

28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61					
YCA	YCA	456	607	576	570	CDY	CDY	442	438	531	578	395	395	590	537	641	472	406	511	425	413	413	557	594	436	490	534	450	444	481	520	446	617					
Ila	Ilb					a	b					S1a	S1b				S1			a	b																	
19	23	17	15	18	17	35	39	12	12																													
19	23	17	15	18	17	36	39	12	12	11	9	15	16	8	10	10	8	10	10	12	23	23	16	10	12	12	16	8	12	22	20	13	12					
19	23	17	15	18	17	36	39	12	12																													
19	19	16	15	18	17	35	41	12	12																													
19	19	16	15	18	17	36	41	11	12	11	9	15	16	8	10	10	8	10	10	12	23	25	16	10	12	12	15	8	13	22	20	13	12					
18	19	16	15	18	17	36	41	12	12																													
19	23	15	15	18	17	36	38	12	12																													
19	19	16	15	18	17	36	42	12	12																													
19	19	16	15	18	17	36	41	12	12																													
19	23	16	16	17	16	39	40	12	12	11	9	15	16	8	10	10	8	11	10	12	23	23	16	10	12	12	14	8	12	22	20	13	13					
19	23																																					
19	23	17	16	17	17	39	40	12	12																													
18.9	21.3	16.3	15.2	17.8	16.9	36.4	40.1	11.9	12.0	11.0	9.0	15.0	16.0	8.0	10.0	10.0	8.0	10.3	10.0	12.0	23.0	23.7	16.0	10.0	12.0	12.0	15.0	8.0	12.3	22.0	20.0	13.0	12.3					
19	21	16	15	18	17	36	40	12	12	11	9	15	16	8	10	10	8	10	10	12	23	23	16	10	12	12	15	8	12	22	20	13	12					
19	24	17	15	18	17	37	38	12	12	12	9	15	16	8	10	10	8	10	10	12	22	23	16	10	12	12	15	8	11	22	20	13	12					

adjusted to reflect distribution

h the WTY collection.

28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61				
YCA	YCA	456	607	576	570	CDY	CDY	442	438	531	578	395	395	590	537	641	472	406	511	425	413	413	557	594	436	490	534	450	444	481	520	446	617				
IIa	IIb					a	b					S1a	S1b				S1			a	b																
19	23	16	16	18	18	37	40	13	12	11	9	15	16	8	10	10	8	10	10	12	21	23	16	10	12	12	16	8	13	25	20	13	12				
19	23	16	16	18	18	37	40	13	12	Known 2nd cousin to above, not SNP tested																											
19	23	17	16	18	18	37	42	12	12	11	9	15	16	8	10	10	8	10	10	12	21	23	16	10	12	13	15	8	13	25	20	13	12				
19	23	17	15	18	18	37	39	12	12	11	9	15	16	8	10	10	8	10	10	12	21	23	16	10	12	13	16	8	13	25	20	13	12				
19	23	17	16	18	18	37	40	12	12																												
19	23	17	15	18	18	37	42	12	12																												
19	23	17	16	18	19	37	40	12	12	11	9	15	16	8	10	10	8	10	10	12	21	23	16	10	12	12	16	8	13	25	20	13	12				
19	23	17	16	18	19	38	39	12	12																												
19	23	17	15	20	18	37	41	12	12	11	9	15	16	8	10	10	8	10	10	12	21	23	16	10	12	12	16	8	13	25	20	13	12				
19	23	17	16	20	17	37	41	12	12	11	9	15	16	8	10	10	8	10	10	12	21	23	16	10	12	12	16	8	13	25	20	13	12				
19	23	17	16	19	18	38	41	12	12																												
19	23	17	16	19	18	37	41	12	12	11	9	15	16	8	10	10	8	10	10	12	21	23	16	10	12	12	16	8	13	25	20	13	12				
19	23	17	16	19	18	37	41	12	12	11	9	15	16	8	10	10	8	10	10	12	21	23	16	10	12	12	16	8	13	25	20	13	12				
19	23	17	16	20	17	37	41	12	12	11	9	15	16	8	10	10	8	10	10	12	21	23	16	10	12	12	16	8	13	25	20	13	12				
19	23	17	16	20	18	37	41	12	12	11	9	15	16	8	10	10	8	10	10	12	21	23	16	10	12	12	16	8	13	25	20	13	12				
19	23	17	16	20	18	37	41	12	12																												
19	23	17	16	20	18	37	41	12	12	11	9	15	16	8	10	10	8	10	10	12	21	23	16	10	12	12	15	8	13	25	20	13	12				

R1b1b2a1b5b	Average		13.0	24.9	14.0	10.9	11.0	13.0	12.0	12.0	12.0	13.6	14.1	29.0	18.0	9.0	10.0	11.0	11.0	25.0	15.0	18.1	30.1	15.1	16.0	16.9	17.0	11.2	11.0
M222+ Greer Modal			13	25	14	11	11	13	12	12	12	14	14	29	18	9	10	11	11	25	15	18	30	15	16	17	17	11	11
M222+ Modal from Ysearch			13	25	14	11	11	13	12	12	12	13	14	29	17	9	10	11	11	25	15	18	30	15	16	16	17	11	11
MacGregor Irish	I		13	25	14	11	11	13	12	12	12	13	14	29	17	9	10	11	11	25	15	18	30	15	16	16	17	11	11

Grier/Greer Modal Calculation (Vikings)

			393	390	394	391	385	385	426	388	439	389	392	389	458	459	459	455	454	447	437	448	449	464	464	464	464	460	GATA	
					19*		a	b				-1		-2		a	b							a	b	c	d		H4	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
68229	NGHJE	Greer	S	13	21	14	10	13	15	11	15	11	12	11	28	16	8	9	8	11	24	16	20	29	12	13	15	15	11	11
33483	KKQB9	Grier	I	13	23	14	10	13	14	11	14	12	12	11	28	15	8	9	8	11	23	16	20	28	12	14	14	16		
113308	YBNMB	Greer	I	13	23	14	10	13	15	11	14	11	12	11	28	16	8	9	8	11	23	16	20	28	12	14	14	16	10	10
98914	SBHVR	Grier	I	13	23	14	10	13	15	11	14	12	12	11	28	15	8	9	8	11	23	16	20	28	12	14	14	16	10	10
8339	69EZT	Grier	I	13	23	14	10	13	15	11	14	12	12	11	28	16	8	9	8	11	23	16	20	28	12	14	14	16	10	10
1568	PWTXR	Greer	I	13	23	14	10	13	15	11	14	12	12	11	28	16	8	9	8	11	23	16	20	28	12	14	14	16	10	10
N5699	STS7K	Greer		13	23	14	10	13	15	11	14	12	12	11	28															
150722		Secret		13	23	14	10	13	15	11	14	12	12	11	28	16	8	9	8	11	23	16	20	29	12	14	14	16		
8581		Greer	I	13	24	14	10	13	15	11	14	12	12	11	28	16	8	9	8	11	23	16	20	28	12	14	14	16		
42755	PT6PE	Greer	I	13	23	14	10	13	15	11	14	12	13	11	29	16	8	9	8	11	23	16	20	28	12	14	14	16	10	10
	ZYC9N	Greer		13	23	14	10	13	15	11	14	12	13	11	29	16	8	9	8	11	23	16	20	28	12	14	14	16	10	10
80648	4942M	Greer	I	13	23	14	10	13	15	11	14	12	13	11	29	16	8	9	8	11	22	16	20	28	12	14	14	16	10	10
45402		Greer		13	23	14	10	13	15	11	14	12	13	11	29	16	8	9	8	11	23	16	20	28	12	14	14	16		
	WD699	Greer		13	23	14	10	13	15	11	14	12	13	11	29	16			8	11	23	16	20	28	12	14	14	16	10	10
17630	U58EY	Greer	I	13	23	14	10	13	15	11	14	12	13	11	29	17	8	9	8	11	22	16	20	28	12	14	14	16		
47363	TDX3Z	Greer	I	13	23	14	10	13	15	11	14	12	13	11	30	16	8	9	8	11	22	16	20	28	12	14	14	16	10	10
168201		Grier		14	23	14	10	14	14	11	14	12	12	11	28	16	8	9	8	11	22	16	20	30	12	14	15	16	10	10
	3W7G3	Grier		14	23	14	10	14	15	11	14	12	12	11	28	16	8	9	8	11	23	16	20	30	12	14	14	16	10	10

