ANCESTRAL HAPLOTYPES FOR R-L21 GROUPS A-H, J-L, AND FOR McCARTHYS IN THE HAPLOGROUPS OF R-BY3540 and R-DF89

			R-L21 Group	A	B	C	D	E1	E2	F1	F2	F3	F4	G	H	J	K	L		
				R-P312>L21>DF13..																
	SNP (Note 1)		R-L21 (reference)	..CTS4466>S1115>A541	..DF21>...>L362>ZS4606	..Z39589>DF49>...>M222	..L513>...>Z16372 et alii	..ZZ10>Z255>...>Z16437/39	..ZZ10>Z255>...>Z16434	..ZZ10>Z253>...>S15280	..ZZ10>Z253>...>S845?	..ZZ10>Z253>...>L226	..ZZ10>Z253>...>L1066>...>?	..ZZ10>CTS3386	..FGC35995	..Z39589>S1051	..DF21>Z30233>...>DF25>DF5	..DF21>Z3017>...>Z3000>...>Z16270	R-P312>U152>BY3550>...>BY3540 (Note 5)	R-U106>...U198>...>DF89 (Note 5)
	Haplotype aka		SWAMH	Irish Type II		Irish Type I		Irish Sea				Irish Type III								
FTDNA Seq. No.	STR Label	Mutation Rate		Likely haplotype of ancestor common to all McCarthys in the group (Note 3)																
1	DYS393	S	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	14
2	DYS390	M	24	24	23	25	24	24	24	24	24	24	23	24	24	24	24	24	23	23
3	DYS19	S	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	15	14
4	DYS391	M	11	10	11	11	11	11	11	10	11	11	11	10	11	11	11	11	11	11
5	DYS385a	M	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
6	DYS385b	M	14	15	14	13	14	14	14	13	14	14	15	14	15	14	14	15	14	14
7	DYS426	VS	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
8	DYS388	VS	12	12	13	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
9	DYS439	M	12	11	12	12	11	13	12	12	12	11	12	11	12	12	12	13	12	12
10	DYS389i	S	13	13	13	13	13	14	14	13	13	13	13	13	13	13	13	13	13	13
11	DYS392	S	13	13	13	14	13	13	13	13	13	13	13	13	13	13	13	13	13	13
12	DYS389ii	M	16	16	15	16	16	16	16	16	16	29	16	16	17	16	16	16	16	16
13	DYS458	F	17	17	17	17	17	16	17	17	18	17	17	18	18	16	17	17	16	18
14	DYS459a	S	9	9	9	9	9	9	9	9	9	8	9	9	9	9	9	9	9	9
15	DYS459b	S	10	10	10	10	10	10	10	10	10	9	10	10	10	9	10	10	9	10
16	DYS455	VS	11	11	11	11	11	11	11	11	11	11	11	11	10	11	11	11	11	11
17	DYS454	VS	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	12	11
18	DYS447	M	25	24	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
19	DYS437	S	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
20	DYS448	S	19	19	19	18	19	19	18	19	19	19	19	19	19	19	19	19	19	19
21	DYS449	F	29	29	29	30	28	30	30	31 (32)	30	29	30	29	30	29	29	29	30 (31)	29
22	DYS464a	M	15	15	15	15	15	15	15	15	14	13	15	15	15	15	15	15	15	15
23	DYS464b	M	15	15	15	16	15	15	15	15	14	13	15	15	15	15	15	15	16	15
24	DYS464c	M	17	17	16	16	17	17	17	15	16	15	17	17	16	17	17	17	17	17
25	DYS464d	M	17	17	17	17	18	17	17	17	17	17	17	17	17	17	17	17	18	17
26	DYS460	M	11	11	10	11	11	11	11	10	11	11	11	10	11	11	11	11	11	11
27	Y-GATA-H4	M	11	11	11	11	11	11	11	10	11	11	10	11	11	11	11	11	11	11
28	YCAIIa	S	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
29	YCAIIb	S	23	23	23	23	23	23	23	23	23	23	23	23	23	19 (n. 4)	23	23	23	22
30	DYS456	F	16	15	16	17	16	16	16	17	17	15	15	15	15	17	16	16	15	15
31	DYS607	M	15	15	15	16	15	15	15	15	15	15	17	14	15	15	15	15	15	14
32	DYS576	VF	18	18	18	18	17	18	18	18	19	18	18	20 (21)	21	19	18	17	19 (18)	16
33	DYS570	F	17	17	18	17	16	17	16	18	17	17	17	19	18	17	17	18	16	16
34	CDYa	VF	36	36	37	38	36	39	39	36	37	36	36	36 (35)	37	38	36	36	35	37
35	CDYb	VF	38	38	38	39	37	40	40	37	38	38	38	37	39	38	38	38	36	38
36	DYS442	M	12	13	12	12	12	11	11	12	13	12	12	11	12	12	12	12	12	12
37	DYS438	S	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
38	DYS531	VS	11	11	11	11	11	11	`			11	11	11	11	11	11	11	11	11
39	DYS578	VS	9	9	9	9	9	9	9			9	9	9	9	9	9	9	9	9
40	DYF395S1a	VS	15	15	16	15	15	15	15			15	15	15	15	16	15	15	15	15
41	DYF395S1b	VS	16	16	16	16	16	16	16			16	16	16	16	17	16	16	16	16
42	DYS590	VS	8	8	8	8	8	8	8			8	8	8	8	8	8	8	8	8
43	DYS537	S	10	10	10	10	10	10	10			10	10	11	10	10	10	10	10	10
44	DYS641	VS	10	10	10	10	10	10	10			10	10	10	10	10	10	10	10	10
45	DYS472	VS	8	8	8	8	8	8	8			8	8	8	8	8	8	8	8	8
46	DYF406S1	S	10	10	11	10	12	10	10			10	10	9	10	10	10	10	10	10
47	DYS511	S	10	10	10	10	10	10	10			10	10	10	10	10	10	9	10	10
48	DYS425	VS	12	12	12	12	12	12	12			12	12	12	12	12	12	0	12	12
49	DYS413a	S	23	23	23	21 (n. 4)	23	23	23			23	23	23	21 (n. 4)	23	23	23	21 (n. 4)	23
50	DYS413b	S	23	23	23	23	23	23	23			23	24	24	23	23	23	23	23	23
51	DYS557	M	16	16	17	16	16	17	17			15	15	16	16	16	16	16	17	16
52	DYS594	VS	10	10	10	10	10	10	10			10	10	10	10	10	10	10	10	10
53	DYS436	VS	12	12	12	12	12	12	12			12	12	12	12	12	12	12	12	12
54	DYS490	VS	12	12	12	12	12	12	12			12	12	12	12	12	12	12	12	12
55	DYS534	F	15	15	15	16	16	15	15			15	14	16	16	14	15	17	15	15
56	DYS450	VS	8	8	8	8	8	8	8			8	8	8	8	8	8	8	8	8
57	DYS444	M	12	12	12	12	11	12	12			12	13	12	12	13	12	12	12	12
58	DYS481	M	22	22	22	25	22	22	22			22	22	23	23	24	22	22	24	23
59	DYS520	M	20	20	20	20	20	20	20			20	20	20	20	22	20	20	20	20
60	DYS446	M	13	13	13	13	13	14	14			13	13	13	13	13	13	13	15	13
61	DYS617	VS	12	12	13	12	13	12	12			12	12	12	12	12	12	12	10	12
62	DYS568	VS	11	11	11	11	11	11	11			11	11	11	11	11	11	11	11	11
63	DYS487	S	13	13	13	13	13	13	13			13	13	13	13	13	13	13	13	13
64	DYS572	M	11	11	11	11	11	11	11			11	11	11	11	11	11	11	11	11
65	DYS640	VS	11	11	11	11	11	11	11			11	11	11	11	12	11	11	11	11
66	DYS492	VS	12	12	12	12	12	12	12			12	12	12	12	12	12	12	12	13
67	DYS565	S	12	11	12	12	12	12	12			12	12	12	12	12	12	12	12 (13)	11
68	DYS710	VF	35	35	36	35	36	36	36			34	33				35	35	33	34
69	DYS485	S	15	15	15	15	15	15	15			15	15				15	15	15	14
70	DYS632	VS	9	9	9	9	9	9	9			9	9				9	9	9	9
71	DYS495	S	16	16	16	16	16	16	16			16	16				16	16	17	16
72	DYS540	S	12	12	12	12	12	12	12			12	12				12	12	11	12
73	DYS714	M	25	25	25	24	25	25	25			25	25				25	26	26	25
74	DYS716	VS	26	26	26	26	26	26	26			24	26				26	26	26	26
75	DYS717	M	19	19	19	19	19	19	19			19	19				20	19	19	19
76	DYS505	M	12	12	12	12	12	12	12			12	12				12	9	12	12
77	DYS556	S	11	11	11	11	11	11	11			11	11				11	11	11	11
78	DYS549	M	13	13	13	12	13	12	13			13	14				11	13	14	13
79	DYS589	S	12	12	12	12	12	12	12			12	12				12	12	12	12
80	DYS522	S	11	11	11	11	11	12	12			11	10				11	11	10	10
81	DYS494	VS	9	9	9	9	9	9	9			9	9				9	9	9	9
82	DYS533	M	13	13	13	13	13	13	13			13	12				13	12	12	12
83	DYS636	S	12	11	12	12	12	12	12			12	12				12	12	12	12
84	DYS575	VS	10	10	10	10	10	10	10			10	10				10	10	10	10
85	DYS638	S	11	11	11	11	11	11	11			11	11				11	11	11	11
86	DYS462	S	11	11	11	11	11	11	11			11	11				11	11	11	11
87	DYS452	M	30	30	30	30	30	30	30			30	30				30	30	30	30
88	DYS445	S	12	12	12	12	12	12	12			12	12				12	12	12	12
89	Y-GATA-A10	M	13	13	13	13	13	13	13			13	13				13	13	14	12
90	DYS463	S	24	24	24	24	24	23	23			25	24				24	24	24	25
91	DYS441	M	13	13	13	13	13	13	13			13	13				13	12	13	13
92	Y-GGAAT-1B07	S	10	10	10	10	10	10	10			10	10				10	10	10	10
93	DYS525	S	10	10	10	10	10 (11)	11	11			10	10				10	11	10	10
94	DYS712	VF	20	21	20	22	20	20	20			21	20				20	22	19	20
95	DYS593	V	15	15	15	15	15	15	15			15	15				15	15	15	15
96	DYS650	F	19	19	18	19	17	19	19			19	19				19	19	18	19
97	DYS532	M	13	14	13	13	13	14	13			13	12				13	13	13	14
98	DYS715	M	24	24	24	24	24	24	24			24	24				24	24	24	24
99	DYS504	M	17	16	15	17	16	17	17			17	16				16	17	16	16
100	DYS513	M	12	12	13	13	12	13	13			12	12				12	12	12	12
101	DYS561	S	15	15	15	15	15	15	15			15	15				15	17	15	15
102	DYS552	M	24	24	25	24	24	24	24			24	24				24	24	25	24
103	DYS726	VS	12	12	12	12	12	12	12			12	12				12	12	12	12
104	DYS635	M	23	24	23	23	23	23	23			23	23				23	23	23	25
105	DYS587	S	18	18	18	18	18	18	18			18	19				18	18	18	18
106	DYS643	S	10	10	10	10	10	10	10			10	10				9	10	10	10
107	DYS497	S	14	14	14	14	14	14	14			14	14				14	14	14	14
108	DYS510	M	17	18	17	17	17	17	17			18	17				17	17	18	17
109	DYS434	VS	9	9	9	9	9	9	9			9	9				9	9	9	9
110	DYS461	M	12	12	12	12	12	12	12			12	12				12	12	12	12
111	DYS435	VS	11	11	11	11	11	11	11			11	11				11	11	11	11

-3 or more	-2	-1	Genetic Difference from SWAMH	+1	+2	+3

Notes:

1 Probably the most recent SNP common to all in the group.
2 (deleted)
3 Alternative value in parenthesis is also frequently seen in McCarthys
4 This 23>19 or 23>21 mutation is considered a single event
5 SNPs BY3540 and DF89 are in parallel haplogroups to that of L21, but their ancestral McCarthy haplotypes are compared with SWAMH for reference

Last updated 04 July 2017