>FT86615*</i>	B59374	Morrissey	Ireland	Tipperary
Y189701	FT86944	235279	Morrissey	Ireland	Limerick
		?	?	Ireland	
<i>FTA90875*</i>	<i>FTA90875*</i>	403136	Morrissey	Ireland	
<i>FTA90875*</i>	<i>FTA90875*</i>	780955	Morrissey	Ireland	
<i>A10741*</i>	<i>A10741*</i>	N60846	Keith	Scotland	
<i>A10741*</i>	<i>A10741*</i>	27065	Brien	Ireland	Limerick
<i>BY136251*</i>	<i>BY136251*</i>	?	?	unknown	
<i>FT256067*</i>	<i>FT256067*</i>	?	?	unknown	
<i>FT256148*</i>	<i>FT256148*</i>	919231	Flynn	Ireland	
<i>FT256148*</i>	<i>FT256148*</i>	?	?	Ireland	
<i>BY120202*</i>	<i>BY120202*</i>	37127	Cain	Ireland	
<i>BY120202*</i>	<i>BY120202*</i>	?	?	unknown	
<i>BY180053*</i>	<i>BY180053*</i>	857274	O'Donnell	Ireland	
<i>FT309335*</i>	<i>FT309335*</i>	921290	Halpin	Ireland	
<i>FT308875*</i>	<i>FT308875*</i>	911073	<i>Nolan</i>	unknown	
<i>FT308875*</i>	<i>FT308875*</i>	B68912	Long	unknown	

Mutation Age Time	23	22	21	20	19
	520	585	650	715	780
					FT82026
		FGC32230	FT84909	FGC32228	FGC84774
		BY96915	BY110785	BY112757	BY125332
					FT104650
					BY56714

Z16372 et al. (30 SNP) from 1495 BC to 455 CE		BY404	BY403	BY195251	BY402
	BY34852			FT2725	BY73180

					FGC31773 > FGC31777
		BY184	BY183		BY3061
				BY182	
					BY157074
					BY173599 > FT13702

18	17	16	15	14	13
845	910	975	1040	1105	1170
FT80122	BY129455	FT80122*	FT80122*	FT80122*	FT80122*
		FT80122*	FT80122*	FT80122*	FT80122*

FT265217	FT81246	FT81455	FT81870	FT82072	FT82101
FT85042	BY64491	FT136500	FT179438	PF5350	FT138610 > BY104968
	FGC32225	FGC32233	FT367524	FT84900	FGC32224

BY215103	FT153011	FT128730	FT234196	FT234303	FT275572

FT103886	FT104582	FT104969	FT105013	FT105382	FT105927
BY106178	BY115225	BY151371	BY221979	BY54287	BY71472

BY405 > BY407	FT15716	FT16606 (Ua Ségda, king of Corcu Duibne d. 1041) ?	FT23936 > FT93430	Y262952	BY408
BY143173	BY97838	FGC77087	FT238358	FT238433	FTC48222
BY201845	BY201902	FT2813	FT2768	FT2555	FT2565

FGC31778 > FGC31779	FT356474 > FT356563	FT356600	FT357239	FT357189	
				<i>FT357189*</i>	FT356665

M2775	BY11282 > BY2951	F2338 > FT58316	FT85016 > FTB35037	Y160260 > ZS5213	ZS5208 > ZS5209
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FT3520	FT4064	FT7360	FT3445	BY110230	BY131612
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FT18700	FT20383 > FT24343	FT25872 > FT59724	FT19457 > FT22005	BY183331	<i>FT18700*</i>
					FT25118 > FT59725

BY173601	BY173597	FT12893	FT13106	FT13813	FT12703
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12	11	10	9	8	7
1235	1300	1365	1430	1495	1560
<i>FT80122*</i>	<i>FT80122*</i>	<i>FT80122*</i>	<i>FT80122*</i>	<i>FT80122*</i>	<i>FT80122*</i>
<i>FT80122*</i>	<i>FT80122*</i>	<i>FT80122*</i>	<i>FT80122*</i>	<i>FT80122*</i>	<i>FT80122*</i>
	<i>FGC32230*</i>	<i>FGC32230*</i>	<i>FGC32230*</i>	<i>FGC32230*</i>	<i>FGC32230*</i>
FT82133	FT82185	FTB39910	FTB40226	FTB42603	FTB40521
	<i>BY64491*</i>	<i>BY64491*</i>	<i>BY64491*</i>	<i>BY64491*</i>	<i>BY64491*</i>
FT135612 > FT135702	FT137231 > FT139491	FT140077 > FT140107	FT140992 > FT455181	FTC67375	<i>FTC67375*</i>
					<i>FTC67375*</i>
					<i>FGC32225*</i>
FGC32222	FGC32226	FGC32227	FGC32231	FGC84775	FT84690
BY154160	CTS6257	FT46663	<i>BY154160*</i>	<i>BY154160*</i>	<i>BY154160*</i>
			<i>BY154160*</i>	<i>BY154160*</i>	<i>BY154160*</i>
<i>BY96915*</i>	<i>BY96915*</i>	<i>BY96915*</i>	<i>BY96915*</i>	<i>BY96915*</i>	<i>BY96915*</i>
Y86798	<i>FT128730*</i>	<i>FT128730*</i>	<i>FT128730*</i>	<i>FT128730*</i>	<i>FT128730*</i>
	<i>FT128730*</i>	<i>FT128730*</i>	<i>FT128730*</i>	<i>FT128730*</i>	<i>FT128730*</i>
<i>FT88163*</i>	<i>FT88163*</i>	<i>FT88163*</i>	<i>FT88163*</i>	<i>FT88163*</i>	<i>FT88163*</i>
BY69137	BY145015	FTB59997	FTB60802	FTB62550	<i>BY69137*</i>
					<i>BY69137*</i>
	FT155297	FT152156	FT453503	MF13750	<i>FT155297*</i>
					<i>FT155297*</i>
<i>BY404*</i>	<i>BY404*</i>	<i>BY404*</i>	<i>BY404*</i>	<i>BY404*</i>	<i>BY404*</i>
FT225377	FT225378	<i>FT104650*</i>	<i>FT104650*</i>	<i>FT104650*</i>	<i>FT104650*</i>
		<i>FT104650*</i>	<i>FT104650*</i>	<i>FT104650*</i>	<i>FT104650*</i>
		<i>FT104650*</i>	<i>FT104650*</i>	<i>FT104650*</i>	<i>FT104650*</i>
BY82512	BY92953	BY96905	BY98376	FGC38276	FTA40330
					<i>BY195251*</i>
			FT47369	<i>FT47369*</i>	<i>FT47369*</i>
				<i>FT47369*</i>	<i>FT47369*</i>
				<i>FT47369*</i>	<i>FT47369*</i>
				<i>FT47369*</i>	<i>FT47369*</i>
				FT229195	FT229208
			<i>BY408*</i>	<i>BY408*</i>	<i>BY408*</i>
			<i>BY408*</i>	<i>BY408*</i>	<i>BY408*</i>

BY3150	BY24108	FT123376			BY47581
			BY3151	BY11266	BY3153

BY98138					
	BY23548	BY101312	BY24669	FT16054	FT18235

	<i>BY73180*</i>	<i>BY73180*</i>	<i>BY73180*</i>	<i>BY73180*</i>	<i>BY73180*</i>
FT409396	FT238413	FT179235	BY97074	BY91923	BY57624

*FT2813**

FT2612	FT2684	FT2709	FT2770	FT2777	FT2794
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	BY201625	BY201624	BY201854	FT230102	FT88918
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	<i>BY182*</i>	<i>BY182*</i>	<i>BY182*</i>	<i>BY182*</i>	<i>BY182*</i>
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*FGC31773**

			F13512	F13512*	F13512*
				F13512*	F13512*
FT357189*	FT357189*	FT357189*	FT357189*	FT357189*	FT357189*
BY182609	FGC52044	FT180976 > FT356419	FT356910 > FT356959	FT357081 > FT357153	FT356665* FT356665*
BY3061*	BY3061*	BY3061*	BY3061*	BY3061*	BY3061*
ZS5210 > ZS5211					
	FT87279	BY104027	BY157124	FT265218	FT86034
	ZS5207	FT57264 > FT92218	FT92557	ZS5212	BY11277

BY222724	BY64541 > BY69591	FT27334	FT4662 > FT4694	FT5418	BY102327
FT18700*	FT18700*	FT18700*	FT18700*	FT18700*	FT18700*
M12377					FT19457*
	FT20848	FT56598 > FT283616	FT56565 > FT56569	FT56597 > FT56607	FT56613 > FT56614
				FT14655	FT15137
			BY173601*	BY173601*	BY173601*
FT11747	FT12139	FT12911 > FT13356	FT13920 > FT13932	FT376230	FT445351
					BY173600

6	5	4	3	2	1
1625	1690	1755	1820	1885	1950
<i>FT80122*</i>	<i>FT80122*</i>	<i>FT80122*</i>	<i>FT80122*</i>	<i>FT80122*</i>	<i>FT80122*</i>
<i>FT80122*</i>	<i>FT80122*</i>	<i>FT80122*</i>	<i>FT80122*</i>	<i>FT80122*</i>	<i>FT80122*</i>
<i>FGC32230*</i>	<i>FGC32230*</i>	<i>FGC32230*</i>	<i>FGC32230*</i>	<i>FGC32230*</i>	<i>FGC32230*</i>
			<i>FT82026*</i>	<i>FT82026*</i>	<i>FT82026*</i>
			<i>FT82026*</i>	<i>FT82026*</i>	<i>FT82026*</i>
FTB39581	FT82247	FT81360	FT81140	FT81717	FT249632
<i>BY64491*</i>	<i>BY64491*</i>	<i>BY64491*</i>	<i>BY64491*</i>	<i>BY64491*</i>	<i>BY64491*</i>
			<i>FT138610*</i>	<i>FT138610*</i>	<i>FT138610*</i>
<i>FTC67375*</i>	<i>FTC67375*</i>	<i>FTC67375*</i>	<i>FTC67375*</i>	<i>FTC67375*</i>	<i>FTC67375*</i>
<i>FTC67375*</i>	<i>FTC67375*</i>	<i>FTC67375*</i>	<i>FTC67375*</i>	<i>FTC67375*</i>	<i>FTC67375*</i>
<i>FGC32225*</i>	<i>FGC32225*</i>	<i>FGC32225*</i>	<i>FGC32225*</i>	<i>FGC32225*</i>	<i>FGC32225*</i>
FTB53887	Y50137				<i>FGC32224*</i>
		FT182814	FGC32232 > FGC32234	FGC32223 > FGC32229	FT85054
<i>BY154160*</i>	<i>BY154160*</i>	<i>BY154160*</i>	<i>BY154160*</i>	<i>BY154160*</i>	<i>BY154160*</i>
<i>BY154160*</i>	<i>BY154160*</i>	<i>BY154160*</i>	<i>BY154160*</i>	<i>BY154160*</i>	<i>BY154160*</i>
<i>BY96915*</i>	<i>BY96915*</i>	<i>BY96915*</i>	<i>BY96915*</i>	<i>BY96915*</i>	<i>BY96915*</i>
<i>FT128730*</i>	<i>FT128730*</i>	<i>FT128730*</i>	<i>FT128730*</i>	<i>FT128730*</i>	<i>FT128730*</i>
<i>FT128730*</i>	<i>FT128730*</i>	<i>FT128730*</i>	<i>FT128730*</i>	<i>FT128730*</i>	<i>FT128730*</i>
<i>FT88163*</i>	<i>FT88163*</i>	<i>FT88163*</i>	<i>FT88163*</i>	<i>FT88163*</i>	<i>FT88163*</i>
<i>BY69137*</i>	<i>BY69137*</i>	<i>BY69137*</i>	<i>BY69137*</i>	<i>BY69137*</i>	<i>BY69137*</i>
<i>BY69137*</i>	<i>BY69137*</i>	<i>BY69137*</i>	<i>BY69137*</i>	<i>BY69137*</i>	<i>BY69137*</i>
<i>FT155297*</i>	<i>FT155297*</i>	<i>FT155297*</i>	<i>FT155297*</i>	<i>FT155297*</i>	<i>FT155297*</i>
<i>FT155297*</i>	<i>FT155297*</i>	<i>FT155297*</i>	<i>FT155297*</i>	<i>FT155297*</i>	<i>FT155297*</i>
<i>BY404*</i>	<i>BY404*</i>	<i>BY404*</i>	<i>BY404*</i>	<i>BY404*</i>	<i>BY404*</i>
<i>FT104650*</i>	<i>FT104650*</i>	<i>FT104650*</i>	<i>FT104650*</i>	<i>FT104650*</i>	<i>FT104650*</i>
<i>FT104650*</i>	<i>FT104650*</i>	<i>FT104650*</i>	<i>FT104650*</i>	<i>FT104650*</i>	<i>FT104650*</i>
<i>FT104650*</i>	<i>FT104650*</i>	<i>FT104650*</i>	<i>FT104650*</i>	<i>FT104650*</i>	<i>FT104650*</i>
FTA43247	FTA43248	FTA43263	<i>BY56714*</i>	<i>BY56714*</i>	<i>BY56714*</i>
			<i>BY56714*</i>	<i>BY56714*</i>	<i>BY56714*</i>
<i>BY195251*</i>	<i>BY195251*</i>	<i>BY195251*</i>	<i>BY195251*</i>	<i>BY195251*</i>	<i>BY195251*</i>
<i>FT47369*</i>	<i>FT47369*</i>	<i>FT47369*</i>	<i>FT47369*</i>	<i>FT47369*</i>	<i>FT47369*</i>
<i>FT47369*</i>	<i>FT47369*</i>	<i>FT47369*</i>	<i>FT47369*</i>	<i>FT47369*</i>	<i>FT47369*</i>
<i>FT47369*</i>	<i>FT47369*</i>	<i>FT47369*</i>	<i>FT47369*</i>	<i>FT47369*</i>	<i>FT47369*</i>
<i>FT47369*</i>	<i>FT47369*</i>	<i>FT47369*</i>	<i>FT47369*</i>	<i>FT47369*</i>	<i>FT47369*</i>
<i>FT229195*</i>	<i>FT229195*</i>	<i>FT229195*</i>	<i>FT229195*</i>	<i>FT229195*</i>	<i>FT229195*</i>
<i>FT229195*</i>	<i>FT229195*</i>	<i>FT229195*</i>	<i>FT229195*</i>	<i>FT229195*</i>	<i>FT229195*</i>
<i>BY408*</i>	<i>BY408*</i>	<i>BY408*</i>	<i>BY408*</i>	<i>BY408*</i>	<i>BY408*</i>
<i>BY408*</i>	<i>BY408*</i>	<i>BY408*</i>	<i>BY408*</i>	<i>BY408*</i>	<i>BY408*</i>
			<i>BY47581*</i>	<i>BY47581*</i>	<i>BY47581*</i>

FT167275	FT168462	FT356951	FT358018	<i>FT167275*</i>	<i>FT167275*</i>
				<i>FT167275*</i>	<i>FT167275*</i>
FT123499		<i>BY3151*</i>	<i>BY3151*</i>	<i>BY3151*</i>	<i>BY3151*</i>
		FTA41802	FTA41126	A10965	FTA39865
	BY96625				
		BY11254	<i>BY11256*</i>	<i>BY11256*</i>	<i>BY11256*</i>
	BY11260	BY11272	<i>BY11260*</i>	<i>BY11260*</i>	<i>BY11260*</i>
	<i>BY98138*</i>	<i>BY98138*</i>	<i>BY98138*</i>	<i>BY98138*</i>	<i>BY98138*</i>
			<i>BY23548*</i>	<i>BY23548*</i>	<i>BY23548*</i>
			<i>BY23548*</i>	<i>BY23548*</i>	<i>BY23548*</i>
FT69753				<i>FT69753*</i>	<i>FT69753*</i>
				<i>FT69753*</i>	<i>FT69753*</i>
				<i>FT69753*</i>	<i>FT69753*</i>
				<i>FT69753*</i>	<i>FT69753*</i>
			FT62771	BY195128	BY193260
	BY190001	BY64622	<i>BY190001*</i>	<i>BY190001*</i>	<i>BY190001*</i>
			<i>BY190001*</i>	<i>BY190001*</i>	<i>BY190001*</i>
		John Shea, b. c. 1755, d. 1810, West Clare	BY23607	FT83527	<i>BY23607*</i>
					<i>BY23607*</i>
					<i>BY23607*</i>
					BY142679
BY11251	BY11273	<i>BY11251*</i>	<i>BY11251*</i>	<i>BY11251*</i>	<i>BY11251*</i>
<i>BY73180*</i>	<i>BY73180*</i>	<i>BY73180*</i>	<i>BY73180*</i>	<i>BY73180*</i>	<i>BY73180*</i>
BY222528	BY150604	BY137914 > BY146318	BY134507 > BY135829	BY129809 > BY131794	BY74700
<i>FT2813*</i>	<i>FT2813*</i>	<i>FT2813*</i>	<i>FT2813*</i>	<i>FT2813*</i>	<i>FT2813*</i>
FT2940	FT3172	FT3219 (John Porter b 1785 d 1860)	FT3265	Y168415	<i>FT2768*</i>
					<i>FT2768*</i>
					<i>FT2768*</i>
					<i>FT2768*</i>
					<i>FT2768*</i>
					<i>FT2768*</i>
					<i>FT2768*</i>
FT344468	FT340066	FT338985	FT337870	FT335329	FT342827
				FT88663	BY201822
<i>BY182*</i>	<i>BY182*</i>	<i>BY182*</i>	<i>BY182*</i>	<i>BY182*</i>	<i>BY182*</i>
<i>FGC31773*</i>	<i>FGC31773*</i>	<i>FGC31773*</i>	<i>FGC31773*</i>	<i>FGC31773*</i>	<i>FGC31773*</i>

<i>F13512*</i>	<i>F13512*</i>	<i>F13512*</i>	<i>F13512*</i>	<i>F13512*</i>	<i>F13512*</i>
<i>F13512*</i>	<i>F13512*</i>	<i>F13512*</i>	<i>F13512*</i>	<i>F13512*</i>	<i>F13512*</i>
<i>FT357189*</i>	<i>FT357189*</i>	<i>FT357189*</i>	<i>FT357189*</i>	<i>FT357189*</i>	<i>FT357189*</i>
<i>FT356665*</i>	<i>FT356665*</i>	<i>FT356665*</i>	<i>FT356665*</i>	<i>FT356665*</i>	<i>FT356665*</i>
<i>FT356665*</i>	<i>FT356665*</i>	<i>FT356665*</i>	<i>FT356665*</i>	<i>FT356665*</i>	<i>FT356665*</i>
<i>BY3061*</i>	<i>BY3061*</i>	<i>BY3061*</i>	<i>BY3061*</i>	<i>BY3061*</i>	<i>BY3061*</i>
		FTB33021	<i>FTB33021*</i>	<i>FTB33021*</i>	<i>FTB33021*</i>
			<i>FTB33021*</i>	<i>FTB33021*</i>	<i>FTB33021*</i>
			<i>FTB33021*</i>	<i>FTB33021*</i>	<i>FTB33021*</i>
			<i>FTB33021*</i>	<i>FTB33021*</i>	<i>FTB33021*</i>
			FT122980	BY217729	BY165454
FT86183	FT86206	FT86416	FT87169	FT87292	<i>FT87279*</i>
					<i>FT87279*</i>
					<i>FT87279*</i>
					<i>ZS5207*</i>
					<i>ZS5207*</i>
					<i>BY11277*</i>
					<i>BY11277*</i>
FTC20149	Z24242	GG209	BY79428	BY139454	<i>FTC20149*</i>
					<i>FTC20149*</i>
		FT99080	FT98837	BY42404	FT99740
		BY11278	BY11276	<i>BY11278*</i>	<i>BY11278*</i>
			<i>BY11278*</i>	<i>BY11278*</i>	<i>BY11278*</i>
<i>BY157074*</i>	<i>BY157074*</i>	<i>BY157074*</i>	<i>BY157074*</i>	<i>BY157074*</i>	<i>BY157074*</i>
<i>BY157074*</i>	<i>BY157074*</i>	<i>BY157074*</i>	<i>BY157074*</i>	<i>BY157074*</i>	<i>BY157074*</i>
		<i>FT3445*</i>	<i>FT3445*</i>	<i>FT3445*</i>	<i>FT3445*</i>
BY73633	FT8560			FT6209	<i>FT6209*</i>
					<i>FT6209*</i>
		BY85228	BY99052	Y85607	<i>BY85228*</i>
				<i>BY85228*</i>	
<i>FT18700*</i>	<i>FT18700*</i>	<i>FT18700*</i>	<i>FT18700*</i>	<i>FT18700*</i>	<i>FT18700*</i>
<i>FT19457*</i>	<i>FT19457*</i>	<i>FT19457*</i>	<i>FT19457*</i>	<i>FT19457*</i>	<i>FT19457*</i>
FT56638 > FT56646	<i>FT56598*</i>	<i>FT56598*</i>	<i>FT56598*</i>	<i>FT56598*</i>	<i>FT56598*</i>
	<i>FT56598*</i>	<i>FT56598*</i>	<i>FT56598*</i>	<i>FT56598*</i>	<i>FT56598*</i>
FT22669	FT22921	FT25569	FT430885	<i>FT14655*</i>	<i>FT14655*</i>
				<i>FT14655*</i>	<i>FT14655*</i>
<i>BY173601*</i>	<i>BY173601*</i>	<i>BY173601*</i>	<i>BY173601*</i>	<i>BY173601*</i>	<i>BY173601*</i>
FTB62549	<i>FT12703*</i>	<i>FT12703*</i>	<i>FT12703*</i>	<i>FT12703*</i>	<i>FT12703*</i>
	<i>FT12703*</i>	<i>FT12703*</i>	<i>FT12703*</i>	<i>FT12703*</i>	<i>FT12703*</i>
BY114222	BY173598	<i>BY173600*</i>	<i>BY173600*</i>	<i>BY173600*</i>	<i>BY173600*</i>
		<i>BY173600*</i>	<i>BY173600*</i>	<i>BY173600*</i>	<i>BY173600*</i>

FTDNA Kit No.	Surname of MRKA	Country of origin	County or city	Sept or clan
345440	Cleary	Ireland	Cork	
?	?	unknown		
908103	Finley	unknown		
?	?	Ireland		
711521	Griffith	USA		
259768	Lucey	Ireland		
?	?	Ireland		
?	?	unknown		
170563	Cooley	unknown		
IN25417	Velle	Norway	Møre og Romsdal	
IN105977	Haddal	Norway	Møre og Romsdal	
BP24210	Håvik	Norway	Møre og Romsdal	
382141	Coleman	Ireland	Cork	
B71819	Coleman	USA		
204537	Coleman	Ireland	Cork	
95913	Coleman	Ireland		
49541	McCarthy	Ireland		
?	?	USA		
?	?	Ireland		
632346	Mullins	USA		
B288551	Robinson	unknown		
?	?	UK		
N57202	Healey	Ireland		
?	?	unknown		
420486	Barrett	Ireland	Kerry	
B636704	Healey	England		
B118887	Murray	Canada		
B391385	Sullivan	Ireland		
892318	Connors	Ireland		
?	?	unknown		
B46819	Graddy	Ireland		
?	?	Ireland		
B670304	Egan	Ireland		
34730	Shea	Ireland		
B46644	Shea	Ireland		
?	?	England		
B252744	Shea	unknown		
916245	O'Shea	Ireland		
IN87314	Shea	unknown		
135093	O'Shea	Ireland	Kerry	
866848	Shea	Ireland		
?	?	unknown		

929296	Hallissey	Ireland	Kerry	O'Shea (Corcu Duibne)
?	?	Ireland		
931829	Shea	unknown		
B684730	O'Shea	Ireland		
?	?	unknown		
532814	O'Shea	Ireland		
277838	Shaw	Ireland		
111318	Shea	Ireland	Kerry	
177781	O'Shea	Ireland	Cork	
?	?	Ireland		
IN32973	O'Shea	unknown		
930143	Shaw	USA		
?	?	USA		
54902	Cushman	unknown		
?	?	unknown		
63038	Shaw	Ulster		
?	?	USA		
852330	Shaw	USA		
877613	Shaw	unknown		
15527	Shea	Ireland	Clare	
371055	Shea	Ireland	Clare	
590061	Shea	Ireland	Clare	
733926	Shea	Ireland	Clare	
MI15471	Shea	Ireland	Clare	
371016	Shea	Ireland	Clare	
175552	<i>Moody</i>	unknown		
593860	Fouhy	Ireland	Cork	
B162302	Dillon	Ireland		
399037	Dillon	Ireland		
649989	Ahearn	Ireland		
MK46841	Porter	USA		
872601	Porter	USA		
853092	Porter	USA		
B352921	Porter	USA		
MK64101	Porter	USA		
879213	Porter	unknown		
891934	Hulse	unknown		
?	?	unknown		
B49636	Judge	England		
MK64103	Judge	USA		
162554	Brown	Ireland		
?	?	unknown		
B6538	Fleming	Ulster	Tyrone	
824885	Quinn	Ireland		

211516	Connor	Ireland		Quinn (Ó Coinn)
?	?	Ireland		
B306784	Quinn	Ireland	Roscommon	
?	?	Scotland		
906974	MacQueen	USA		
B546377	Clark	Ireland		
14058	Nicolson	Scotland	Isle of Skye	Clan MacNeacail (MacNicol) of Skye
94107	Nicolson	Scotland		
IN94870	Nicholson	unknown		
?	?	unknown		
B166953	Nicholson	Scotland		
B320492	Nicholson	Scotland		
B808069	McNicoll	Scotland		
170627	McGregor	Scotland	Sutherland	
?	?	unknown		
44454	Nicholson	Scotland	Isle of Skye	
90496	McDonald	Scotland		
?	?	unknown		
224032	Nicholson	Scotland		
?	?	Scotland		
776256	Nicolson	Scotland		
322490	Nicolson	Scotland		
280304	Nicolson	Scotland	Isle of Skye	
230107	Nicolson	Scotland		
294863	Byrne	Ireland		
?	?	unknown		
IN93339	Skehan	Ireland		Skehan family
N42786	Skehan	Ireland	Kilkenny	
?	?	Ireland		
B307270	Skehan	Ireland		
?	?	Ireland		
310545	Ryan	Ireland		
?	?	unknown		
MI34754	Cassel	Scotland		
?	?	unknown		
154826	McDowell	Ireland		
IN21479	McDouall	Scotland	Wigtownshire	
571258	Dyer	USA		
?	?	Ireland		
157572	Lahey	UK		
857875	Sproule	Ireland		
?	?	Ireland		

Y5058 et al.
(32 SNPs,
branching
1690 BCE)

Y5061

FGC22191

FGC31178

FT44670

FT87675

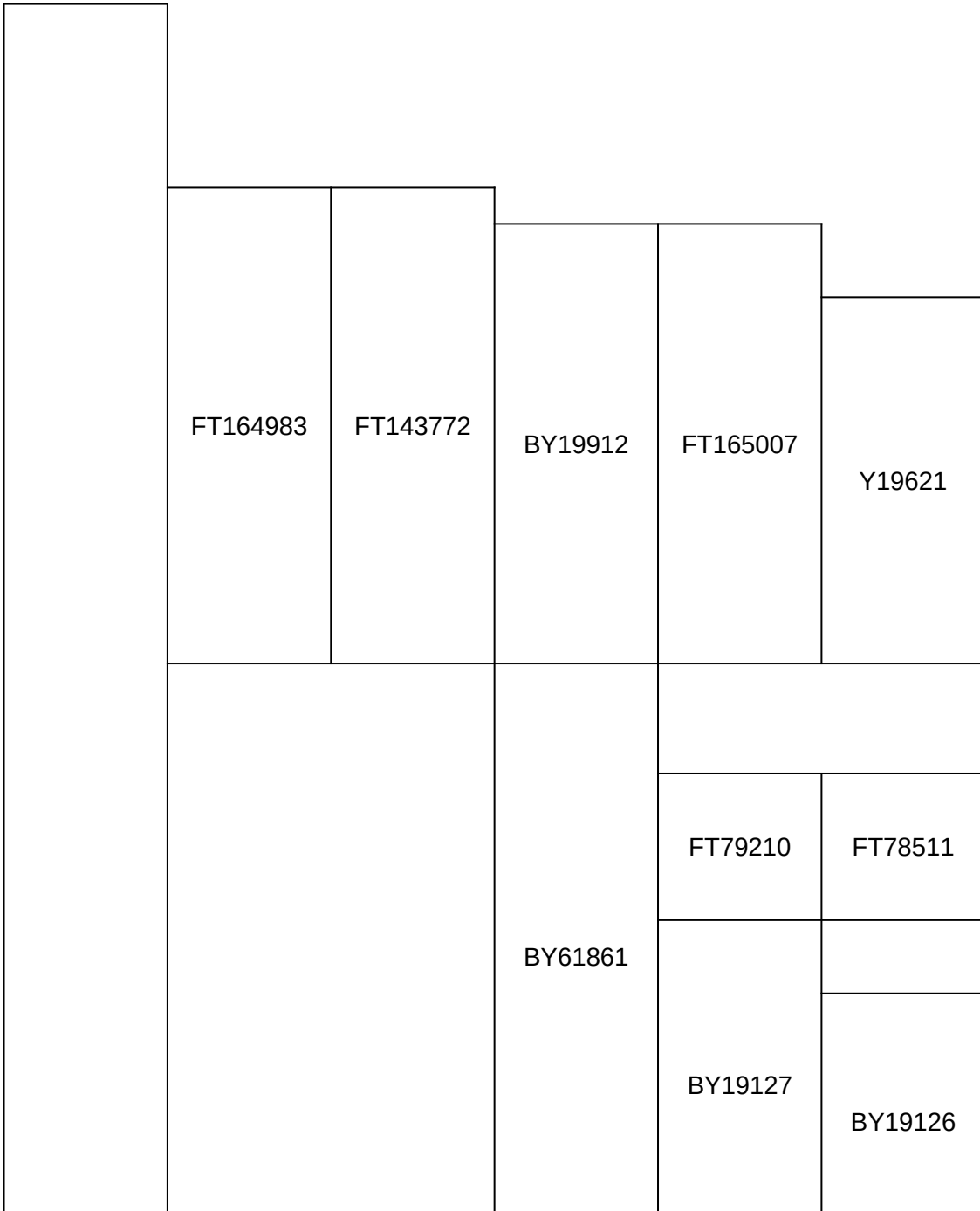
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<http://www.peterspioneers.com/breassalbreac.htm>

<https://www.familytreedna.com/public/BreassalBreac?iframe=yresults>

19	18	17	16	15	14
780	845	910	975	1040	1105
BY76664	BY77318	BY83447	F24104	FT225442	FT3503

PH1592	PH1901	PH2454	PH2583	PH2815	PH4511
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FT44669				BY80957
	M756	PH5187	FTT85	FTT86

BY19114	PH5150				
		Z25950	FT66071	FT67687 > FGC49691	FT182929 > FT446806
			A13134	FT80505	
					FT80834

13	12	11	10	9	8
1170	1235	1300	1365	1430	1495
FT4969	FT5286	FT5771	<i>BY72962*</i>	<i>BY72962*</i>	<i>BY72962*</i>
			<i>BY72962*</i>	<i>BY72962*</i>	<i>BY72962*</i>
<i>Y5061*</i>	<i>Y5061*</i>	<i>Y5061*</i>	<i>Y5061*</i>	<i>Y5061*</i>	<i>Y5061*</i>
<i>PH1592*</i>	<i>PH1592*</i>	<i>PH1592*</i>	<i>PH1592*</i>	<i>PH1592*</i>	<i>PH1592*</i>

		BY104904	BY117397	BY123983	BY150179
	FGC22222	BY213636	BY85691	FGC22214	FGC22216
	<i>FT44669*</i>	<i>FT44669*</i>	<i>FT44669*</i>	<i>FT44669*</i>	<i>FT44669*</i>
					Y93200

Y85741	FTA30715	BY114534	FTA32587	FTA33106
<i>FT164983*</i>	<i>FT164983*</i>	<i>FT164983*</i>	<i>FT164983*</i>	<i>FT164983*</i>
				FTA49860

Y19622	Y19623	BY19125	BY42892	F4530	<i>BY42892*</i>
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<i>FT79210*</i>
<i>FT79210*</i>

FT78748	FT77837	FT78948	FT79627	FT79642	FTB40251
	FT345684	FT345862	FT346407	<i>FT345684*</i>	<i>FT345684*</i>
				<i>FT345684*</i>	<i>FT345684*</i>

BY113327	FT117803	FT114729	<i>FT117803*</i>	<i>FT117803*</i>	<i>FT117803*</i>
			<i>FT117803*</i>	<i>FT117803*</i>	<i>FT117803*</i>

BY128981	BY63617	BY103213	BY55178	BY70290	BY71374
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FT195737	FT194863	FT195010	FT195191	FT195265	FT196851
FTB92093	FTT88	FTA81373	FTA56456	FTA78990	FTA94003

				<i>FTT86*</i>
				<i>FTT86*</i>
				<i>FTT86*</i>
				<i>FTT86*</i>
				<i>FTT86*</i>
			FTT87	<i>FTT87*</i>
				<i>FTT87*</i>
				<i>FTT87*</i>
FT142368	<i>FT142368*</i>	<i>FT142368*</i>	<i>FT142368*</i>	<i>FT142368*</i>
	<i>FT142368*</i>	<i>FT142368*</i>	<i>FT142368*</i>	<i>FT142368*</i>
				FT194987

PH3275				<i>BY67487*</i>

	BY67487	BY145330	FT93657	BY93729	BY87986
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FT437789	FTA94245
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FT45454	FT66080	FT67250	FT67898	FT68179	FT69061
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A13134*
A13134*
A13134*

BY96975	FT245906	FT244741	FT244901	FT246322	FT246826	
				<i>FT80834*</i>	<i>FT80834*</i>	<i>FT80834*</i>
				<i>FT80834*</i>	<i>FT80834*</i>	<i>FT80834*</i>

BY19118	BY180989	BY19119	BY19120		
				BY19121	BY19122

7	6	5	4	3	2
1560	1625	1690	1755	1820	1885
<i>BY72962*</i>	<i>BY72962*</i>	<i>BY72962*</i>	<i>BY72962*</i>	<i>BY72962*</i>	<i>BY72962*</i>
<i>BY72962*</i>	<i>BY72962*</i>	<i>BY72962*</i>	<i>BY72962*</i>	<i>BY72962*</i>	<i>BY72962*</i>
<i>Y5061*</i>	<i>Y5061*</i>	<i>Y5061*</i>	<i>Y5061*</i>	<i>Y5061*</i>	<i>Y5061*</i>
<i>PH1592*</i>	<i>PH1592*</i>	<i>PH1592*</i>	<i>PH1592*</i>	<i>PH1592*</i>	<i>PH1592*</i>
BY150180	FT164986	FT62387	FT62696	FT62765	BY104904*
					BY133282
FGC22219	FGC22221	FGC22223	FGC31184	FGC31186 (William John Kennedy)	FGC87070
<i>FT44669*</i>	<i>FT44669*</i>	<i>FT44669*</i>	<i>FT44669*</i>	<i>FT44669*</i>	<i>FT44669*</i>
FT31318	FT30741	FT30533	FT30341	FT30279	FT29915

FTA33107	FTA35369	FTA35488	FTA97811	FTA97826	ZS4420
<i>FT164983*</i>	<i>FT164983*</i>	<i>FT164983*</i>	<i>FT164983*</i>	<i>FT164983*</i>	<i>FT164983*</i>
FTA54572	<i>FTA49860*</i>	<i>FTA49860*</i>	<i>FTA49860*</i>	<i>FTA49860*</i>	<i>FTA49860*</i>
	<i>FTA49860*</i>	<i>FTA49860*</i>	<i>FTA49860*</i>	<i>FTA49860*</i>	<i>FTA49860*</i>

				<i>BY19125*</i>	<i>BY19125*</i>
<i>BY42892*</i>	<i>BY42892*</i>	<i>BY42892*</i>	<i>BY42892*</i>	<i>BY42892*</i>	<i>BY42892*</i>
		Y53835	BY58951	BY220584	BY148600 (William E. Foley, 1959)
	FT7568		FT8753	<i>FT8753*</i>	<i>FT8753*</i>
				<i>FT8753*</i>	<i>FT8753*</i>
				FT8305	<i>FT8305*</i>
			BY67158	BY135952	FT74235
	BY170015	<i>BY170015*</i>	<i>BY170015*</i>	<i>BY170015*</i>	<i>BY170015*</i>
		FT363697	MF68562	<i>FT363697*</i>	<i>FT363697*</i>
				<i>FT363697*</i>	<i>FT363697*</i>
<i>FT79210*</i>	<i>FT79210*</i>	<i>FT79210*</i>	<i>FT79210*</i>	<i>FT79210*</i>	<i>FT79210*</i>
<i>FT79210*</i>	<i>FT79210*</i>	<i>FT79210*</i>	<i>FT79210*</i>	<i>FT79210*</i>	<i>FT79210*</i>
FTB42504	<i>FT78748*</i>	<i>FT78748*</i>	<i>FT78748*</i>	<i>FT78748*</i>	<i>FT78748*</i>
	<i>FT78748*</i>	<i>FT78748*</i>	<i>FT78748*</i>	<i>FT78748*</i>	<i>FT78748*</i>
<i>FT345684*</i>	<i>FT345684*</i>	<i>FT345684*</i>	<i>FT345684*</i>	<i>FT345684*</i>	<i>FT345684*</i>
<i>FT345684*</i>	<i>FT345684*</i>	<i>FT345684*</i>	<i>FT345684*</i>	<i>FT345684*</i>	<i>FT345684*</i>
					BY113327*
<i>FT117803*</i>	<i>FT117803*</i>	<i>FT117803*</i>	<i>FT117803*</i>	<i>FT117803*</i>	<i>FT117803*</i>
<i>FT117803*</i>	<i>FT117803*</i>	<i>FT117803*</i>	<i>FT117803*</i>	<i>FT117803*</i>	<i>FT117803*</i>
PF727			<i>PF727*</i>	<i>PF727*</i>	<i>PF727*</i>
			<i>PF727*</i>	<i>PF727*</i>	<i>PF727*</i>
	FGC63008	<i>FGC63008*</i>	<i>FGC63008*</i>	<i>FGC63008*</i>	<i>FGC63008*</i>

	FGC63008	FGC63008*	FGC63008*	FGC63008*	FGC63008*
		BY80957*	BY80957*	BY80957*	BY80957*
BY87247	FT112433	FT112434	FT24604	BY63617*	BY63617*
				BY63617*	BY63617*
				BY63617*	BY63617*
				BY63617*	BY63617*
				BY63617*	BY63617*
					BY90908
			FTT85*	FTT85*	FTT85*
FT196966	FT197171	FT196916	FT195447	FT195737*	FT195737*
				FT196916*	FT196916*
				MF11901	MF2443
FTA94015	FTC6665	FTC6666	Y253271	Y253472	Y25725
				FTT89	FTT89*
					FTT89*
	FT365791	FT365791*	FT365791*	FT365791*	FT365791*
		FT365791*	FT365791*	FT365791*	FT365791*
FTT86*	FTT86*	FTT86*	FTT86*	FTT86*	FTT86*
FTT86*	FTT86*	FTT86*	FTT86*	FTT86*	FTT86*
FTT86*	FTT86*	FTT86*	FTT86*	FTT86*	FTT86*
FTT86*	FTT86*	FTT86*	FTT86*	FTT86*	FTT86*
FTT86*	FTT86*	FTT86*	FTT86*	FTT86*	FTT86*
FTT86*	FTT86*	FTT86*	FTT86*	FTT86*	FTT86*
FTT87*	FTT87*	FTT87*	FTT87*	FTT87*	FTT87*
FTT87*	FTT87*	FTT87*	FTT87*	FTT87*	FTT87*
FTT87*	FTT87*	FTT87*	FTT87*	FTT87*	FTT87*
FT142368*	FT142368*	FT142368*	FT142368*	FT142368*	FT142368*
FT142368*	FT142368*	FT142368*	FT142368*	FT142368*	FT142368*
	FT194987*	FT194987*	FT194987*	FT194987*	FT194987*
FTT90					FTT90*
	BY75646	BY101266	FT197270		BY75646*
				FT196302	FT196303
					BY76168
Z29718	Z29718*	Z29718*	Z29718*	Z29718*	Z29718*
	Z29718*	Z29718*	Z29718*	Z29718*	Z29718*
BY67487*	BY67487*	BY67487*	BY67487*	BY67487*	BY67487*
		BY93729*	BY93729*	BY93729*	BY93729*

FT16292	FT93645	BY93729*	BY93729*	BY93729*	BY93729*
		BY75174	BY101063	BY7771 (Patrick Ryan 1700-1847)	MF44546
			BY19114*	BY19114*	BY19114*
FT437789*	FT437789*	FT437789*	FT437789*	FT437789*	FT437789*
FT437789*	FT437789*	FT437789*	FT437789*	FT437789*	FT437789*
FT69129	FTA20682	Y52323	FT67687*	FT67687*	FT67687*
			FT67687*	FT67687*	FT67687*
BY19115	BY19116	BY19117	BY19115*	BY19115*	BY19115*
			BY19115*	BY19115*	BY19115*
A13134*	A13134*	A13134*	A13134*	A13134*	A13134*
A13134*	A13134*	A13134*	A13134*	A13134*	A13134*
A13134*	A13134*	A13134*	A13134*	A13134*	A13134*
			BY96975*	BY96975*	BY96975*
FT246827	FT246923	FT247299	FT354117	FT245906*	FT245906*
				FT245906*	FT245906*
FT80834*	FT80834*	FT80834*	FT80834*	FT80834*	FT80834*
FT80834*	FT80834*	FT80834*	FT80834*	FT80834*	FT80834*
				BY19118*	BY19118*
				BY19118*	BY19118*
BY19123	BY19124	BY44043	YP617	BY19121*	BY19121*
				BY19121*	BY19121*

1	FTDNA	Surname	Country	County	Sept
1950	Kit No.	of MRKA	of origin		or clan
<i>BY72962*</i>	B9092	Shine	Ireland		
<i>BY72962*</i>	145027	Naughton	unknown		
<i>Y5061*</i>	121153	Wilkinson	England		
<i>PH1592*</i>	B509695	Ryan	Ireland		
<i>BY104904*</i>	?	?	unknown		
<i>BY133282*</i>	809481	Condry	USA		
<i>BY133282*</i>	50661	Condra	unknown		
<i>FGC22222*</i>	342178	Kennedy	Ireland		
<i>FGC22222*</i>	59497	Kennedy	Ireland		
<i>FT44669*</i>	446571	Lynch	Ireland		
<i>FT30198</i>	?	<i>Carroll</i>	Ireland		
<i>Y85741*</i>	472126	Ryan	Ireland		
<i>FTA30715*</i>	?	?	unknown		
<i>FTA30715*</i>	?	?	unknown		
<i>FT164983*</i>	B511191	O'Neil	Ireland		
<i>FTA49860*</i>	?	?	Ireland		O'Dwyer
<i>FTA49860*</i>	319596	Welch	unknown		
<i>BY19125*</i>	?	?	Ireland		
<i>BY42892*</i>	?	?	Ireland		
<i>FT144147</i>	79047	Foley	USA		
	712364	Foley	USA		
<i>FT8753*</i>	302601	Dwyer	Ireland		
<i>FT8753*</i>	241170	Dwyer	Ireland		
<i>FT8305*</i>	144981	Dwyer	Ireland	Tipperary	
<i>FT8305*</i>	931335	Dwyer	Ireland	Cork	
<i>BY67158*</i>	743776	O'Dwyer	Ireland	Tipperary	
<i>BY67158*</i>	?	?	Ireland		
<i>BY170015*</i>	828586	<i>Sexton</i>	unknown		
<i>FT363697*</i>	B380353	Sexton	Ireland		
<i>FT363697*</i>	?	?	Ireland		
<i>FT79210*</i>	198624	Carroll	Ireland	Limerick	
<i>FT79210*</i>	?	?	Ireland		
<i>FT78748*</i>	459971	Carroll	Ireland		
<i>FT78748*</i>	?	?	unknown		
<i>FT345684*</i>	722931	Tangney	Ireland	Kerry	
<i>FT345684*</i>	73256	Bates	Canada		
<i>BY113327*</i>	26963	Egan	Ireland	Clare	
<i>FT117803*</i>	B1061	Lynch	unknown	Kerry	
<i>FT117803*</i>	?	?	unknown		
<i>PF727*</i>	169776	Cahoo	Ireland		
<i>PF727*</i>	?	?	unknown		
<i>FGC63008*</i>	152505	Hogan	Ireland		

FGC63008*	B215769	Keogh	Ireland	Tipperary	
BY80957*	495701	Ryan	Ireland		
BY63617*	314384	Kennedy	Ireland		
BY63617*	N2331	Kennedy	Ireland		
BY63617*	418667	Kennedy	UK		
BY63617*	?	?	unknown		
BY63617*	?	?	unknown		
BY90908*	207164	Kennedy	Ireland		
BY90908*	?	?	Ireland		
BY90908*	312204	Cannady	UK		
BY90908*	?	?	unknown		
FTT85*	155150	Butler	unknown		
FT195737*	?	?	unknown		
FT196916*	533718	Ryan	Ireland		
FT195447*	B597170	Ellis	unknown		
FT195447*	918080	Ellis	unknown		
FTA81373*	B741284	Ryan	Ireland	Tipperary	
FTA81373*	?	?	Ireland		
FTT89*	N37009	Ryan	Ireland		
FTT89*	N88747	Dwyer	Ireland	Tipperary	
FT365791*	951808	Shannon	Canada		
FT365791*	612473	Mulryan	unknown		
FTT86*	B8280	Ryan	Ireland	Tipperary	
FTT86*	B167367	Ryan	Ireland	Tipperary	
FTT86*	349432	Ryan	Ireland		
FTT86*	N8564	Ryan	Ireland	Wexford	
FTT86*	N41376	Ryan	Ireland	Limerick	
FTT87*	817129	Ryan	Ireland		
FTT87*	37145	Ryan	Ireland	Kilkenny	
FTT87*	?	?	unknown		
FT142368*	504898	Quigley	Ireland		
FT142368*	B513196	Ryan	Ireland		
FT194987*	B79146	Ryan	Ireland		
FTT90*	325245	Ryan	Ireland	Tipperary	
BY75646*	?	?	unknown		
FT196302*	172748	Whelan	Ireland		
FT196302*	?	?	unknown		
BY76168*	115560	Smith	unknown		
BY76168*	216949	Fuller	unknown		
BY76168*	?	?	unknown		
Z29718*	338080	Ryan	Ireland		
Z29718*	?	?	Ireland		
BY67487*	B348225	Ryan	Ireland	Tipperary	
BY93729*	712997	Ryan	Ireland		

Clan Ó
Maoilriaghain
(Ryan)

<i>BY93729*</i>	876930	<i>Judd</i>	unknown		
<i>BY75174*</i>	B144574	Ryan	Ireland	Tipperary	
<i>BY75174*</i>	B405717	Ryan	Ireland		
<i>BY19114*</i>	?	?	USA		
<i>FT437789*</i>	?	?	Ireland		
<i>FT437789*</i>	?	?	unknown		
<i>FT67687*</i>	?	?	Ulster		
<i>FT67687*</i>	797504	Davis	USA		
<i>BY19115*</i>	305367	Carrow	USA		
<i>BY19115*</i>	273017	?	unknown		
<i>A13134*</i>	48732	Donovan	Ireland	Cork	
<i>A13134*</i>	935438	Walsh	Ireland		
<i>A13134*</i>	182120	Kelly	Ireland	Galway	
<i>BY96975*</i>	B100083	Sheehy	Ireland		
<i>FT245906*</i>	IN78953	<i>Gorman</i>	unknown		
<i>FT245906*</i>	?	?	unknown		
<i>FT80834*</i>	?	?	Ireland		Cosgrave
<i>FT80834*</i>	?	?	Ireland		
<i>BY19118*</i>	IN101155	Cosgriff	Ireland		
<i>BY19118*</i>	?	?	Ireland		
<i>BY19121*</i>	556125	Cosgrove	Ireland		
<i>BY19121*</i>	B52811	Cosgrove	Ireland		

Mutation Age Time	16	15	14	13	12	
	975	1040	1105	1170	1235	
L362 et al. (17 SNPs) 260 BC to 910 AD one male line; Cellachán Caisil > Donnchadh mac Cellachán	ZS4606 > FGC76198 (Saorbhreathach mac Donnchadh > Carthach d. 1045 > Muireadhach mac Carthaigh)	(Cormac)			FT28017 (Cormac Fionn d. 1248)	BY60395
		ZS4608 (Tadhg Mac Carthaigh)	A5813			

			ZS4598 > FGC76176	ZZ50_1 > ZZ50_2 (Domhnall Got Mac Cárthaigh ~1190-1251)	FT92629 > FT63860
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11	10	9	8	7	6
1300	1365	1430	1495	1560	1625
A11018 (Murchadh mac Donnchadh?)	FTC14264				A11018*
					A11018*
		BY80822	BY80822*	BY80822*	BY80822*
			BY80822*	BY80822*	BY80822*
				FTC1346	FTC4978
ZS4606*	ZS4606*	ZS4606*			

A10864 (Dermot MacCarthy, 1310–1367)	A10865	FT29681	FT29681*	FT29681*	FT29681*
			FT29681*	FT29681*	FT29681*
	A9070 (Dónal Mór, king of Desmond 1359-1390)?				A10866
			A9070*		
			A9070*		
			A9070*		
			A9070*		
			A9070*		
			A9070*		
			A9070*		

				FTC7212	FTC48221
FGC76174	FGC76179 > FGC76180	FGC76193	FGC76194	FGC76196	FGC76202
		FT91281			
			FT91236	A15233	FT90971

ZZ50_1*
ZZ50_1*
ZZ50_1*
FTC17097*

FTC17097	BY140627	BY158675.1	FTB95834	FTB95920 > FTB96527	FTB96782 > FTB96885
					FT63868

FGC1058	A10926	BY43194	FT110394	BY82013

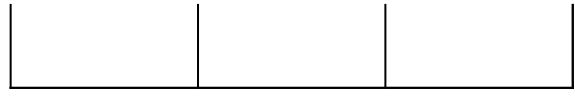
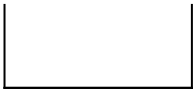
5	4	3	2	1	FTDNA
1690	1755	1820	1885	1950	Kit No.
A11018*	A11018*	A11018*	A11018*	A11018*	285299
A11018*	A11018*	A11018*	A11018*	A11018*	N133144
BY80822*	BY80822*	BY80822*	BY80822*	BY80822*	248120
BY80822*	BY80822*	BY80822*	BY80822*	BY80822*	229053
FTC1346*	FTC1346*	FTC1346*	FTC1346*	FTC1346*	N104486
FTC1346*	FTC1346*	FTC1346*	FTC1346*	FTC1346*	965026
ZS4606*	ZS4606*	ZS4606*	ZS4606*	ZS4606*	B45157
A5813*	A5813*	A5813*	A5813*	A5813*	312546
A5813*	A5813*	A5813*	A5813*	A5813*	80166
A5813*	A5813*	A5813*	A5813*	A5813*	708549
A5813*	A5813*	A5813*	A5813*	A5813*	910152
A5813*	A5813*	A5813*	A5813*	A5813*	?
A5813*	A5813*	A5813*	A5813*	A5813*	?
BY44761	BY44735	BY44761*	BY44761*	BY44761*	510546
			FT160439	FT160439*	IN68011
				FT160439*	771230
FT29681*	FT29681*	FT29681*	FT29681*	FT29681*	469541
FT29681*	FT29681*	FT29681*	FT29681*	FT29681*	765825
A10867	A10868	CTS1823	A10866*	A10866*	109330
			A10866*	A10866*	?
A9070*	A9070*	A9070*	A9070*	A9070*	639321
A9070*	A9070*	A9070*	A9070*	A9070*	288588
A9070*	A9070*	A9070*	A9070*	A9070*	219504
A9070*	A9070*	A9070*	A9070*	A9070*	435873
A9070*	A9070*	A9070*	A9070*	A9070*	B23719
A9070*	A9070*	A9070*	A9070*	A9070*	956422
A9070*	A9070*	A9070*	A9070*	A9070*	?
A9070*	A9070*	A9070*	A9070*	A9070*	510547
			ZS4598*	ZS4598*	234099
			ZS4598*	ZS4598*	B55291
			ZS4598*	ZS4598*	386090
			ZS4598*	ZS4598*	510544
FTC8791	FTC8980	Y70207	FTC7212*	FTC7212*	365903
			FTC7212*	FTC7212*	IN17730
FT225359	FT225360	BY60395*	BY60395*	BY60395*	148491
		BY60395*	BY60395*	BY60395*	423749
			FGC76181	FGC76181*	489004
		FT91281*	FT91281*	FT91281*	263424
FT91236*	FT91236*	FT91236*	FT91236*	FT91236*	503924
FT91236*	FT91236*	FT91236*	FT91236*	FT91236*	IN75400
			BY118659	BY118659*	N51416
			BY118659	BY118659*	365045

<i>ZZ50_1*</i>	<i>ZZ50_1*</i>	<i>ZZ50_1*</i>	<i>ZZ50_1*</i>	<i>ZZ50_1*</i>	410615
<i>ZZ50_1*</i>	<i>ZZ50_1*</i>	<i>ZZ50_1*</i>	<i>ZZ50_1*</i>	<i>ZZ50_1*</i>	10119
<i>ZZ50_1*</i>	<i>ZZ50_1*</i>	<i>ZZ50_1*</i>	<i>ZZ50_1*</i>	<i>ZZ50_1*</i>	6839
<i>FTC17097*</i>	<i>FTC17097*</i>	<i>FTC17097*</i>	<i>FTC17097*</i>	<i>FTC17097*</i>	13771
		<i>BY140627*</i>	<i>BY140627*</i>	<i>BY140627*</i>	211886
		<i>BY140627*</i>	<i>BY140627*</i>	<i>BY140627*</i>	IN43493
		<i>BY140627*</i>	<i>BY140627*</i>	<i>BY140627*</i>	776439
<i>FTB98952 > FTB98957</i>	<i>FTB98979 > FTB99058</i>	<i>FTC17125 > TY10848</i>	<i>FTB95834*</i>	<i>FTB95834*</i>	865992
			<i>FTB95834*</i>	<i>FTB95834*</i>	284831
		<i>FT63868*</i>	<i>FT63868*</i>	<i>FT63868*</i>	886150
Z29544		<i>Z29544*</i>	<i>Z29544*</i>	<i>Z29544*</i>	289928
		<i>Z29544*</i>	<i>Z29544*</i>	<i>Z29544*</i>	N61739
	FT244166	<i>FT244166*</i>	<i>FT244166*</i>	<i>FT244166*</i>	177666
		<i>FT244166*</i>	<i>FT244166*</i>	<i>FT244166*</i>	6326
		FT229534	<i>FT229534*</i>	<i>FT229534*</i>	457022
			<i>FT229534*</i>	<i>FT229534*</i>	374672
	BY7779.2	BY7779	<i>BY7779*</i>	<i>BY7779*</i>	450808
			<i>BY7779*</i>	<i>BY7779*</i>	566152
	<i>FGC1058*</i>	<i>FGC1058*</i>	<i>FGC1058*</i>	<i>FGC1058*</i>	222616
	<i>FGC1058*</i>	<i>FGC1058*</i>	<i>FGC1058*</i>	<i>FGC1058*</i>	273453
	<i>FGC1058*</i>	<i>FGC1058*</i>	<i>FGC1058*</i>	<i>FGC1058*</i>	790809
FT110894	FT111497	<i>BY82013*</i>	<i>BY82013*</i>	<i>BY82013*</i>	IN61128
		<i>BY82013*</i>	<i>BY82013*</i>	<i>BY82013*</i>	679132

Surname of MRKA	Country of origin	County or city	Sept or clan
Callaghan	Ireland	Cork	O'Callaghan
Callahan	Ireland		
Callaghan	Ireland		
Shea	Ireland		
Callahan	Ireland		
O'Callaghan	Ireland		
Carter	unknown		
McCarty	Ireland		
Sullivan	Ireland		
McCarthy	Ireland	Waterford	
O'Neill	Ireland		
?	Ireland		
?	unknown		
McCarthy	Ireland	Kerry	McCarthy Dullhallow
McCarthy	Ireland	Kerry	
McCarthy	Ireland	Kerry	
MacCarthy	Ireland	Cork	McCarthy Muskerry
McCarthy	Ireland		
Kelly	Ireland		
?	unknown		
McCarthy	Ireland		McCarthy Mór
McCarthy	Ireland	Cork	
McCarthy	Ireland		
Sullivan	Ireland		
McCarthy	Ireland	Kerry	
McCarthy	Ireland		
?	Ireland		
McCarthy	unknown		
McCarthy	Ireland		
McCarthy	Ireland		
Perry	Ireland		
McCarthy	unknown	Cork	
McCarthy	Ireland		
McCarthy	unknown		
McCarthy	Ireland	Cork	
Watson	USA		
Lynch	Ireland		
McCarthy	Ireland		
McCarthy	Ireland	Kerry	
McCarthy	Ireland	Cork	
Daley	Ireland	Cork	
Doneghue	unknown		

McCarthy	Ireland		McCarthy Reagh
McCarthy	Ireland	Cork	
McCarthy	Ireland		
Mahoney	Ireland	Cork	
McCarthy	Ireland	Cork	
<i>Baker</i>	Ireland		
Stewart	unknown	Dublin	
McCarthy	Ireland	Cork	
McCarthy	Canada		
McCarthy	Ireland		
McCarthy	Ireland	Waterford	
McCarty	Ireland	Cork	
McCarthy	Ireland	Cork	
McCarthy	Ireland	Cork	
McCarthy	Ireland		
McCarthy	unknown		
McCarthy	Ireland	Cork	
McCarthy	unknown		
McCarthy	Ireland	Cork	
McCarthy	Ireland		
McCarthy	USA		
McCarthy	Ireland		
Daly	Ireland	Cork	

18	17	16	15	14	13
845	910	975	1040	1105	1170
<p>YP984 et al. (Ímar r. 857-873) sons: Bárid, Sitriuc, Sichfrith; grandsons: Ragnall, Ímar, Sitric Cáech, Amlaíb, Gofraid</p>	<p>YP983 > PF4661 (Cammán mac Amlaib mac Gofraid?) active in 960s</p>	<p>Y11196> Y11848.1</p>	<p>YP988 > YP993 (possibly Richard Comyn 1115- 1179)</p>	<p>YP992</p>	<p>FT81509</p>
					<p>YP1415</p>
				<p>BY15853</p>	<p>BY30731</p>



12	11	10	9	8	7
1235	1300	1365	1430	1495	1560

Y11819	YP3934	FT81651	YP3935	YP3932	FT220649

YP1425	YP1413	FT353718	YP1416	YP1417	
					YP1414

BY30734	BY30735	BY30736	BY30737	DV20722	
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				DT30732	Y130457
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6	5	4	3	2	1
1625	1690	1755	1820	1885	1950
			YP983*	YP983*	YP983*
			YP983*	YP983*	YP983*
			YP983*	YP983*	YP983*
		BY214906	Y100188	Y93905	Y89180
A13332	A13334	A13332*	A13332*	A13332*	A13332*
			FT80930	FT80930*	FT80930*
				FT80930*	FT80930*
			A12660	FT110075	A12660*
					A12660*
					A12660*
	YP992*	YP992*	YP992*	YP992*	YP992*
			FT81618	FT81618*	FT81618*
				(James Cummings)	Y44254*
					Y44254*
			YP3934*	YP3934*	YP3934*
					YP3932*
FT81714	YP3933	James Ballard Cummins, b. 1784 VA d. 1852 IN		FT286888	FT286888*
					FT286888*
					FT286888*
		Y16153	FT82269	Y16153*	Y16153*
				Y16153*	Y16153*
		BY81254	BY125572	MF53249	BY81254*
					BY81254*
	FT201202	BY145906	FT201202*	FT201202*	FT201202*
			FT201202*	FT201202*	FT201202*
YP6059	BY30897	FT349666			YP6059*
					YP6059*
				A16339	A16339*
					A16339*
				A16338	A16338*
					A16338*
			BY63123	BY102303	BY111216
FT155623	FT155716	Y13520	Y6431	YP1424	YP1414*
					YP1414*
					YP1414*
					YP1414*
					BY15853*
				BY30731*	BY30731*
				BY30732*	BY30732*
				Y130457*	Y130457*

FT109690	FT109984	FT111302	Y129993	FT204090	FT204436
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FTDNA kit no.	MKNA	Country	Ui Imar?
295615	Cummings	UK	Clan Comyn / Cumming
B2331	Cummins	Scotland	
?	?	unknown	
309998	Cumings	USA	
940597	Cumings	USA	
		Ulster	
56559	Cummins	USA	
?	?	USA	
?	?	Scotland	
202514	Bennett	England	
?	?	USA	
85098	Cummins	Ireland	
N43943	Cummings	Scotland	
N113881	Cummings	Ulster	
505553	Cummings	Ulster	
393547	Cummings	Scotland	
?	?	unknown	
604516	Cummins	USA	
307444	Cummins	USA	
?	?	USA	
211237	Taylor	unknown	
381241	Cummins	unknown	
?	?	Scotland	
?	?	USA	
?	?	England	
?	?	England	
22763	Jacobs	England	
501132	Connell	USA	
417774	<i>Jacob</i>	unknown	
		unknown	
9988	Jacob	UK	
?	?	unknown	
?	?	unknown	
?	?	unknown	
250336	Kemp	Ireland	Kemp family Cavan
N73460	Kempton	Ireland	
278816	Kemp	Ireland	
269190	Kemp	Ireland	
208117	Adams	Ulster	
?	?	England	
?	?	Ulster	
724352	Small	Scotland	

MK63708	Small	Scotland	
?	?	Scotland	

9	8	7	6	5	4	3	2	1
1430	1495	1560	1625	1690	1755	1820	1885	1950
			Y34445*	Y34445*	Y34445*	Y34445*	Y34445*	Y34445*
BY22819	BY22799	Y34447	BY22819*	BY22819*	BY22819*	BY22819*	BY22819*	BY22819*
			BY22819*	BY22819*	BY22819*	BY22819*	BY22819*	BY22819*
			BY22819*	BY22819*	BY22819*	BY22819*	BY22819*	BY22819*
				Y101366	Y108159	Y110923	Y81783	Y101366*
								Y101366*
			Y30046*	Y30046*	Y30046*	Y30046*	Y30046*	Y30046*
			FTB9377	FTB9478	FTB9377	FTB9377	FTB9377	FTB9377
			8	1	8*	8*	8*	8*
					8*	8*	8*	8*
				Y30043*	Y30043*	Y30043*	Y30043*	Y30043*
							BY48593*	BY48593*
							BY48593*	BY48593*
				A17051*	A17051*	A17051*	A17051*	A17051*
				A17051*	A17051*	A17051*	A17051*	A17051*
		FT37748	FT378348	FT378627	FT378698	FT429897	FT377482	FT377482
		2					*	*
			BY35367	BY35367*	BY35367*	BY35367*	BY35367*	BY35367*
								BY35368
		BZ4606	Y112727	FTA4044	FTA4135	FTA4331	FTA4044	FTA4044
				6	1	3	FTA4044	6*
							FTB6230	FTB6230*
								FTB6230*
		FT18575	BY5324	FT189059	FT189292	A25902	FT448819	FT189292
		2						*
							FT346285	FT346285
							FT346285	FT346285
								*
Y16301	FT26970	FT36788	FT269763	FT269763	FT269763	FT269763	FT269763	FT269763
			FT269763	FT269763	FT269763	FT269763	FT269763	FT269763
			FT269703	FT269703	FT269703	FT269703	FT269703	FT269703
	3	8				FTA6242	Y92730	FTA6242
						0		0*
				A22912	FT106793	A22912*	A22912*	A22912*
						A22912*	A22912*	A22912*
						A22912*	A22912*	A22912*
						A22912*	A22912*	A22912*
BY17344	BY17345	FT9320	BY17344	BY17344	BY17344	BY17344	BY17344	BY17344
8	1		6*	6*	6*	6*	6*	6*
				FT198259	A20654	BY21806	FT198259	FT198259
						7	*	*
				BY17251	BY17251	BY17251	BY17251	BY17251
				3*	3*	3*	3*	3*

F121991				BY17251	BY17251	BY17251	BY17251	BY17251
6	BY17251	A17054	A17055	BY17251	BY17251	BY17251	BY17251	BY17251
	3			3*	3*	3*	3*	3*
						A17058	A17058*	A17058*
							A17058*	A17058*

FTDNA kit no.	MKNA	Country	
327728	Campbell	Scotland	McIntyre chiefs
386936	McIntyre	Scotland	
855713	McIntyre	Scotland	
?	?	Scotland	
962907	McIntire	Ireland	
554960	McIntire	USA	
?	?	unknown	McNeill family of Kintyre (Torquil of Tainish?)
?	?	Scotland	
423456	McDonald	USA	
IN36830	McNeill	Scotland	
218421	McNeill	Ulster	
953233	McNeil	unknown	
171088	McNeill	Scotland	
589179	McNeil	unknown	
MK60592	Dickson	unknown	
		unknown	
		unknown	
		Ireland	
149068	Neely	unknown	
		Ireland	
		Ireland	
		Ireland	
		Ireland	
193440	McNeill	USA	
		unknown	
83106	McNeil	Scotland	
B616995	McNiel	USA	
951059	McNiel	USA	
NI46438	McNeill	Scotland	
IN70744	McNeil	Scotland	
443411	McNeill	Scotland	
945523	McNeill	unknown	
		unknown	
B188220	McNeal	Ireland	
210364	McNeill	Ireland	
856616	McNeil	Ireland	
672218	McNeil	Scotland	
		unknown	
		unknown	
258545	McNeill	Scotland	
387473	Farrigan	USA	
249829	McNeill	Scotland	

454446	McNeill	Scotland	
		unknown	
135282	McNeill	Scotland	
N19552	McNeill	Scotland	

<p>A1487 et al. (26 SNPs) under DF13>FGC5 494; including Lóegaire Birn Búadach 1st- 2nd century AD; branching 1170 BCE</p>	<p>A1499 (Fáelán mac Crundmaíl ?- 660)</p>	<p>A18402 (Cú Cherca mac Fáeláin ?- 712)</p>	<p>FT12115 (Anmchad mac Con Cherca ?- 760)</p>	<p>FT56449 (Fergal mac Anmchada ?- 802 > Dúngal mac Fergaile ?- 842; King of Osraige 802- 842)</p>	<p>A1506 (Cerball mac Dúnlainge ?- 888)</p>
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17	16	15	14	13	12
910	975	1040	1105	1170	1235
FT109966	FT110533	FT110808	FT111381	FT111647	FT111732

BY89649	FT150066	FT148518	FTA46002	FT150066*	
				FT150066*	
		BY140757	BY203414	FT154477	FT69981
					FT12974

A18397
(Ceallach
mac
Cerbail ?-
908) >
FT265133
(Donnchad
mac Ceallach
?-976)

A1496 (Gilla
Pátraic mac
Donnchada ?
-996)

A18404

FT11742 >
FT56455

Y89738

A1488 >
A1493

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11	10	9	8	7	6
1300	1365	1430	1495	1560	1625
FT111892	FT111938	FT112186	FT112275	FT265182	FT265183
		A1499*	A1499*	A1499*	A1499*
			BY114550	BY122661	BY114550*
					BY114550*
FT150066*	FT150066*	FT150066*	FT150066*	FT150066*	FT150066*
	FT149180	FT149682	FT149180*	FT149180*	FT149180*
			FT149180*	FT149180*	FT149180*
			FT149180*	FT149180*	FT149180*
			BY73271	BY132540	BY156958
			FTA81953	FTA84661	FTA84721
		FGC42305	BY202403	FGC42305*	FGC42305*
					FT69981*

FT124531	FT70038	FT101028	FT70340	FT70341	FT70434
A1496*	A1496*	A1496*	A1496*	A1496*	A1496*
				FT12974*	FT12974*

FT12563	FT13651 > FT14089	Y64417	FTA94173	FTA93775	FTA94077
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			A26935	FTA88114
		FT153356	FT152339 > FT154542	FT154779 > FT155204
				<i>FT153356*</i>
				<i>FT153356*</i>
				<i>A1488*</i>
				<i>A1488*</i>
			FT441949	FT435360
				<i>FT441949*</i>
				<i>FT441949*</i>

FT206758	FT206852	FT21068			
			FT207657	<i>FT207657*</i>	<i>FT207657*</i>
		A18403			
			A18396	A18395	A18399
			BY116564	BY120474	BY141610

FT11900 > A23669

FT48620	FT358036	FT49556
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FT310409	FT308113
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	A1497	FT11648	A1489	A1490	BY193018
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5	4	3	2	1	FTDNA
1690	1755	1820	1885	1950	Kit No.
FT265184	FT27736	MF99362	FT111213*	FT111213*	40250
			FT111213*	FT111213*	134335
A1499*	A1499*	A1499*	A1499*	A1499*	52919
BY114550*	BY114550*	BY114550*	BY114550*	BY114550*	153145
BY114550*	BY114550*	BY114550*	BY114550*	BY114550*	?
FT150066*	FT150066*	FT150066*	FT150066*	FT150066*	121917
FT149180*	FT149180*	FT149180*	FT149180*	FT149180*	195635
FT149180*	FT149180*	FT149180*	FT149180*	FT149180*	?
FT149180*	FT149180*	FT149180*	FT149180*	FT149180*	943425
BY200729	BY73271*	BY73271*	BY73271*	BY73271*	193583
	BY73271*	BY73271*	BY73271*	BY73271*	?
FTA81953*	FTA81953*	FTA81953*	FTA81953*	FTA81953*	MI61604
FTA81953*	FTA81953*	FTA81953*	FTA81953*	FTA81953*	B389870
FGC42305*	FGC42305*	FGC42305*	FGC42305*	FGC42305*	?
BY202343	FT162541	BY202343*	BY202343*	BY202343*	186259
		BY202343*	BY202343*	BY202343*	334364
FT69981*	FT69981*	FT69981*	FT69981*	FT69981*	?
FT124531*	FT124531*	FT124531*	FT124531*	FT124531*	MI60585
			FT70038*	FT70038*	965915
			FT70038*	FT70038*	187527
			FT70038*	FT70038*	183756
			FT70038*	FT70038*	977395
			FT70038*	FT70038*	975968
			FT70038*	FT70038*	975165
	FTC4333	FTC4333*	FTC4333*	FTC4333*	568609
		FTC4333*	FTC4333*	FTC4333*	65270
Y10443	FT16576	Y10443*	Y10443*	Y10443*	978677
		Y10443*	Y10443*	Y10443*	93853
		Y10443*	Y10443*	Y10443*	974365
			FTB32101	FTB27810	961973
					360142
					976112
FT101136	FGC61114	FT102938	FT124530	FT101136*	59191
				FT101136*	N14925
				FT101136*	?
A1496*	A1496*	A1496*	A1496*	A1496*	770718
FT12974*	FT12974*	FT12974*	FT12974*	FT12974*	?
		Y64417*	Y64417*	Y64417*	B2693
		Y64417*	Y64417*	Y64417*	131194
FTC36161	ZS4778	FTA94173*	FTA94173*	FTA94173*	134550
		FTA94173*	FTA94173*	FTA94173*	344597
	A26935*	A26935*	A26935*	A26935*	787863

FTA87786	FTA97769	FTA88114*	FTA88114*	FTA88114*	9622
		FTA88114*	FTA88114*	FTA88114*	?
FT153356*	FT153356*	FT153356*	FT153356*	FT153356*	B248653
FT153356*	FT153356*	FT153356*	FT153356*	FT153356*	73755
A1488*	A1488*	A1488*	A1488*	A1488*	171782
A1488*	A1488*	A1488*	A1488*	A1488*	?
FT441949*	FT441949*	FT441949*	FT441949*	FT441949*	B3696
FT441949*	FT441949*	FT441949*	FT441949*	FT441949*	98182
		FT206758*	FT206758*	FT206758*	MI57288
		FT206758*	FT206758*	FT206758*	MI60583
		FT206758*	FT206758*	FT206758*	?
FT207657*	FT207657*	FT207657*	FT207657*	FT207657*	MK29941
		FT267777	FT267777*	FT267777*	H2241
			FT267777*	FT267777*	472402
				A18403*	H1626
		FT247035	FT245038	FT245517	?
FT255771	A18396*	A18396*	A18396*	A18396*	403759
	A18396*	A18396*	A18396*	A18396*	?
BY182510	BY57882	PF4285	BY94251	BY94251*	929695
				BY94251*	?
			BY183483	BY182768	855441
					483446
?					
					FT11900*
					FT11900*
					FT11900*
FTA91331	FTA90249	FTA78798	FTA77643	FTA77781	H1225
					?
					?
					?
					?
					?
	FT248456	FT249832	FT248456*	FT248456*	IN90292
			FT248190	FT248190*	IN90289
				FT248190*	IN71111
FT51360	MF39043	FT48620*	FT48620*	FT48620*	236400
		FT48620*	FT48620*	FT48620*	166938
A1497*	A1497*	A1497*	A1497*	A1497*	362840
A1497*	A1497*	A1497*	A1497*	A1497*	H1648
A1497*	A1497*	A1497*	A1497*	A1497*	?
A1497*	A1497*	A1497*	A1497*	A1497*	IN64323
FT310409*	FT310409*	FT310409*	FT310409*	FT310409*	953610
FT310409*	FT310409*	FT310409*	FT310409*	FT310409*	930000

FT14269	A1504	Y108017	A1489*	A1489*	IN63032
			A23668	BY220200	370119
				FT152581	786515
				400621	
FT190673		FT277506	FT276188	FT278540	IN59417
					?
	FT283838	FT190794	FT190643	FT190309	N52070
					?

Surname of MRKA	Country of origin	County or city	Sept or clan	
Dyer	England	Somerset		
Robinson	USA			
Sullivan	Ireland	Cork		
Butler	Ireland			
?	Ireland			
<i>Burke</i>	unknown			
Fitzgerald	Ireland			
?	Ireland			
O'Brien	USA			
Brennan	Ireland		Ua Braonáin (O'Brennan) of Uí Duach	
?	Ireland			
Brennan	Ireland	Klikenny		
Branham	England			
?	unknown			
Brennan	Ireland	Kilkenny		
Bourman	UK			
?	Ireland			
Brennan	Ireland	Kilkenny		
Branan	Ireland			
Brannen	Ireland			
Brannon	Ireland			
Branan	Wales			
Branan	USA			
Brannen	USA			
Brannan	Ireland			
Brannon	Ireland			
Branan	USA			
Brannan	USA			
Brannon	USA			
Branan	Ireland			
Branan	Ireland			
Branan	unknown			
Brannon	Ireland			
<i>May</i>	UK			
?	unknown			
Hennessy	Ireland			
?	unknown			Dalton
Dalton	Ireland			
Dalton	Ireland			
Dalton	Ireland			
d'Alton	unknown			
Daulton	Ireland	Tipperary		

Dalton	Ireland		Mac Giolla Phádraig (FitzPatrick)
?	unknown		
Dalton	Ireland	Kilkenny	
Dalton	Ireland	Waterford	
Costigan	Ireland	Kilkenny	
?	Ireland		
Fitzpatrick	Ireland		
Russell	unknown		
Fitzpatrick	Ireland		
Costigan	Ireland	Kilkenny	
?	unknown		
O'Meara	Ireland	Tipperary	
Fitzpatrick	Ireland		
Fitzpatrick	Canada		
Fitzpatrick	Ireland		
?	Ireland		
?	Ireland		
Fitzpatrick	Ireland		
?	unknown		
?	Ireland		
?	Ireland		
Fitzgerald	Ireland	Tipperary	
Fitzgerald	Ireland	Tipperary	
?	Ireland		
Fitzpatrick	Ireland		
?	Ireland		
Fitzpatrick	England		
Fitzpatrick	Ireland		
?	unknown		
?	unknown		
?	unknown		
?	unknown		
?	unknown		
Fitzpatrick	Ireland	Kilkenny	
Fitzpatrick	Ireland	Kilkenny	
Fitzpatrick	Ireland	Kilkenny	
Fitzpatrick	Ireland		
Mauldin	USA		
Fitzpatrick	Ireland	Tipperary	
Fitzpatrick	Ireland		
?	Ireland		
Fitzpatrick	unknown		
Patrick	USA		
<i>Gordon</i>	unknown		

Fitzpatrick	Ireland	Kilkenny
Fitzpatrick	Ireland	Kilkenny
Fitzpatrick	Ireland	Kilkenny
Fitzpatrick	Ireland	Kilkenny
Fitzpatrick	Ireland	Kilkenny
<i>Jon</i>	unknown	
?	unknown	
Dooley	Ireland	
?	unknown	

17	16	15	14	13	12
910	975	1040	1105	1170	1235
FGC48823 (Ceallach mac Finnachta?)	FT59732 (Tadhg Mór Ua Cellaigh ?- 1014)	Y125954	BY3437 (Conchobar Maenmaige Ua Cellaigh ?- 1180)	FT31965 (Domhnall Mor O'Kelly ?- 1224)	Y160492

FGC6560	FGC6569	FGC6571	FGC6573	FGC8074	FGC6549

11	10	9	8	7	6
1300	1365	1430	1495	1560	1625

BY74457	BY129072	BY149812	BY224851	FT174960	FTA27359
		FT32169	<i>FT32169*</i>	<i>FT32169*</i>	<i>FT32169*</i>
					BY68268
				BY24887	BY38744

BY3439	FT72773				FT11183
				BY3440	Y160102
		BY3446			
			BY24888	<i>BY24888*</i>	<i>BY24888*</i>

BY3441	BY43120				
		BY23458	BY23799	BY24135	BY38743

FT121319	FT122824	FT266225	FT251132

FT65057

BY72762	FT135143	FT165109	<i>BY72762*</i>	<i>BY72762*</i>	<i>BY72762*</i>
			<i>BY72762*</i>	<i>BY72762*</i>	<i>BY72762*</i>
				FT191127	<i>FT191127*</i>
					<i>FT191127*</i>

FGC6561	FGC6580	FGC6586	FT191146	BY87084
				BY99486

BY24815	<i>BY24815*</i>	<i>BY24815*</i>	<i>BY24815*</i>

5	4	3	2	1	FTDNA
1690	1755	1820	1885	1950	Kit No.
BY3442*	BY3442*	BY3442*	BY3442*	BY3442*	60472
	BY3437*	BY3437*	BY3437*	BY3437*	259127
	BY3437*	BY3437*	BY3437*	BY3437*	29416
	BY3437*	BY3437*	BY3437*	BY3437*	339040
	BY3437*	BY3437*	BY3437*	BY3437*	?
	BY3437*	BY3437*	BY3437*	BY3437*	?
	BY3437*	BY3437*	BY3437*	BY3437*	?
	BY3437*	BY3437*	BY3437*	BY3437*	?
	BY74457*	BY74457*	BY74457*	BY74457*	227854
FTA28970	FTB10683			FTA27359*	962629
		FTA27561	FTB13673	FTA27561*	SI11679
				FTA27561*	IN94818
FT32169*	FT32169*	FT32169*	FT32169*	FT32169*	IN57391
BY109151	BY97566	BY68268*	BY68268*	BY68268*	?
		BY68268*	BY68268*	BY68268*	?
		BY68268*	BY68268*	BY68268*	?
BY38745	A13153	BY24887*	BY24887*	BY24887*	299488
		A13153*	A13153*	A13153*	?
		A13153*	A13153*	A13153*	?
		BY3439*	BY3439*	BY3439*	598107
		BY3439*	BY3439*	BY3439*	?
		FT111183*	FT111183*	FT111183*	?
BY226160	BY226160*	BY226160*	BY226160*	BY226160*	B545441
	BY226160*	BY226160*	BY226160*	BY226160*	N249986
FT77519	Y160493			Y160102*	730068
				Y160102*	?
		FT56931	BY138336	BY64381	323714
					?
	FT71766	BY55396	BY127148	BY82177	864334
					160027
BY23806	BY38742	BY23735	BY24271	BY24271*	309988
				BY24271*	458768
	BY3446*	BY3446*	BY3446*	BY3446*	84928
	BY3446*	BY3446*	BY3446*	BY3446*	265425
	BY3446*	BY3446*	BY3446*	BY3446*	?
	BY3446*	BY3446*	BY3446*	BY3446*	866588
BY24888*	BY24888*	BY24888*	BY24888*	BY24888*	162015
		BY38746	BY38746*	BY38746*	B48097
			BY38746*	BY38746*	376080
			BY3441*	BY3441*	84938
			BY3441*	BY3441*	27822

			BY3441*	BY3441*	?	
		BY82015	Y141266	BY82015*	?	
				BY82015*	561163	
FT381717				BY23458*	151757	
	FT380857	BY216631	BY106844	BY100680	100219	
					267242	
	FGC6551*	FGC6551*	FGC6551*	FGC6551*	IN73409	
				FT121319*	?	
FT251132*	FT251132*	FT251132*	FT251132*	FT251132*	?	
FT252335	FT281631	FT252335*	FT252335*	FT252335*	?	
			MF101934	MF101934*	?	
				MF101934*	?	
		FT122754	FT122754*	FT122754*	?	
			FT122754*	FT122754*	?	
BY227189	FT191125	FT64578	FT65184	FT65057*	81092	
				FT65057*	?	
BY72762*	BY72762*	BY72762*	BY72762*	BY72762*	?	
BY72762*	BY72762*	BY72762*	BY72762*	BY72762*	?	
FT191127*	FT191127*	FT191127*	FT191127*	FT191127*	?	
FT191127*	FT191127*	FT191127*	FT191127*	FT191127*	?	
		FGC6549*	FGC6549*	FGC6549*	?	
		FGC6549*	FGC6549*	FGC6549*	?	
		BY87084*	BY87084*	BY87084*	272725	
		BY87084*	BY87084*	BY87084*	?	
			FT191126	FT191126*	IN68810	
				FT191126*	?	
BY129914	BY99486*	BY99486*	BY99486*	BY99486*	416890	
	BY99486*	BY99486*	BY99486*	BY99486*	?	
BY24815*	BY24815*	BY24815*	BY24815*	BY24815*	MI59217	
BY63115	BY125198	BY146489	BY63115*	BY63115*	B50516	
			BY63115*	BY63115*	?	
BY66862				BY66862*	N3722	
				BY66862*	?	
	FT195337	FT195337*	FT195337*	FT195337*	FT195337*	892707
		FT195337*	FT195337*	FT195337*	FT195337*	?
FT195337*		FT195337*	FT195337*	FT195337*	918478	

Surname of MRKA	Country of origin	County or city	Sept or clan
Pugh	Wales		
Kelly	Ireland	Galway	Ua Cellaigh (O'Kelly)
Egan	Ireland		
Keogh	Ireland		
?	Ireland		
?	Ireland		
?	Ireland		
?	unknown		
O'Kelly	Ireland		
Small	Scotland		
Small	Scotland		
Small	Scotland		
Kelly	Ireland	Roscommon	
?	Ireland		
?	Australia		
?	unknown		
Kelly	Ireland		
?	Ireland		
?	Ireland		
Kelly	USA		
?	unknown		
?	unknown		
Kelly	Ireland		
Kelly	Canada		
Kelly	Ireland	Roscommon	
?	Ireland		
Kelly	Ireland		
?	Ireland		
Madden	Ireland		
Madden	Ireland	Clare/ Limerick	
Townsend	UK		
Lloyd	Wales		
Kelly	Ireland		
O'Kelly	Ireland		
O'Kelly	Ireland		
?	Ireland		
Kelley	USA		
Kelly	unknown	Roscommon	
Dyer	Ireland	Sligo	
O'Brien	Ireland		
Kelly	Ireland	Galway	
Shannon	Ireland		

?	Ireland		Treinfhir (Traynor) sept of Ui Maine? (surname project results not public)
?	Ireland		
Green	unknown		
Kelly	Ireland	Galway	
Kelly	Ireland		
Kelly	Ireland		
?	unknown		
?	unknown		
?	unknown		
?	unknown		
?	Ireland		
?	unknown		
?	Ireland		
?	unknown		
Traynor	Ireland	Wicklow	
?	unknown		
?	Ireland		
?	unknown		
?	Ireland		
?	unknown		
Traynor?	unknown		
?	unknown		
Reynolds	USA		
?	unknown		
Trainor	unknown		
?	unknown		
Traynor	Ireland	Monaghan	
?	unknown		
Burns	unknown		
Treanor	Ireland		
?	unknown		
Traynor	Ireland	Monaghan	
?	Ireland		
Trainor	Ireland		
?	Ireland		
Traynor	unknown		

Mutation	30	29	28	27	26
Age					
Time	65	130	195	260	325
					BY45182
					A557

Z16437

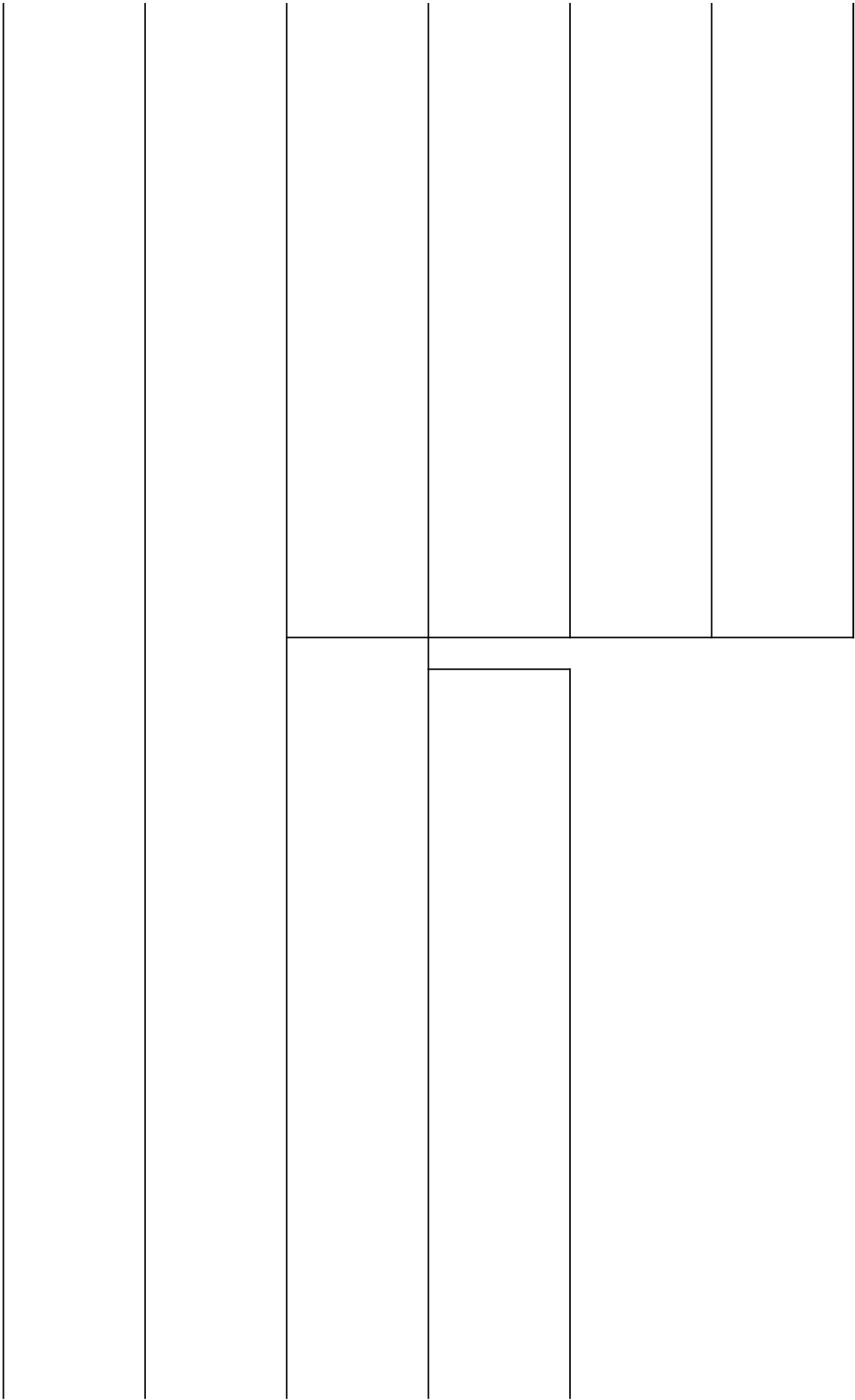
BY13595

FT3481

Z16439

Z16438 >
Z16438.1

		FGC39973	FGC39972	FT3679	BY34986



Z16434
(Fiacha
Baicheda
mac Cathair
Mór)

FGC80009

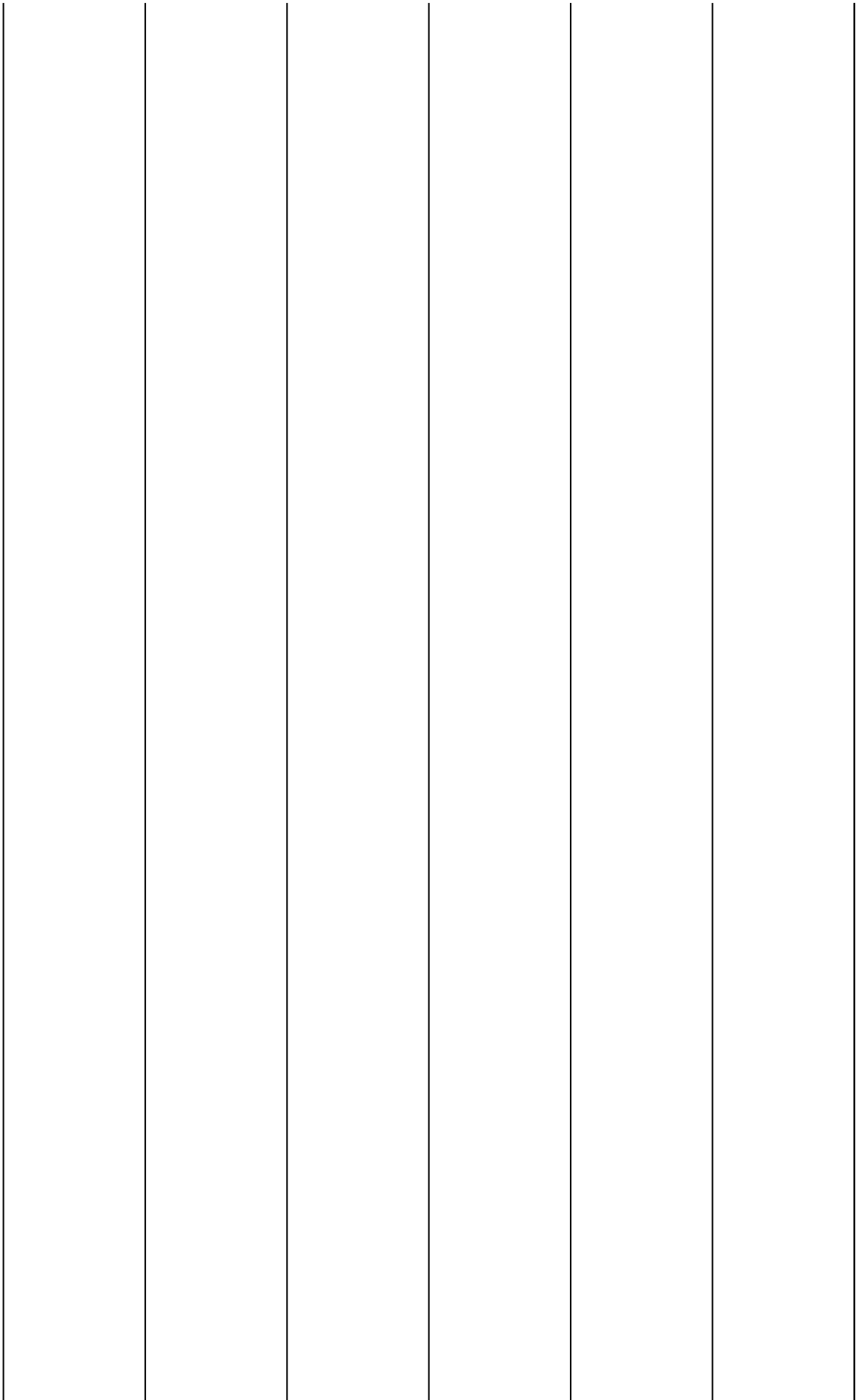
ZZ9_1
(Énnae
Cennsalach?)
- great-
grandson of
Cathair Mór

FGC80008

<p>Z255 et al. (27 SNPs) branching 1755 BCE; possibly Feidhlimidh Fiorurghlas, son of Cormac Gealta Gaoth, son of Nia Corb, son of Cu Corb, son of Mogh Corb, son of Conchubhar Abhradhruad h, son of Fionn File, son of Rossa Ruadh, son of Fearghus Fairrge, son of Nuadha Neacht, son of Seadna Siothbhac, son of Lughaidh Loithfhionn, son of Breasal Breac, son of Fiachaidh Foibhric, son of Oilill Glas, son of Fearadhach Foghlas, son of Nuadha Fullon, son of Ealloit, son of</p>				<p>Z16433</p>	<p>A817</p>

Art, son of
Mogh Airt,
son of
Criomhthann
Coscrach,
son of
Feidhlimidh
Foirthriun,
son of
Fearghus
Fortamhail,
son of
Breasal
Breodhamha
n, son of
Aonghus
Ollamh, son
of Oilill
Bracain, son
of Labhraidh
Loingseach

L159 (Cathair
Mór king 119-
122)

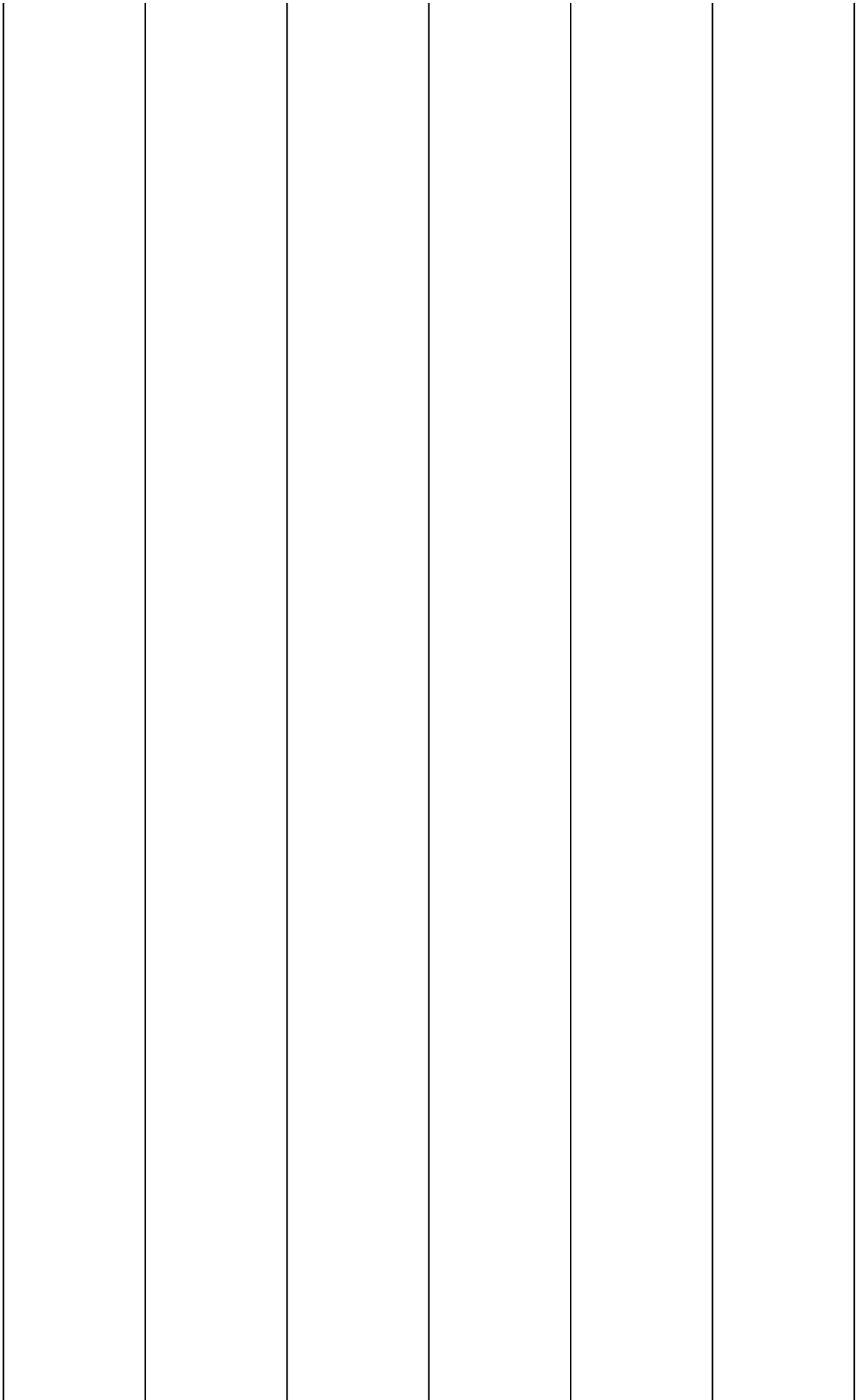


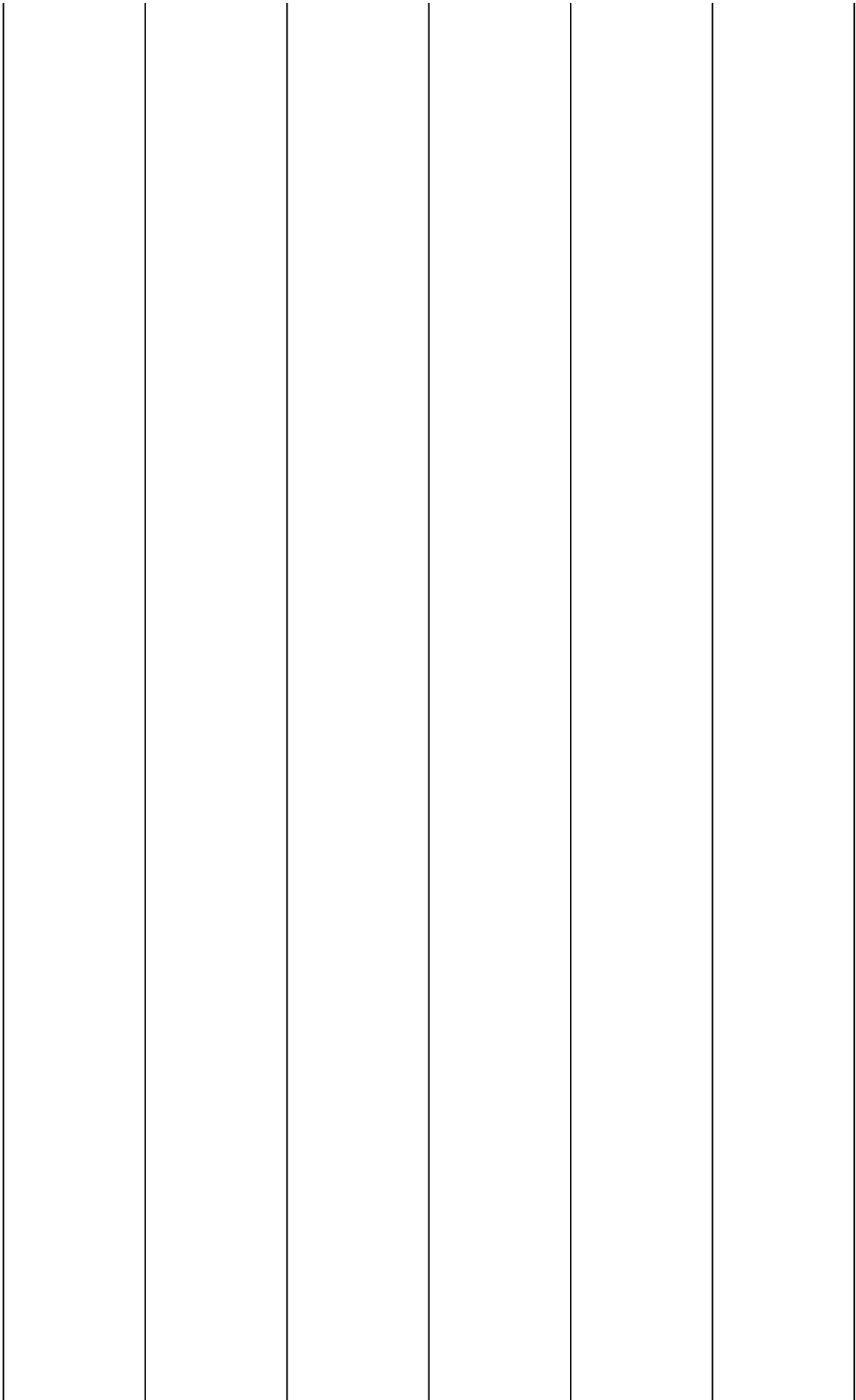
Z16429

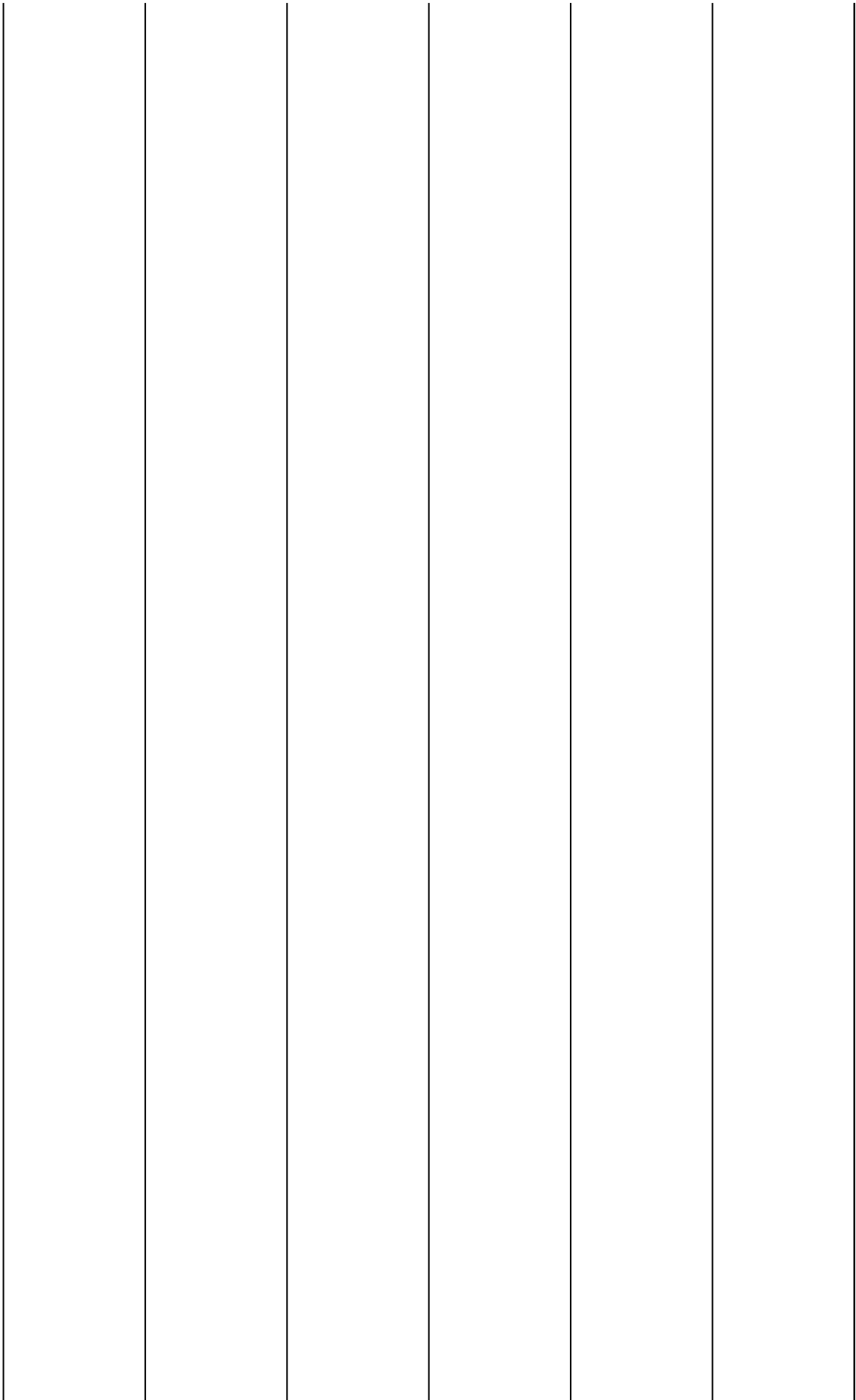
Y16467
(Dúnlaing
mac Énda
Niada?)

BY519

BY520







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25	24	23	22	21	20
390	455	520	585	650	715
				BY17790	BY102996

BY45181	BY45179 > BY45180	BY90202	BZ3910	FT124880	FT125133 > FT125308
A558	Y280676	FGC39569			

		A10895 > A10886	Z29008	FT5105	Y126035
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			FGC33226	FGC33220	FGC33232
			FT374222	FT371386	FT371510

A5631	FT85681	FT85831			
71612E	DV1227E	ETDE1021	FT59014 >	PH1916 >	Z16436 >

Z10453	D145270	F1D51051	FT59140	Y38520	Z16441
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A13221	A13222	A13223	A13228	BY59015	Y140144
				Z16434*	Z16434*

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FT10588 (Ui Failghe?)	FT124508			BY17875	BY115883	
		BY2851			BY24843	BY151504
			BY2849	BY13587	BY2850	

		FT74015	FGC33448	FGC33455	FGC33456
Z18134	Z18135				
		BY582	FGC80004	BY581	BY13592

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					<i>FT22281*</i>
	FT22281	FT16392	FT21095	FT21100	

	A1248	A1245	A1251 > A10635	A1254	A1247 > A1255

Z7368	FTA22186	Z7368*	Z7368*
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BY102687

BY39713	ALK215	BY39714 > BY39715	BY39716	BY39717
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				BY17760
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BY13541	BY13542	BY13543	BY13544 > BY13545	BY13547
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		ZZ8_1	A1238	A1235	A1237
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BY2680	BY13554	BY13555	BY13556	BY2701
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				FTB848
	A10318	A10320	FTA86163	
				Y83065

BY13573	BY44071	FT15388 > FT25285

BY17700
BY13573*

BY521
(minimum 18
sons)

A15515

FT130425

FT129851

ZZ7_1

Y12458

FT10498

FT14321
(Fáelán mac
Murchado? ?

Z16430

-738) >
(Ruaidrí mac
Fáeláin? ?-
785)

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19	18	17	16	15	14
780	845	910	975	1040	1105
BY111479	BY125195	BY127230	BY132098	BY139227	BY150904

FT237977	Y128630	Y130139	FTB27652	FGC92262	FT141383

	FT57504	FGC2230	FT430499	FT57516
FTA56425	FTA57518	FTB14332		
			FTC38663	FTC38425

BY5705					
	A15815	A15817	A15818	BY208487	FT83564

	FTB81068	FTB79725	FTB80801	FTB80825

FTB61789	FGC39781	FGC39784	FGC39781*

					A10889
BY38384	BY38385	BY38386	BY38387	BY41284	FGC39692

BY115773

FGC33217	ACT1229	BY152389	FGC33219	FGC33230	FT27597
FT371612	FT371685	FT371741	FT371806	FT371844	FT371945

				BY14197	BY14193

Z16443 >					
	PH158	BY146373	PH3210 > PH3386	PH1756 > PH2739	FT59340 > FT92374
				FT228996	FT228086

Z16445				<i>BY109851*</i>	<i>BY109851*</i>
				<i>BY109851*</i>	<i>BY109851*</i>
	BY109851	BY109910	FT233313		
					Z16444
		FGC39975	FT209385	FT145703	FT208319
				FGC39981	<i>FGC39981*</i>
			<i>BY34986*</i>		
FT4072			<i>FT4072*</i>	<i>FT4072*</i>	<i>FT4072*</i>
			<i>FT4072*</i>	<i>FT4072*</i>	<i>FT4072*</i>
			FT5004	BY107981	BY206429
	FTB66101	BY203043	FTB66106	FTB66598	

Y151693	BY76394	BY113942	BY121617 > BY122926	BY131412 > BY135462	BY142241 > BY143818
Z16434*	Z16434*	Z16434*	Z16434*	Z16434*	Z16434*

			BY17687
BY17735	BY17795	BY17796	BY17840

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BY17858	FT437562	FT6871	FT7212	FT7277	FT91888
BY23533	BY23876	BY24126	BY24158	BY24284	BY24760
FT116709	FT124507	FT80344	FT80655	FT80869	Y17449

		FGC33458			
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FT73986	FT73997		BY17814	BY42453	CTS9756
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BY13589	BY13590	Z17694 > Z17695	FT100279	FT406555	FT404418
			Z18138	FGC80002 (Murchad mac Diarmata ?- 1070)	FGC80005

	Z16429*	Z16429*	Z16429*	Z16429*	Z16429*
	Z16429*	Z16429*	Z16429*	Z16429*	Z16429*
FT22281*	FT22281*	FT22281*	FT22281*	FT22281*	FT22281*
		FTB47804	FGC69235	FTB48649	FTB49051

FT168526	FT165301
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				A1254*	A1254*
				A1254*	A1254*
BY34980 > FT3609	FT3726 > FT4228	FT4363 > FT5843	FT91972 > FT92425		BY13577
			FTB28505	FTB29189	FTB30467

A430	BY1056	BY1551	BY1796	BY1811	FGC32915
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Z7368*	Z7368*	Z7368*	Z7368*	Z7368*	Z7368*
	FTA22066	FTA21916	FTA21968	FTA22036	FTA22122
	FTB9888	FT126081	FT265499	FTB10158	FTB10955
				FT384276	FT385696
	BY176421	BY176400	BY176634	BY176657	BY176704

BY193796	BY194188	BY195901	FT149550	FT149758	FT150079
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	BY183891	BY184047	BY184087	BY184110	BY184176
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FT135713	FT136208	FT136382	FT136594	FT137782	FTC2655
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				BY34975	BY34976
BY17842	BY17844	BY17893	BY225134	BY23699	BY23886
BY13548	BY13549	BY13550	BY13551	BY13552	BY23530
			A5625	A5626	FT89030

A1238*	A1238*
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FTA80290	FTA80341	FTA90744			
			BY13576	A1236	A1239
BY2714	BY2718	BY2721	FT39923	FT69757	FTB21032

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FT144878	FT347319	FTA99067	FTA99205	FTA99370	FTB2338
			FTA73514	FTA76202	FTA77646
		FT183062			A10323
BY40678	FT74198	FT74203	FT91852	Y100071	Y83886

				BY100966	BY17758
BY17733	BY23832	BY24058	BY24075	BY24175	BY24306
<i>BY13573*</i>	<i>BY13573*</i>	<i>BY13573*</i>	<i>BY13573*</i>	<i>BY13573*</i>	<i>BY13573*</i>
BY13572	BY13575	BY43336	FT18128	FT26161	BY13571 (Domhnall Caomhánach ? ~1140- 1175)

FT228876	FT229521	FT227933
		BY17708

FT129795 > FT129796	FT129871 > FT130304	FT130318 > FT130847	FT131096 > FT131172	FT131736 > FT131923	FT132168 > FT456239
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BY2573			FT42803	FT90905	FT41118
					BY18007
	BY2574	BY2575	BY2576	BY2577	

FT225567	BY65001	BY65001*	BY65001*	BY65001*	BY65001*

FT233307	BY93216	BY104313	BY106456	BY120736	BY126357
		A12840	A12844	FT7192	FT7949

BY122479	<i>BY122479*</i>	<i>BY122479*</i>	<i>BY122479*</i>	<i>BY122479*</i>	<i>BY122479*</i>
	BY114951	BY90759	BY114953	FT144775	FT144814
					FTA75925
			BY65148	BY111329	BY114240

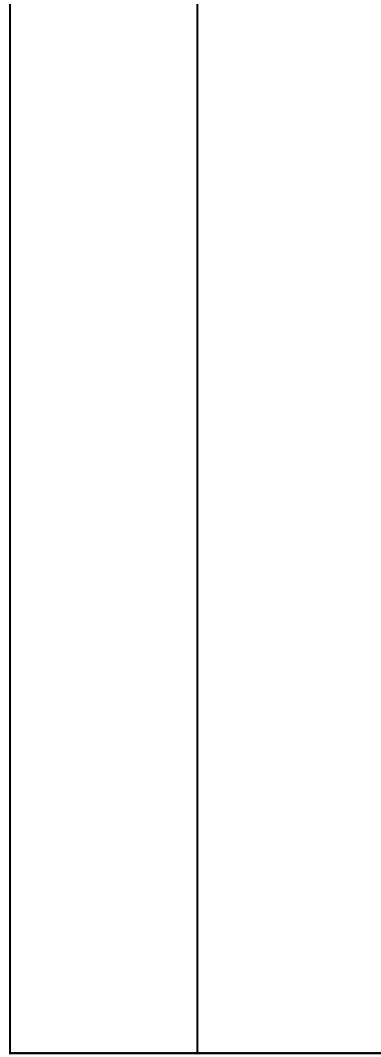
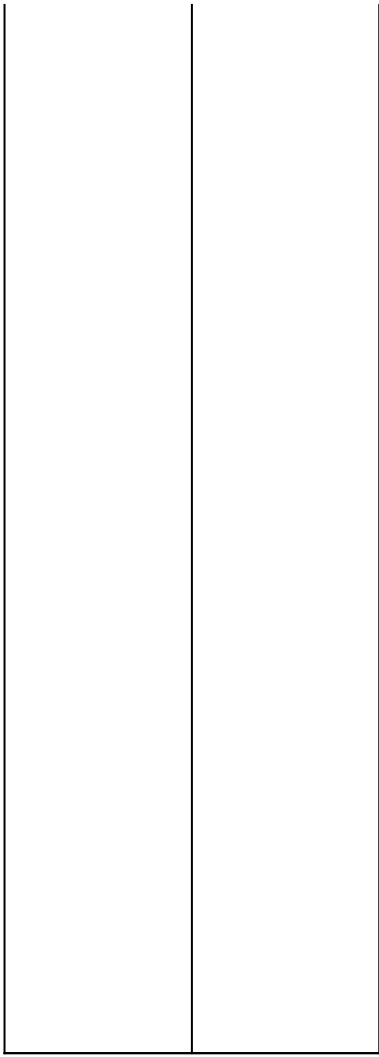
Z16432 > Z16431	FTA80025	BY13561 > BY13562				
			A7936	A7942 > A7945	A7948	
			A1163	FT95562 > FTB20462	FTA17249	FTA17551
					A1164	A1165

Z16950

Z17885

BY239

Y30411



13	12	11	10	9	8
1170	1235	1300	1365	1430	1495
BY152160	BY17794	BY59296	BY87054	BY87732	FT222628
					Z16437*
FTB323652	FTB27497	FTB28400	FTB28403	FTB29204	FTB30557
				Y129507	Y129507*
					Y129507*
					Y129507*
					Y129507*
					Y129507*

FT57519	FT57967	FT58054	FT58227	FT58543	FT58553
				FTA56425*	FTA56425*
FTC38445	FTC38613	FTC66669	FTC66767	FTC66781	FTC38663*
					FTC38663*
	FTC61341	BY116019	FTC61627	FTC61695	FTC61823
	FGC39571	FT183071	FT96989	FGC39568	FGC39570
FT83600	FT89203	FT2878	BY208069	BY209645	BY209648
				A15819	A15823
		A10895*	A10895*	A10895*	A10895*
FTB81795	FTB82983	FTB83009	FTB83316	FTB83573	FTB84131

<i>FGC39781*</i>	<i>FGC39781*</i>	<i>FGC39781*</i>	<i>FGC39781*</i>	<i>FGC39781*</i>	<i>FGC39781*</i>
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A10890	A10891	A10892	A10893	A10894	BY13598
FT5337	Y126036	BY38383	FT38056 > FT5317	FGC40165	Y139067
					Z16438*
		BY170041	<i>BY170041*</i>	<i>BY170041*</i>	<i>BY170041*</i>
			<i>BY170041*</i>	<i>BY170041*</i>	<i>BY170041*</i>
		FT366005	<i>FT366005*</i>	<i>FT366005*</i>	<i>FT366005*</i>
			<i>FT366005*</i>	<i>FT366005*</i>	<i>FT366005*</i>
BY116811	BY120781	BY131829	BY137468	FT82837	FT82915
			<i>FGC33226*</i>	<i>FGC33226*</i>	<i>FGC33226*</i>

FTB2432	FTA97637				
	FGC33223	BY45345	FGC33218	FGC33224	FGC33228
FT371984	FT372006	FT372018	FT372184	FT372284	FT372373

BY14194	BY14196	BY14197*	BY14197*	BY14197*	BY14197*
A5627	A5630	A5629	A5628	Y16880	BY13602
		Z16435*	Z16435*	Z16435*	Z16435*
		Z16435*	Z16435*	Z16435*	Z16435*
FT228118	FT229109	FT229361	FT229405	FT229659	FT229692
FT215553	FT216097	FT217283	FT217319	FT218469	FT218530
			PH158*	PH158*	PH158*
BY107295					PH3210*
					PH3210*
					PH3210*
					PH3210*
			FT151180	FT150810	FT151022
	BY134977	BY134977*	BY134977*	BY134977*	BY134977*
				FT59161	BY110782

BY56625	BY111078	BY145920	BY68861	FT135626	FT138711
<i>BY109851*</i>	<i>BY109851*</i>	<i>BY109851*</i>	<i>BY109851*</i>	<i>BY109851*</i>	<i>BY109851*</i>
<i>BY109851*</i>	<i>BY109851*</i>	<i>BY109851*</i>	<i>BY109851*</i>	<i>BY109851*</i>	<i>BY109851*</i>

BY112000	BY121233
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FT232952	BY198223	BY199461
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Z16440	Z16442	Z16444*	Z16444*	Z16444*	Z16444*
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FT208681	FT210687	FT94844			<i>FT209385*</i>
			FTB93730	FT96736	FTC60576
<i>FGC39981*</i>	<i>FGC39981*</i>	<i>FGC39981*</i>	<i>FGC39981*</i>	<i>FGC39981*</i>	<i>FGC39981*</i>

FGC39971	BY24679	FGC39978
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<i>BY34986*</i>	<i>BY34986*</i>	<i>BY34986*</i>	<i>BY34986*</i>	<i>BY34986*</i>	<i>BY34986*</i>
<i>FT4072*</i>	<i>FT4072*</i>	<i>FT4072*</i>	<i>FT4072*</i>	<i>FT4072*</i>	<i>FT4072*</i>
<i>FT4072*</i>	<i>FT4072*</i>	<i>FT4072*</i>	<i>FT4072*</i>	<i>FT4072*</i>	<i>FT4072*</i>

FT3795	FT4392	FT4542	FT5025	FT5638	FT5676
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FTB66630	FTB67344	FTB70051	FTB70428	FTB70596	FTC11853
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A13219	A13220
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BY149146	BY221870	FT144150	FT15754	FT20778	FT25201
Z16434*	Z16434*	Z16434*	Z16434*	Z16434*	Z16434*
		FGC80009*	FGC80009*	FGC80009*	FGC80009*
		FGC80009*	FGC80009*	FGC80009*	FGC80009*
BY17821	BY17827	BY17871	BY42408	BY42409	BY42410
BY17884	BY39721	BY39722	BY39723	BY39724	FT449819
					FT3394*
		FT3394	FT3405	FT3388	FT3395
		FT65986	FT183078	FT66536	FT67292

BY17850	BY17872	FT6758	FT7401	FT7468	FT7007
BY24801	Y83533				
		BY23813	BY24119	BY24285	BY34973
Y17512					
	BY17792	BY17781	BY17881	BY17888	BY17890
				BY2894	BY13588
		FT250599	FT252562	Y76205	FT394822
	FTB79857	FT84883	FTB82573	FTB83355	FTB84307

FT74167	PH1531	FGC33450	FT73976	FT74096	FT74135
		FT250599	FT252562	Y76205	FT394822
		BY582*	BY582*	BY582*	BY582*
				FTB79373*	FTB79373*
FTB79373	FTA15889	BY75857	FTA15444	FTA15883	FTA16290
M3453				FTC75367	FTB75318
	BY17693	BY141021	BY17699	BY17786	BY17868
		FTB26986	FTC27311	FTC27964	FTC39144
					FTC52757
		FTA22689	FTA23899	FTA25554	FTD5296
				FGC80005*	FGC80005*
BY98445	FTC62007	BY98445*	BY98445*	BY98445*	BY98445*
FGC80003	FT135339 > Z18137	FGC80003* (x2)	FGC80003* (x2)	FGC80003* (x2)	FGC80003*
		Z18136	FT183080	FT139021	FT139268

				FGC79206	FGC33028 > FGC33026
Z16429*	Z16429*	Z16429*	Z16429*	Z16429*	Z16429*
Z16429*	Z16429*	Z16429*	Z16429*	Z16429*	Z16429*
FT22281*	FT22281*	FT22281*	FT22281*	FT22281*	FT22281*
FTB49203	FTB49544	FTB54271	FTB54272	FTB54273	FTB54274
				FT22340	FT22511
FT165665	FT166598	FT168326	FT169271	FT171314	FT168526*
					FT168526*
					A1245*
A1254*	A1254*	A1254*	A1254*	A1254*	A1254*
A1254*	A1254*	A1254*	A1254*	A1254*	A1254*
A1246	A1249	A1250	A1252	BY13578	FTB94843
FTB28505*	FTB28505*	FTB28505*	FTB28505*	FTB28505*	FTB28505*
FTB28505*	FTB28505*	FTB28505*	FTB28505*	FTB28505*	FTB28505*
					BY17828

FGC32916	FGC53021	A1154	BY523			
			FGC53016			
			A12437	FT202842	FT74381	
			<i>BY519*</i>	<i>BY519*</i>	<i>BY519*</i>	<i>BY519*</i>
			<i>BY519*</i>	<i>BY519*</i>	<i>BY519*</i>	
			<i>BY519*</i>	<i>BY519*</i>	<i>BY519*</i>	
			<i>BY519*</i>	<i>BY519*</i>	<i>BY519*</i>	

Z7368*	Z7368*	Z7368*	Z7368*	Z7368*	Z7368*
FTA22130	FTA22207	FTA22295	FTA22297	FTA22353	FTA22489
FTB11101	FTB11781	FTB12197	FTB16324	FTB16481	FTB82643
FTB13668		<i>FT384276*</i>	<i>FT384276*</i>	<i>FT384276*</i>	<i>FT384276*</i>
	FTB12993	FTB13116	FTB13313	FTB13537	<i>FTB12993*</i>
					<i>FTB12993*</i>
BY176960	BY176971	BY176991	BY177193	BY177270	BY222789
		BY97501	ACT7259	BY102165	BY104997
					Y67279

FTB60823					
	FT148968	FT148447	FT149571	FT149963	FT150060
BY184279	FGC83688	FTA31014	FTA32829	FTA35428	ZS8489
FTC4869	Y80863	FTC24745	FGC36184	FT448141	FTC33354
			BY39718		FT216236

BY34977	BY34978	BY34979	FT47466	FT48025	FT48490
BY24440	BY24540	BY24831	FT10141	FT8416	
					BY200174
Y65366	Y78856				
		A8429	BY13546	BY13553	BY17820
				A5625*	A5625*
BY17709	A17695	BY121338	BY121582	BY54522	Y59865
					ZZ8_1*
					ZZ8_1*
A1238*	A1238*	A1238*	A1238*	A1238*	A1238*
					A1235*
					A1235*
A1240	BY142664	BY44075	FTB7360	FTB7774	BY147810
	FT38573				
		BY17874	BY17848	BY48201	FT38652
ZS784				FT69488	BY13557

					BY17742
	A10318*	A10318*	A10318*	A10318*	A10318*
	A10318*	A10318*	A10318*	A10318*	A10318*
	A10318*	A10318*	A10318*	A10318*	A10318*
FTB62751	FTB848*	FTB848*	FTB848*	FTB848*	FTB848*
	FTB848*	FTB848*	FTB848*	FTB848*	FTB848*
FTA73514*	FTA73514*	FTA73514*	FTA73514*	FTA73514*	FTA73514*
FTA73514*	FTA73514*	FTA73514*	FTA73514*	FTA73514*	FTA73514*
				A10323*	A10323*
A10321	A10324	BY42893	FT63997		A10317
Y85252	Y86987	Y91304	Y94801		Y83065*
					Y83065*
					Y83065*
				BY80922 > BY222844	BY80922*
					BY80922*
ZZ7_1*	ZZ7_1*	ZZ7_1*	ZZ7_1*	ZZ7_1*	ZZ7_1*
ZZ7_1*	ZZ7_1*	ZZ7_1*	ZZ7_1*	ZZ7_1*	ZZ7_1*
	ET27017	ET26224	ET26201	725407	FT37917*

	FT37917	FT30234	FT30201	Z23491	FT37917*
	BY17689	BY135948	BY144805	BY78174	BY96269
					BY100966*
					BY100966*
BY161296	BY161274	BY162549	BY162817	FTC11841	BY161296*
					BY161296*
		FT76359	BY149898	FT75128	Y95362
BY24332	BY24725	BY24816	BY42838	Y37247	Y37248
BY13573*	BY13573*	BY13573*	BY13573*	BY13573*	BY13573*

BY13574	BY24645	FT126951	BY24204	BY24761	Z17598
		BY24690	FT203775	FTB59395	FTB59395*
				FTB59395*	
				FTB59395*	
			BY34981	BY34982	
					Y12458*
					Y12458*
			FT228876*	FT228876*	FT228876*
FT228190	FT228209	FT228330	FT228770	FT229275	FT229323
BY165720	FT135610	FT135616	Y62459	Y68534	Y69333

BY206779	BY206840	BY207103	BY208308	FT130300	BY206779*	
				FT130399	FT130399*	
					FT130399*	
FTB88065 > FTB91670	FT101415 > FTC67389	FTB88075*(x2)	FTB88075*	FTB88075*	FTB88075*	
FTC49084	FT289623	FTC49145	FTC49202	FTC49233	FTC49296	
MF81887	FT41118*	FT41118*	FT41118*	FT41118*	FT41118*	
	FT41118*	FT41118*	FT41118*	FT41118*	FT41118*	
A13852	A13853					BY18007*
		BY18009	FT90805	FT91114	FT91308	
FT109297	FT124500	FT76699				BY123460*
			BY123460	BY123461	BY123460*	
					BY94813	BY17725
					FT109085	

	FT235841	FT235841*	FT235841*	FT235841*	FT235841*
		FT235841*	FT235841*	FT235841*	FT235841*
BY65001*	BY65001*	BY65001*	BY65001*	BY65001*	BY65001*
			BY116926	FT197946	BY113171

BY131176	BY172924	BY172926	BY51999	BY99858	FGC55632
FT7955				BY74051	FT80599
	A11306	A12841	A12843	FT10131	FT202890
Z16430*	Z16430*	Z16430*	Z16430*	Z16430*	Z16430*
Z16430*	Z16430*	Z16430*	Z16430*	Z16430*	Z16430*
Z16430*	Z16430*	Z16430*	Z16430*	Z16430*	Z16430*
Z16430*	Z16430*	Z16430*	Z16430*	Z16430*	Z16430*
Z16430*	Z16430*	Z16430*	Z16430*	Z16430*	Z16430*
			BY24282	BY111119	BY142155
BY122479*	BY122479*	BY122479*	BY122479*	BY122479*	BY122479*
FTB30817					BY114951*
					BY114951*
FTB30817	BY105209	FTB27482	FTB31609	BY105209*	BY105209*
					FT144039

FTA76673	FTB16568	FTB16599	Y25958	FTA75925*	FTA75925*
				FTA75925*	FTA75925*

BY114434	BY118764	BY156727	BY51831	BY53259	BY55438
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	A10121	A10636	A10637	BY13564	BY13565
BY13563	FT18516	FT18582	FT27276	A7947 > A7946	Y83373
FT14829	FTB39269			FT18913	FT22890
				FT124501	FT63432
				A22773	BY64683
		FT60818	A7930	A7930*	A7930*
		FT69971	FT26346	FT70113	Z16950* FT70150
FTA17629	FTA18977	FTA20341	FTA48513	FTA72164	FTB12170
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BY17765	BY17730	BY43245
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	FTA50931	FTA35315			
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	BY13461	BY13459	
			BY178840
			BY179921

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FGC39576	FGC39568*	FGC39568*	FGC39568*	FGC39568*	FGC39568*
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				FTB80139	FTB84361
	FT253714	FT253714*	FT253714*	FT253714*	FT253714*

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<i>FGC39781*</i>	<i>FGC39781*</i>	<i>FGC39781*</i>	<i>FGC39781*</i>	<i>FGC39781*</i>	<i>FGC39781*</i>
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<i>BY75965</i>	<i>BY110081</i>	<i>BY124306</i>	<i>BY128541</i>	<i>BY75965*</i>	<i>BY75965*</i>
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<i>Y139062</i>	<i>Y139067*</i>	<i>Y139067*</i>	<i>Y139067*</i>	<i>Y139067*</i>	<i>Y139067*</i>
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<i>FT366005*</i>	<i>FT366005*</i>	<i>FT366005*</i>	<i>FT366005*</i>	<i>FT366005*</i>	<i>FT366005*</i>
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<i>FGC33226*</i>	<i>FGC33226*</i>	<i>FGC33226*</i>	<i>FGC33226*</i>	<i>FGC33226*</i>	<i>FGC33226*</i>
		<i>FGC33220*</i>	<i>FGC33220*</i>	<i>FGC33220*</i>	<i>FGC33220*</i>
<i>FTA97637*</i>	<i>FTA97637*</i>	<i>FTA97637*</i>	<i>FTA97637*</i>	<i>FTA97637*</i>	<i>FTA97637*</i>
	<i>FTA57212</i>	<i>BY145464</i>	<i>FTA57212*</i>	<i>FTA57212*</i>	<i>FTA57212*</i>
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<i>BY75104</i>					<i>BY75104*</i>
	<i>BY154243</i>	<i>BY155368</i>	<i>BY155826</i>	<i>FT30415</i>	<i>FT31007</i>
<i>FGC33229</i>	<i>FGC33231</i>	<i>FGC83475</i>	<i>FT86152</i>	<i>FT86701</i>	<i>FGC33223*</i>
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<i>FT372699</i>	<i>FT372719</i>	<i>FT374249</i>	<i>FT374222*</i>	<i>FT374222*</i>	<i>FT374222*</i>
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			<i>FT374222*</i>	<i>FT374222*</i>	<i>FT374222*</i>
			<i>FT374222*</i>	<i>FT374222*</i>	<i>FT374222*</i>

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BY43740	BY5710	BY5711	BY5712	BY5713	BY5714
BY13603	FT86057	FT87459	Y16880	A13103	A13106

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	BY5707	BY5708	BY5709	A13112	A13113								

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Z16435*	Z16435*	Z16435*	Z16435*	Z16435*	Z16435*
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FTC95534	Y338954	FT215553*	FT215553*	FT215553*	FT215553*
		FT215553*	FT215553*	FT215553*	FT215553*
PH158*	PH158*	PH158*	PH158*	PH158*	PH158*
PH3210*	PH3210*	PH3210*	PH3210*	PH3210*	PH3210*
PH3210*	PH3210*	PH3210*	PH3210*	PH3210*	PH3210*
PH3210*	PH3210*	PH3210*	PH3210*	PH3210*	PH3210*
PH3210*	PH3210*	PH3210*	PH3210*	PH3210*	PH3210*
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BY134977*	BY134977*	BY134977*	BY134977*	BY134977*	BY134977*
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		<i>FT122520*</i>	<i>FT122520*</i>	<i>FT122520*</i>	<i>FT122520*</i>
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<i>FT168526*</i>	<i>FT168526*</i>	<i>FT168526*</i>	<i>FT168526*</i>	<i>FT168526*</i>	<i>FT168526*</i>
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<i>A1245*</i>	<i>A1245*</i>	<i>A1245*</i>	<i>A1245*</i>	<i>A1245*</i>	<i>A1245*</i>
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		<i>BY13577*</i>	<i>BY13577*</i>	<i>BY13577*</i>	<i>BY13577*</i>

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<i>FTB28505*</i>	<i>FTB28505*</i>	<i>FTB28505*</i>	<i>FTB28505*</i>	<i>FTB28505*</i>	<i>FTB28505*</i>
<i>FTB28505*</i>	<i>FTB28505*</i>	<i>FTB28505*</i>	<i>FTB28505*</i>	<i>FTB28505*</i>	<i>FTB28505*</i>

			<i>BY848*</i>	<i>BY848*</i>	
	FT151007	FT151060	FT151085	FT151420	FT151471
		BY82118	BY134850	FT351608	<i>BY82118*</i>
					<i>BY82118*</i>
					<i>BY17828*</i>

A6308	A6309	BY13585	<i>BY17769*</i>	<i>BY17769*</i>
			<i>BY17769</i>	<i>BY17769*</i>

			BY17769	BY17769*	BY17769*
A1367	FT111419	BY17682	FT109777	FTB70020	FTB70020*
					FTB70020*
	FGC32914	BY13584	A816	FGC32914*	FGC32914*
				FGC32914*	FGC32914*
				A816*	A816*
				A816*	A816*
				A1154*	A1154*
				A1154*	A1154*
	FGC53016*	FGC53016*	FGC53016*	FGC53016*	FGC53016*
	FGC53016*	FGC53016*	FGC53016*	FGC53016*	FGC53016*
FGC53016*	FGC53016*	FGC53016*	FGC53016*	FGC53016*	
			FTC10391	FTC11702	
FT33038			FT33038*	FT33038*	FT33038*
			FT33038*	FT33038*	FT33038*
			FT33038*	FT33038*	FT33038*
			FT33038*	FT33038*	FT33038*
	A11117	BY13582	FT81448	A11117*	A11117*
				A11117*	A11117*
		BY3247	BY13583	FT116125	
A12437*	A12437*	A12437*	A12437*	A12437*	
			BY17731	BY17731*	BY17731*
					BY153096
		A12493		A12493*	A12493*
				A12493*	A12493*
				A12493*	A12493*
				A12493*	A12493*
				A12493*	A12493*
					BY113219
			BY136940	BY136940*	BY136940*
				BY136940*	BY136940*
				BY136940*	BY136940*
BY519*	BY519*	BY519*	BY519*	BY519*	BY519*
BY519*	BY519*	BY519*	BY519*	BY519*	BY519*
BY519*	BY519*	BY519*	BY519*	BY519*	BY519*

Z7368*	Z7368*	Z7368*	Z7368*	Z7368*	Z7368*
FTA22507	FTB90505	FTB91819	FTA22066*	FTA22066*	FTA22066*
			FTA22066*	FTA22066*	FTA22066*
FTB91840	FTB9916	FTB9888*	FTB9888*	FTB9888*	FTB9888*
		FTB9888*	FTB9888*	FTB9888*	FTB9888*
FT384276*	FT384276*	FT384276*	FT384276*	FT384276*	FT384276*
FTB12993*	FTB12993*	FTB12993*	FTB12993*	FTB12993*	FTB12993*
FTB12993*	FTB12993*	FTB12993*	FTB12993*	FTB12993*	FTB12993*
BY224532	FT180100	FT224367	BY176421*	BY176421*	BY176421*
			BY176421*	BY176421*	BY176421*
BY121245	BY139726	BY144740	BY93267	FTB70346	BY97501*
					BY97501*
Y67279*	Y67279*	Y67279*	Y67279*	Y67279*	Y67279*
Y67279*	Y67279*	Y67279*	Y67279*	Y67279*	Y67279*
			FT179663	FT242494	FT242916
FT150231	FT151389	FT148968*	FT148968*	FT148968*	FT148968*
		FT148968*	FT148968*	FT148968*	FT148968*
				FTB62555	FTB62555*
					FTB62555*
		FTB62555*			
	BY183891*	BY183891*	BY183891*	BY183891*	BY183891*
	BY183891*	BY183891*	BY183891*	BY183891*	BY183891*
	BY183891*	BY183891*	BY183891*	BY183891*	BY183891*
	BY183891*	BY183891*	BY183891*	BY183891*	BY183891*
FTB76003	FT461573	FTB79359	FTB76332	FTB76332*	FTB76332*
				FTB76332*	FTB76332*
				FTB76332*	FTB76332*
FTC34287	Y216524	FTC24745*	FTC24745*	FTC24745*	FTC24745*
			BY145271	BY145271*	BY145271*
				BY145271*	BY145271*
			BY39718*	BY39718*	BY39718*
			BY39718*	BY39718*	BY39718*
			BY39718*	BY39718*	BY39718*
			BY39718*	BY39718*	BY39718*
FT214553	FT217398	FT217596	FT218271	FT216236*	FT216236*
				FT216236*	FT216236*
				BY39719	BY39719*
					BY50385

					FT135963
<i>BY34975*</i>	<i>BY34975*</i>	<i>BY34975*</i>	<i>BY34975*</i>	<i>BY34975*</i>	<i>BY34975*</i>
<i>BY34975*</i>	<i>BY34975*</i>	<i>BY34975*</i>	<i>BY34975*</i>	<i>BY34975*</i>	<i>BY34975*</i>
	BY91968	BY101492	BY109644	<i>BY91968*</i>	<i>BY91968*</i>
				<i>BY91968*</i>	<i>BY91968*</i>
FT7402	A10639				BY17866
		BY112325	BY17789	FT82507	FT83520
FT391780	FT392318	FT392495	FT393023	FTB81227	MF12591
		<i>BY13541*</i>	<i>BY13541*</i>	<i>BY13541*</i>	<i>BY13541*</i>
		<i>BY13541*</i>	<i>BY13541*</i>	<i>BY13541*</i>	<i>BY13541*</i>
<i>BY17820*</i>	<i>BY17820*</i>	<i>BY17820*</i>	<i>BY17820*</i>	<i>BY17820*</i>	<i>BY17820*</i>
<i>BY17820*</i>	<i>BY17820*</i>	<i>BY17820*</i>	<i>BY17820*</i>	<i>BY17820*</i>	<i>BY17820*</i>
			A10638	<i>A10638*</i>	<i>A10638*</i>
				<i>A10638*</i>	<i>A10638*</i>
<i>A5625*</i>	<i>A5625*</i>	<i>A5625*</i>	<i>A5625*</i>	<i>A5625*</i>	<i>A5625*</i>
Z18577			<i>BY17709*</i>	<i>BY17709*</i>	<i>BY17709*</i>
	BY142668	<i>BY142668*</i>	<i>BY142668*</i>	<i>BY142668*</i>	<i>BY142668*</i>
		<i>BY142668*</i>	<i>BY142668*</i>	<i>BY142668*</i>	<i>BY142668*</i>
<i>ZZ8_1*</i>	<i>ZZ8_1*</i>	<i>ZZ8_1*</i>	<i>ZZ8_1*</i>	<i>ZZ8_1*</i>	<i>ZZ8_1*</i>
<i>ZZ8_1*</i>	<i>ZZ8_1*</i>	<i>ZZ8_1*</i>	<i>ZZ8_1*</i>	<i>ZZ8_1*</i>	<i>ZZ8_1*</i>
<i>A1238*</i>	<i>A1238*</i>	<i>A1238*</i>	<i>A1238*</i>	<i>A1238*</i>	<i>A1238*</i>
<i>A1235*</i>	<i>A1235*</i>	<i>A1235*</i>	<i>A1235*</i>	<i>A1235*</i>	<i>A1235*</i>
<i>A1235*</i>	<i>A1235*</i>	<i>A1235*</i>	<i>A1235*</i>	<i>A1235*</i>	<i>A1235*</i>
FTB8519	FTB8609	<i>BY147610*</i>	<i>BY147610*</i>	<i>BY147610*</i>	<i>BY147610*</i>
		<i>BY147610*</i>	<i>BY147610*</i>	<i>BY147610*</i>	<i>BY147610*</i>
		A1241	A1242	A6089	<i>A1241*</i>
					<i>A1241*</i>
			<i>FT38573*</i>	<i>FT38573*</i>	<i>FT38573*</i>
FT41266	FT44511	FTB21033	Y36829	Y81786	Y97548
	<i>FT69488*</i>	<i>FT69488*</i>	<i>FT69488*</i>	<i>FT69488*</i>	<i>FT69488*</i>
					<i>BY13557*</i>
					<i>BY13557*</i>
					<i>BY13557*</i>
					FT233038
BY13558	BY13559	BY13560	BY17676	BY17813	Y79951

				FT136218	BY91964
Y37450	BY17742*	BY17742*	BY17742*	BY17742*	BY17742*
	BY17742*	BY17742*	BY17742*	BY17742*	BY17742*
		Y82542	Y91622	Y82542*	Y82542*
				Y82542*	Y82542*
A10318*	A10318*	A10318*	A10318*	A10318*	A10318*
A10318*	A10318*	A10318*	A10318*	A10318*	A10318*
A10318*	A10318*	A10318*	A10318*	A10318*	A10318*
FTB848*	FTB848*	FTB848*	FTB848*	FTB848*	FTB848*
FTB848*	FTB848*	FTB848*	FTB848*	FTB848*	FTB848*
FTA73514*	FTA73514*	FTA73514*	FTA73514*	FTA73514*	FTA73514*
FTA73514*	FTA73514*	FTA73514*	FTA73514*	FTA73514*	FTA73514*
A10323*	A10323*	A10323*	A10323*	A10323*	A10323*
	BY164384	BY163702	FTB40080	FTB40080*	FTB40080*
				FTB40080*	FTB40080*
			FGC89461	FGC89461*	FGC89461*
				FGC89461*	FGC89461*
				FGC89461*	FGC89461*
A10319	A10322	FT146251			A10317*
					A10317*
					A10317*
					A10317*
					A10317*
					A10317*
					A10317*
					A10317*
			A10317*		
			FT146131	A10328	FT146131*
					FT146131*
BY17945	BY17946	BY17947	BY17948	BY17949	BY17946*
					BY17946*
					BY17946*
					BY17946*
Y83065*	Y83065*	Y83065*	Y83065*	Y83065*	Y83065*
Y83065*	Y83065*	Y83065*	Y83065*	Y83065*	Y83065*
Y83065*	Y83065*	Y83065*	Y83065*	Y83065*	Y83065*
BY80922*	BY80922*	BY80922*	BY80922*	BY80922*	BY80922*
BY80922*	BY80922*	BY80922*	BY80922*	BY80922*	BY80922*
ZZ7_1*	ZZ7_1*	ZZ7_1*	ZZ7_1*	ZZ7_1*	ZZ7_1*
ZZ7_1*	ZZ7_1*	ZZ7_1*	ZZ7_1*	ZZ7_1*	ZZ7_1*
FT37917*	FT37917*	FT37917*	FT37917*	FT37917*	FT37917*

<i>FT37917*</i>	<i>FT37917*</i>	<i>FT37917*</i>	<i>FT37917*</i>	<i>FT37917*</i>	<i>FT37917*</i>
FT67643	FT67654	Y142626	<i>BY17689*</i>	<i>BY17689*</i>	<i>BY17689*</i>
			<i>BY17689*</i>	<i>BY17689*</i>	<i>BY17689*</i>
<i>BY100966*</i>	<i>BY100966*</i>	<i>BY100966*</i>	<i>BY100966*</i>	<i>BY100966*</i>	<i>BY100966*</i>
<i>BY100966*</i>	<i>BY100966*</i>	<i>BY100966*</i>	<i>BY100966*</i>	<i>BY100966*</i>	<i>BY100966*</i>
<i>BY161296*</i>	<i>BY161296*</i>	<i>BY161296*</i>	<i>BY161296*</i>	<i>BY161296*</i>	<i>BY161296*</i>
<i>BY161296*</i>	<i>BY161296*</i>	<i>BY161296*</i>	<i>BY161296*</i>	<i>BY161296*</i>	<i>BY161296*</i>
<i>FT76359*</i>	<i>FT76359*</i>	<i>FT76359*</i>	<i>FT76359*</i>	<i>FT76359*</i>	<i>FT76359*</i>
<i>FT76359*</i>	<i>FT76359*</i>	<i>FT76359*</i>	<i>FT76359*</i>	<i>FT76359*</i>	<i>FT76359*</i>
<i>BY17700*</i>	<i>BY17700*</i>	<i>BY17700*</i>	<i>BY17700*</i>	<i>BY17700*</i>	<i>BY17700*</i>
Y82840	Y101823	Y102704	Y105750	Y107748	Y93609
<i>BY13573*</i>	<i>BY13573*</i>	<i>BY13573*</i>	<i>BY13573*</i>	<i>BY13573*</i>	<i>BY13573*</i>
		<i>BY13572*</i>	<i>BY13572*</i>	<i>BY13572*</i>	<i>BY13572*</i>
		<i>BY13572*</i>	<i>BY13572*</i>	<i>BY13572*</i>	<i>BY13572*</i>
		<i>FT126951*</i>	<i>FT126951*</i>	<i>FT126951*</i>	<i>FT126951*</i>
<i>BY24204*</i>	<i>BY24204*</i>	<i>BY24204*</i>	<i>BY24204*</i>	<i>BY24204*</i>	<i>BY24204*</i>
<i>BY24204*</i>	<i>BY24204*</i>	<i>BY24204*</i>	<i>BY24204*</i>	<i>BY24204*</i>	<i>BY24204*</i>
<i>BY24204*</i>	<i>BY24204*</i>	<i>BY24204*</i>	<i>BY24204*</i>	<i>BY24204*</i>	<i>BY24204*</i>
BY17703	A15516	BY23631	BY43346	BY44079	<i>BY17703*</i>
					BY221275
				<i>BY24690*</i>	<i>BY24690*</i>
				<i>BY24690*</i>	<i>BY24690*</i>
				<i>BY24690*</i>	<i>BY24690*</i>
				<i>BY24690*</i>	<i>BY24690*</i>
<i>FTB59395*</i>	<i>FTB59395*</i>	<i>FTB59395*</i>	<i>FTB59395*</i>	<i>FTB59395*</i>	<i>FTB59395*</i>
<i>FTB59395*</i>	<i>FTB59395*</i>	<i>FTB59395*</i>	<i>FTB59395*</i>	<i>FTB59395*</i>	<i>FTB59395*</i>
<i>FTB59395*</i>	<i>FTB59395*</i>	<i>FTB59395*</i>	<i>FTB59395*</i>	<i>FTB59395*</i>	<i>FTB59395*</i>
			BY17807	A15518	<i>BY17807*</i>
					<i>BY17807*</i>
BY34983	FT93661	FT93910	FT94192	FTC2694	<i>BY34981*</i>
					<i>BY34981*</i>
					<i>BY34981*</i>
					<i>BY34981*</i>
<i>Y12458*</i>	<i>Y12458*</i>	<i>Y12458*</i>	<i>Y12458*</i>	<i>Y12458*</i>	<i>Y12458*</i>
<i>Y12458*</i>	<i>Y12458*</i>	<i>Y12458*</i>	<i>Y12458*</i>	<i>Y12458*</i>	<i>Y12458*</i>
<i>FT228876*</i>	<i>FT228876*</i>	<i>FT228876*</i>	<i>FT228876*</i>	<i>FT228876*</i>	<i>FT228876*</i>
FT229643	FT229802	FTB16211	Y151345	<i>FT229521*</i>	<i>FT229521*</i>
				<i>FT229521*</i>	<i>FT229521*</i>
Y72298	Y73881	Y79361	Y80211	<i>BY17708*</i>	<i>BY17708*</i>
				Y64654	Y71657

	A15515*	A15515*	A15515*	A15515*	A15515*
BY206779*	BY206779*	BY206779*	BY206779*	BY206779*	BY206779*
	BY208995	BY208995*	BY208995*	BY208995*	BY208995*
		BY208995*	BY208995*	BY208995*	BY208995*
FT130399*	FT130399*	FT130399*	FT130399*	FT130399*	FT130399*
FT130399*	FT130399*	FT130399*	FT130399*	FT130399*	FT130399*
FTB88075*	FTB88075*	FTB88075*	FTB88075*	FTB88075*	FTB88075*
		FTB87544	FTB91563	MF140978	FTB87544*
					FTB87544*
FTC49382	FTC49512	FTC49949	FTC63504	FTD5307	Y356455
FT41118*	FT41118*	FT41118*	FT41118*	FT41118*	FT41118*
FT41118*	FT41118*	FT41118*	FT41118*	FT41118*	FT41118*
BY18007*	BY18007*	BY18007*	BY18007*	BY18007*	BY18007*
	BY18009*	BY18009*	BY18009*	BY18009*	BY18009*
	BY18009*	BY18009*	BY18009*	BY18009*	BY18009*
BY17745			BY17745*	BY17745*	BY17745*
			BY17745*	BY17745*	BY17745*
			BY17745*	BY17745*	BY17745*
	BY18010	FT90891	BY18010*	BY18010*	BY18010*
			BY18010*	BY18010*	BY18010*
			BY18010*	BY18010*	BY18010*
			BY2574*	BY2574*	
BY123460*	BY123460*	BY123460*	BY123460*	BY123460*	BY123460*
BY123460*	BY123460*	BY123460*	BY123460*	BY123460*	BY123460*
	FTB52904	Y27428	FTB52904*	FTB52904*	FTB52904*
			FTB52904*	FTB52904*	FTB52904*
FTB35768	FTB38554	FTB44528	FTB35768*	FTB35768*	FTB35768*
			FTB35768*	FTB35768*	FTB35768*
BY17726	BY17725*	BY17725*	BY17725*	BY17725*	BY17725*
	BY17725*	BY17725*	BY17725*	BY17725*	BY17725*
			FT109085*	FT109085*	FT109085*
			FT109085*	FT109085*	FT109085*
			FT109085*	FT109085*	FT109085*
FTA50113	FTA50707	FTA50955	FTA51400	FTA50113*	FTA50113*
				FTA50113*	FTA50113*
FT10498*	FT10498*	FT10498*	FT10498*	FT10498*	FT10498*
FT10498*	FT10498*	FT10498*	FT10498*	FT10498*	FT10498*
FT235841*	FT235841*	FT235841*	FT235841*	FT235841*	FT235841*
FT235841*	FT235841*	FT235841*	FT235841*	FT235841*	FT235841*
BY65001*	BY65001*	BY65001*	BY65001*	BY65001*	BY65001*
	BY116926*	BY116926*	BY116926*	BY116926*	BY116926*
BY58742	FT407194	FT407823	BY113171*	BY113171*	BY113171*
			BY113171*	BY113171*	BY113171*

			BY113171*	BY113171*	BY113171*
FT406754	FTA26608	FTA92205	BY17697	BY219660	BY17697*
					BY17697*
			BY172925	FTA23373	BY182198
				BY74051*	BY74051*
FT80764	BY57459	BY141898	FT80764*	FT80764*	FT80764*
			FT124502	FT80805	Y139968
				A11306*	A11306*
FT7920	FT8833	FT8730	FT10874	FT10131*	FT10131*
					FT8730*
				FT8730*	FT8730*
				FTA40237	FTA40237*
					FTA40237*
Z16430*	Z16430*	Z16430*	Z16430*	Z16430*	Z16430*
Z16430*	Z16430*	Z16430*	Z16430*	Z16430*	Z16430*
Z16430*	Z16430*	Z16430*	Z16430*	Z16430*	Z16430*
Z16430*	Z16430*	Z16430*	Z16430*	Z16430*	Z16430*
Z16430*	Z16430*	Z16430*	Z16430*	Z16430*	Z16430*
BY24282*	BY24282*	BY24282*	BY24282*	BY24282*	BY24282*
BY24282*	BY24282*	BY24282*	BY24282*	BY24282*	BY24282*
BY122479*	BY122479*	BY122479*	BY122479*	BY122479*	BY122479*
BY114951*	BY114951*	BY114951*	BY114951*	BY114951*	BY114951*
BY114951*	BY114951*	BY114951*	BY114951*	BY114951*	BY114951*
BY105209*(X 2)	BY105209*(X 2)	BY105209*(X 2)	BY105209*(X 2)	BY105209*(X 2)	BY105209*
FTB47743	FTB54269	FTB54270	FT144039*	FT144039*	FT144039*
			FT144039*	FT144039*	FT144039*
			FT144039*	FT144039*	FT144039*
Z16432*	Z16432*	Z16432*	Z16432*	Z16432*	Z16432*
Z16432*	Z16432*	Z16432*	Z16432*	Z16432*	Z16432*
Z16432*	Z16432*	Z16432*	Z16432*	Z16432*	Z16432*
FTA75925*	FTA75925*	FTA75925*	FTA75925*	FTA75925*	FTA75925*
FTA75925*	FTA75925*	FTA75925*	FTA75925*	FTA75925*	FTA75925*
		BY13561*	BY13561*	BY13561*	BY13561*
		BY13561*	BY13561*	BY13561*	BY13561*
BY80290	BY85466	FT181833	FT352834	FT353492	BY65148*
					BY65148*
					BY65148*

					BY65148*
BY13566	BY42881	FT84176	A10121*	A10121*	A10121*
			A10121*	A10121*	A10121*
FT109300	A7938	A7941 > A7949	FT108958	FT109300*	FT109300*
				FT109300*	FT109300*
			A7947*	A7947*	A7947*
FT18733	FT19884	FT26244	FT26260	FT447182	FT456518
FT82140	FT18913*	FT18913*	FT18913*	FT18913*	FT18913*
		BY17750	BY24079	BY38521	FT16102
		FT124501*	FT124501*	FT124501*	FT124501*
		FT124501*	FT124501*	FT124501*	FT124501*
FT62569			FT63432*	FT63432*	FT63432*
			FT63432*	FT63432*	FT63432*
				A22773*	A22773*
BY129804	BY150073	BY64683*	BY64683*	BY64683*	BY64683*
		BY64683*	BY64683*	BY64683*	BY64683*
			FT60818*	FT60818*	FT60818*
			FT60818*	FT60818*	FT60818*
			FT60818*	FT60818*	FT60818*
				FT60924	FT60924*
A7930*	A7930*	A7930*	A7930*	A7930*	A7930*
		FTB1972	A7932	A7935	FTB1972*
					FTB1972*
BY104662	FT129210	BY104662*	BY104662*	BY104662*	BY104662*
		BY104662*	BY104662*	BY104662*	BY104662*
					BY153880
					BY153880*
Z16950*	Z16950*	Z16950*	Z16950*	Z16950*	Z16950*
FT70167	FT70189	FT70225	FT70290	FT70309	FT69971*
					FT69971*
		A1163*	A1163*	A1163*	A1163*
FTB12237	FTB12804	FTB20476	FTB20477	MF113588	FTA17249*
					BY65246
				A1164*	A1164*
Y59808*	Y59808*	Y59808*	Y59808*	Y59808*	Y59808*
BY24066	BY24670	FT83652	FT83915	FT84018	BY24007*
					BY24007*

<i>BY239*</i>	<i>BY239*</i>	<i>BY239*</i>	<i>BY239*</i>	<i>BY239*</i>	<i>BY239*</i>
<i>BY239*</i>	<i>BY239*</i>	<i>BY239*</i>	<i>BY239*</i>	<i>BY239*</i>	<i>BY239*</i>
<i>BY239*</i>	<i>BY239*</i>	<i>BY239*</i>	<i>BY239*</i>	<i>BY239*</i>	<i>BY239*</i>
FT166867	FT444980	Y73856	Y77272	Y80221	Z12762
		Y58780	Y45394	Y59921	<i>Y58780*</i>
					<i>Y58780*</i>
FT127785	Y107825	<i>BY17755*</i>	<i>BY17755*</i>	<i>BY17755*</i>	<i>BY17755*</i>
		<i>BY17755*</i>	<i>BY17755*</i>	<i>BY17755*</i>	<i>BY17755*</i>
		<i>FTA50931*</i>	<i>FTA50931*</i>	<i>FTA50931*</i>	<i>FTA50931*</i>
		<i>FTA50931*</i>	<i>FTA50931*</i>	<i>FTA50931*</i>	<i>FTA50931*</i>
FTA248963	FTA30981	FTA55196	<i>FTA31623*</i>	<i>FTA31623*</i>	<i>FTA31623*</i>
				FTA54744	FT142340
BY13456		<i>BY13455*</i>	<i>BY13455*</i>	<i>BY13455*</i>	<i>BY13455*</i>
		<i>BY13455*</i>	<i>BY13455*</i>	<i>BY13455*</i>	<i>BY13455*</i>
		<i>BY13455*</i>	<i>BY13455*</i>	<i>BY13455*</i>	<i>BY13455*</i>
		<i>BY13455*</i>	<i>BY13455*</i>	<i>BY13455*</i>	<i>BY13455*</i>
		<i>BY13455*</i>	<i>BY13455*</i>	<i>BY13455*</i>	<i>BY13455*</i>
	BY126626	<i>BY126626*</i>	<i>BY126626*</i>	<i>BY126626*</i>	<i>BY126626*</i>
		<i>BY126626*</i>	<i>BY126626*</i>	<i>BY126626*</i>	<i>BY126626*</i>
	BY170398	BY171638	FT133291	<i>BY170398*</i>	<i>BY170398*</i>
				<i>BY170398*</i>	<i>BY170398*</i>
		FT53015	FT275576	FT34238	<i>FT53015*</i>
					<i>FT53015*</i>
					<i>FT53015*</i>
		BY17804	<i>BY17804*</i>		
<i>BY17804*</i>					
A5411*	A5411*				
FT168236	FTA14398	FTA17279	<i>FT168236*</i>	<i>FT168236*</i>	
			<i>FTA14398*</i>	<i>FTA14398*</i>	
			<i>FTA14398*</i>	<i>FTA14398*</i>	
					<i>BY13461*</i>
					<i>BY13461*</i>
BY180080	BY196899	BY197849	FT119266	<i>BY178840*</i>	<i>BY178840*</i>
				<i>BY178840*</i>	<i>BY178840*</i>
		BY227546		<i>BY227546*</i>	<i>BY227546*</i>
				<i>BY227546*</i>	<i>BY227546*</i>
			Y68560	<i>Y68560*</i>	<i>Y68560*</i>
				<i>Y68560*</i>	<i>Y68560*</i>
					<i>BY13568*</i>
BY19560				<i>A5905*</i>	<i>A5905*</i>

DT 15300	BY13570	A5905	BY13569	A6096	A6096*
					A6096*
					A6096*
Y22342*	Y22342*	Y22342*	Y22342*	Y22342*	Y22342*
Y22342*	Y22342*	Y22342*	Y22342*	Y22342*	Y22342*
FTC23395	FTC23537	FTC24291	FTC25997	FTC31859	FTC35144
BY203448*	BY203448*	BY203448*	BY203448*	BY203448*	BY203448*
BY203448*	BY203448*	BY203448*	BY203448*	BY203448*	BY203448*
BY152563	BY152791	FT120833	FT268316	FT93029	BY152563*
					BY152563*
					BY13829*
Y23961	FT15659	FT21392	Y23961*	Y23961*	Y23961*
			FT19991	FT24439	FT19991*
					FT19991*
					FT19991*
					FT19991*
			BY17843	BY22162	Y36402
BY43259	FT85759	FT85947	FT86696	BY13457*	
				BY13458*	
				BY13458*	
				FT109355	FT268334

1	FTDNA	Surname	Country	County	Sept
1950	Kit No.	of MRKA	of origin	or city	or clan
<i>BY17790*</i>	204440	Sewell	England	Cumbria	
<i>BY17790*</i>	918592	<i>O'Leary</i>	unknown		
<i>BY17790*</i>	?	?	unknown		
<i>Z16437*</i>	848781	Mack	USA		
<i>FTB27652*</i>	380511	Harrigan	Ireland		Harrigan / Horrigan family
<i>FTB27652*</i>	959730	Harrigan	Ireland		
<i>Y129507*</i>	781021	Horrigan	Ireland		
<i>Y129507*</i>	B64589	Horrigan	Ireland		
<i>Y129507*</i>	255002	Horgan	Ireland		
<i>Y129507*</i>	B437832	Harrigan	Ireland		
<i>Y129507*</i>	N202601	Harrigan	Ireland		
<i>BY55875*</i>	725465	O'Brien	Ireland	Clare	
<i>BY55875*</i>	N113683	Orgain	Ireland		
<i>BY79403*</i>	105447	<i>Hogan</i>	Ireland		
<i>BY79403*</i>	?	?	Ireland		
<i>FT57504*</i>	835688	Donahue	USA		
<i>FT57504*</i>	?	?	USA		
<i>FTA56425*</i>	360031	Corbett	Ireland		
<i>FTC38663*</i>	102337	<i>Byer</i>	unknown		
<i>FTC38663*</i>	975868	<i>Counihan</i>	unknown		
<i>FTC61341*</i>	?	?	USA		
<i>FTC61341*</i>	?	?	USA		
<i>FGC39571*</i>	879725	Cremen	USA		
<i>FGC39568*</i>	71719	McCarthy	Ireland		
<i>FGC39568*</i>	46114	Denton	UK	London	
<i>FGC39568*</i>	150687	Nicholson	unknown		
<i>FT2878*</i>	MK32722	Brezeale	USA		
<i>FT2878*</i>	?	?	USA		
<i>FT2878*</i>	736300	Mann	USA		
<i>FT2878*</i>	100935	Martin	unknown		
<i>A15819*</i>	72239	McConnell	unknown		
A15816	101741	McConnell	Ireland		
	112904	McConnell	Ireland		
	169753	McConnell	Scotland		
	?	?	Scotland		
	?	?	Scotland		
<i>A10895*</i>	?	?	Scotland		
<i>FTB81068*</i>	303846	Sterner	unknown		
<i>FTB81068*</i>	?	?	unknown		
<i>FTB80139*</i>	965774	Allen	USA		
<i>FTB80139*</i>	?	?	USA		
<i>FT253714*</i>	283705	Daly	Ireland		

<i>FT253714*</i>	?	?	Ireland		
<i>FGC39781*</i>	B6572	Bowman	Scotland		
<i>FGC39782*</i>	219493	Miller	USA		
<i>FGC39782*</i>	?	?	unknown		
<i>A10889*</i>	498614	Treacy	Ireland	Galway	
<i>A10889*</i>	B38804	Treacy	Ireland	Galway	
<i>BY75965*</i>	808571	Hawley	Ireland	Tipperary	Hally family of Tipperary
<i>BY75965*</i>	MI13328	Hally	Ireland		
<i>BY75965*</i>	?	?	Ireland		
<i>BY75965*</i>	779672	Holly	USA		
<i>BY75965*</i>	?	?	unknown		
<i>BY75965*</i>	?	?	unknown		
<i>BY64509*</i>	742168	Hally	Ireland	Tipperary	
<i>BY64509*</i>	922379	Hally	Ireland	Tipperary	
<i>BY64509*</i>	651529	Hally	Ireland	Tipperary	
<i>FGC40165*</i>	941168	Hally	Ireland	Tipperary	
<i>Y139067*</i>	765144	Hally	Ireland	Tipperary	
BY219700	B11037	Hally	Ireland	Tipperary	
	819941	Hally	Ireland	Tipperary	
<i>Z16438*</i>	64633	O'Keefe	Ireland		
<i>BY170041*</i>	954689	Greany	Ireland		
<i>BY170041*</i>	846957	Lemieux	USA		
<i>FT366005*</i>	198681	Richards	England		
<i>FT366005*</i>	?	?	unknown		
<i>BY115773*</i>	353312	Mobberley	England		
<i>BY115773*</i>	97462	Davis	UK		
<i>FGC33226*</i>	810940	Henley	unknown		
<i>FGC33220*</i>	263525	Carroll	Ireland	Tipperary	O'Carroll of Osraige
<i>FTA97637*</i>	IN102417	Carroll	Ireland		
<i>FTA57212*</i>	MI60582	Carroll	Ireland	Kilkenny	
<i>BY61289*</i>	169466	Carroll	Ireland		
<i>BY61289*</i>	261977	Carroll	Ireland	Kilkenny	
<i>BY75104*</i>	?	?	Ireland		
<i>BY154243*</i>	103660	O'Carroll	Ireland	Tipperary	
<i>BY154243*</i>	341191	Howe	Scotland		
<i>FGC33223*</i>	?	?	Ireland		
<i>FGC33223*</i>	28645	Carroll	unknown		
<i>FGC33223*</i>	39158	Carroll	unknown		
<i>FGC33223*</i>	252617	Carroll	unknown		
<i>FGC33223*</i>	?	?	unknown		
<i>FT374222*</i>	278277	Anthony	England		
<i>FT374222*</i>	931486	Tripp	USA		
<i>FT374222*</i>	951901	Tripp	USA		
<i>FT374222*</i>	752908	Anthony	unknown		

<i>FT425589*</i>	939761	Anthony	England		Ó Glasáin (Gleeson) of Ui Liathain (not Ui Fidgenti)
<i>FT425589*</i>	962423	Anthony	England		
<i>BY14197*</i>	848412	Carles	USA		
BY14189	687631	Clesson	Ireland		
	524241	Gleeson	Ireland	Tipperary	
	371202	Gleeson	Ireland	Tipperary	
	?	?	Ireland		
A660	334030	Gleeson	Ireland		
	244645	Gleeson	Ireland	Tipperary	
	N101540	Gleeson	Ireland	Tipperary	
<i>A13103*</i>	N74958	Gleeson	Ireland	Tipperary	
<i>A13103*</i>	845494	Gleeson	Ireland		
FT89811	338070	Gleason	Ireland		
	60393	Gleason	Ireland		
	249281	McLachlan	Scotland		
	475806	Gleeson	Ireland	Clare	
	?	?	unknown		
<i>BY5706*</i>	86192	Gleason	Ireland	Clare	
<i>BY5706*</i>	458407	Gleeson	Ireland	Kilkenny	
<i>A13119*</i>	623521	Gleeson	Ireland	Tipperary	
<i>A13119*</i>	411177	Glisson	Ireland		
A13110	159395	Gleeson	Ireland		
	438976	Gleeson	Ireland		
A13116	402306	Gleeson	Ireland	Tipperary	
	498597	Gleeson	Ireland	Galway	
	371160	Gleeson	Ireland	Tipperary	
	437987	Gleeson	Ireland		
	?	?	Ireland		
<i>Z16435*</i>	354478	Nee	Ireland		
<i>Z16435*</i>	?	?	Ireland		
<i>FT228996*</i>	?	?	England		
<i>FT228996*</i>	?	?	unknown		
<i>FT215553*</i>	B425061	Hughes	Ireland	Mayo	
<i>FT215553*</i>	?	?	unknown		
<i>PH158*</i>	IN10471	O'Brien	unknown		
<i>PH3210*</i>	292989	McMahon	Ireland	Kerry	
<i>PH3210*</i>	B787978	Mahony	Ireland		
<i>PH3210*</i>	?	?	Ireland		
<i>PH3210*</i>	?	?	unknown		
<i>FT151180*</i>	B726092	Halpin	Ireland		
<i>FT151180*</i>	?	?	unknown		
<i>BY134977*</i>	873023	Behanna	USA		
<i>FT59161*</i>	153167	McMahon	Ireland		
<i>FT59161*</i>	B309393	McMahon	Ireland		

BY143941*	B142101	O'Dea	Ireland	Galway	
BY143941*	699895	O'Day	Ireland	Galway	
	IN66558	O'Cathain	Ireland		
BY109851*	943782	Supple	Ireland	Cork	
BY109851*	?	?	Ireland		
FT200411	B193912	Neville	Ireland	Tipperary	
	?	?	Ireland		
BY112000*	634588	Kennedy	Ireland	Kerry	
BY112000*	?	?	unknown		
FT232952*	IN41778	McPherson	unknown		
FT232952*	IN44175	Neville	unknown		
Z16444*	228288	Prendergast	Ireland		
BY17802*	170252	Phelps	England		
BY17802*	471431	Phelps	USA		
BY17802*	100136	Phelps	unknown		
BY17802*	508293	Phelps	unknown		
FT209385*	B420572	Hoare	unknown		
FTB93730*	968058	Goff	unknown		
FTB93730*	?	?	unknown		
FGC39981*	313424	Culhane	Ireland		
BY34984*	206835	Blake	Ireland		
BY34984*	?	?	Ireland		
FGC39974*	295738	Blake	Ireland		
FGC39974*	252528	Blake	Ireland		
BY34986*	889038	Foley	Ireland		
FT4072*	IN25696	Gray	Ireland		
FT4072*	IN23252	MacSween	Scotland	Isle of Lewis	
FT5004	?	?	Ireland		
	?	?	Ireland		
FTB66101*	114435	Phelps	UK		
FTB66101*	488429	Phelps	USA		
FTB67025*	395412	Phelps	England		
FTB67025*	?	?	England		
	162307	Phelps	England		
A13218	582221	Plunkett	Ireland	Wicklow	
	465373	Plunkett	Ireland	Wicklow	
FT385749*	810440	Owens	USA		
FT385749*	629613	King	unknown		
FT385749*	?	?	unknown		
BY93716*	389856	Myrick	unknown		
FT22631*	310072	Mirick	England		
FT22631*	?	?	unknown		
FT22631*	?	?	unknown		
FT255888*	?	?	unknown		

<i>FT255888*</i>	?	?	unknown			
<i>FT286053</i>	299396	Mericke	Wales			
	B745964	Myrick	unknown			
	938727	Myrick	unknown			
	940908	Myrick	unknown			
	932646	Myrick	unknown			
<i>FT257298*</i>	?	?	USA			
<i>FT257298*</i>	871485	Myrick	unknown		Myrick family	
<i>FT257298*</i>	?	?	unknown			
<i>BY67908*</i>	301694	Pooley	Ireland			
<i>BY67908*</i>	MK32430	Merick	unknown			
<i>BY67908*</i>	209154	Mericke	unknown			
<i>BY67908*</i>	944476	Myrick	unknown			
<i>BY67908*</i>	949244	Myrick	unknown			
<i>FT257375*</i>	844335	Merick	unknown			
<i>FT257375*</i>	?	?	unknown			
<i>FT87947</i>	95361	Merick	Wales			
	881537	Myrick	unknown			
	297950	Merick	Wales			
	936507	Mericke	unknown			
<i>Z16434*</i>	142257	Wilson	UK			
<i>FGC80009*</i>	850389	Duncan	Scotland	Kincardineshire		
<i>FGC80009*</i>	?	?	unknown			
<i>BY17687*</i>	365198	Grubb	Sweden			
<i>BY17687*</i>	?	?	Norway			
<i>BY17735*</i>	44088	Kelly	USA			
<i>BY95256*</i>	?	?	Wales			
<i>BY95256*</i>	?	?	unknown			
<i>BY17864*</i>	N2553	Weymouth	England	Devon		
<i>FT3394*</i>	N266003	Fowle	unknown			
<i>FT3388*</i>	?	?	USA			
<i>FT3421*</i>	34696	Lumsden	Scotland			
<i>FT3386*</i>	77373	Lumsden	Ireland			
<i>FT3386*</i>	55060	Lumsden	UK			
<i>FT3386*</i>	144192	Lumsden	Scotland			
<i>FT65986*</i>	AM17616	Wilson	Ireland			
<i>FT65986*</i>	893732	Townsend	England			
<i>FT65986*</i>	?	?	unknown			
<i>FTA44324*</i>	645273	Johnson	unknown			
<i>FTA44324*</i>	IN96997	Oswald	unknown			
<i>BY17850*</i>	?	?	unknown			
<i>FT10114*</i>	N22309	Ireland	USA			
<i>FT10114*</i>	952397	Ireland	USA			
<i>FT10114*</i>	29246	Ireland	unknown			

<i>FT47775*</i>	534572	Ireland	Ulster	Armagh	Ireland family
<i>FT47775*</i>	IN42168	Ireland	Ulster		
<i>FT47775*</i>	?	?	Ulster		
<i>FT373601*</i>	964006	Porter	England		
<i>FT373601*</i>	96683	Downing	England		
<i>FT373601*</i>	92891	Downing	UK		
<i>BY56157*</i>	B340378	Johnston	Scotland	Dunfries	
<i>BY37889*</i>	11681	Ireland	Ulster		
<i>BY81347*</i>	B146648	Ireland	Ireland		
<i>BY81347*</i>	546459	Ireland	unknown		
<i>BY24843*</i>	234536	Williams	unknown		
<i>BY23813*</i>	641337	Jones	unknown		
<i>BY23813*</i>	?	?	unknown		
<i>BY2849*</i>	IN64997	Fitzpatrick	Ireland	Down	Fitzpatrick family of Down (Uí Failghe?)
<i>BY2849*</i>	?	?	Ireland		
<i>BY52612*</i>	H2172	Fitzpatrick	Ireland	Louth	
<i>BY52612*</i>	747220	Fitzpatrick	unknown		
<i>FT180404*</i>	146956	Fitzpatrick	Ireland	Louth	
<i>FT180404*</i>	859014	Fitzpatrick	Ireland		
<i>FT180404*</i>	?	?	unknown		
<i>BY17746*</i>	151633	Fitzpatrick	Ireland	Down	
<i>BY17746*</i>	?	?	unknown		
<i>BY17746*</i>	?	?	unknown		
<i>BY154004*</i>	IN11861	Fitzpatrick	Ireland	Down	
<i>BY154004*</i>	?	?	unknown		
<i>BY2894*</i>	H2210	Fitzpatrick	Ireland	Kildare	
<i>BY2893*</i>	361413	Fitzpatrick	Ireland	Down	
<i>BY2893*</i>	?	?	unknown		
<i>BY34974*</i>	91155	Fitzpatrick	Ireland	Down	
<i>BY34974*</i>	561786	Fitzpatrick	Ireland		
<i>BY2891*</i>	362579	Fitzpatrick	Ireland	Down	
<i>BY2891*</i>	H1868	Fitzpatrick	Ireland	Down	
<i>BY2891*</i>	247763	Fitzpatrick	Ireland	Down	
<i>FT250599*</i>	291000	Harrington	Ireland		Ó hArrachtáin (Harrington)
<i>Y76205*</i>	B533335	Harrington	Ireland		
<i>FT394822*</i>	B59694	Caldwell	USA		
<i>FT394822*</i>	?	?	unknown		
<i>FTB79857*</i>	123073	Hingerty	Ireland		
FTB79413	?	?	Ireland		
	?	?	Ireland		
FTB81293	?	?	Ireland		
	?	?	Ireland		
	?	?	Ireland		
<i>BY17814*</i>	943299	Harrington	unknown		

<i>BY17814*</i>	?	?	unknown		
<i>PH1531*</i>	430076	O'Brien	Ireland	Cork	
<i>FGC33453*</i>	966058	Sharpe	USA		
<i>FGC33453*</i>	336609	Harrington	unknown		
<i>FT250599*</i>	291000	Harrington	Ireland		
<i>Y76205*</i>	B533335	Harrington	Ireland	Cork	
<i>FT394822*</i>	B59694	Caldwell	USA		
<i>FT394822*</i>	?	?	unknown		
<i>BY582*</i>	315017	Friberg	Sweden	Västergötland	
<i>FTB79373*</i>	?	?	unknown		
<i>FTA15889*</i>	IN68945	Foley	Ireland		
<i>FTA15889*</i>	458747	Armstrong	unknown		
<i>FTC75367*</i>	?	?	Ireland		
<i>FTC75367*</i>	960054	Lindsey	unknown		
<i>BY17693*</i>	156426	O'Shea	Ireland		
<i>BY17737*</i>	143543	O'Shea	Ireland		
<i>BY17737*</i>	10359	Shea	Ireland	Cork	
<i>FTB26986*</i>	283135	O'Sullivan	USA		
<i>FTC27311*</i>	967849	Culbert	Ulster		
<i>FTC27311*</i>	978805	Foley	unknown		
<i>FTC52757*</i>	B78703	Foley	Ireland		
<i>FTC52757*</i>	?	?	Ireland		
<i>Z18138*</i>	260225	Toole	Ireland		
<i>FTA22689*</i>	N45413	Murphy	Ireland		
<i>FTA22689*</i>	B3454	Murphy	Ireland	Kerry	
<i>FGC80005*</i>	891606	<i>Charles</i>	unknown		
<i>BY98445*</i>	268986	Murphy	Ireland		
<i>FT126108*</i>	?	?	Ireland		
<i>FT149430*</i>	908914	Murfee	USA		
<i>FTB13865*</i>	N70770	Murphy	USA		
<i>FTB13865*</i>	MK43850	Murphy	unknown		
<i>FGC80003*</i>	?	?	Ireland		
<i>Z18136*</i>	B26702	Murphy	Ireland		
<i>Z18136*</i>	444867	Murphy	Ireland		
<i>Z18136*</i>	185218	Murphy	Ireland		
<i>Z18136*</i>	32324	Murphy	Ireland		
<i>Z18136*</i>	SI14590	Murphy	unknown		
<i>BY182578*</i>	?	?	Ireland		
<i>FT139268*</i>	406963	Murphy	Ireland		
<i>FT139268*</i>	365284	Merithew	USA		
<i>FT410160*</i>	B261970	Murphy	unknown		
<i>FT410355*</i>	IN98121	Murphy	Ireland		
<i>FT410355*</i>	B536146	Murphy	Ireland		
<i>FGC79206*</i>	B549244	Murphy	Ireland		

Mac
Murchada
(Murphy) of
Uí
Cheinnselaig
?

FGC79206*	51303	Murphy	Ireland	Kerry
FGC79206*	?	?	USA	
FGC79206*	290003	Creasey	unknown	
FGC33028*	?	?	Ireland	
FGC33028*	380024	Wilton	USA	
FGC33028*	?	?	unknown	
FGC33024*	180233	Deaton	UK	
FGC33032	353516	Phillips	unknown	
	275787	Phillips	unknown	
	181871	Phillips	unknown	
Z16429*	249841	Gatland	England	
Z16429*	232063	Sheets	unknown	
FT22281*	IN35743	Jonsson	Sweden	
FTB47804*	87217	Haynes	unknown	
FTB48637*	?	?	unknown	
FTB48637*	?	?	unknown	
FT22340*	464238	McIlwain	Scotland	
FT122520*	314542	McMichael	Ulster	Antrim
FT122520*	200480	Carmichael	Scotland	Isle of Lismore
FT122520*	902793	McMickle	unknown	
FT168526*	B127785	Farley	Ireland	
FT168526*	?	?	Ireland	
A1245*	26064	Massie	England	
A1254*	928466	Lawler	unknown	
A1254*	?	?	unknown	
BY13577*	IN39826	Dalton	UK	
FT78842*	862259	Doty	England	
FT78842*	260032	Stuart	unknown	
FT78842*	?	?	unknown	
FT78230*	33100	Doty	England	London
FTB93672	540703	Baldwin	England	
	66478	Baldwin	UK	
FTB28505*	?	?	unknown	
FTB28505*	?	?	unknown	
BY848*	?	?	unknown	
FT151007*	N14214	Beattie	Ireland	
FT151007*	?	?	Scotland	
FT151007*	?	?	unknown	
BY82118*	368666	Abrams	Ireland	
BY82118*	215532	Beatty	UK	
BY17828*	97041	Beattie	Scotland	
A6308*	3032	Beatty	Ireland	Sligo
A6308*	?	?	Scotland	
BY17769*	6555	Beaty	Scotland	

BY17769*	?	?	unknown		
FT111419*	202885	Beatty	unknown		
FTB70020*	?	?	unknown		
FTB70020*	?	?	unknown		
FGC32914*	?	?	Ireland		
FGC32914*	?	?	Ulster		
A816*	158241	Betty	Ireland	Fermanagh	
A816*	?	?	Ireland		
A1154*	?	?	Ireland		
A1154*	87861	Beattie	Scotland		
A1154*	?	?	USA		
A1154*	367233	Beatty	unknown		
FGC53016*	84037	McLaughlin	Ireland	Donegal	
FGC53016*	?	?	Ireland		
FGC53016*	?	?	unknown		
BY100666	?	?	Scotland		
	950417	Carr	unknown		
FT33038*	?	?	England		
FT33038*	IN87492	Beattie	Scotland		
FT33038*	?	?	unknown		
FT33038*	?	?	unknown		
A11117*	197704	Beatty	Ireland		
A11117*	272701	Beaty	Scotland		
BY3247*	?	?	Ireland		
BY3247*	?	?	Ireland		
BY3247*	13806	Beatty	Scotland		
BY3247*	3055	Beattie	Scotland		
A12437*	?	?	unknown		
BY17731*	3023	Beatty	Ireland		
BY153096*	B361226	Beatty	Ireland		
BY153096*	?	?	Scotland		
A12493*	?	?	Ireland		
A12493*	335826	Beaty	USA		
A12493*	?	?	USA		
A12493*	44923	Beaty	unknown	Ulster	
A12493*	?	?	unknown		
BY113219*	26719	Beaty	unknown		
BY113219*	?	?	unknown		
BY136940*	?	?	Ireland		
BY136940*	3030	Beatty	Ulster		
BY136940*	?	?	Ulster		
BY519*	580859	Crowe	Ireland		
BY519*	IN85600	Dempsey	Ireland		
BY519*	865718	Kelley	USA		

Mac
a'Bhiadhtaigh
(Beatty)

Z7368*	IN115938	Chambonnet	France		
FTA22066*	IN94769	McLean	Scotland	Dunbartonshire	
FTA22066*	?	?	Canada		
FTB9888*	365986	McNeany	Ireland		
FTB9888*	IN106602	Byrd	unknown		
FT384276*	934440	McGeoghegan	Ireland		
FTB12993*	?	?	England		
FTB12993*	?	?	USA		
BY176421*	N114085	Graham	Scotland		
BY176421*	771425	Graham	unknown		
BY97501*	B3620	Kaighn	USA		
BY97501*	?	?	unknown		
Y67279*	IN26538	Forty	England	Gloucestershire	
Y67279*	?	?	England		
FT241856	26499	Ball	England		
	?	?	unknown		
FT148968*	?	?	USA		
FT148968*	?	?	unknown		
FTB62555*	?	?	USA		
FTB62555*	?	?	unknown		
FTB62555*	?	?	unknown		
BY183891*	?	?	England		
BY183891*	246779	Barbar	UK		
BY183891*	IN36048	Barker	unknown		
BY183891*	?	?	unknown		
FTB76003*	149289	Johnson	England		
FTB76332*	?	?	England		
FTB76332*	916942	Johnson	USA		
FTB76332*	632045	Johnson	USA		
FTC24745*	?	?	unknown		
FTC40717	260689	Quigley	Ireland		
	403896	Quigley	Ireland		
BY145271*	497396	Quigley	Ireland		
BY145271*	555876	Quigley	Ireland	Louth	
BY39718*	35654	Quigley	Ireland		
BY39718*	MK44660	Quigley	Ireland		
BY39718*	?	?	UK		
BY39718*	N213837	Drake	USA		
FT216236*	198110	Dunlap	unknown		
FT216236*	B264865	Dunlap	unknown		
BY39719*	B387385	Quigley	USA		
FT195541	B391603	Quigley	Ireland		
	945036	Quigley	unknown		
	721347	Quigley	USA		

Ó Coighligh
(Quigley)
family

BY39720	738386	Quigley	USA	
	?	?	USA	
BY34975*	16860	Neilson	Scotland	
BY34975*	H1261	McCoy	unknown	
BY91968*	206460	Meehan	Ireland	
BY91968*	?	?	Ireland	
Y144612	358255	Sullivan	Ireland	
	877556	Sullivan	Ireland	
	373352	Sullivan	Ireland	
BY17734	350296	O'Sullivan	Ireland	
	IN64436	O'Sullivan	Ireland	
FT391727	934396	Lee	Ireland	
	?	?	unknown	
BY13541*	?	?	England	
BY13541*	809927	Faulkner	unknown	
BY17820*	632190	Wilson	USA	
BY17820*	262052	Knowles	Australia	
A10638*	77772	Davidson	Ireland	
A10638*	130408	Davidson	Ulster	Armagh
A5625*	273539	Humphris	England	
BY17709*	?	?	USA	
BY142668*	N47848	Adams	UK	
BY142668*	?	?	unknown	
ZZ8_1*	96964	Anderson	Scotland	
ZZ8_1*	88224	Quilliam	Isle of Man	
A1238*	73524	Cameron	Scotland	
A1235*	IN97368	Berry	Ireland	
A1235*	406069	Lawler	Ireland	
BY147610*	N8296	Barry	Ireland	Limerick
BY147610*	?	?	Ireland	
A1241*	?	?	Ireland	
A1241*	178431	Berry	unknown	
FT38573*	?	?	USA	
BY17874*	891156	Moriarty	Ireland	
BY17874*	891166	Moriarty	Ireland	
BY17874*	547432	Moriarty	Ireland	
FT69488*	IN75319	Sugrue	Ireland	
BY13557*	?	?	USA	
BY13557*	254596	Fowler	unknown	
BY13557*	173273	Fowler	unknown	
BY54491	590211	Williams	USA	
	922640	Williams	USA	
BY17676*	495786	Rowan	USA	
BY17676*	172905	Fowler	unknown	

BY78319	860201	Cobbs	USA		
	860202	Cobbs	USA		
	MK40804	Cobbs	USA		
	342459	Cobbs	USA		
BY17742*	307478	Sullivan	Ireland	Limerick	
BY17742*	821791	Sullivan	Ireland		
Y82542*	B120031	Duggan	Ireland		
Y82542*	N255905	Sullivan	Ireland		
A10318*	542528	McGregor	Scotland		
A10318*	269197	McCleary	USA		
A10318*	?	?	unknown		
FTB848*	?	?	USA		
FTB848*	?	?	unknown		
FTA73514*	?	?	USA		
FTA73514*	?	?	unknown		
A10323*	345775	Boston	unknown		
FTB40080*	367220	Rankin	Scotland		
FTB40080*	?	?	unknown		
FGC89461*	N70293	McClure	Scotland		
FGC89461*	280725	Wilson	Scotland		
FGC89461*	?	?	unknown		
A10317*	181025	Gaston	Ireland		
A10317*	120891	Taylor	Ireland		
A10317*	231778	Gaston	Ireland		
A10317*	119485	Gaston	Ulster	Antrim	
A10317*	N38274	Gaston	Ulster	Antrim	
A10317*	428130	Gaston	Ulster		
A10317*	174926	Gaston	Scotland		
A10317*	112309	Gaston	France		
A10317*	422073	Barrington	England		
FT146131*	B62619	Gaston	Ulster		
FT146131*	140816	Gaston	unknown		
BY17946*	38554	McInvale	Ireland		
BY17946*	510675	McIlvaill	Scotland	Ayrshire	
BY17946*	?	?	Scotland		
BY17946*	?	?	Scotland		
Y83065*	588629	Bennett	Wales		
Y83065*	?	?	Wales		
Y83065*	174285	Bradley	England		
BY80922*	574701	Darden	unknown		
BY80922*	?	?	unknown		
ZZ7_1*	204641	Poole	England		
ZZ7_1*	599430	Dorsey	Ireland	Meath	
FT37917*	B757107	Taylor	England		

FT37917*	B6014	Pattison	USA		
BY17689*	B346770	Collins	Ireland		
BY17689*	146205	Cullen	Ireland		
BY100966*	?	?	Ireland		
BY100966*	?	?	unknown		
BY161296*	N38775	Shaw	Scotland		
BY161296*	B695310	McLennan	Scotland		
FT76359*	B555899	Black	Ulster		
FT76359*	138281	Rennie	Scotland	Glasgow	
BY17700*	142920	Richardson	Scotland	Roxburghshire	
Y82840*	486169	Richardson	Scotland	Roxburghshire	
Y82840*	327018	Richardson	Scotland	Roxburghshire	
Y82840*	?	?	Scotland		
BY13573*	649557	Evans	Wales		
BY13572*	927142	Murphy	Ireland	Wexford	
BY13572*	?	?	unknown		
FT126951*	262456	Warford	England		
BY24204*	B848138	Redmond	Ireland		
BY24204*	337626	Langton	Ireland		
BY24204*	584492	Horton	USA		
BY17703*	261679	Sims	USA		
BY221275*	198641	Sykes	England		
BY221275*	49354	Sykes	USA		
BY24690*	?	?	USA		
BY24690*	?	?	unknown		
BY24690*	?	?	unknown		
BY24690*	?	?	unknown		
FTB59395*	876843	Kavanagh	Ireland		
FTB59395*	495421	McDonald	USA		
FTB59395*	827674	McKenzie	unknown		
BY17807*	B270980	Burns	USA		
BY17807*	239563	Botts	unknown		
BY34981*	91	Toole	unknown		
BY34981*	529520	Fields	unknown		
BY34981*	?	?	unknown		
BY34981*	?	?	unknown		
Y12458*	B1170	MacKenzie	Scotland		
Y12458*	E19070	Stamboliyski	Bulgaria	Pernik	
FT228876*	896344	Hixon	unknown		
FT229521*	?	?	Ireland		
FT229521*	B554091	Lacy	Ulster		
BY17708*	933083	Dooley	Ireland		
Y64654*	395791	Dooley	Ireland		
Y64654*	N2281	Anderson	USA		

A15515*	N92898	White	Wexford		
BY206779*	?	?	unknown		
BY208995*	B39807	Carson	unknown		
BY208995*	?	?	unknown		
FT130399*	B501373	Foley	Ireland		
FT130399*	53904	Foley	Ireland	Laois	
FTB88075*	?	?	Ireland		
FTB87544*	N140952	Riley	unknown		
FTB87544*	?	?	unknown		
FTC49084*	B802962	Neil	Ireland		
FTC49084*	?	?	Ireland		
FT41118*	?	?	Ireland		
FT41118*	734672	Grant	USA		
BY18007*	246890	Byrne	Ireland		
BY18009*	B81290	Walsh	Ireland		McHale family of Mayo
BY18009*	153270	McHale	Ireland		
BY17745*	15844	Brabazon	Ireland	Mayo	
BY17745*	109048	McHale	Ireland	Mayo	
BY17745*	?	?	unknown		
BY18010*	180361	McHale	Ireland		
BY18010*	519049	McHale	Ireland	Mayo	
BY18010*	410880	Blumberg	Ireland		
BY2574*	IN57427	Mattinson	England		
BY123460*	326583	Singleton	England	Somerset	
BY123460*	976565	Gedney	England	Lincolnshire	
FTB52904*	176557	Shingleton	UK		
FTB52904*	?	?	unknown		
FTB35768*	B161358	Cottam	England		
FTB35768*	?	?	unknown		
BY17725*	N11370	Cotton	England	London	
BY17725*	189162	Cotham	USA		
FT109085*	FT109085	Clayton	England	Derbyshire	
FT109085*	?	?	England		
FT109085*	?	?	England		
FTA50113*	914621	Singleton	unknown		
FTA50113*	?	?	unknown		
FT10498*	234182	Brennan	Ireland		
FT10498*	?	?	UK		
FT235841*	B419169	Storey	England	London	
FT235841*	?	?	unknown		
BY65001*	643585	Bridge	England		
BY116926*	IN95564	Hallinan	Ireland	Cork	
BY113171*	B304519	Walsh	Ireland		
BY113171*	661249	Walsh	unknown		

BY113171*	B190668	Walsh	unknown		
BY17697*	?	?	Scotland		
BY17697*	96196	Cienfuegos	unknown		
BY172925*	?	?	Scotland		
FTA23373*	B312592	Mackgahye	Ireland		
FTA23373*	453341	Mackge	USA		
BY74051*	N24236	Wood	unknown		
FT80764*	B633632	Bridson	Isle of Man		
BY57459*	169910	Field	unknown		
BY57459*	475697	Field	unknown		
BY57459*	B626920	Field	unknown		
FT80737	B67193	Davis	USA		
	?	?	USA		
A11306*	97440	Grant	UK		
FT10131*	300992	Stewart	USA		
FT8730*	873964	Stewart	USA		
FT8730*	AM12845	Stewart	unknown		
FT8730*	377749	Stewart	unknown		
FTA40237*	901879	Stuart	unknown		
FTA40237*	?	?	unknown		
Z16430*	?	?	Ireland		
Z16430*	?	?	Ireland		
Z16430*	265077	Lloyd	Wales	Denbighshire	
Z16430*	?	?	USA		
Z16430*	122029	Cox	USA		
BY24282*	253376	Bolge	Ireland	Carlow	
BY24282*	836204	Bolger	unknown		
BY122479*	921084	Gorman	Ireland		
BY114951*	500870	O'Neill	Ireland		
BY114951*	910574	O'Neill	Ireland		
BY105209*	?	?	Ireland		
FT144039*	722131	O'Neill	Ireland		
FT144039*	IN32196	O'Neil	Ireland	Wicklow	
FT144039*	?	?	unknown		
Z16432*	B245712	O'Brien	Ireland	Wexford	
Z16432*	?	?	?		
Z16432*	40730	Park	unknown		
FTA75925*	480401	McCarthy	Ireland	Laois	
FTA75925*	?	?	unknown		
BY13561*	90790	Coyle	unknown		
BY13561*	?	?	unknown		
BY65148*	29418	Burrell	England		
BY65148*	107028	Burrell	USA		
BY65148*	?	?	unknown		

BY65148*	?	?	unknown		
A10121*	350294	Kenny	Ireland		
A10121*	?	?	Ireland		
FT109300*	B3447	Cullen	Ireland		O'Cullens of Leinster
FT109300*	793180	Collins	Ireland		
A7947*	412477	Cullen	Ireland	Wexford	
FT18733*	IN23619	Cullen	Ireland	Tipperary	
FT18733*	?	?	Ireland		
FT18733*	?	?	Ireland		
FT18913*	?	?	Ireland		
BY17750*	?	?	unknown		
BY38521*	865427	Jones	unknown		Ó Dubhghaill (O'Doyle) clan? uncertain due to lack of surname project
BY38521*	352519	Jones	unknown		
BY38521*	?	?	unknown		
BY38521*	?	?	unknown		
FT124501*	65178	Walsh	Ireland	Wexford	
FT124501*	B720438	Abdon	USA		
FT63432*	889610	Doyle	Ireland		
FT63432*	?	?	Ireland		
A22773*	?	?	Ireland		
BY64683*	309671	Walsh	Ireland	Cork	
BY64683*	?	?	Ireland		
FT60818*	191082	Doyle	Ireland		
FT60818*	926140	?	Ireland		
FT60818*	?	?	unknown		
FT60924*	B223938	Stevens	unknown		
A7930*	?	?	Ireland		
FTB1972*	35733	Spence	unknown		
FTB1972*	?	?	unknown		
BY104662*	?	?	Ireland		
BY104662*	326569	Brown	unknown		
BY153880*	M116268	Doyle	Ireland		
BY153880*	180129	Doyle	Ireland		
Z16950*	572454	O'Brien	unknown		
FT69971*	B86801	Reynolds	England		
FT69971*	316796	Reynolds	England	Isle of Wight	
A1163*	133488	Byrne	Ireland		
FTA17249*	IN76846	Kelly	Ireland		
BY65246*	276567	Sinel	Ireland		
BY65246*	?	?	Ireland		
A1164*	325507	Wynne	Ireland		
Y59808*	N6856	Breen	Ireland		
BY24007*	5074	Byrne	Ireland		
BY24007*	121122	Byrne	Ireland	Kilkenny	

BY239*	888705	O'Bryant	Ireland	
BY239*	827022	Byrne	Ireland	
BY239*	B3507	Burns	England	
BY17765*	870294	Byrnes	Ireland	
BY17765*	?	?	Ireland	
BY17765*	?	?	unknown	
Y58780*	170615	Byrne	Ireland	
Y58780*	?	?	unknown	
BY17755*	823666	Byrne	Ireland	Wicklow
BY17755*	379991	Byrne	Ireland	
FTA50931*	114593	Burns	Ireland	
FTA50931*	IN106546	Byrne	Ireland	
FTA31623*	IN30824	Darcy	Ireland	Wicklow
FTA54744*	287447	Burnett	USA	
FTA54744*	?	?	USA	
BY13455*	507945	Burns	Ireland	
BY13455*	277423	Burns	Ireland	
BY13455*	?	?	Ireland	
BY13455*	940512	Carson	USA	
BY13455*	484573	Phares	unknown	
BY126626*	B3564	Burns	Ireland	
BY126626*	961480	Byrne	unknown	
BY170398*	823633	Burns	unknown	
BY170398*	477196	De Vere	unknown	
FT53015*	175814	Burns	Ireland	
FT53015*	32690	Byrne	Ireland	Kildare
FT53015*	?	?	unknown	
BY17804*	N2871	Burns	Ireland	
BY17804*	?	?	UK	
A5411*	232724	Byrne	Ireland	
FT168236*	120689	Jordan	Ireland	
FTA14398*	IN107058	Devine	Ireland	
FTA14398*	942485	O'Brien	Ireland	
BY13461*	265781	Byrne	unknown	
BY13461*	?	?	unknown	
BY178840*	837962	Norton	unknown	
BY178840*	?	?	unknown	
BY227546*	434730	Byrne	Ireland	
BY227546*	312570	Byrne	unknown	
Y68560*	31641	Byrne	Ireland	Wicklow
Y68560*	807542	Ennis	unknown	
BY13568*	367303	Webster	USA	
BY13570*	490280	Byrne	Ireland	
A5905*	191233	Hill	unknown	

Ó Broin sept
(O'Byrne) of
Uí Dunlainge

A6096*	217139	Glover	UK	
A6096*	415142	Bunn	unknown	
A6096*	232917	Bunn	unknown	
Y22342*	233446	Byrne	Ireland	Kilkenny
Y22342*	473313	Byrnes	unknown	
FTC23222	332661	Byrnes	Ireland	
	?	?	Ireland	
BY203448*	360398	Byrne	Ireland	
BY203448*	891920	Lambert	unknown	
BY152563*	MI14837	Burns	Ireland	
BY152563*	226672	Burns	unknown	
BY13829*	312566	Byrne	Ireland	
Y23961*	107642	Byrn	Ireland	Kildare
FT19991*	950012	Taylor	USA	
FT19991*	?	?	USA	
FT19991*	18882	Barnes	unknown	
FT19991*	867764	Barnes	unknown	
BY17720	373390	Burns	Ulster	
	507764	Burns	unknown	
	?	?	unknown	
BY13457*	B196227	Byrne	Ireland	
BY13458*	31911	Byrne	Ireland	Wexford
BY13458*	773052	Byrne	Ireland	
BY76866	196076	Byrne	Ireland	Wexford
	IN82026	Byrne	Ireland	Wexford

31	30	29	28	27	26
0	65	130	195	260	325

				PH1119	FGC74623
				FTA30901	FTA30532

A22 et al. (16
SNPs,
branching
1040 BCE)

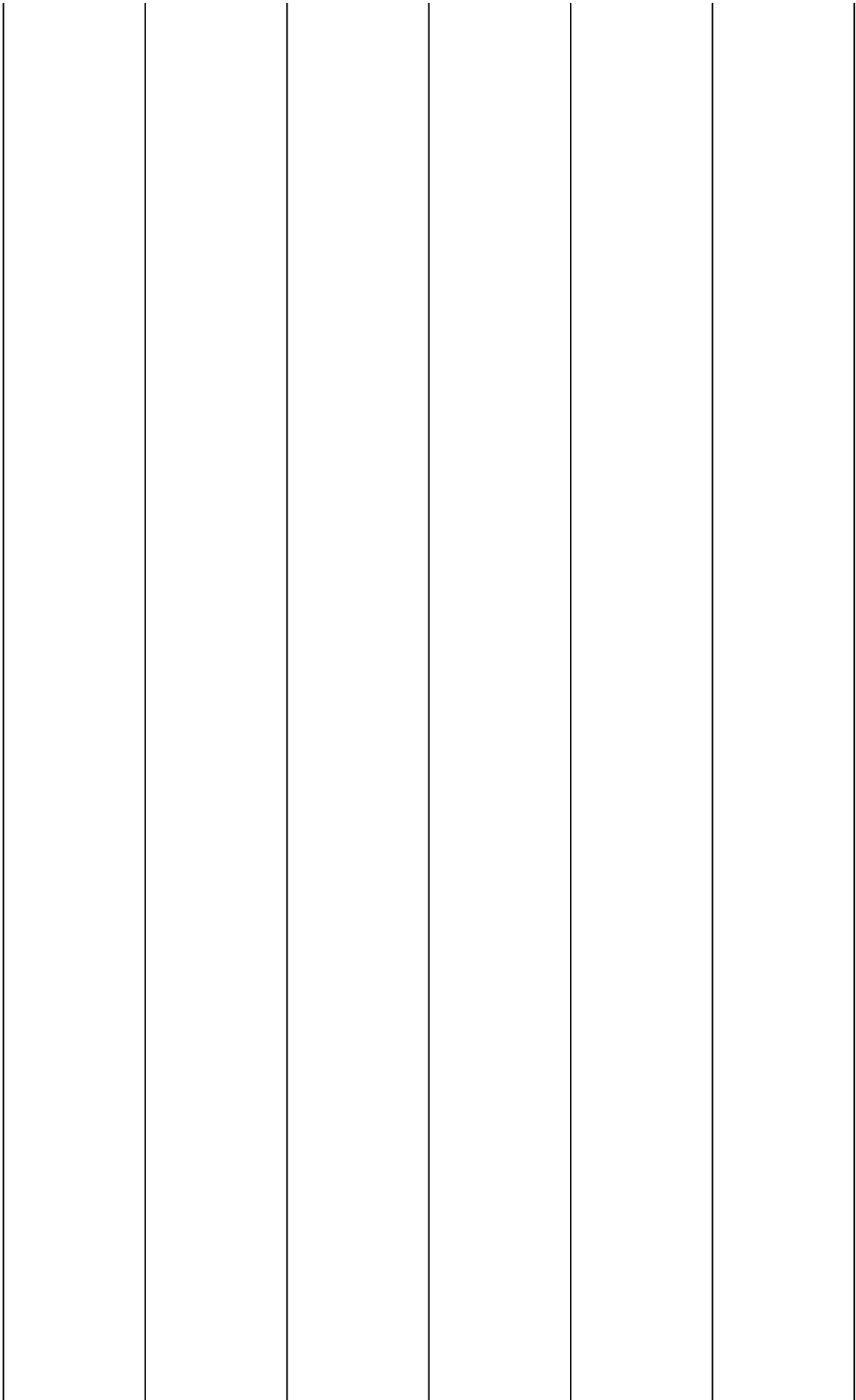
S856

FGC13897

FGC8531

S845

FGC8533



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FGC20564	FGC20567

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FGC8536

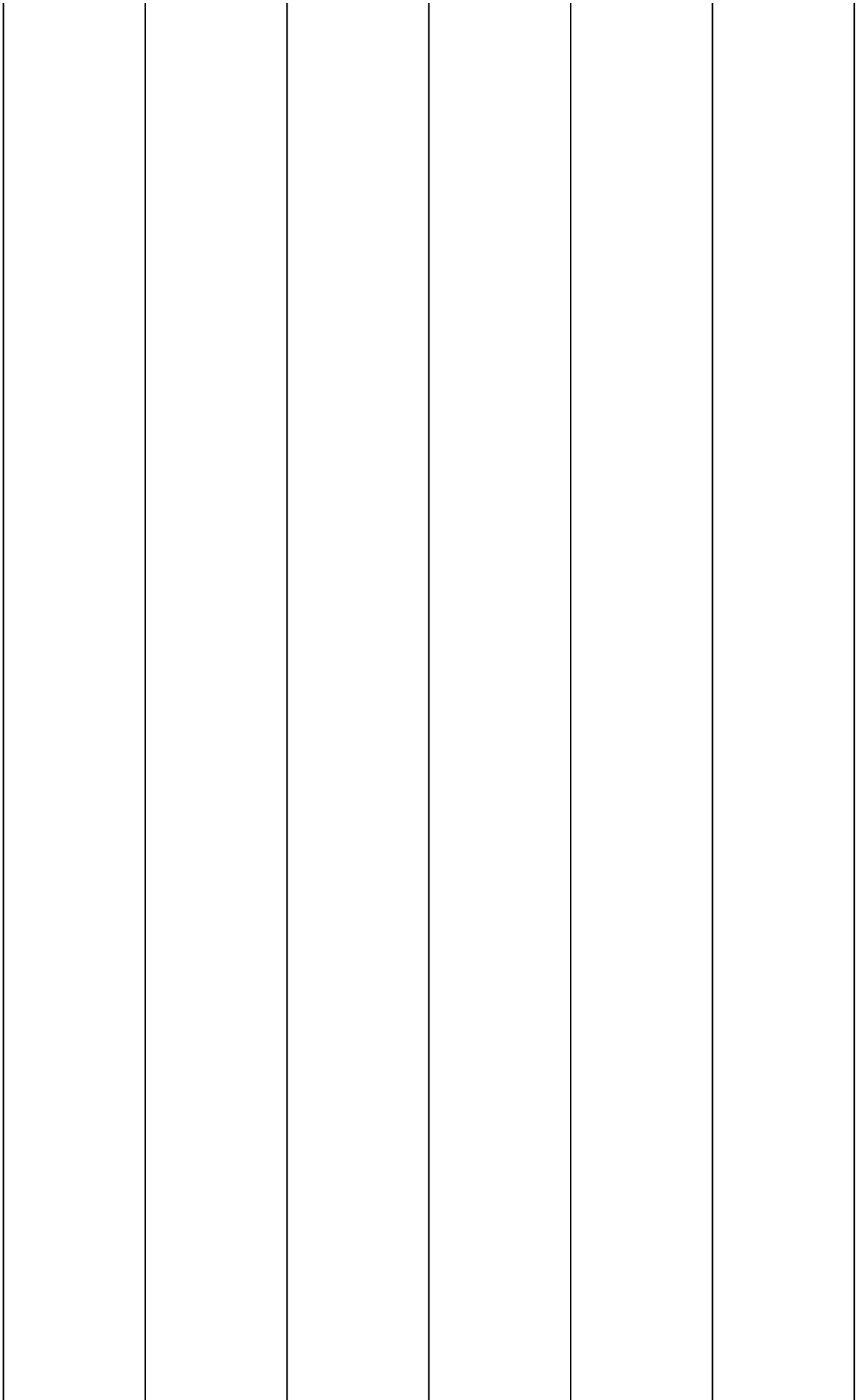
FGC8537

S846

FGC8539

FGC20559

FGC8541



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19	18	17	16	15	14
780	845	910	975	1040	1105
		BY75628	BY100893	BY110420	BY117718

<i>BY150117*</i>	<i>BY150117*</i>	<i>BY150117*</i>	<i>BY150117*</i>	<i>BY150117*</i>	<i>BY150117*</i>
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FGC74617	FGC74618 > FGC64619	FT18011	FT26312	Y136177	BY4067
FTB9013	FTB6265	FTB7013	FTB7811	FTB7987	FTB8299

BY162284	FT222639	FT225406	FT225407	FT225408	FT88482
		FT386103	FT386235	FT386937	FTB6308
					FT385343
FGC14112	FT263377	FT264967	FT341958	FT344824	Y158818

Y48900	Y49316	Y49601	Y50326	Y51073	Y52272
			FTA78885	FTA81176	FTA81186

			FT429385	<i>FT429385*</i>	<i>FT429385*</i>
				<i>FT429385*</i>	<i>FT429385*</i>
FGC46379	<i>FGC46379*</i>	<i>FGC46379*</i>	<i>FGC46379*</i>	<i>FGC46379*</i>	<i>FGC46379*</i>
				FGC46377	FGC46374
			BY75071	BY128351	BY217989
					FGC20563

	BY22225				
		BY206661	BY206438	BY207677	BY208034

FT55902

FT245977

FT244621

FT245058

FT245062

FTC42707 >
FT80777

				FGC20561	BY28646 (Fearghail of Conmaicne? ?-1014)
	FGC8561				A7700
		AMM36	Z17685		
					Y57086
				FGC20562	BY15264

					BY12191 > BY12190
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13	12	11	10	9	8
1170	1235	1300	1365	1430	1495
BY147816	BY53890	BY80221	FT40237	FT41543	FT41603
				S856*	S856*
				S856*	S856*
BY150117*	BY150117*	BY150117*	BY150117*	BY150117*	BY150117*
PH1217	PH1658	PH2752	PH3878	PH1217*	PH1217*
					FT26957*
BY12192	BY12194	BY12195	BY4306	CTS6458	Y136179

FTB8647	FTB8731	FTB6265*	FTB6265*	FTB6265*	FTB6265*
		FTB6265*	FTB6265*	FTB6265*	FTB6265*
		FTB96301	FTB95762	FTB96050	FTB96809
FT88629	FT89419	Y168752			FT89012*
					FT89012*
			BY162266	BY120857	FT222321
		FT386103*	FT386103*	FT386103*	FT386103*
FTA23646	FTB6419	FTB8144	FTB8559	FTB8768	FTC69492
FGC35856	FT196963	FT384796	FT385248	FT385769	FT385935

FT263682	BY128011	FT263098	FT263492	FT263530	FT263698
			L1308*	L1308*	L1308*
			L1308*	L1308*	L1308*
			L1308*	L1308*	L1308*
Y52527	Y53602	Y55139	Y55751	Y57504	Y58946
FTA83649	FTA84999	FTA94581	FTB19809	FTB20479	Y277683

<i>FT429385*</i>	<i>FT429385*</i>	<i>FT429385*</i>	<i>FT429385*</i>	<i>FT429385*</i>	<i>FT429385*</i>
<i>FT429385*</i>	<i>FT429385*</i>	<i>FT429385*</i>	<i>FT429385*</i>	<i>FT429385*</i>	<i>FT429385*</i>
<i>FGC46379*</i>	<i>FGC46379*</i>	<i>FGC46379*</i>	<i>FGC46379*</i>	<i>FGC46379*</i>	<i>FGC46379*</i>
FGC46380	FGC46381	FT233041	FT233499	FT233750	<i>FGC46377*</i>
				<i>BY75071*</i>	<i>BY75071*</i>
FT104322	FT104716	FT105441	FT34368	FTA404640	FTA404644
			BY114262	FT138339	FT137777
FGC20566	FGC20568	FT83539	ZS4416	FGC20565	FGC20571
		A17995	A17997	BY32841	FTA64086
					FT74221
				<i>S846*</i>	<i>S846*</i>
				<i>S846*</i>	<i>S846*</i>
<i>FGC20559*</i>	<i>FGC20559*</i>	<i>FGC20559*</i>	<i>FGC20559*</i>	<i>FGC20559*</i>	<i>FGC20559*</i>
	FTA52909	CTS3335	FT69921	FTA53729	FTA53163
					<i>BY22225*</i>
					<i>BY22225*</i>
					<i>BY22225*</i>
Y92386	FT214948	Y102220	Y108199	Y91192	Y94711
BY208879	FT16877	FT183065		<i>BY206661*</i>	<i>BY206661*</i>
			BY206322	BY206969	BY208293
				BY174860	BY174917

BY15269	ACT3450	BY15270	BY15272	BY15273	BY15274
		<i>FGC8561*</i>	<i>FGC8561*</i>	<i>FGC8561*</i>	<i>FGC8561*</i>
		<i>FGC8561*</i>	<i>FGC8561*</i>	<i>FGC8561*</i>	<i>FGC8561*</i>
FT246250	FT246334	FT247296	FT440420	FTA29799	FTA29800
	FGC8551	BY188347	BY188409	FGC8550	FGC8552

BY23466	BY23911	BY23915	BY24072	BY24086
	BY17556	BY17557	BY17558	BY17559
			BY96081	FT130076

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	<i>FTC42707*(x 2)</i>	<i>FTC42707*</i>	<i>FTC42707*</i>	<i>FTC42707*</i>	<i>FTC42707*</i>
			BY64861	BY133621	
				<i>FT230964*</i>	
	FT230964	FT230405	FT230997	FT230262	FT230278
	BY94353	BY140873	FT85449	<i>BY94353*</i>	<i>BY94353*</i>
				<i>BY94353*</i>	<i>BY94353*</i>
			BY32840	BY32843	

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BY28647 > BY28648					FT82943
	BY93145 > BY93152	ZQ457	BY176936	BY200750	FT198915
					FT105184
A7701	A7703 > A7704	A7706	A7707	A7708	A7709
					FGC20562*
					FGC20562*

BY192251	BY191288	BY210101	BY224019	BY191288*	BY191288*
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BY53791					
	FTB91875	FTB92600	FTB92057	FTC26940	FTC26941

BY15265	BY15266	FT127781	BY15265* BY15265*		
			BY15267	BY32315	FT74282
					BY12191*
	BY171593	BY182425	BY98282	FT84122	S17801

FT55558 > FT56544	BY222231 > BY222232	FT55576			
			BY156469	BY56867 > BY128212 > BY134483	BY100758 FT55356

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1560	1625	1690	1755	1820	1885
FT43338	FT43565	FT43618	FT43791	MF37077	BY75628*
					BY75628*
S856*	S856*	S856*	S856*	S856*	S856*
S856*	S856*	S856*	S856*	S856*	S856*
BY150117*	BY150117*	BY150117*	BY150117*	BY150117*	BY150117*
PH1217*	PH1217*	PH1217*	PH1217*	PH1217*	PH1217*
FT26957*	FT26957*	FT26957*	FT26957*	FT26957*	FT26957*
				BY4067*	BY4067*
BY76530	FGC74609	FGC74613	FGC74616	Y136128	BY76530*
FTA30901*	FTA30901*	FTA30901*	FTA30901*	FTA30901*	FTA30901*
FTB6265*	FTB6265*	FTB6265*	FTB6265*	FTB6265*	FTB6265*
FTB6265*	FTB6265*	FTB6265*	FTB6265*	FTB6265*	FTB6265*
FTB96896	FTB98924	FTD5287	Y146712	FTB96301*	FTB96301*
				FTB96301*	FTB96301*
FT89012*	FT89012*	FT89012*	FT89012*	FT89012*	FT89012*
FT89012*	FT89012*	FT89012*	FT89012*	FT89012*	FT89012*
				BY162266*	BY162266*
FT222649	FT354981	FT222321*	FT222321*	FT222321*	FT222321*
		FT222321*	FT222321*	FT222321*	FT222321*
			FT268403	FT268403*	FT268403*
				FT268403*	FT268403*
FT386103*	FT386103*	FT386103*	FT386103*	FT386103*	FT386103*
FTC79565	FTB6308*	FTB6308*	FTB6308*	FTB6308*	FTB6308*
	FTB6308*	FTB6308*	FTB6308*	FTB6308*	FTB6308*
FT39224	FT443240	FT448263	FT461217	FTB78216	FTB77760
					FT453203
	FT264331*	FT264331*	FT264331*	FT264331*	FT264331*
FT264121	FT264519	FT383834	FT263682*	FT263682*	FT263682*
			FT263682*	FT263682*	FT263682*
L1308*	L1308*	L1308*	L1308*	L1308*	L1308*
L1308*	L1308*	L1308*	L1308*	L1308*	L1308*
L1308*	L1308*	L1308*	L1308*	L1308*	L1308*
Y59689	Y59702	FTB54258*	FTB54258*	FTB54258*	FTB54258*
		FTB54258*	FTB54258*	FTB54258*	FTB54258*
FTA78885*	FTA78885*	FTA78885*	FTA78885*	FTA78885*	FTA78885*
FTA79112	FTA79261	FTA79112*	FTA79112*	FTA79112*	FTA79112*
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<i>FT429385*</i>	<i>FT429385*</i>	<i>FT429385*</i>	<i>FT429385*</i>	<i>FT429385*</i>	<i>FT429385*</i>
<i>FT429385*</i>	<i>FT429385*</i>	<i>FT429385*</i>	<i>FT429385*</i>	<i>FT429385*</i>	<i>FT429385*</i>
<i>FGC46379*</i>	<i>FGC46379*</i>	<i>FGC46379*</i>	<i>FGC46379*</i>	<i>FGC46379*</i>	<i>FGC46379*</i>
<i>FGC46377*</i>	<i>FGC46377*</i>	<i>FGC46377*</i>	<i>FGC46377*</i>	<i>FGC46377*</i>	<i>FGC46377*</i>
<i>FGC46377*</i>	<i>FGC46377*</i>	<i>FGC46377*</i>	<i>FGC46377*</i>	<i>FGC46377*</i>	<i>FGC46377*</i>
<i>BY75071*</i>	<i>BY75071*</i>	<i>BY75071*</i>	<i>BY75071*</i>	<i>BY75071*</i>	<i>BY75071*</i>
FTA404655	FTA405184	FTA405906	FTA405907	FTA442861	FTA74269
				<i>BY114262*</i>	<i>BY114262*</i>
FT136870	FT136951	FT138769	FT139774	FT183077	MF10465
		<i>FGC20563*</i>	<i>FGC20563*</i>	<i>FGC20563*</i>	<i>FGC20563*</i>
FT430108	FT82469	FT82883	FT83743		<i>FGC20565*</i>
					<i>FGC20565*</i>
					<i>FGC20565*</i>
					<i>FGC20565*</i>
					<i>FGC20565*</i>
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				Y53494	<i>Y53494*</i>
				<i>Y53494*</i>	
FTA64673	FTA65552	FTA76966	MF7792	Y3823	<i>FTA64086*</i>
					<i>FTA64086*</i>
A17996	BY58761			<i>FT74221*</i>	<i>FT74221*</i>
		BY32839	BY32842	FT74230	FT92383
<i>S846*</i>	<i>S846*</i>	<i>S846*</i>	<i>S846*</i>	<i>S846*</i>	<i>S846*</i>
<i>S846*</i>	<i>S846*</i>	<i>S846*</i>	<i>S846*</i>	<i>S846*</i>	<i>S846*</i>
<i>FGC20559*</i>	<i>FGC20559*</i>	<i>FGC20559*</i>	<i>FGC20559*</i>	<i>FGC20559*</i>	<i>FGC20559*</i>
FTA54903	FTA55033	FTA55042	FTA55073	FTA55105	FTA55215
<i>BY22225*</i>	<i>BY22225*</i>	<i>BY22225*</i>	<i>BY22225*</i>	<i>BY22225*</i>	<i>BY22225*</i>
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<i>BY22225*</i>	<i>BY22225*</i>	<i>BY22225*</i>	<i>BY22225*</i>	<i>BY22225*</i>	<i>BY22225*</i>
<i>Y92386*</i>	<i>Y92386*</i>	<i>Y92386*</i>	<i>Y92386*</i>	<i>Y92386*</i>	<i>Y92386*</i>
<i>Y92386*</i>	<i>Y92386*</i>	<i>Y92386*</i>	<i>Y92386*</i>	<i>Y92386*</i>	<i>Y92386*</i>
<i>BY206661*</i>	<i>BY206661*</i>	<i>BY206661*</i>	<i>BY206661*</i>	<i>BY206661*</i>	<i>BY206661*</i>
BY208826	FT154904	FT17401	FT21905	FT22234	<i>BY206322*</i>
					<i>BY206322*</i>
BY175090	BY175118	BY175710	FT70430	<i>BY174860*</i>	<i>BY174860*</i>
				<i>BY174860*</i>	<i>BY174860*</i>

				BY174860*	BY174860*	
FT86308	FT86528	BY15271	FTA82293	BY66485	BY66485*	
				BY15271*	BY15271*	BY15271*
				BY15271*	BY15271*	BY15271*
				FTA87911	FGC39548	
					BY165738	
			A15201	A15202		
FGC8561*	FGC8561*	FGC8561*	FGC8561*	FGC8561*	FGC8561*	
FGC8561*	FGC8561*	FGC8561*	FGC8561*	FGC8561*	FGC8561*	
PH271	Y126966	FT245977*	FT245977*	FT245977*	FT245977*	
		FT245977*	FT245977*	FT245977*	FT245977*	
FGC8558	FGC8559	FT97451	FT97452	FGC8551*	FGC8551*	
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	AMM336*	AMM336*	AMM336*	AMM336*	AMM336*	
BY24172	BY24267	BY24338	BY24759	BY24837	BY32836	
BY32838	FT81520	FT82151	FT82225	BY17556*	BY17556*	
				BY17556*	BY17556*	
				BY17556*	BY17556*	
BY96081*	BY96081*	BY96081*	BY96081*	BY96081*	BY96081*	
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BY96081*	BY96081*	BY96081*	BY96081*	BY96081*	BY96081*	
BY96081*	BY96081*	BY96081*	BY96081*	BY96081*	BY96081*	
	FT158105	FT156007	FT156194	FT157268	FT158105*	
					FT158105*	
FTC42707*	FTC42707*	FTC42707*	FTC42707*	FTC42707*	FTC42707*	
FTC42707*	FTC42707*	FTC42707*	FTC42707*	FTC42707*	FTC42707*	
BY64208	BY64861*	BY64861*	BY64861*	BY64861*	BY64861*	
	BY64861*	BY64861*	BY64861*	BY64861*	BY64861*	
FT230964*	FT230964*	FT230964*	FT230964*	FT230964*	FT230964*	
FT230705	FT232383	FT232507	FT430619	FT230997*	FT230997*	
				FT230997*	FT230997*	
BY94353*	BY94353*	BY94353*	BY94353*	BY94353*	BY94353*	
BY94353*	BY94353*	BY94353*	BY94353*	BY94353*	BY94353*	
BY32844	BY32845	BY32840*	BY32840*	BY32840*	BY32840*	
		BY32840*	BY32840*	BY32840*	BY32840*	
				BY28646*	BY28646*	
	BY166090	BY168783	FTB7704	FTB8669	MF678324	

FT82943*	FT82943*	FT82943*	FT82943*	FT82943*	FT82943*
FT82943*	FT82943*	FT82943*	FT82943*	FT82943*	FT82943*
FT82943*	FT82943*	FT82943*	FT82943*	FT82943*	FT82943*
	BY176936*	BY176936*	BY176936*	BY176936*	BY176936*
	BY176936*	BY176936*	BY176936*	BY176936*	BY176936*
	BY176936*	BY176936*	BY176936*	BY176936*	BY176936*
FT197522 > FT197526	FT198915*(x 2)	FT198915*	FT198915*	FT198915*	FT198915*
	FT198915*(x 2)	FT198915*	FT198915*	FT198915*	FT198915*
				FT148793	FT148793*
					FT148793*
FT104638	FT183073	FT104638*(x2)	FT104638*(x2)	FT104638*(x2)	FT104638*(x2)
		FT104638*(x2)	FT104638*(x2)	FT104638*(x2)	FT104638*(x2)
BY126923	BY126923*	BY126923*	BY126923*	BY126923*	BY126923*
	BY95560	BY135435	FTB57196	BY95560*	BY95560*
				BY95560*	BY95560*
FT124503	FT74006	FT74039	FT74169	A7700*	A7700*
				A7700*	A7700*
FGC20562*	FGC20562*	FGC20562*	FGC20562*	FGC20562*	FGC20562*
FGC20562*	FGC20562*	FGC20562*	FGC20562*	FGC20562*	FGC20562*
BY192251*	BY192251*	BY192251*	BY192251*	BY192251*	BY192251*
BY191288*	BY191288*	BY191288*	BY191288*	BY191288*	BY191288*
BY191288*	BY191288*	BY191288*	BY191288*	BY191288*	BY191288*
Y57086*	Y57086*	Y57086*	Y57086*	Y57086*	Y57086*
FT76164	FT211812	FT74363	FT75121	FT76164*	FT76164*
				FT76164*	FT76164*
				FTB92600*	FTB92600*
FTC27204	FTC27386	FTC28700	FTC29084	FTC38955	MF80648
BY15264*	BY15264*	BY15264*	BY15264*	BY15264*	BY15264*
BY15264*	BY15264*	BY15264*	BY15264*	BY15264*	BY15264*
BY99152	BY99153	BY99152*	BY99152*	BY99152*	BY99152*
		BY99152*	BY99152*	BY99152*	BY99152*
BY15265*	BY15265*	BY15265*	BY15265*	BY15265*	BY15265*
BY154465	BY155143	BY154465*	BY154465*	BY154465*	BY154465*
		BY154465*	BY154465*	BY154465*	BY154465*
FT75477				BY15267*	BY15267*
				BY15267*	BY15267*
				BY15267*	BY15267*
	BY15268			BY15268*	BY15268*
		BY22226 > BY22227	BY22228 > BY22229	BY22230 > BY57886	FT233261 > FT74989
BY12191*	BY12191*	BY12191*	BY12191*	BY12191*	BY12191*
		BY171593*	BY171593*	BY171593*	BY171593*
DV67127	DV120461	DV144171	DV75541	CT102067	BY67127*

DT07127	DT130401	DT144171	DT15341	DT163007	BY67127*
	BY22231*	BY22231*	BY22231*	BY22231*	BY22231*
	BY22231*	BY22231*	BY22231*	BY22231*	BY22231*
BY104262	BY64579	BY70162	BY75857	BY76794	BY78137
	BY156469*	BY156469*	BY156469*	BY156469*	BY156469*
	BY156469*	BY156469*	BY156469*	BY156469*	BY156469*
BY152628 > A16943	BY153353 > BY155329	BY152628*	BY152628*	BY152628*	BY152628*
		BY152628*	BY152628*	BY152628*	BY152628*

1	FTDNA	Surname	Country	County	Sept
1950	Kit No.	of MRKA	of origin	or city	or clan
<i>BY75628*</i>	B440244	Morgan	unknown		
<i>BY75628*</i>	N85391	Morgan	unknown	<i>Wales</i>	
<i>S856*</i>	84635	?	unknown		
<i>S856*</i>	IN89795	Connolly	unknown		
<i>BY150117*</i>	B710896	Reed	unknown		
<i>PH1217*</i>	363137	Connor	Ireland	Kerry	
<i>FT26957*</i>	930833	Bryan	Canada		
<i>BY4067*</i>	N16269	Canady	unknown		
<i>BY76530*</i>	N239014	Kennedy	Ireland		
FT112830	N26398	Canady	unknown		
	N67273	Canady	unknown		
<i>FTA30901*</i>	847455	McCoy	Scotland		
<i>FTB6265*</i>	?	?	Sweden		
<i>FTB6265*</i>	IN33332	<i>Murray</i>	unknown		
<i>FTB96301*</i>	963824	Fitzpatrick	unknown		
<i>FTB96301*</i>	?	?	unknown		
<i>FT89012*</i>	IN102722	?	unknown		
<i>FT89012*</i>	?	?	unknown		
<i>BY162266*</i>	106496	Reese	Wales		
<i>FT222321*</i>	?	?	USA		
<i>FT222321*</i>	B60924	?	unknown		
<i>FT268403*</i>	1238	Boone	USA		
<i>FT268403*</i>	509906	Boone	unknown		
<i>FT268403*</i>	B231358	?	unknown		
<i>FT386103*</i>	319907	Cullen	Ireland		
<i>FTB6308*</i>	IN24005	Farrelly	Ireland	Meath	
<i>FTB6308*</i>	?	?	unknown		
FTB77997	964761	?	unknown		
	983328	?	unknown		
FT384553	574022	Jones	USA		
	B43327	Jones	USA		
<i>FT264331*</i>	MI42221	Cosby	unknown		
<i>FT263682*</i>	640012	McCabe	Ireland		
<i>FT263682*</i>	97685	McCabe	Ireland		
<i>L1308*</i>	?	?	Ireland		
<i>L1308*</i>	866576	Bryan	USA		
<i>L1308*</i>	570375	<i>Gibbons</i>	unknown		
<i>FTB54258*</i>	58619	Malloy	Ireland		
<i>FTB54258*</i>	IN103245	Mulloy	Ireland		
<i>FTA78885*</i>	?	?	unknown		
<i>FTA79112*</i>	192066	Coyne	Ireland	Galway	
<i>FTA79112*</i>	?	?	USA		

<i>FT429385*</i>	186175	Prendergast	Ireland		
<i>FT429385*</i>	?	?	Scotland		
<i>FGC46379*</i>	64969	Salmon	unknown		
<i>FGC46377*</i>	531962	Mannion	Ireland		
<i>FGC46377*</i>	N112446	Mangan	Ireland		
<i>BY75071*</i>	?	?	unknown		
FT405477	7939	Glynn	Ireland		
	?	?	Ireland		
	?	?	Ireland		
<i>BY114262*</i>	?	?	Ireland		
<i>FT137777*</i>	?	?	Ireland		
<i>FT137777*</i>	?	?	Ireland		
<i>FGC20563*</i>	?	?	Scotland		
<i>FGC20565*</i>	6879	Mangum	England		Mangum family
<i>FGC20565*</i>	22926	Mangum	England		
<i>FGC20565*</i>	16153	Robertson	UK		
<i>FGC20565*</i>	8621	Mangham	UK		
<i>FGC20565*</i>	173868	Mangrum	Germany		
<i>FGC20565*</i>	150428	Mangum	unknown		
<i>FGC20565*</i>	8869	Mangum	unknown		
<i>Y53494*</i>	6874	Mangum	England		
<i>Y53494*</i>	?	?	unknown		
<i>FTA64086*</i>	471273	O'Connelly	Ireland		
<i>FTA64086*</i>	106554	Connelly	Ireland		
<i>FT74221*</i>	415398	Duignan	Ireland		
<i>BY32839*</i>	B4142	Higgins	Ireland		
<i>BY32839*</i>	N131261	Higgins	Ireland		
<i>BY32839*</i>	7894	Deegan	Ireland	Kilkenny	
<i>S846*</i>	180034	Duffy	Scotland		
<i>S846*</i>	N134996	Butler	unknown		
<i>FGC20559*</i>	?	?	Ireland		
<i>FTA52909*</i>	?	?	Ireland		
<i>FTA52909*</i>	936043	Kelly	USA		
<i>FTA52909*</i>	?	?	unknown		
<i>BY22225*</i>	B441798	McMahon	Ireland		
<i>BY22225*</i>	547539	Carroll	Ireland	Donegal	
<i>BY22225*</i>	B265747	Donovan	UK		
<i>Y92386*</i>	579539	Gorman	Ireland		
<i>Y92386*</i>	906272	?	Ireland		
<i>BY206661*</i>	?	?	unknown		
<i>BY206322*</i>	B104716	Sherry	Ireland	Fermanagh	
<i>BY206322*</i>	373589	Foley	Ireland	Sligo	
<i>BY174860*</i>	390339	Cullen	Ireland	Sligo	
<i>BY174860*</i>	IN22265	Cullen	Ireland		

BY174860*	?	?	Ireland		
BY66485*	183871	Melican	Ireland	Clare	Ó Maoileacháin (Melican) family of Clare
BY15271*	894863	Melican	Ireland	Clare	
BY15271*	131570	Melican	Ireland	Clare	
A15203	79465	Melican	Ireland	Clare	
	820777	Melican	Ireland	Clare	
BY208828	143729	Melican	Ireland	Clare	
	156882	Melican	Ireland	Clare	
BY165738*	234465	Melican	Ireland	Clare	
BY165738*	111858	Melican	Ireland	Clare	
A15201*	110908	Melican	Ireland	Clare	
A15201*	269389	Melican	Ireland	Clare	
FGC8561*	N3175	McDonald	Ireland		
FGC8561*	B448244	Payne	USA		
FT245977*	286077	?	Ireland		
FT245977*	470011	Horner	USA		
FGC8551*	205635	Murta	Ireland	Westmeath	
FGC8551*	IN31463	Murtagh	Ireland		
AMM336*	323708	Anderson	Ulster		
BY23466*	?	?	Ireland		
BY23466*	?	?	Ireland		
BY17556*	B4794	Tompkins	England		
BY17556*	N9632	Tompkins	unknown		
BY17556*	?	?	unknown		
BY96081*	B220966	Dockerty	Ireland		
BY96081*	281713	Finlay	Ireland	Dublin	
BY96081*	219373	Bice	England	Cornwall	
BY96081*	?	?	unknown		
FT158105*	MK54124	McGuire	USA		
FT158105*	?	?	unknown		
FTC42707*	?	?	England		
FTC42707*	118352	Paden	unknown		
BY64861*	778868	Devoy	Ireland		
BY64861*	?	?	unknown		
FT230964*	?	?	Ireland		
FT230997*	N142988	McDermott	USA		
FT230997*	B208469	NPE	unknown		
BY94353*	B2002	McCormick	Ireland		
BY94353*	?	?	Ireland		
BY32840*	531547	Nollen	USA		
BY32840*	134798	NPE	unknown		
BY28646*	700287	Farrell	Ireland		
BY166090*	344918	Gerety	Ireland		
BY166090*	776946	Gerety	unknown		

<i>FT82943*</i>	449744	Farrell	Ireland		Ó Fearghail (O'Farrell) sept of Longford/ Annaly
<i>FT82943*</i>	155650	Kelley	USA		
<i>FT82943*</i>	?	?	unknown		
<i>BY176936*</i>	166772	Farrell	Ireland		
<i>BY176936*</i>	964997	Gainer	USA		
<i>BY176936*</i>	858416	Cheves	unknown		
<i>FT198915*</i>	913011	Farrell	Ireland	Longford	
<i>FT198915*</i>	B740360	Farrell	unknown		
<i>FT148793*</i>	?	?	Ireland		
<i>FT148793*</i>	293455	Kelley	unknown		
<i>FT104638*(x2)</i>	915651	Farrell	Ireland		
<i>FT104638*(x2)</i>	?	?	unknown		
<i>BY126923*</i>	797136	Fields	Ireland		
<i>BY95560*</i>	912917	Ferrall	USA		
<i>BY95560*</i>	591081	Ferrell	USA		
<i>A7700*</i>	320574	Yorke	Ireland	Galway	
<i>A7700*</i>	212724	Yorke	Ireland	Cavan	
<i>FGC20562*</i>	132118	Bankston	Sweden		
<i>FGC20562*</i>	174924	Ennis	USA		
<i>BY192251*</i>	?	?	unknown		
<i>BY191288*</i>	?	?	unknown		
<i>BY191288*</i>	?	?	unknown		
<i>Y57086*</i>	190506	Burnham	England		
<i>FT76164*</i>	202377	Carroll	Ireland		
<i>FT76164*</i>	B165740	McGarrell	Ireland		
<i>FTB92600*</i>	?	?	Scotland		
<i>FTC26940*</i>	MK65485	Keeran	Ireland		
<i>FTC26940*</i>	MK73572	Keeran	Ireland		
<i>BY15264*</i>	303737	Carroll	Ireland		
<i>BY15264*</i>	?	?	Ireland		
<i>BY99152*</i>	330938	Austin	UK		
<i>BY99152*</i>	B3515	Hazelton	unknown		
<i>BY15265*</i>	438001	Kelly	Ireland		
<i>BY154465*</i>	N2316	Reynolds	Ireland	Leitrim	
<i>BY154465*</i>	?	?	Ireland		
<i>BY15267*</i>	30045	McReynolds	Ulster	Belfast	
<i>BY15267*</i>	204973	Reynolds	England	Durham	
<i>BY15267*</i>	?	?	France		
<i>BY15268*</i>	51431	Reynolds	Ireland	Longford	
<i>FT76810 > FT76119</i>	307162	Reynell	England	Devon	
	?	?	unknown		
<i>BY12191*</i>	726178	Cummings	USA		
<i>BY171593*</i>	?	?	unknown		
<i>BY67127*</i>	194124	Robbins	Ireland		

<i>BY67127*</i>	414915	Brogan	USA		
<i>BY22231*</i>	B424606	Stanley	Ireland		
<i>BY22231*</i>	?	?	unknown		
BY56867	49737	Christie	Ireland		
	353084	Christie	Ireland		
<i>BY156469*</i>	?	?	Ireland		
<i>BY156469*</i>	233535	Nelson	unknown		
<i>BY152628*</i>	IN55882	O'Toole	Ireland	Tipperary	
<i>BY152628*</i>	B180520	Miller	USA		

Z16270

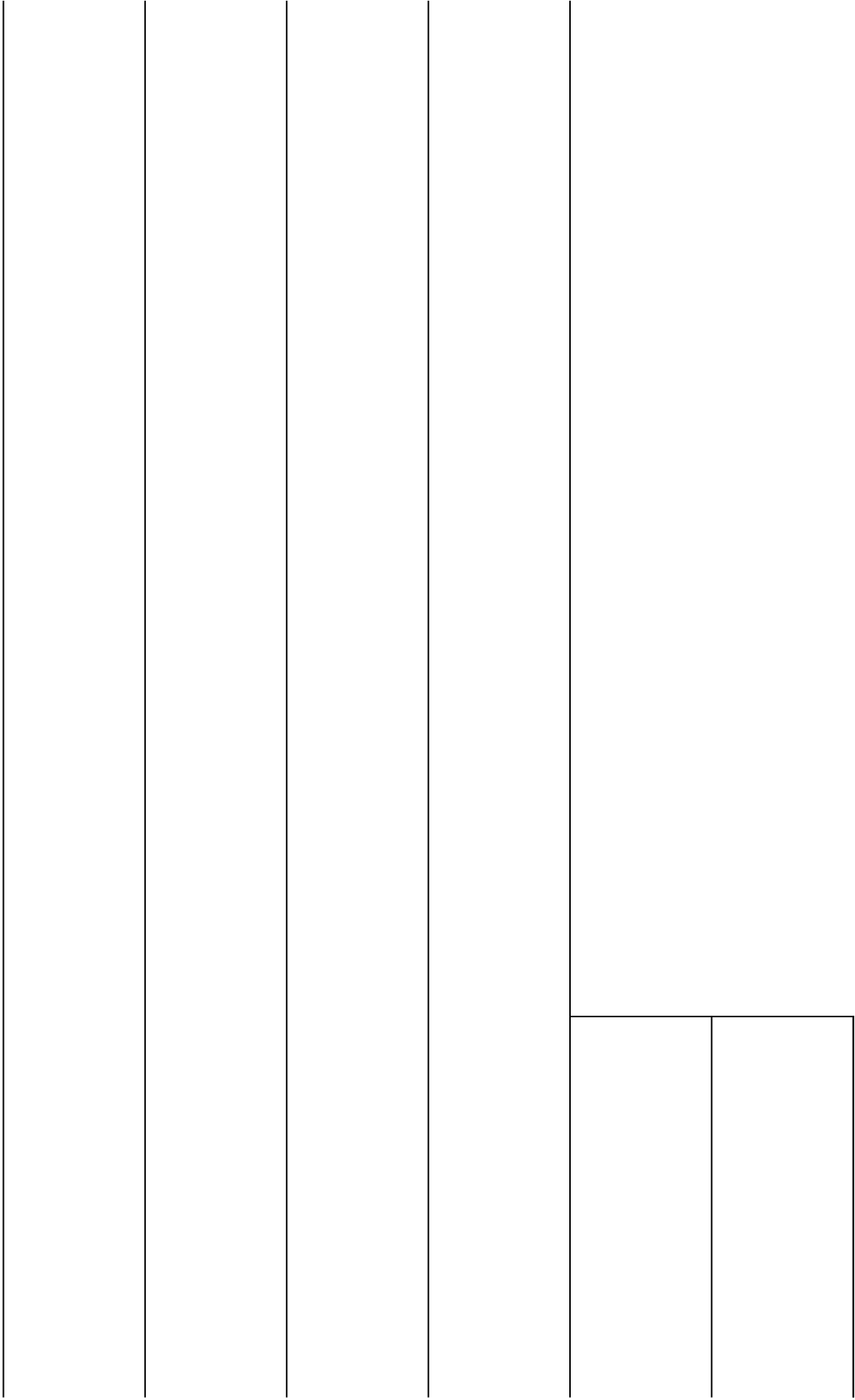
FTB44172

FT293390

BY103612

FT3715

BY3160	BY3174	FT224531



Z3000 et al.
(28 SNPs) -
branching
1775 BCE

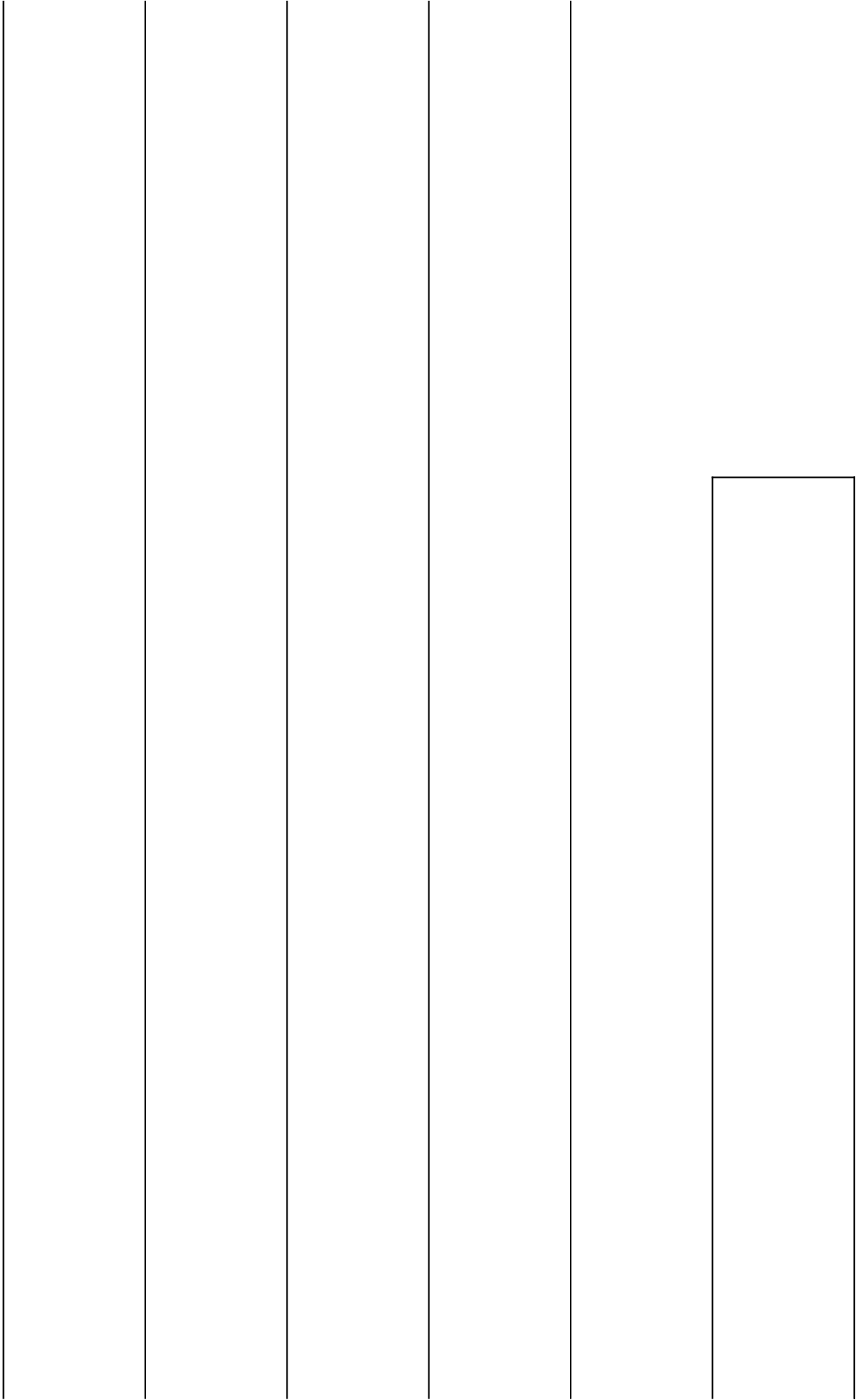
BY3163 (Áed
Colla Menn?)

A7923

Z3006

Z3008

Z3004
(grandfather
of the Three
Collas)



FT14355
(Colla Crioich)

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24	23	22	21	20	19
455	520	585	650	715	780

Z29589	FT149442	Z29586	Z29587	Z29588	Z29590
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FT90867	Y62677
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BY87600	BY60958	BY107716	BY144899	BY223641
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FT375079	F9068	FT70090	FTC38231	Z18005	Z18006
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BY39698	A14057	A14058
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BY24702

FT293173	FT293401	FT293406	FT293622	FT293776	FT293781 > FT293782
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Z21270	BY42690	BY42714

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BY513	BY514	BY515	FT26155	BY3171	A14052
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FT225199	FT225353	BY3157	BY108359	BY121911	BY23439
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A14079	FGC43900
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BY3188	FT39277				
		BY3172	BY3173	BY3178	BY3183

BY2869	BY2870
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S953 (Colla
Uais)

FT14417

ZZ13_1

FT14481

	BY39825	BY39832	FGC36474	FT202863	BY39829
FGC41930	A24195	A24197	BY23909	FGC41928	FGC41931

Z16274

FT15034

FT15035

FT21218

Z16276

Z16278

18	17	16	15	14	13
845	910	975	1040	1105	1170

Z29589*

Z29591	BY3250	FT150128	BY3248	BY43754	BY43841
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BY61511	BY107807	BY116875	BY124293	BY125966	BY147195
BY88025	FT450494	FT90912	FT90995	FT91291	Y65125

FGC50579	FT181242	FT277910	FT285288	BY92867	BY144864
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Z18010	718001	718000			
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	Z10004	Z10000	Z18007	FT116655	Z18003
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A14059	A14061	A14063	BY148027	BY39697	BY93274
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		A14054	FT5280	BY56191	BY109388
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BY24740	FT148363	FT149267	FT239050	BY3162	BY23656
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FT293783	FT293817	FT293900	FT440345	FT76354	FTB44205
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BY42766	BY42789	BY43491	BY43500	BY43617	BY43641
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		S9397	BY16575	BY16576	BY16577
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A14053	FT15765	FT17855	A14071		
			BY23907	BY24031	BY24693
	BY69501	BY69501*			
		BY56868	BY115643	BY120550	BY135056
		BY24277	A14073	BY24321	BY23635
	BY56656	BY128593	BY214937	BY24215	
BY23730	BY24664	BY24775	BY3161	BY3175	BY3176
			BY130746		
				FT223733	BY137194

DV2170	DV22770	DV24404	DV24522	DV2102	FT127707
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DT3179	DT23110	DT24494	DT24322	DT3102	DT121101
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Z37586	A14085	FGC20721			
			A14086	A14087	A14088

F4142		PF4440	BY131575	BY141455
	BY39840	BY196747	FT225355	FTA74227

A14078	A14077	A14076	BY115624
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BY3185	FT38505	FT40323	Y23462	A14075	FT387157
				BY38665	A11643
					BY24152
	Y9053	FGC36409	FGC36411	FT62468	FT62556
BY2871	BY2872	BY2873	FT112140	FT123038	MF30642
				DV21120	

DT24150

BY57366

A945

BY103517

BY117963

BY13349

FT116391

BY39827

BY136438

BY39826

BY3164

FTA25693

A938

	FT112238	FT73701	Y314203		
				BY3158	A937

BY39830	BY39841	FT120505	BY39831	BY101340	BY39828
A24191	BY53679	FGC41929	FT90521	FGC41932	FGC41933

A21922	A21924
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				BY3170	BY3159
		BY20667*	BY20667*	BY20667*	BY20667*

BY20667

FT15175

Z16277

Z16273

Z16275

Z16272

12	11	10	9	8	7
1235	1300	1365	1430	1495	1560
		Z3000*	Z3000*	Z3000*	Z3000*
	Y328130	Y328130*	Y328130*	Y328130*	Y328130*
		Y328130*	Y328130*	Y328130*	Y328130*
SK195					SK195*
	BY103190	BY141843	BY188762	BY103190*	BY103190*
BY103190*				BY103190*	
Z29589*	Z29589*	Z29589*	Z29589*	Z29589*	Z29589*

BY3250*

BY24197	FT177697	FTB87265	BY24334	A14033	BY38670		
					Z16270*		
			Z16270*	Z16270*	Z16270*	Z16270*	Z16270*
			Z16270*	Z16270*	Z16270*	Z16270*	Z16270*
	BY23750	A14064	A14065	A14066	A14067		
BY151139	BY72956	BY75152	BY77614	BY87982	BY97144		
Y70339	Y71294	Y74105	Y75735	Y77146	Y77827		
BY87600*	BY87600*	BY87600*	BY87600*	BY87600*	BY87600*		

BY72664	BY84550	BY92230	FT276024	FT276189	FT276517
	FT375079*	FT375079*	FT375079*	FT375079*	FT375079*
	FT70308	FT69904	FT70308*	FT70308*	FT70308*
				FT70075	FT127786
		Z18004*	Z18004*	Z18004*	Z18004*
				BY152310	BY152939

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BY43997	Z18009	Z18011	A14035	FT114037	FTC38232
					<i>FT3715*</i>
BY56084	BY103207	BY107313	BY121522	BY128744	BY148112
FTA21022	FTA21162	FTA21309	FTA21472	FTA21660	BY92355
				<i>A14054*</i>	<i>A14054*</i>
BY111414	BY131691	BY133215	BY142087	BY142941	BY223399
<i>BY24702*</i>	<i>BY24702*</i>	<i>BY24702*</i>	<i>BY24702*</i>	<i>BY24702*</i>	<i>BY24702*</i>
BY23678	BY24290	BY24402	BY24747	FT148406	FT149273
				FT293635	<i>FT293635*</i>
					<i>FT293635*</i>
BY162598	FTB43186	FTB51211	FTB54268	M7731	Z21448
	BY98457	<i>BY98457*</i>	<i>BY98457*</i>	<i>BY98457*</i>	<i>BY98457*</i>
		<i>BY98457*</i>	<i>BY98457*</i>	<i>BY98457*</i>	<i>BY98457*</i>
BY44145	FT15528	FT17195	FT18649	FT19278	FT202865
					<i>S9397*</i>
BY151060	BY16578	BY16579	BY16580	BY61213	FT129887

			BY38889	BY38892	BY38890
			BY23867	BY23923	BY23997
A14072	BY38664	FT16319			BY108842
			BY96449	BY111670	BY121695
			BY199568	FT15081	FT424358
BY62080	BY102645	BY107160	BY125325	BY151014	BY63719
		BY141880	BY57827	FT247722	FT247808
<i>BY69501*</i>	<i>BY69501*</i>	<i>BY69501*</i>	<i>BY69501*</i>	<i>BY69501*</i>	<i>BY69501*</i>
BY146820	BY148011	BY70824	BY78018	FT123132	FT123277
		BY23419	BY23503	BY23921	BY24032
BY24298	BY24335	BY24537	BY39824	FT182170	<i>BY23635*</i>
					<i>BY23635*</i>
FT366920	FT367333	<i>BY56656*</i>	<i>BY56656*</i>	<i>BY56656*</i>	<i>BY56656*</i>
		<i>BY56656*</i>	<i>BY56656*</i>	<i>BY56656*</i>	<i>BY56656*</i>
BY92697	FTC40274	FTC40532	FTC90564	M6554	Z31712
BY132504	BY96695	FTB68802	MF32025	<i>BY132504*</i>	<i>BY132504*</i>
				<i>BY132504*</i>	<i>BY132504*</i>
FT223219	FT223666	FT224387	FT224600	FT224726	FT224760
		<i>BY116772*</i>	<i>BY116772*</i>	<i>BY116772*</i>	<i>BY116772*</i>
BY116772	BY125854	BY100772	FTA7062	FTA7622	FTA7698
FT202062	FT04767	FT04022	FT05050	C2052	C2050

FT202002	FT04707	FT04023	FT03030	33033	33039
FT122837	BY76102	BY114858	BY118974	BY126529	BY138960
		FGC20722	BY45183	FGC20724	FT121351
A14089	BY104615	FT15850	FT87467	BY108561	BY108878
					FT333541

BY72797	FT180399	FT316344	FT321437	FT321667	FT331412
BY222367	FT203789	FT203130	FT440166	FT440649	FT204583
			FT31128	FT29666	FT29667
BY23815	FT166656			BY23815*	BY23815*
		BY84346	BY130060	BY147110	FT233222
					BY53846
			A14078*	A14078*	A14078*

FT125799	FT126005	FT127790	BY81770	BY156327	
					Y106312
	FT434049*	FT434049*	FT434049*	FT434049*	FT434049*

FT434049

BY108194	Y27094	Y27095
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FT328747

FT387295	BY463	FT460778	<i>BY463*</i>	<i>BY463*</i>	<i>BY463*</i>
			<i>BY463*</i>	<i>BY463*</i>	<i>BY463*</i>

FT135078	FTB20458	Y23275	Y23277	Y23461	Y23463
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<i>BY24152*</i>
<i>BY24152*</i>

BY142604	BY220250	BY80812	FT132900	FT135043	BY150441
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FT62635	FT63091	FT63140	Y9054	Y9055	Y9435
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<i>BY2869*</i>
<i>BY2869*</i>

S961	Z27678	Y101995			
			Y95947	FT110784	FT225379

BY60996	BY114184	BY127508
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				<i>BY178611*</i>	<i>BY178611*</i>
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BY178611	BY178613	BY179696	FT138696		
BY108358	BY132465	BY147474	BY149905	BY152222	BY53372
A947	A950	A951	BY43421	A944	A946
FT93973	Y168679	BY115181	BY47807	FT29602	FT93982
BY39837	BY39838	BY39842	FT20657	FT21368	FT22409
BY23666	BY3167	BY3169	BY3181	FT22701	
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FTA25586	Y54368	BY84773	FT143701	FTA25693*	FTA25693*
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					BY84773*

BY3249		
	BY57078	BY120568
	BY131573	

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A939	A940	A941	A942	A943	BY24583
FT23377	FT10551	FT16657	FT23934	FT25906	FT26237

BY39833	BY39835	BY39836	BY39839	FT136462	FT139700
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FT90676	BY206537
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		FT116976	A21926	FT120125	

BY201968	FT123041				A21921

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<i>FT238740*</i>	<i>FT238740*</i>	<i>FT238740*</i>	<i>FT238740*</i>	<i>FT238740*</i>	<i>FT238740*</i>
BY3166	BY20669	BY3168	BY3177	BY58262	BY72091
					BY43649
BY3180	BY3184	BY3186	BY3187	Z34751	<i>BY3170*</i>
<i>BY20667*</i>	<i>BY20667*</i>	<i>BY20667*</i>	<i>BY20667*</i>	<i>BY20667*</i>	<i>BY20667*</i>

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		FGC32815
		BY93161
	FTB95195	FTB95196

Y134213

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A77*

A77*

A77*

A77*

A77*

A77*

A77*

A77*

A77*

A77

Z16280

FT293779

FT54846

MF48967

BY174786*

BY174786*

BY174786

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FT70308*	FT70308*	FT70308*	FT70308*	FT70308*	FT70308*
FT40131	FT69979	FT70075*	FT70075*	FT70075*	FT70075*
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FT123326	FT123525	FT235937	FT265164	BY56868*	BY56868*
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BY129520*					
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55003	S3858	S3874	S3858*	S3858*	S3858*
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FT17096	FT17096*	FT17096*	FT17096*	FT17096*	FT17096*
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BY48088	FT205568	FT440431	FT204583*	FT204583*	FT204583*
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FT31334	FT31128*	FT31128*	FT31128*	FT31128*	FT31128*
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		BY43649*	BY43649*	BY43649*	BY43649*
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BY3170*	BY3170*	BY3170*	BY3170*	BY3170*	BY3170*
			BY20668	BY20668*	BY20668*
				BY20668*	BY20668*
BY20667*	BY20667*	BY20667*	BY20667*	BY20667*	BY20667*
BY149477	BY149477*	BY149477*	BY149477*	BY149477*	BY149477*
	BY149477*	BY149477*	BY149477*	BY149477*	BY149477*
FT86681	FT86918	FT87314	BY60659	BY60659*	BY60659*
					BY116445
Z16275*	Z16275*	Z16275*	Z16275*	Z16275*	Z16275*
FGC32817	FGC32815*	FGC32815*	FGC32815*	FGC32815*	FGC32815*
	FT81768	FT81227	FT232826	FGC82677	FGC32816
BY136989	BY93161*	BY93161*	BY93161*	BY93161*	BY93161*
	BY93161*	BY93161*	BY93161*	BY93161*	BY93161*
	BY93161*	BY93161*	BY93161*	BY93161*	BY93161*
				FT212042	FT212042*
				FT212042*	
FTB95195*	FTB95195*	FTB95195*	FTB95195*	FTB95195*	FTB95195*
FTB95195*	FTB95195*	FTB95195*	FTB95195*	FTB95195*	FTB95195*

	FT101118	<i>FT101118*</i>	<i>FT101118*</i>	<i>FT101118*</i>	<i>FT101118*</i>
		<i>FT101118*</i>	<i>FT101118*</i>	<i>FT101118*</i>	<i>FT101118*</i>
FTA37682	<i>FTA37682*</i>	<i>FTA37682*</i>	<i>FTA37682*</i>	<i>FTA37682*</i>	<i>FTA37682*</i>
	<i>FTA37682*</i>	<i>FTA37682*</i>	<i>FTA37682*</i>	<i>FTA37682*</i>	<i>FTA37682*</i>
	BY91285	<i>BY91285*</i>	<i>BY91285*</i>	<i>BY91285*</i>	<i>BY91285*</i>
		<i>BY91285*</i>	<i>BY91285*</i>	<i>BY91285*</i>	<i>BY91285*</i>
<i>A77*</i>	<i>A77*</i>	<i>A77*</i>	<i>A77*</i>	<i>A77*</i>	<i>A77*</i>
<i>A77*</i>	<i>A77*</i>	<i>A77*</i>	<i>A77*</i>	<i>A77*</i>	<i>A77*</i>
		<i>Z16280*</i>	<i>Z16280*</i>	<i>Z16280*</i>	<i>Z16280*</i>
		<i>Z16280*</i>	<i>Z16280*</i>	<i>Z16280*</i>	<i>Z16280*</i>
		<i>Z16280*</i>	<i>Z16280*</i>	<i>Z16280*</i>	<i>Z16280*</i>
		<i>Z16280*</i>	<i>Z16280*</i>	<i>Z16280*</i>	<i>Z16280*</i>
		<i>Z16280*</i>	<i>Z16280*</i>	<i>Z16280*</i>	<i>Z16280*</i>
		<i>Z16280*</i>	<i>Z16280*</i>	<i>Z16280*</i>	<i>Z16280*</i>
			<i>FT293779*</i>	<i>FT293779*</i>	<i>FT293779*</i>
			<i>FT293779*</i>	<i>FT293779*</i>	<i>FT293779*</i>
FT294009	<i>FT294009*</i>	<i>FT294009*</i>	<i>FT294009*</i>	<i>FT294009*</i>	<i>FT294009*</i>
	<i>FT294009*</i>	<i>FT294009*</i>	<i>FT294009*</i>	<i>FT294009*</i>	<i>FT294009*</i>
		BY92506	<i>BY92506*</i>	<i>BY92506*</i>	<i>BY92506*</i>
			<i>BY92506*</i>	<i>BY92506*</i>	<i>BY92506*</i>
			<i>BY92506*</i>	<i>BY92506*</i>	<i>BY92506*</i>
	BY115195	BY126637	BY52007	FT214342	<i>BY115195*</i>
					<i>BY115195*</i>
			BY55118	FT212778	<i>BY55118*</i>
					<i>BY55118*</i>
Y45399			FT208209	<i>FT208209*</i>	<i>FT208209*</i>
				<i>FT208209*</i>	<i>FT208209*</i>
				<i>FT208209*</i>	<i>FT208209*</i>
				<i>FT208209*</i>	<i>FT208209*</i>
				<i>FT208209*</i>	<i>FT208209*</i>
	FT53211	FT54089	FT54166	FT54487	<i>FT53211*</i>
					<i>FT53211*</i>
<i>BY174786*</i>	<i>BY174786*</i>	<i>BY174786*</i>	<i>BY174786*</i>	<i>BY174786*</i>	<i>BY174786*</i>
<i>BY174786*</i>	<i>BY174786*</i>	<i>BY174786*</i>	<i>BY174786*</i>	<i>BY174786*</i>	<i>BY174786*</i>
	FTA14363	<i>FTA14363*</i>	<i>FTA14363*</i>	<i>FTA14363*</i>	<i>FTA14363*</i>
		<i>FTA14363*</i>	<i>FTA14363*</i>	<i>FTA14363*</i>	<i>FTA14363*</i>
			FT167913	FT165824	<i>FT167913*</i>
					<i>FT167913*</i>

FTDNA Kit No.	Surname of MRKA	Country of origin	County or city	Sept or clan
AM27675	Pugh	Wales		
?	?	Ireland		
160515	Kelly	Ulster	Down	
500173	Gee	USA		
?	?	Ireland		
?	?	Ireland		
?	?	unknown		
319027	McGuire	unknown		
B7581	Tevlin	Ireland		
304261	Owens	Ireland		
?	?	unknown		
?	?	unknown		
?	?	Ireland		
?	?	Ireland		
207860	Baty	unknown		
?	?	unknown		
N68341	Jones	Wales		
969036	McKone	Ireland	Down	
285468	Henretty	Ireland	Armagh	
?	?	Germany		
75339	Newell	USA		
B379662	?	unknown		
?	?	unknown		
?	?	unknown		
485865	Almond	unknown		
?	?	unknown		
?	?	Ireland		
?	?	unknown		
?	?	unknown		
?	?	unknown		
371091	Langton	unknown	Kilkenny	
?	?	unknown		
223799	Casey	Ireland	Monaghan	
?	?	unknown		
678398	Kerwin	Ireland		
?	?	Ireland		
840087	Taggart	USA		
842778	McCammon	Ireland		
B316052	McClain	Scotland		
61096	Hendricksson	Sweden	Värmland	
?	?	Ireland		
960518	Carroll	USA		

271890	Carroll	unknown		Mac Cearbhaill (Carroll) sept
B497330	<i>Bass</i>	Ireland		
303983	Carroll	unknown		
?	?	unknown		
N41845	Carroll	Ireland		
?	?	unknown		
?	?	Ireland		
B112669	<i>Dorough</i>	unknown		
145564	Godwin	unknown		
328680	Davie	Scotland		
133292	Robertson	Scotland		
166091	Robertson	Scotland	Aberdeen	
101633	Rogan	Ireland		
259601	Johnson	Scotland		
?	?	unknown		
N205360	Taylor	Australia		
915504	Calken	England		
930970	Calkins	Wales		
963008	Calkyn	unknown		
577531	Calkin	England		
?	?	USA		
N16767	Calkins	England		
Calkins	Calkins	Wales		
?	?	Scotland		
MI63501	McNaughton	unknown	West Sussex	
?	?	unknown		
341899	Culbreth	Scotland		
?	?	Scotland		
8551	Rhydderch	Wales	Glamorgan	
?	?	England		
489258	Quillen	Ireland	Kilkenny	
B54271	Adams	USA		
MK32719	Adams	unknown		
164289	Adams	unknown		
B484012	Adams	USA		
?	?	unknown		
180119	Lawler	Ireland		
751175	Riser	USA		
479484	Hulse	unknown		
58349	Roberts	unknown		
278955	Roberts	UK		
145674	Roberts	USA		
B433062	<i>Shields</i>	unknown		
518912	Wood	Ireland		

182242	O'Guin	Ireland		
856223	O'Quin	USA		
233356	O'Quin	unknown		
287488	Shepherd	England		
?	?	Ireland		
579471	De Muirhead	Scotland		
B37231	Wilson	unknown		
277220	Peoples	Ireland		
?	?	Ireland		
36836	Paden	Ireland	Antrim	
928007	Peden	unknown		
?	?	Scotland		
112086	Smellie	UK	London	
?	<i>Larkin?</i>	Ireland		
?	<i>Larkin?</i>	unknown		
?	<i>Larkin?</i>	Ireland		
278906	McCormick	USA		
400462	Larkin	Ireland		
?	<i>Larkin?</i>	Ireland		
944424	Cull	Ulster	Down	
318459	Morrison	Ireland		
912838	Morrison	USA		
393518	Troy	Ireland	Limerick	
191286	Cain	unknown		
372856	<i>Brady</i>	Ireland		
81702	Cusick	Ireland		
B452072	Greenan	Ireland	Leitrim	
?	?	Ireland		
981904	Smyth	Ireland		
252846	Smith	Ireland		
N57121	Smith	Ulster		
?	?	unknown		
366420	McKenna	Ireland		
IN104194	McGhee	Scotland		
39409	McMahon	Ireland	Armagh	
B588222	McMahon	unknown		
344160	Fox	Ireland	Antrim	
951702	Dunbar	Ireland		
249546	McMahon	Ireland		
?	?	Ireland		
13852	McMahon	Ireland		
?	?	unknown		
166797	Hart	Ireland	Cavan	
IN59707	Hartin	Ireland		

IN60255	Harten	Ireland	Cavan	
182999	Harte	Ireland		
890160	McIntyre	Ireland		
156013	Glennon	Ireland		
93326	Glennon	Ireland		
810915	Collins	Ireland		
209736	Collins	Ireland	Meath	
64895	Higgins	Ireland	Ulster	Monahan of Ulster
237073	Monahan	Ireland		
?	?	unknown		
B89280	Monegan	Ireland		
922775	Monnahan	Ireland		
?	?	Ireland		
?	?	unknown		
?	?	Ireland		
465596	Monahan	Ulster		
27820	Shannon	Ireland		
?	?	Ireland		
?	?	Ireland		
B795179	Magennis	Ireland	Down	
B67020	Dignan	Ireland		
N69302	White	Scotland		
B171833	Lowery	unknown		
N31420	McNeill	Ulster	Antrim	
B237682	McNail	USA		
769715	White	UK	Tyrone	
87259	White	unknown		
?	?	Scotland		
?	?	Scotland		
42254	MacDougall	Scotland		
21971	MacDougall	Scotland		
867968	MacDougall	Canada		
207617	Reynolds	Ireland	Longford	
121435	Osbourne	England	Kent	
B244933	Farrell	Ireland	Dublin	
369868	MacDonald	Scotland		
463447	McDonnell	Canada		
473788	McDaniel	Canada		
317563	McDonnell	Ulster		
908422	MacDomhnaill	Ireland		
451263	MacDonald	Scotland		
IN21374	Donnelly	Ireland	Laois	
?	?	Ireland		
?	?	unknown		

439344	McGroder	Ireland	Monaghan	
H1682	McGrother	Ireland	Monaghan	
7207	Neal	unknown		
?	?	unknown		
927717	Murtaugh	unknown		
?	?	unknown		
868637	Kinne	unknown		Mac Cionaoith (McKenna) of Monaghan
?	?	unknown		
900384	McKenna	Ireland		
B330469	McKenna	Ireland		
100576	McKenna	Ireland	Monaghan	
21156	McKenna	Ireland		
228024	McKenna	Ireland		
104716	Elliott	unknown		
140728	Cooley	USA		
?	?	USA		
358156	Cooley	Ireland		
960161	Riley	USA		
492548	Magness	USA		
648527	McGinnis	USA		
111018	Walden	England		
?	?	unknown		
?	?	unknown		
?	?	unknown		
?	?	Norway		
220430	Østerud	Norway	Akershus	
?	?	Norway		
?	?	Norway		
?	?	unknown		
78625	Connelly	Ireland		Ó Conghalaigh (Connolly) of Airgíalla
N18664	Alexander	Ulster		
263699	Connally	Ireland	Monaghan	
328903	Conlee	Ireland		
?	?	Isle of Man		
S114747	Devine	Scotland		
?	?	unknown		
841026	Connally	USA		
536250	Connally	unknown		
791222	Connely	Scotland		
906137	Connely	Scotland		
?	?	Ireland		
B736218	Boylan	Ireland	Monaghan	
456444	Boylan	Ireland	Meath	
844751	King	USA		Boylan family

428117	Boylan	Ireland	Kildare	Boylan family
967828	Boylan	unknown		
97145	Donohoe	Ireland		
366987	O'Donoghue	Ireland		
IN55602	McNamee	unknown		(Maguire) from Colla da Chrich; kings of
32277	McGuire	Ireland		
222108	McGuire	unknown		
?	?	Ireland		
595358	Larkin	Ireland		
?	?	unknown		
B590217	Larkins	USA		
642857	Larkin	unknown		
245650	O'Hara	Ireland		
?	?	Ireland		
955203	O'Harra	USA		
113649	Beeman	unknown		
47703	McAulay	Ireland		
IN50181	McAuley	unknown		
545166	De Baard	Ireland		
39559	McCall	Ulster		
127469	Beggan	Ireland	Cavan	Biggins family?
N86783	Bigham	Ireland		
146867	Biggins	Ireland	Monaghan	
956940	Began	unknown		
629651	Biggins	Ireland	Monaghan	
896940	Little	Ireland		
69648	Beggan	Ireland	Cavan	
?	?	Ireland		
?	?	unknown		
941677	Elliott	Ireland		
IN60619	King	Ireland	Meath	
332859	King	unknown		
423680	McDonald	Scotland		
262560	Reilly	unknown		
?	?	unknown		
156049	McDonald	Ireland	Monaghan	
E10544	Dundas	Scotland		
442638	MacDonal	Scotland		
412502	McDonald	Ireland		
917180	McDonald	Ireland		
934379	MacDonnell	Ireland		
216028	McEntee	Ireland	Cavan	
?	?	Ireland		
?	?	Scotland		

?	?	Scotland		MacDhòmhnaill (McDonald)
278275	McDaniel	USA		
294097	McDonald	USA		
438540	McDaniel	USA		
?	?	USA		
144688	McDaniel	unknown		
977865	McDonald	unknown		
890080	MacDonald	unknown		
971428	<i>Lefeber</i>	unknown		
617821	McDonald	Ireland		
133546	McDonald	Ireland	Wicklow	
68859	Edwards	UK		
941090	MacDonald	USA		
367328	McDonald	unknown		
968806	McDonald	unknown		
914617	Waters	unknown		
41377	Waters	unknown		
?	?	unknown		
639814	Rielly	Ireland		
573634	Rielly	Ireland		
644289	Murray	Australia		
528900	McDaniel	unknown		
?	?	unknown		
25742	Turner	Ireland		
270994	McDaniel	Ireland		
541431	McDonald	Scotland		
40141	McDaniel	unknown		
719704	McDaniel	unknown		
801661	Duffy	Ireland		
572002	Duffy	Ireland	Monaghan	
263894	<i>adopted</i>	unknown		
420795	Duffy	Ireland	Monaghan	
794418	Ellison	England	Nottingham	
415715	Duffy	Ireland		
IN89479	?	Ireland	Monaghan	
381560	Duffy	Ireland		
B616346	Lanese	unknown		
B148242	Duffy	Ireland		
?	?	Ireland		
N107723	Main	Germany		
MI47859	Duffy	unknown		
362226	Duffy	Ireland		
?	?	Ireland		
B560342	Duffy	Ireland		
				Ó Dubhthaigh (Duffy)

100022	Duffy	Ireland	Armagh
241903	Duffy	Ireland	
856428	Duffy	Ireland	Mayo
IN90210	Duffy	Ireland	
B800183	Duffy	Ireland	
266926	McGinn	Ireland	Louth
		Ireland	
958900	Duffy	Scotland	
N52848	Rogers	England	Liverpool
275680	McGinn	England	
73887	Kelly	Ireland	Armagh
107942	Kelly	Ireland	Monaghan
?	?	unknown	
82960	McQuillan	Ireland	Monaghan
910309	McQuillen	unknown	
N29780	Collins	Ireland	
319977	McCaffrey	Ireland	
123611	Clarke	Ireland	
939733	Clarkin	Ireland	
?	?	Ireland	
?	?	Ireland	
740222	Clark	USA	
37416	Kern	USA	
270455	Murphey	Ireland	
440053	Murphey	Ireland	
878139	Flynn	USA	
31491	Carroll	Ireland	
377949	Carroll	Ireland	
580819	Daniel	Ireland	Cavan
B838710	Hughes	USA	
263704	Hughes	Ireland	
252300	Hughes	Ireland	
512230	Conachy	Ireland	
BP31320	Courtney	Ireland	
405883	Callan	Ireland	Monaghan
887618	Callan	Ireland	Monaghan
264834	Callan	Ireland	Monaghan
322443	Hughes	Ireland	
696167	Hughes	Ulster	Down
964063	Wilson	unknown	
B397573	Hughes	USA	
7996	Hughes	unknown	
454777	McMahon	Ireland	
144005	McArdle	Ireland	

?	?	USA		Ardle McMahon
?	?	unknown		
902318	McArdle	Ireland	Louth	
734100	McArdle	Ireland		
B9264	Curby	unknown		
?	?	unknown		Phillip McMahon
IN38643	McPhillips	Ireland		
941931	Phillips	unknown		Mac Mathghamhna (McMahon)
96415	Higgins	Ireland		
426339	McMahan	Ireland		
69356	McMahon	Ireland	Monaghan	
355806	McMahon	Ireland	Cavan	
N65214	McMahon	Ireland	Monaghan	
N28985	O'Neil	Ireland		
?	?	Ireland		
N83765	McMahon	Ireland	Meath	
929792	<i>Constant</i>	unknown		
233198	Collins	England		
391033	McMahan	unknown		
956291	McMahon	Ireland	Cavan	
B52935	Raney	Scotland		
?	?	unknown		
145687	McMahon	Ireland	Meath	
N174002	McMahon	unknown		
N70960	Moorhead	Ireland	Monaghan	
634131	<i>Caviness</i>	unknown		
B96581	McMahan	Ireland		
327949	McMahon	Ireland		
411747	McMahan	Ireland		
162173	McMahan	Ireland		
177680	McMahan	Ireland		
?	?	Ireland		
896752	Mack	unknown		
B2743	McMahon	Ireland	Armagh	
229945	McMahon	Ireland		
523857	McMahon	Ireland		
?	?	Ireland		
?	?	Ireland		
N121145	Hemmings	England		

12	11	10	9	8	7	
1235	1300	1365	1430	1495	1560	
Y11179 et al. (36 SNPs under U152>L2>Z4 9), likely David "Mór" de Barry 1195-1261; branching 1105 BCE		Y47472	Y46859	FGC29044	Y186947	
					FT116692	
					BY84212	FT266200
					FGC36721	FGC36713
		Y13610	FT27366	Y142107	BY5697	BY38893

6	5	4	3	2	1
1625	1690	1755	1820	1885	1950
	Y53844	Y53844*	Y53844*	Y53844*	Y53844*
		Y53844*	Y53844*	Y53844*	Y53844*
		Y53844*	Y53844*	Y53844*	Y53844*
		Y47472*	Y47472*	Y47472*	Y47472*
Y47232	Y48741	Y46859*	Y46859*	Y46859*	Y46859*
		Y46859*	Y46859*	Y46859*	Y46859*
		Y46859*	Y46859*	Y46859*	Y46859*
FT113214		FT116692*	FT116692*	FT116692*	FT116692*
	FT116884	FT119658	FT116884*	FT116884*	FT116884*
			FT116884*	FT116884*	FT116884*
BY100904	BY100904*	BY100904*	BY100904*	BY100904*	BY100904*
	BY100904*	BY100904*	BY100904*	BY100904*	BY100904*
FT265537	FT265889	FT265974	Y215929	Y216075	Y161474
				Y13610*	Y13610*
				Y13610*	Y13610*
				Y13610*	Y13610*
				Y13610*	Y13610*
Y58344	Y58344*	Y58344*	Y58344*	Y58344*	Y58344*
	Y58344*	Y58344*	Y58344*	Y58344*	Y58344*
FGC36729	FGC36731	FT203146	FGC36721*	FGC36721*	FGC36721*
			FGC36721*	FGC36721*	FGC36721*
			Y142107*	Y142107*	Y142107*
			Y142107*	Y142107*	Y142107*
FT30363	FT30363*	FT30363*	FT30363*	FT30363*	FT30363*
	FT30363*	FT30363*	FT30363*	FT30363*	FT30363*
	Y180323	FT404329	Y180323*	Y180323*	Y180323*
			Y180323*	Y180323*	Y180323*
		BY5697*	BY5697*	BY5697*	BY5697*
Y113337	BY182454		Y113337*	Y113337*	Y113337*
			Y113337*	Y113337*	Y113337*
		BY153523	BY154230 (Thomas Barry, Kilmountain 1800-1851)	FT93140	BY153523*
			BY38893*	BY38893*	BY153523*
					BY153523*
BY86819	FT95559	Y36323 (James Barry, b.1765)	Patrick Barry, 1794-1872	Y89222	BY38893*
					Y89222*
					Y89222*
					Y89222*
					Y89222*
					Y89222*

FTDNA Kit No.	Surname of MRKA	Country of origin	County or city	Sept or clan
153222	Barry	Ireland		
B12027	Barry	Ireland		
931602	Barry	unknown		
785916	Adams	England		
B501760	Barry	Ireland		
N53153	Barry	Ireland	Wexford	
B512125	Barry	England		
IN67185	Barry	Ireland		
904650	O'Brien	Ireland	Cork	
441938	Barry	unknown		
649043	Barry	Ireland	Tipperary	
N210073	Barry	Ireland		
IN59559	Mitchell	England	Cornwall	
?	?	England		
?	?	unknown		
728465	Barry	Ireland		Earls of Barrymore (Barryroe branch)
IN47019	Barry	Ireland		
396777	Barry	Ireland	Cork	
?	?	Ireland		
B6351	Barry	Ireland	Cork	
?	?	Ireland		
240232	Barry	Ireland	Cork	
MK35282	Barry	Ireland	Cork	
363705	Barry	Ireland		
148288	Bell	Ireland		
?	?	Ireland		
?	?	unknown		
638420	Barry	Ireland	Cork	
B365271	Barry	Ireland		
227094	Downey	Ireland		
865220	Barry	Ireland		
365081	Barry	Ireland		
MK61020	Barry	Ireland	Cork	
MK30363	Barry	Ireland	Cork	
MK61021	Barry	Ireland	Cork	
288275	Barry	Ireland		
865965	Barry	Ireland		
919776	Barry	Ireland		
670626	Barry	Ireland		
919763	Barry	Ireland		
848610	Barry	Ireland		
919765	Barry	Ireland		

18	17	16	15	14	13
845	910	975	1040	1105	1170
	FTB9412	BY130564	FTB10098	FTB10467	FTB10686
BY32580 et al (22 SNPs) branching 650 BCE, under R1b-DF27 > Z195 > Z209	BY32575	BY32576	FT46237	Y97881 William de Burgh of Norfolk (4 sons) > William de Burgh 1160-1205 (3 sons)	BY32579 > FT46309

					114000
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12	11	10	9	8	7
1235	1300	1365	1430	1495	1560
FTB10791	FTB10903	FTB11181	FTB11593	FTB11919	FTB13522

		FT185019	FT183826	FT187056	FT188790
		FT259652	BY219304	FT258450	FT259681
BY53774	FT95244	FT97264		BY53774*	BY53774*
				BY53774*	BY53774*
					FT185129
				FT136390	FT137586

BY32579*
BY32579*
BY32579*
BY32579*

BY40199	FT112046	FT144077	BY40204	FT142957	FT143913
					FTC13238

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		BY107960	FT47344		
				FT138310	FT138730
					BY208212
BY132365	FT45864	Y105943	Y107751	BY189654	BY192035

<i>BY107960*</i>	<i>BY107960*</i>	<i>BY107960*</i>	<i>BY107960*</i>	<i>BY107960*</i>	<i>BY107960*</i>
<i>BY107960*</i>	<i>BY107960*</i>	<i>BY107960*</i>	<i>BY107960*</i>	<i>BY107960*</i>	<i>BY107960*</i>
<i>BY107960*</i>	<i>BY107960*</i>	<i>BY107960*</i>	<i>BY107960*</i>	<i>BY107960*</i>	<i>BY107960*</i>
<i>BY107960*</i>	<i>BY107960*</i>	<i>BY107960*</i>	<i>BY107960*</i>	<i>BY107960*</i>	<i>BY107960*</i>
FTC94263	<i>FT138310*</i>	<i>FT138310*</i>	<i>FT138310*</i>	<i>FT138310*</i>	<i>FT138310*</i>
	<i>FT138310*</i>	<i>FT138310*</i>	<i>FT138310*</i>	<i>FT138310*</i>	<i>FT138310*</i>
		FTB41266	MF41226	<i>FTB41266*</i>	<i>FTB41266*</i>
				<i>FTB41266*</i>	<i>FTB41266*</i>
<i>BY208212*</i>	<i>BY208212*</i>	<i>BY208212*</i>	<i>BY208212*</i>	<i>BY208212*</i>	<i>BY208212*</i>
<i>BY208212*</i>	<i>BY208212*</i>	<i>BY208212*</i>	<i>BY208212*</i>	<i>BY208212*</i>	<i>BY208212*</i>
BY192039	BY192245	<i>BY189654*</i>	<i>BY189654*</i>	<i>BY189654*</i>	<i>BY189654*</i>
		<i>BY189654*</i>	<i>BY189654*</i>	<i>BY189654*</i>	<i>BY189654*</i>
		<i>BY189654*</i>	<i>BY189654*</i>	<i>BY189654*</i>	<i>BY189654*</i>
	BY190173	FT272531	Y93464	<i>BY190173*</i>	
				<i>BY190173*</i>	
				<i>BY190173*</i>	
Y81507	FT80543	Y113106	<i>Y81507*</i>	<i>Y81507*</i>	<i>Y81507*</i>
			<i>Y81507*</i>	<i>Y81507*</i>	<i>Y81507*</i>

FTDNA Kit No.	Surname of MRKA	Country of origin	County or city	Sept or clan
123999	Nicol	Scotland		
?	?	unknown		
?	?	Ireland		
?	?	unknown		
46815	Burke	Ireland		
?	?	USA		
?	?	Ireland		
219869	Gibbons	unknown		
396291	Burke	Ireland		
B670807	Burke	Ireland		
?	?	unknown		
46471	Ferrel	Ireland		
?	?	Ireland		
?	?	unknown		
?	?	unknown		
108969	Burk	Ireland	Limerick	
352483	Garner	England		
IN81937	Burke	Ireland		
IN80498	Burke	Ireland		
B514577	Burke	Ireland		
359831	Goode	England		
N117594	Burk	Ireland		
52143	Burks	Ireland		
B399075	McMann	Ireland		
367907	Jeffers	Ireland		
IN95111	Burke	Ireland		
?	?	Ireland		
B24678	Archibald	Ireland		
716482	Burke	USA		
124720	Burk	unknown		
MK76664	Burke	Ireland	Tipperary	De Burgh / Burke family
?	?	Ireland		
?	?	Ireland		
919153	Burke	Ireland		
?	?	USA		
B679285	Burke	Ireland		
862179	Watson	Scotland		
370664	Bourke	Ireland	Mayo	
IN96770	Burke	Ireland		
?	?	Ireland		
?	?	Ireland		
?	?	Ireland		

248835	Birks	England	Derbyshire
944618	Bourke	unknown	
?	?	unknown	
?	?	unknown	
?	?	Ireland	
68668	Travers	England	
?	?	Ireland	
974774	Burk	USA	
MK23992	Burke	Ireland	Galway
327725	McHugh	Ireland	Galway
B845817	Mannion	Ireland	Galway
893315	?	unknown	
?	?	unknown	
B670337	Burk	USA	
MK39348	Burk	USA	
MK39349	Burk	USA	
364436	Burk	Ireland	
258512	Burk	USA	

26	25	24	23	22	21
325	390	455	520	585	650

FT227075	FT170420	FT227113
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BY15552

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L1336 et al.
(32 SNPs,
branching
1885 BCE)

A936

A934

L1337

A933

Z29609

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20	19	18	17	16	15
715	780	845	910	975	1040
				<i>L1336*</i>	<i>L1336*</i>
				<i>L1336*</i>	<i>L1336*</i>
				<i>L1336*</i>	<i>L1336*</i>
				<i>L1336*</i>	<i>L1336*</i>

FT227345	FT328734	FTA23722	BY42723	FT253155	FTA23157
				FT226767	FT225980
BY15553	BY15554	BY15556	FGC32649	FGC32654	FGC81551
		FT66312	FT198013	FT66501	FT66917

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Z29610

A935

BY20363

FT293691

FT292911

FT293252

BY19489

BY19488

FT166098

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14	13	12	11	10	9
1105	1170	1235	1300	1365	1430
L1336*	L1336*	L1336*	L1336*	L1336*	L1336*
L1336*	L1336*	L1336*	L1336*	L1336*	L1336*
L1336*	L1336*	L1336*	L1336*	L1336*	L1336*
L1336*	L1336*	L1336*	L1336*	L1336*	L1336*
					FGC11336*
					FGC11336*

FTA78133	Z21617	FTC26751	FT304139	FTC27714	FTC27811
FT226798	FT404204	FT226164	FT225594	FT226047	FT226460

FT356460	BY15550	BY15551	FGC32646	FGC32652	FT356944
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FT67539	FT68512	FT68908	FT68891	FT66700	FT225405
		A934*	A934*	A934*	A934*

	BY192531	BY192537	BY192548	BY192638
			BY61910	BY61910*
				BY149471
FT246155	FT245262	FT246231	FT246264	FT246707

		A935*	A935*	A935*	A935*
		A935*	A935*	A935*	A935*
		A935*	A935*	A935*	A935*
		A935*	A935*	A935*	A935*
FT293259	FT293413	FT293712	FT293769 > FT293796	FT293828 > FT293909	FT294132

			FTB1681	FTA99075	FTB2116
FTB31605	FT46993				BY82222

FT166480	FT170061	FT171426	FT202857	FT202858	FTB21065
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8	7	6	5	4	3
1495	1560	1625	1690	1755	1820
L1336*	L1336*	L1336*	L1336*	L1336*	L1336*
L1336*	L1336*	L1336*	L1336*	L1336*	L1336*
L1336*	L1336*	L1336*	L1336*	L1336*	L1336*
L1336*	L1336*	L1336*	L1336*	L1336*	L1336*
FGC11336*	FGC11336*	FGC11336*	FGC11336*	FGC11336*	FGC11336*
FGC11336*	FGC11336*	FGC11336*	FGC11336*	FGC11336*	FGC11336*
FTA23722*	FTA23722*	FTA23722*	FTA23722*	FTA23722*	FTA23722*
FTC28031	FTC28175	FTC29832	FTC31279	FTC35684	PH2559
FT226514	FT226792	FT226962	FT283244	FT226164*	FT226164*
				FT226164*	FT226164*
		FT403628	FT404143	FT403628*	FT403628*
				FT403628*	FT403628*
	FGC65734	FGC65738	FTC71482		FGC65734*
				BY126184	BY126184*
				BY126184*	BY126184*
			BY15550*	BY15550*	BY15550*
FT356568	FT356568*	FT356568*	FT356568*	FT356568*	FT356568*
	FT356568*	FT356568*	FT356568*	FT356568*	FT356568*
	BY15555	BY61842	FGC32653	FT374113	BY15555*
					BY15555*
				FT66312*	FT66312*
				FT66312*	FT66312*
				FT66312*	FT66312*

		FT344903			
			SK997	SK997*	SK997*
				SK997*	SK997*
FT68015	FT69043	Y174030			FT66700*
					FT66700*
					FT66700*
					FT66700*
				FT235431	FT235431*
				FT235431	FT235431*
				FT235431	FT235431*
				FT235431	FT235431*
		FT207288	FT207644	MF95520	
A934*	A934*	A934*	A934*	A934*	A934*
A933*	A933*	A933*	A933*	A933*	A933*

A933*	A933*	A933*	A933*	A933*	A933*
A933*	A933*	A933*	A933*	A933*	A933*
BY192733	BY192757	BY224932	FTB63374	BY192531*	BY192531*
				BY192531*	BY192531*
BY61910*	BY61910*	BY61910*	BY61910*	BY61910*	BY61910*
FT285818	FT286349	FT286914	FTC79546	BY149471*	BY149471*
				BY149471*	BY149471*
FT265202	FT246155*	FT246155*	FT246155*	FT246155*	FT246155*
	FT246155*	FT246155*	FT246155*	FT246155*	FT246155*
		BY81149	BY120940	BY196168	BY81149*
					BY81149*
A935*	A935*	A935*	A935*	A935*	A935*
A935*	A935*	A935*	A935*	A935*	A935*
A935*	A935*	A935*	A935*	A935*	A935*
A935*	A935*	A935*	A935*	A935*	A935*
FT369944	FT457197	FT457428	FTC13996	FT293691*	FT293691*
				FT293691*	FT293691*
		FTC4474	BY93020	FTC4474*	FTC4474*
		FTB31605*	FTB31605*	FTB31605*	FTB31605*
FTB28933	FTB31617	Y113030	Y166036	FTB1681*	FTB1681*
				FTB1681*	FTB1681*
BY213691	FT4029	Y40546	BY82222*	BY82222*	BY82222*
A932	A932*	A932*	A932*	A932*	A932*
	A932*	A932*	A932*	A932*	A932*
					BY19489*
					BY19489*
				FT174058	FT174058*
					FT174058*
					FT174058*
					FT174058*
					BY114032
FTA91326	FT308695	BY210934	FT309350	FT308695*	FT308695*
				FT308695*	FT308695*

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BY140050

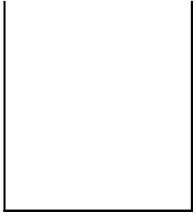
BY148368

FT169056

2	1	FTDNA	Surname	Country	County
1885	1950	Kit No.	of MRKA	of origin	or city
L1336*	L1336*	B156019	O'Brien	Ireland	
L1336*	L1336*	144806	Rook	Ireland	
L1336*	L1336*	216105	Cotter	Ireland	
L1336*	L1336*	IN95328	Manning	Ireland	Galway
FGC11336*	FGC11336*	N112443	Maher	Ireland	Clare / Aran
FGC11336*	FGC11336*	N82445	Meade	Ireland	
FTA23722*	FTA23722*	?	?	unknown	
Y207699	FTC26751*	975322	Parks	USA	
	FTC26751*	975324	Parks	USA	
FT226164*	FT226164*	449574	Dunn	USA	
FT226164*	FT226164*	?	?	USA	
FT403628*	FT403628*	865556	Shanahan	unknown	
FT403628*	FT403628*	?	?	unknown	
FGC65734*	FGC65734*	360874	Considine	Ireland	Tipperary
BY126184*	BY126184*			Ireland	
BY126184*	BY126184*	791366	Richardson	unknown	
BY15550*	BY15550*	?	?	Ireland	
FT356568*	FT356568*	467857	Colleran	Ireland	Mayo
FT356568*	FT356568*	204525	McKinley	UK	
BY15555*	BY15555*	292794	Cunningham	Ireland	
BY15555*	BY15555*	?	?	Ireland	
FT66312*	FT66312*	B8481	O'Connor	Ireland	Kerry
FT66312*	FT66312*	MK32476	Connor	Ireland	Roscommon
FT66312*	FT66312*	?	?	Ireland	
FT68891*	FT68891*	?	?	unknown	
	FT199752	B432898	Daily	Ireland	Cork
		?	?	unknown	
SK997*	SK997*	?	?	unknown	
SK997*	SK997*	?	?	unknown	
FT66700*	FT66700*	N37521	Darling	England	
FT66700*	FT66700*	956087	Darling	USA	
FT66700*	FT66700*	855971	Darling	USA	
FT66700*	FT66700*	?	?	unknown	
FT235431*	FT235431*	907158	Darling	USA	
FT235431*	FT235431*	285497	Darling	unknown	
FT235431*	FT235431*	216973	Albey	unknown	
FT235431*	FT235431*	?	?	unknown	
FT207288*	FT207288*	916646	Benson	USA	
FT207288*	FT207288*	208150	Benson	USA	
FT207288*	FT207288*	913067	Darling	unknown	
A934*	A934*	895391	O'Laughlin	Ireland	Galway
A933*	A933*	N121407	O'Donnell	Ireland	

A933*	A933*	65840	Lydon	Ireland	
A933*	A933*	76306	Moore	USA	
BY192531*	BY192531*	629111	Carmody	Ireland	
BY192531*	BY192531*	?	?	Ireland	
BY61910*	BY61910*	210550	Cullen	Ireland	
BY149471*	BY149471*	N105692	O'Rourke	Ireland	
BY149471*	BY149471*	?	?	unknown	
FT246155*	FT246155*	488219	O'Carroll	Ireland	Kerry
FT246155*	FT246155*	?	?	unknown	
BY81149*	BY81149*	?	?	Ireland	
BY81149*	BY81149*	B369649	De Lancie	England	
A935*	A935*	434839	Clancy	Ireland	Limerick
A935*	A935*	IN95431	Hulford	England	
A935*	A935*	77421	Harrelson	unknown	
A935*	A935*	?	?	unknown	
FT293691*	FT293691*	218112	Conry	Ireland	Roscommon
FT293691*	FT293691*	?	?	Ireland	
FTC4474*	FTC4474*	B632407	McArthur	Scotland	
FTC4474*	FTC4474*	?	?	unknown	
FTB31605*	FTB31605*	?	?	Ireland	
FTB1681*	FTB1681*	245696	Loughlen	Ireland	
FTB1681*	FTB1681*	?	?	unknown	
BY82222*	BY82222*	762893	Bowman	unknown	
FT106693	BY63654	443955	O'Loughlin	Ireland	Clare
		?	?	Ireland	
A932*	A932*	70983	Williams	unknown	
A932*	A932*	91126	Doyle	unknown	
BY19489*	BY19489*	955389	Marrinan	Ireland	Clare
BY19489*	BY19489*	955591	Marrinan	Ireland	Clare
FT174058*	FT174058*	371123	Marrinan	Ireland	Clare
FT174058*	FT174058*	MK62067	Marrinan	Ireland	Clare
FT174058*	FT174058*	?	?	Ireland	
FT174058*	FT174058*	?	?	Ireland	
BY114032*	BY114032*	BP19827	Marrinan	Ireland	Clare
BY114032*	BY114032*	MI42002	Marrinan	Ireland	Clare
BY114032*	BY114032*	248536	Marrinan	Ireland	Clare
BY114032*	BY114032*	?	?	Ireland	
BY114032*	BY114032*	?	?	Ireland	
FT308695*	FT308695*	IN78494	Marrinan	Ireland	Clare
FT308695*	FT308695*	411984	Marrinan	Ireland	Clare
		371063	Marrinan	Ireland	Clare
	BY140050*	MK62066	Marrinan	Ireland	Clare
	BY140050*	?	?	Ireland	
	BY140050*	?	?	Ireland	

<i>FT169056*</i>	<i>FT169056*</i>	IN95183	Marnon	Ireland	Clare
<i>FT169056*</i>	<i>FT169056*</i>	664334	Marnin	Ireland	Clare
<i>FT169056*</i>	<i>FT169056*</i>	332588	Marinan	Ireland	Clare
<i>FT169056*</i>	<i>FT169056*</i>	955430	Marrinan	Ireland	Clare
<i>FT169056*</i>	<i>FT169056*</i>	?	?	Ireland	



25	24	23	22	21	20
390	455	520	585	650	715
L1402 et al (18 SNPs) - branching 780 BCE	A818	FGC23104	FT87728	FT84865	A423
			FTB21067	FTB21068	FTB21069

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19	18	17	16	15	14
780	845	910	975	1040	1105

BY56622	A8692	A8693	BY105819	BY107515	BY122731
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A1160	A424	BY184345	BY43226	FGC23107 > FGC23108	FGC23110 > FGC23111
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A421	A775	FGC32537
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		FT47463	FT47834
		FT47922	
		SK433	BY38372
			BY38373

A426	A728	Z17964
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13	12	11	10	9	8
1170	1235	1300	1365	1430	1495
		L1402*	L1402*	L1402*	L1402*
		L1402*	L1402*	L1402*	L1402*
A818*	A818*	A818*	A818*	A818*	A818*
A818*	A818*	A818*	A818*	A818*	A818*
BY125881	BY132273	BY133092	BY54320	BY54361	BY95154
	A459	A682			
			FGC45390	FGC45392	FGC45397

BY24528	A17964	A17965	A17966	A17967	BY184343
FGC23115 > FGC23116	FGC23105 > FGC23117	FGC23119 > FGC23120	FGC71649	FT84410	FT84784
	BY71668	A9071	A9072	BY113904	BY125958

FGC32535	FGC32539	FGC32540	FGC32543	Y101513	BY86150
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FT48187	FTA2007	FT208657	FTA1583	FTA1592	FTA1620
BY183845	FT91981	FT197486	FT19139	FT16581	BY161737 > BY162374

A12131	A7493	FT82811	A7495
	A1344	BY3378	FGC42097

7	6	5	4	3	2
1560	1625	1690	1755	1820	1885
L1402*	L1402*	L1402*	L1402*	L1402*	L1402*
L1402*	L1402*	L1402*	L1402*	L1402*	L1402*
A818*	A818*	A818*	A818*	A818*	A818*
A818*	A818*	A818*	A818*	A818*	A818*
BY95841	FGC19347	FTA75294	FTA95434	FTA95840	FTB21066
				A422	A774
				A740	A740*
FGC45399	FGC58671	FGC58673	FGC58674	FGC58675	FGC58918
			FGC45394	FGC45394*	FGC45394*
				FGC45394*	FGC45394*
			FT87728*	FT87728*	FT87728*
BY50665	BY24528*	BY24528*	BY24528*	BY24528*	BY24528*
	BY24528*	BY24528*	BY24528*	BY24528*	BY24528*
FT84991	FT85227	FT85257			A423*
					A423*
			FGC23106	FGC23112 > FGC23113	FGC23114 > FGC23118
BY142865	BY144834	BY182483	BY61325	BY71668*	BY71668*
				BY71668*	BY71668*
	A421*	A421*	A421*	A421*	A421*
FGC33438	FGC33441	FGC33444	FGC81021	FTC19599	FGC33438*
					FGC33438*
			A420	A776	A420*
					A420*
		FGC32537*	FGC32537*	FGC32537*	FGC32537*
BY86151	FT93554	FT93757			
			FT94029	FT94003	FT94029*
					FT94029*
	A426*	A426*	A426*	A426*	A426*
			FT47463*	FT47463*	FT47463*
FTA2039	FTA2556	FTB19248	FTC43232		
				FTC65588	FTC66542
BY183845*	BY183845*	BY183845*	BY183845*	BY183845*	BY183845*
BY162543 > BY162715	BY170596 > BY227363	FT16422	FT16600	FT20857	FT24263 > FT24264
BY38371	BY38374	BY38371*	BY38371*	BY38371*	BY38371*
		BY38371*	BY38371*	BY38371*	BY38371*

	<i>A12131*</i>	<i>A12131*</i>	<i>A12131*</i>	<i>A12131*</i>	<i>A12131*</i>
		<i>BY54906</i>	<i>BY101682</i>	<i>BY54906*</i>	<i>BY54906*</i>
				<i>BY54906*</i>	<i>BY54906*</i>
		<i>A7493*</i>	<i>A7493*</i>	<i>A7493*</i>	<i>A7493*</i>
		<i>A7493*</i>	<i>A7493*</i>	<i>A7493*</i>	<i>A7493*</i>
<i>FT84117</i>			<i>A7495*</i>	<i>A7495*</i>	<i>A7495*</i>
			<i>A7495*</i>	<i>A7495*</i>	<i>A7495*</i>
	<i>BY24192</i>	<i>BY24192*</i>	<i>BY24192*</i>	<i>BY24192*</i>	<i>BY24192*</i>
		<i>BY24192*</i>	<i>BY24192*</i>	<i>BY24192*</i>	<i>BY24192*</i>
<i>A1344*</i>	<i>A1344*</i>	<i>A1344*</i>	<i>A1344*</i>	<i>A1344*</i>	
<i>A1344*</i>	<i>A1344*</i>	<i>A1344*</i>	<i>A1344*</i>	<i>A1344*</i>	
<i>A7113</i>	<i>FGC42098</i>	<i>FGC42100</i>	<i>FGC42102</i>	<i>FGC42097*</i>	<i>FGC42097*</i>
				<i>FGC42097*</i>	<i>FGC42097*</i>
<i>A425</i>				<i>A425*</i>	<i>A425*</i>
	<i>BY75938</i>	<i>BY58697</i>	<i>BY75938*</i>	<i>BY75938*</i>	<i>BY75938*</i>
			<i>BY75938*</i>	<i>BY75938*</i>	<i>BY75938*</i>
		<i>FGC28340</i>	<i>FT432497</i>	<i>FGC28340*</i>	<i>FGC28340*</i>
				<i>FGC28340*</i>	<i>FGC28340*</i>
	<i>FGC28340*</i>			<i>FGC28340*</i>	

1	FTDNA	Surname	Country	County	Sept
1950	Kit No.	of MRKA	of origin	or city	or clan
<i>L1402*</i>	?	?	unknown		
<i>L1402*</i>	?	?	unknown		
<i>A818*</i>	359286	Hoban	Ireland		
<i>A818*</i>	?	?	Ireland		
<i>BY56622*</i>	5789	Bassett	England		
<i>A422*</i>	146318	Morrison	Ulster		
<i>A422*</i>	102866	Morrison	Ireland		
<i>A740*</i>	26384	Morrison	Ulster	Antrim	
<i>FGC58671*</i>	518391	McEldowney	Scotland		
<i>FGC58671*</i>	?	?	unknown		
<i>FGC45394*</i>	N125150	Downey	Ireland		
<i>FGC45394*</i>	187591	Downing	unknown		
<i>FT87728*</i>	176000	Hamilton	Canada		
<i>BY24528*</i>	237627	Devoy	Ireland		O'Devoy of Laois
<i>BY24528*</i>	485315	Devine	unknown		
<i>A423*</i>	482933	Moore	Ireland		O'Moore of Laois
<i>A423*</i>	?	?	unknown		
<i>FGC23106*</i>	178605	Moore	unknown		
<i>FGC23106*</i>	122847	Moore	unknown		
<i>BY71668*</i>	193185	Kitchen	England		
<i>BY71668*</i>	201059	Kitchen	England		
<i>A421*</i>	301950	Ferguson	USA		
<i>FGC33438*</i>	188545	Kewley	UK	Isle of Man	
<i>FGC33438*</i>	?	?	unknown		
<i>A420*</i>	282328	Mylvorrey	UK	Isle of Man	
<i>A420*</i>	?	?	UK		
<i>FGC32537*</i>	114270	Johnson	unknown		
<i>Y101513*</i>	174997	Lewis	Ireland		
<i>FT94029*</i>	B131873	Lewis	Ireland		
<i>FT94029*</i>	188577	Lewis	unknown		
<i>A426*</i>	357761	Rowan	unknown		
<i>FT47463*</i>	?	?	unknown		
<i>FTA2007*</i>	956907	Rogers	USA		
<i>FTC65588*</i>	268758	Rogers	USA		
<i>FTC65588*</i>	?	?	USA		
BY82531	MK74247	Rogers	USA		
	B598557	Rogers	USA		
<i>BY183845*</i>	212914	Phelan	Ireland		O'Lalor (Lawler) of Laois
FT20402	B320477	Lawler	Ireland		
	876502	Lawler	Ireland		
<i>BY38371*</i>	207303	Lawler	Ireland		
<i>BY38371*</i>	257808	Lawler	Ireland		

<i>A12131*</i>	204897	Kelly	Ireland		O'Kelly of Laois
<i>BY54906*</i>	205429	Kelly	Ireland	Laois	
<i>BY54906*</i>	N173465	Kelley	Ireland		
<i>BY54906*</i>	?	?	unknown		
<i>A7493*</i>	114197	Kelly	Ireland	Kildare	
<i>A7493*</i>	?	?	USA		
<i>A7495*</i>	638260	Kelly	Ireland		
<i>A7495*</i>	184136	Kelley	Ireland		
<i>BY24192*</i>	639611	Kelly	Ireland		
<i>BY24192*</i>	B3533	?	Ireland		
<i>A1344*</i>	500993	Doolin	Ireland		O'Dowling of Laois
<i>A1344*</i>	591176	?	unknown		
<i>FGC42097*</i>	291311	Darst	unknown		
<i>FGC42097*</i>	?	?	unknown		
<i>A425*</i>	345428	Pemberton	USA		
<i>BY75938*</i>	386433	Dowling	Ireland		
<i>BY75938*</i>	173897	Smith	unknown		
<i>FGC28340*</i>	530771	Dowling	Ireland		
<i>FGC28340*</i>	45131	Doolin	unknown		
<i>FGC28340*</i>	131617	Doolin	unknown		