The Kaighin Y-DNA Tree

Updated March 15, 2017

The final version of this chart will have this notice removed

M253 (I1),[1] Born about 3598 BC / 5615 YBP / 27 Generations before Z140/Z141

DYS447=23-Y22 | DYS456=14-Y15 | DYS449=28-Y23,Y26 | DYS607=14-Y15 | DYS464a=16-Y15 | DYS413a=23-Y22 | DYS464b=32-Y11 | DYS513=18-Y17 | Y-GATA-H4=10-Y9

Z140/Z141 (I1a2a1a), Born about 2753 BC / 4770 YBP / 49 Generations before A196

DYS458=15-Y16 | DYS460=11-Y10 | DYS413a=22-Y21 | DYS437=16-Y15 | Y-GATA-H4=9-Y10 | DYS413b=20-Y24 | DYS448=28-Y27,Y28 | DYS455=17-Y14 | DYS481=20-Y26 | DYS464a=14-Y13 | DYS607=16-Y14 | DYS635=21-Y22,Y23 | DYS464b=13-Y12 | DYS570=16-Y17 | DYS510=17-Y18

A196 (I1a2a1a3), Born about 1232 BC / 3249 YBP / 59 Generations before Jones / Kaighin / Robertson MRCA

DYS391=10-Y9 | DYS464a=13-Y14 | DYS557=15-Y16 | DYS385a=14-Y15 | DYS464b=16-Y15 | DYS534=10-Y15 | DYS382=11-Y13,Y17 | DYS607=14-Y15 | DYS481=26-Y25 | DYS458=16-Y15 | DYS570=19-Y20 | DYS714=24-Y23 | DYS437=15-Y16 | DYS413a=21-Y22 | DYS635=23-Y22,Y21 | DYS464a=12-Y11,Y13 | DYS413b=24-Y25 | DYS635=23-Y22,Y21

Jones / Kaighin / Robertson MRCA, Born about 636 AD / 1391 YBP / 19 Generations before Kaighin / Robertson MRCA

DYS447=22-Y23 | DYS712=21-Y22 | DYS464=29-Y31 | DYS714=24-Y25 | DYS607=15-Y14 | DYS552=25-Y24 | DYS413b=25-Y24,Y23 | DYS635=21-Y22 | A-GATA-A10=13-Y14 | DYS598=13-Y12

Kaighin / Robertson MRCA, Born about 1197 AD / 820 YBP / 1 Generation before MRCA A

DYS464b=31-Y30

Kaighin Founder, Born about 1210 AD / 807 YBP / 7 Generations before John McCaighyn

Born about 1232 AD

60 John McCaighyn

55 Richard McCaighyn

Mutations since Kaighin Founder: DYS712=22-Y23, DYS570=17-Y16

70 Gilchrist McCaighyn

DYS570=16-Y17 (BM)

90 Richard Kaighin Sr.

225 Richard Kaighin Jr.

550 Robert Kaighin

750 William Kaighin

1950 Henry Kaighin

2900 John Kaighin

4300 John Kaighin

5800 Thomas Kaighin

10400 Henry Kaighin

13000 John H. Kaighin

17200 John Kaighin

20075 John T. Kaighin

21418 John J. Kaighin

423 William Kaighin

525 Thomas Kaighin

Mutation since William Kaighin (423): DYS452=30-Y32

950 John Kaighin

1800 Patrick Kaighin

2400 William Kaighin

DYS712=23-Y22 (BM)

2200 John Kaighin

DYS570=17-Y16 (BM)

3800 John Kaighin

5600 Gilbert Kaighin

7600 John Kaighin

Mutation since Gilbert Kaighin (5600): DYS446=17-Y14

16500 Thomas Kaighin

15500 David Kaighin

19167 David B. Kaighin

20475 Charles Kaighin

15500 Thomas Kaighin

18773 Thomas C. Kaighin

19830 Douglas C. Kaighin

21387 Cyril D. Kaighin

Mutations since Richard Kaighin Sr. (90): DYS391=9-Y10, DYS570=20-Y19, DYS413b=22-Y02, DYS712=23-Y22 (BM), DYS635=22-Y21

Barry Kaighin, FTDNA Kit 325411

Northampton, Northamptonshire, England

Mutations since Kaighin / Robertson MRCA: DYS458=15-Y14, DYS448=20-Y21, DYS461=12-Y11

Duncan Robertson[2], FTDNA Kit 94011

Wolverhampton, West Midlands, England

Mutation since Thomas Kaighin (16500): DYS710=32-Y31

Perry Kaighin, FTDNA Kit 366384

Bundaberg, Queensland, Australia

Mutation since Thomas Kaighin (16500): DYS594=17-Y18

Bill Kaighin, FTDNA Kit 172460

Lakewood, Colorado, USA

8200 Thomas Kaighin

13300 Robert Kaighin

18430 William J. Kaighin

19850 William Kaighin

21350 Edward Kaighin

21530 William E. Kaighin

9600 John Kaighin

13900 Thomas Kaighin

16700 John T. Kaighin

19800 James Kaighin Sr.

Mutations since Thomas Kaighin (3300): DYS594=17-Y18, DYS446=13-Y14, DYS635=22-Y23

Les Kaighin, FTDNA Kit 552040

Kin Michael, Isle of Man

8700 James Kaighin

10600 John Kaighin

15200 Charles Kaighin

18600 John Kaighin

19700 John B. Kaighin

21400 Donald C. Kaighin

21560 Tony B. Kaighin

Mutations since John Kaighin (2800): DYS439=11-Y12, DYS446=13-Y12, DYS594=17-Y18

James Kaighin Jr., FTDNA Kit 234949

Atchison, Kansas, USA

Xavier Kaighin, FTDNA Kit 415475

Barlwin, Missouri, USA

8700 Hugh Kaighin

DYS557=16-Y17-Y18, Y-GATA-A10=14-Y13, DYS712=23-Y24, DYS461=12-Y13

11900 Charles Kaighin

14500 Charles Kaighin Jr.

18500 Charles A. Kaighin

20400 Joseph Kaighin Sr.

21300 Joseph Kaighin Jr.

16300 John Kaighin

18300 Charles Kaighin

20900 Karl Kaighin

Mutations since Charles Kaighin (11900): DYS390=22-Y23, DYS712=11-Y10, DYS710=32-Y31

Keith Kaighin, FTDNA Kit 251905

Hadley, Michigan, USA

Ike Kaighin (deceased), FTDNA Kit 172030

Bettendorf, Iowa, USA

1450 John Kaighin Jr.

2600 Philip Kaighin

5000 John Kaighin

7500 Thomas Kaighin

9300 Thomas Kaighin

15800 John Kaighin

18700 Thomas Kaighin

19800 John C. Kaighin

21200 Thomas Kaighin

21474 Thomas D. Kaighin

21582 David C. Kaighin

Mutation since John Kaighin, (900): DYS388=14-Y13-Y12

Karl Kaighin, FTDNA Kit 498522

Douglas, Isle of Man

85 Thomas Kaighin

205 Ralph Kaighin

500 Thomas Kaighin

1342 William Kaighin

3600 Henry Kaighin

5500 Charles Kaighin Sr.

8300 Charles Kaighin Jr.

10800 Charles Kaighin III

14600 Charles Kaighin IV

16770 William Kaighin

19750 Daniel Kaighin

21256 William Kaighin

1150 John Kaighin

1700 Henry Kaighin

3400 John Kaighin

6750 John Kaighin

10300 Charles Kaighin Sr.

13100 Charles Kaighin Jr.

19100 Charles W. Kaighin

21300 George C. Kaighin

21500 Daniel G. Kaighin

Mutations since Thomas Kaighin (500): DYS444=13-Y12, DYS712=23-Y22 (BM)

Greg Kaighin, FTDNA Kit 145208

Valrico, Florida, USA

Brian Kaighin, FTDNA Kit 171907

Durban, KwaZulu-Natal, South Africa

Born about 1650 AD

80 Gilbert McCaighan

150 Morris Kaighin

Mutations since Kaighin Founder: DYS690=12-Y11, DYS495=17-Y16

435 John Kaighin

925 William Kaighin

1400 John Kaighin Sr.

2280 John Kaighin Jr.

3750 Joseph Kaighin Sr.

6950 Joseph Kaighin III

13250 Charles Kaighin

16540 William Kaighin

20773 Charles Kaighin

21422 William A. Kaighin

21543 Charles Kaighin

1375 Robert Kaighin

1900 Gilbert Kaighin

DYS449=30-Y31, DYS715=25-Y26

2100 John Kaighin

3700 John Kaighin Jr.

Either John Kaighin (3700) or his son John Jr. (5700) is the Most Recent Common Ancestor (MRCA) for Ron, Neville and Derek

9100 Thomas Kaighin Sr.

13270 Thomas Kaighin Jr.

17400 Philip Kaighin

19400 Philip J. Kaighin

21185 Fred Kaighin

Mutation since John Kaighin (2100): DYS464=15-Y14

Ron Kaighin, FTDNA Kit 355320

Toronto, Ontario, Canada

11500 Thomas Kaighin

16200 Thomas Kaighin

19050 Thomas Kaighin

19507 John J. Kaighin

20770 Richard Kaighin

Mutation since Thomas Kaighin (11500): DYS387=12-Y13

Neville Kaighin, FTDNA Kit 441669

Ramsey, Isle of Man

16300 John Kaighin

18400 Edward J. Kaighin

21040 Edward H. Kaighin

Mutations since Thomas Kaighin (11500): DYS640=12-Y11-Y10

Derek Kaighin, FTDNA Kit 346163

Perth, Western Australia, Australia

Hugh Jones, Hugh Jones, Joseph W. Jones, Hugh Jones, Henry C. Jones

Mutations since Jones / Kaighin / Robertson MRCA: DYS454=11-Y10, DYS459=14-Y13, DYS570=17-Y16, DYS413a=22-Y21

Grandson M. Jones, James G. Jones Sr.

Mutations since Grandson M. Jones: DYS441=16-Y17, DYS461=12-Y11

James G. Jones Jr., FTDNA Kit 188538

Shreveport, Louisiana, USA

William Robertson, James Robertson, David Robertson, William Robertson, David J. W. Robertson

Mutations since Kaighin / Robertson MRCA: DYS458=15-Y14, DYS448=20-Y21, DYS635=22-Y21

Duncan Robertson[2], FTDNA Kit 94011

Wolverhampton, West Midlands, England

Viking invasions of Scotland begin (circa 800 AD)

First MacCachan arrives in the Isle of Man (circa 1052 AD)

Availability of reliable genealogical record sources

Historic Men

Prehistoric

Location of Kaighin paternal ancestors (Timeline not to scale)

Dispersed

Scandinavia

Scotland

Isle of Man

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Legend and Notes

1. According to John Cheer of MacDNA.co.uk: "If we look at the Kaighin haplotype it is clear that it may well be a very unusual and hence a distinctive one! The following marker values are very rare indeed within Haplogroup I-DYS391 = 9, DYS392 = 9 and DYS464a = 16 – and represent the unique haplotype signature of the Kaighins - and you should be looking to see if you can find other I1 matches that match on these 3 markers alone. These 3 markers values are some distance from the I1 haplogroup modal signature and are distinctive and meaningful!" Since this discovery, we have also discovered that the value of DYS569 = 12 is also very rare and is therefore also a distinctive marker.
2. Ken Nordtvedt's mutation rates include Loci 1-67, 73-75, 86-92, 102-104 and 110. All rates derived from multiple sources provided by Duncan Robertson.
3. The Kaighin haplotype terminal SNP will change as new SNPs are found downstream from FGC9500.
4. Only the frequencies for Kaighin modal values shown. Multiple sources used, but the primary source is the Y-STR Allele Frequencies page on Ancestry, com compiled by Lev Little. FTDNA standards used. <0.005 indicated by 0.00.
5. * Indicates all haplogroups represented in count.
6. Duncan is our link to the first MacCachan to reach the Isle of Man about 920 years ago.
7. M253 (I1) is downstream from M170 (I). To see the complete human Y-DNA haplotree see https://www.familytreedna.com/y-dna-haplotree.aspx
8. M253 (Basic I1) STR values obtained from Ken Nordtvedt (2012)

Tested mutations mutated back (BM) = Back Mutation

Three markers mutated back three times (starting at 17, then down to 16, the up to 17, and back down to 16)

The Y-DNA STR test used in this study is the 111 marker test from Family Tree DNA (www.ftdna.com).

Fenner, Jack W. "Cross-cultural Estimation of the Human Generation Interval for Use in Genetics-based Population Divergence Studies." American Journal of Physical Anthropology (2005): 415-23. Print.

M253 (Basic I1) STR Haplotype[8]

DYS393	DYS390	DYS19	DYS391	DYS385a	DYS385b	DYS426	DYS388	DYS439	DYS389I
13	22	14	10	13	14	11	14	11	12
DYS392	DYS389II	DYS458	DYS459a	DYS459b	DYS455	DYS454	DYS447	DYS437	DYS448
11	28	16	9	9	11	11	25	14	20
DYS449	DYS464a	DYS464b	DYS464c	DYS464d	DAXS 148	Y-GAA	Y-GATA	DYS607	DYS576
29	12	13	15	17	21	10	10	15	18
DYS570	DYS577	DYS574	CDY1	CDY2	DYS442	DYS438	DYS531	DYS578	DYS395a
16	12	12	36	36	12	12	11	8	13
DYS395b	DYS568	DYS467	DYS478	DYS487	DYS413a	DYS413b	DYS710	DYS714a	DYS714b
15	11	12	11	11	23	20	32	29	29
DYS717	DYS568	DYS487	DYS572	DYS640	DYS492	DYS565	DYS526	DYS568	DYS632
19	11	12	11	11	12	13	9	11	12
DYS635	DYS485	DYS495	DYS490	DYS636	DYS592	DYS482	DYS545	DYS19_Y13	DYS460
21	13	24	27	16	11	12	11	14	11
DYS461	Duncan Ref	DYS590	DYS720	DYS595	DYS467	DYS463	DYS587	DYS575	DYS568
12	11	10	10	18	12	16	14	9	12
DYS505									
11									

The Kaighin Branches

- Ballaragyn Kaighin Branch
- Scarredale Kaighin Branch
- Curragh Kaighin Branch
- Lhargyrdhoo Kaighin Branch
- Corvalley Kaighin Branch
- Kerrookgeare Kaighin Branch
- Kirk Malew Kaighin Branch
- Bellaugha Kaighin Branch
- Ballanair Kaighin Branch
- The Phurt Kaighin Branch
- Ramsey Kaighin Branch

MRCA A (Kaighin Founder) STR Haplotype

DYS393	DYS390	DYS19	DYS391	DYS385a	DYS385b	DYS426	DYS388	DYS439	DYS389I
13	22	14	9	13	14	11	14	11	12
DYS392	DYS389II	DYS458	DYS459a	DYS459b	DYS455	DYS454	DYS447	DYS437	DYS448
11	28	16	9	9	11	11	25	14	20
DYS449	DYS464a	DYS464b	DYS464c	DYS464d	DAXS 148	Y-GAA	Y-GATA	DYS607	DYS576
29	12	13	15	17	21	10	10	15	18
DYS570	DYS577	DYS574	CDY1	CDY2	DYS442	DYS438	DYS531	DYS578	DYS395a
16	12	12	36	36	12	12	11	8	13
DYS395b	DYS568	DYS467	DYS478	DYS487	DYS413a	DYS413b	DYS710	DYS714a	DYS714b
15	11	12	11	11	23	20	32	29	29
DYS717	DYS568	DYS487	DYS572	DYS640	DYS492	DYS565	DYS526	DYS568	DYS632
19	11	12	11	11	12	13	9	11	12
DYS635	DYS485	DYS495	DYS490	DYS636	DYS592	DYS482	DYS545	DYS19_Y13	DYS460
21	13	24	27	16	11	12	11	14	11
DYS461	Duncan Ref	DYS590	DYS720	DYS595	DYS467	DYS463	DYS587	DYS575	DYS568
12	11	10	10	18	12	16	14	9	12
DYS505									
11									

Kaighin Y-DNA STR Testing Results - With Ancestor Haplotypes Extrapolated

Mutation Rate (%)[4]: Slow Mutators = 0% / Fast Mutators = 100%

Avg # of generations per mutation: 1 1 1