Supplemental Data

Identifying Genetic Traces of Historical Expansions:

Phoenician Footprints in the Mediterranean

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Table S1. Haplogroups and Haplotypes of New Populations Sampled for this Study

Population	DNA Ref. No.	Haplogroup	Allele Status at DYS										
			19	**388**	**389I**	**389b**	**390**	**391**	**392**	**393**	**437**	**438**	**439**
Populations from Phoenician Periphery													
Syr	18AH260	E(xE1,E2,E3a,E3b)	13	12	12	18	24	10	11	13	14	10	12
Syr	12AH309	E1	16	12	12	18	23	9	12	13	16	10	12
Syr	4AH316	E1	16	12	12	17	22	10	11	14	17	10	13
Syr	19AH260	E3a	16	12	13	18	21	10	12	13	14	12	12
Syr	9AH260	E3a	15	14	13	18	23	10	11	12	14	11	12
Syr	16AH316	E3b1	13	12	13	17	24	10	11	12	14	10	12
Syr	17AH280	E3b1	14	12	13	17	23	10	11	13	14	10	11
Syr	1AH309	E3b1	13	12	13	17	23	10	11	13	14	10	12
Syr	9AH316	E3b1	13	12	14	17	24	10	11	13	14	10	12
Syr	12AH329	E3b1	13	12	14	17	24	9	11	14	14	10	13
Syr	2AH329	E3b1	13	12	13	15	24	11	11	13	14	10	13
Syr	3AH329	E3b1	14	12	13	17	23	10	11	13	14	10	11
Syr	5AH329	E3b1	15	12	14	17	24	10	11	13	14	10	11
Syr	6AH329	E3b1	14	12	13	17	23	10	11	13	14	10	11
Syr	18AH329	E3b1	14	12	13	17	24	10	11	13	14	10	12
Syr	11AH252	E3b1	13	12	13	17	23	10	11	13	14	11	12
Syr	3AH254	E3b1	13	12	13	17	21	10	11	13	14	11	12
Syr	2AH309	E3b2	13	12	13	16	24	9	11	13	14	10	10
Syr	3AH252	E3b3	15	12	13	18	23	10	11	14	14	11	12
Syr	13AH316	E3b3	15	12	13	17	25	10	11	12	14	10	12
Syr	7AH316	E3b3	15	12	13	17	23	10	11	14	14	11	12
Syr	5AH260	E3b3	13	12	13	19	24	11	11	13	14	10	13

Population	DNA Ref. No.	Haplogroup	Allele Status at DYS										
			19	**388**	**389I**	**389b**	**390**	**391**	**392**	**393**	**437**	**438**	**439**
Syr	33AH252	E3b3	15	12	13	17	23	10	11	13	14	10	12
Syr	37AH252	E3b3	13	12	13	17	22	10	11	13	15	10	12
Syr	9AH252	E3b3	13	12	13	18	23	11	11	13	14	10	12
Syr	8AH316	E3b3	14	12	14	18	24	10	11	13	14	8	13
Syr	10AH326	G	15	12	14	18	22	9	11	14	16	10	12
Syr	14AH316	G	15	12	12	17	21	10	11	14	16	10	12
Syr	19AH316	G	14	16	13	15	23	10	11	12	14	10	11
Syr	3AH316	G	16	12	12	16	22	10	5	14	16	10	11
Syr	4AH309/15	G	16	12	13	18	22	10	11	14	16	10	11
Syr	7AH309	G	15	12	13	16	23	10	11	13	16	10	11
Syr	11AH329	G	15	13	13	16	22	10	11	13	16	11	11
Syr	4AH326	G	15	12	12	18	22	10	11	14	16	10	11
Syr	16AH329	G	15	13	13	16	22	10	11	13	15	11	12
Syr	29AH252	G	15	12	11	15	22	10	11	14	16	10	11
Syr	31AH252	G	16	12	12	18	23	10	11	12	16	10	11
Syr	15AH326	I	15	12	13	16	22	10	11	14	14	10	13
Syr	2AH252	I	15	13	13	15	22	10	12	13	14	10	11
Syr	12AH280	I	15	12	13	16	23	10	11	13	14	10	11
Syr	16AH280	I	14	13	13	17	23	11	11	13	14	11	12
Syr	6AH309	I	14	12	13	15	22	10	12	13	15	11	13
Syr	19AH329	I	16	13	13	17	23	12	11	14	14	10	12
Syr	11AH326	J1	13	17	13	16	23	12	11	12	14	10	11
Syr	15AH309	J1	14	16	13	18	24	10	11	12	14	10	11
Syr	1AH252	J1	14	16	13	15	23	10	11	12	14	10	11
Syr	10AH316	J1	15	17	13	17	23	11	11	12	14	10	11
Syr	11AH316	J1	14	17	13	17	23	11	11	12	14	10	12
Syr	14AH280	J1	15	18	13	16	23	11	11	12	14	10	11
Syr	14AH309	J1	14	17	13	16	23	11	11	12	14	10	9
Syr	15AH329	J1	15	16	13	18	23	11	11	12	14	10	11
Syr	16AH309	J1	14	17	13	16	23	11	11	12	14	10	11
Syr	18AH316	J1	14	15	13	17	24	10	11	13	14	10	11

Population	DNA Ref. No.	Haplogroup	Allele Status at DYS										
			19	**388**	**389I**	**389b**	**390**	**391**	**392**	**393**	**437**	**438**	**439**
Syr	20AH280	J1	14	16	13	17	23	10	11	12	14	10	11
Syr	1AH316	J	14	16	13	16	23	10	11	12	15	9	12
Syr	3AH309	J1	14	13	14	17	25	10	11	12	14	10	11
Syr	6AH316	J1	14	16	13	17	23	10	11	12	14	10	11
Syr	4AH329	J1	14	16	14	16	24	10	11	12	14	10	11
Syr	7AH329	J1	14	17	13	17	23	12	11	12	14	10	11
Syr	3AH326	J1	14	16	13	19	23	9	11	13	14	10	12
Syr	10AH260	J2	14	16	13	16	22	10	11	12	14	9	11
Syr	11AH260	J1	14	16	13	16	23	11	11	12	14	10	11
Syr	17AH260	J1	14	17	14	17	23	11	11	12	14	10	11
Syr	17AH329	J1	14	17	13	16	23	11	11	12	14	10	11
Syr	21AH329	J1	14	12	13	17	23	12	11	12	14	10	11
Syr	22AH329	J1	14	17	13	17	22	11	11	12	14	10	11
Syr	8AH260	J2	14	16	14	17	22	10	11	12	15	9	11
Syr	10AH252	J1	15	16	13	15	21	10	11	13	14	10	11
Syr	12AH252	J1	14	17	13	17	21	11	11	13	14	10	11
Syr	13AH252	J1	14	17	13	17	24	11	11	13	14	10	11
Syr	16AH252	J1	15	17	14	17	23	10	11	12	14	10	12
Syr	18AH252	J1	14	17	13	17	23	11	11	14	14	10	11
Syr	19AH252	J1	14	13	13	18	24	10	11	13	14	10	12
Syr	25AH252	J1	14	13	13	20	22	11	11	12	14	10	11
Syr	12AH254	J1	14	17	13	17	23	11	11	12	14	10	11
Syr	13AH254	J1	14	16	13	17	23	10	11	12	14	10	11
Syr	15AH254	J1	15	15	13	17	24	11	11	13	14	10	11
Syr	1AH254	J1	14	17	13	18	23	11	11	12	14	10	11
Syr	2AH254	J1	15	16	13	17	23	11	11	14	14	10	11
Syr	6AH254	J	15	12	12	14	23	10	12	13	16	10	11
Syr	8AH254	J1	14	16	13	17	23	11	11	13	14	10	11
Syr	36AH252	J1	15	17	13	17	23	11	11	12	14	10	11
Syr	38AH252	J1	14	15	12	17	24	10	11	13	14	10	12
Syr	16AH326	J1	15	17	13	17	23	11	11	12	14	10	12

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			19	**388**	**389I**	**389b**	**390**	**391**	**392**	**393**	**437**	**438**	**439**
Syr	19AH326	J1	13	17	13	16	22	11	11	12	14	11	11
Syr	26AH252	J2	15	16	14	16	23	9	11	15	14	9	12
Syr	28AH252	J2	15	16	13	16	23	9	11	15	14	9	12
Syr	10AH280	J2	15	15	14	17	23	10	11	13	15	9	10
Syr	13AH309	J2	15	15	14	17	23	10	11	13	15	9	11
Syr	15AH280	J2	15	16	13	17	23	9	11	15	14	9	12
Syr	18AH309	J2	14	15	14	17	23	10	11	12	14	9	12
Syr	19AH280	J2	14	16	12	16	24	11	11	12	14	9	12
Syr	1AH326	J2	14	15	13	15	24	10	11	12	15	9	11
Syr	2AH316	J2	15	16	14	16	23	9	11	15	14	9	12
Syr	7AH326	J2	16	16	13	16	23	9	11	12	14	9	12
Syr	10AH329	J2	15	18	13	17	24	10	11	12	15	9	12
Syr	1AH329	J2	14	15	14	17	23	10	11	12	15	9	12
Syr	19AH254	J2	15	16	13	17	23	9	11	15	14	9	12
Syr	20AH260	J2	14	17	14	18	23	10	11	12	15	9	12
Syr	20AH329	J2	15	16	13	16	23	9	11	15	14	9	12
Syr	23AH329	J2	15	15	13	17	23	11	11	12	16	9	12
Syr	25AH329	J2	14	16	12	16	24	10	11	12	16	9	13
Syr	2AH260	J2	15	16	13	16	23	9	11	15	14	9	12
Syr	4AH260	J2	14	14	13	16	23	11	11	12	14	9	14
Syr	14AH252	J2	15	16	14	16	23	9	11	14	14	9	12
Syr	17AH252	J2	15	17	14	16	23	9	11	15	14	9	12
Syr	20AH252	J2	15	15	13	16	23	10	11	12	16	9	12
Syr	22AH252	J2	15	16	13	18	23	9	11	15	15	9	12
Syr	13AH329	J2	15	17	13	17	23	10	11	12	15	9	11
Syr	34AH252	J2	14	17	12	17	23	10	11	11	15	9	11
Syr	17AH326	J2	14	15	14	17	23	10	11	12	14	9	12
Syr	18AH326	J2	14	15	14	15	23	9	11	12	15	9	10
Syr	20AH326	J2	14	15	14	17	23	10	11	12	14	9	12
Syr	5AH252	J2	14	15	13	16	23	10	11	12	14	9	12
Syr	6AH252	J2	14	17	12	16	23	11	11	12	15	9	12

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			19	**388**	**389I**	**389b**	**390**	**391**	**392**	**393**	**437**	**438**	**439**
Syr	8AH252	J2	14	14	14	17	24	10	11	12	15	9	13
Syr	1AH316	J2*(xJ2a,J2e,J2/-f,J2/-g)	14	15	11	17	23	10	11	12	14	9	12
Syr	21AH252	J2*(xJ2a,J2e,J2/-f,J2/-g)	15	16	12	17	24	10	11	12	14	9	13
Syr	30AH252	J2*(xJ2a,J2e,J2/-f,J2/-g)	16	15	12	16	24	11	11	12	14	9	11
Syr	10S'94	J2*(xJ2a,J2e,J2/-f,J2/-g)	16	15	12	16	24	11	11	12	16	9	12
Syr	7AH280	J2/-f1*(xJ2f1a)	14	15	14	16	22	11	11	12	15	9	11
Syr	9AH309	J2/-f1*(xJ2f1a)	14	15	14	16	22	11	11	12	15	9	11
Syr	8AH329	J2/-f1*(xJ2f1a)	14	15	13	16	23	10	11	12	15	9	12
Syr	9AH254	J2/-f1*(xJ2f1a)	14	16	13	16	22	10	11	12	15	9	12
Syr	1S'59	J2/-f1*(xJ2f1a)	14	15	13	16	23	10	11	12	15	9	10
Syr	16AH260	K*(xK2,K3,L,M,NO,P)	15	12	13	16	23	10	14	13	14	10	11
Syr	12AH260	K2	14	12	13	16	23	10	13	13	14	9	11
Syr	24AH329	K2	14	12	14	16	23	10	13	13	14	9	11
Syr	4AH254	K2	15	12	14	17	23	11	13	13	14	9	11
Syr	13AH280	L1	14	12	13	16	22	10	14	11	15	10	13
Syr	5AH316	L1	14	13	14	16	22	10	14	11	15	10	12
Syr	6AH326	L1	14	12	12	16	22	10	14	11	15	10	13
Syr	5AH326	L1	14	12	12	16	22	10	14	11	15	10	13
Syr	26AH329	L1	14	12	12	16	22	10	14	11	15	10	13
Syr	6AH260	L1	14	12	12	16	22	10	15	11	15	10	13
Syr	15/24AH252	L1	14	12	12	16	22	10	14	11	15	10	13
Syr	7AH254	L1	15	12	14	18	23	10	14	13	14	9	12
Syr	1AH260	N or O	14	12	13	16	23	10	14	13	14	10	10
Syr	12AH316	P	13	12	14	16	22	10	14	13	14	11	12
Syr	18AH254	P	14	12	13	16	22	11	16	13	14	11	12
Syr	11AH280	R1/-b1a	15	12	14	16	25	10	13	13	14	13	12
Syr	11AH309	R1/-b1c	14	12	13	16	24	11	13	12	15	12	12
Syr	9AH280	R1/-b1c	14	12	13	16	25	11	13	12	15	11	13
Syr	13AH260	R1/-b1c	14	12	12	15	23	10	14	12	15	12	12

Population	DNA Ref. No.	Haplogroup	Allele Status at DYS										
			19	**388**	**389I**	**389b**	**390**	**391**	**392**	**393**	**437**	**438**	**439**
Syr	15AH260	R1/-b1c	14	12	13	16	22	11	13	12	15	12	12
Syr	23AH252	R1/-b1c	14	12	13	15	24	10	14	13	15	12	12
Syr	32AH252	R1/-b1c	14	12	13	16	24	10	13	12	15	12	11
Syr	13AH326	R1a1	14	12	14	16	24	11	13	13	15	12	12
Syr	17AH316	R1a1	15	12	13	16	25	10	11	13	14	11	10
Syr	18AH280	R1a1	15	12	12	17	24	10	11	13	14	11	10
Syr	20AH316	R1a1	16	12	13	18	23	10	11	13	15	11	10
Syr	8AH280	R1a1	16	12	13	17	26	11	11	13	14	11	10
Syr	8AH309	R1a1	16	12	13	17	25	11	11	13	14	11	10
Syr	16AH254	R1a1	17	12	13	18	24	9	11	13	14	11	10
Syr	3AH260	R1a1	16	12	13	19	25	11	11	14	15	11	10
Syr	7AH260	R1a1	16	12	13	18	24	10	11	13	14	11	10
Syr	10AH254	R1a1	15	12	14	17	24	12	11	12	14	11	10
Syr	14AH254	R1a1	14	12	13	17	23	11	13	12	15	10	14
Syr	5AH254	R1a1	15	12	14	17	25	11	11	13	14	10	10
Syr	17AH254		15	12	13	17	23	11	13	13	15	11	11
Syr	11AH254		16	11	14	17	21	9	11	13	16	10	12
Syr	5AL15	E	_	_	_	_	_	_	_	_	_	_	_
Syr	11R158	E(xE1,E2,E3a,E3b)	_	_	_	_	_	_	_	_	_	_	_
Syr	7BA2	E3b	_	_	_	_	_	_	_	_	_	_	_
Syr	18AJ57	E3b1	_	_	_	_	_	_	_	_	_	_	_
Syr	11AJ57	E3b1	_	_	_	_	_	_	_	_	_	_	_
Syr	4AL127	E3b1	_	_	_	_	_	_	_	_	_	_	_
Syr	7R59	E3b3	_	_	_	_	_	_	_	_	_	_	_
Syr	18AJ152	E3b3	_	_	_	_	_	_	_	_	_	_	_
Syr	4BA7	FGH	_	_	_	_	_	_	_	_	_	_	_
Syr	1AJ163	I	_	_	_	_	_	_	_	_	_	_	_
Syr	2AJ163	I	_	_	_	_	_	_	_	_	_	_	_
Syr	16AJ163	I	_	_	_	_	_	_	_	_	_	_	_
Syr	23AJ152	J(xJ2)	_	_	_	_	_	_	_	_	_	_	_
Syr	5AL10	J1	_	_	_	_	_	_	_	_	_	_	_

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			19	**388**	**389I**	**389b**	**390**	**391**	**392**	**393**	**437**	**438**	**439**
Syr	14R7	J1	_	_	_	_	_	_	_	_	_	_	_
Syr	15AJ57	J1	_	_	_	_	_	_	_	_	_	_	_
Syr	22AJ163	J1	_	_	_	_	_	_	_	_	_	_	_
Syr	10R172	J1	_	_	_	_	_	_	_	_	_	_	_
Syr	4AL15	J1	_	_	_	_	_	_	_	_	_	_	_
Syr	6AJ152	J2	_	_	_	_	_	_	_	_	_	_	_
Syr	6R104	J2	_	_	_	_	_	_	_	_	_	_	_
Syr	16AJ57	J2	_	_	_	_	_	_	_	_	_	_	_
Syr	12AJ184	J2	_	_	_	_	_	_	_	_	_	_	_
Syr	10AJ57	J2	_	_	_	_	_	_	_	_	_	_	_
Syr	19AJ57	J2	_	_	_	_	_	_	_	_	_	_	_
Syr	8AJ152	J2	_	_	_	_	_	_	_	_	_	_	_
Syr	18AJ163	J2/-f1*(xJ2f1a)	_	_	_	_	_	_	_	_	_	_	_
Syr	6AJ163	J2/-f1*(xJ2f1a)	_	_	_	_	_	_	_	_	_	_	_
Syr	15R59	J2e	_	_	_	_	_	_	_	_	_	_	_
Syr	5BA2	JxJ1	_	_	_	_	_	_	_	_	_	_	_
Syr	4AJ163	K*(xK2,K3,L,M,NO,P)	_	_	_	_	_	_	_	_	_	_	_
Syr	5AJ163	K*(xK2,K3,L,M,NO,P)	_	_	_	_	_	_	_	_	_	_	_
Syr	3AJ163	K2	_	_	_	_	_	_	_	_	_	_	_
Syr	14AJ184	L	_	_	_	_	_	_	_	_	_	_	_
Syr	11AJ152	L	_	_	_	_	_	_	_	_	_	_	_
Syr	6AJ177	R1/-b*	_	_	_	_	_	_	_	_	_	_	_
Syr	5R35	R1/-b1c	_	_	_	_	_	_	_	_	_	_	_
Syr	17AJ57	R1/-b1c	_	_	_	_	_	_	_	_	_	_	_
Syr	6R59	R1a1	_	_	_	_	_	_	_	_	_	_	_
Syr	15R7	R1a1	_	_	_	_	_	_	_	_	_	_	_
Syr	13R7	R1a1	_	_	_	_	_	_	_	_	_	_	_
Pal	7AL117	E3b1	13	_	13	17	24	10	11	13	14	10	12
Pal	8AL117	E3b1	15	_	13	17	23	10	11	13	14	10	13
Pal	4AL121	E3b1	13	_	13	17	23	10	11	13	14	11	11

Population	DNA Ref. No.	Haplogroup	Allele Status at DYS										
			19	**388**	**389I**	**389b**	**390**	**391**	**392**	**393**	**437**	**438**	**439**
Pal	12AL119	E3b1	13	_	13	17	23	10	11	13	14	11	11
Pal	4AL119	E3b1	13	_	13	17	23	10	11	13	14	11	11
Pal	12AL170	E3b1	15	_	13	17	24	11	11	12	14	11	11
Pal	5AL171	E3b1	15	_	13	17	23	10	11	13	14	10	12
Pal	8AL177	E3b1	14	_	13	17	24	10	11	13	14	10	12
Pal	35AL181	E3b1	13	_	12	18	25	10	11	14	14	10	12
Pal	41AL181	E3b1	15	_	13	17	23	10	11	13	14	10	12
Pal	43AL181	E3b1	13	_	13	16	23	10	11	13	15	10	12
Pal	47AL181	E3b1	15	_	13	17	23	10	11	13	14	10	12
Pal	3AL120	E3b3	14	_	12	17	23	11	11	12	14	10	11
Pal	8AL120	E3b3	14	_	13	17	25	10	11	14	14	10	11
Pal	15AL120	E3b3	14	_	13	17	25	10	11	14	14	10	11
Pal	3AL170	E3b3	14	_	12	18	24	10	11	13	14	10	12
Pal	14AL171	E3b3	13	_	13	17	23	10	11	13	14	10	11
Pal	14AL172	E3b3	14	_	14	17	24	10	11	13	14	10	12
Pal	10AL120	J2	14	_	13	15	23	10	11	12	15	9	11
Pal	15AL171		13	_	13	18	24	10	11	13	14	10	12
Pal	17AL171		15	_	13	18	23	11	11	12	14	10	12
Pal	20AL171		16	_	14	16	23	10	11	14	14	10	11
Pal	33AL181		14	_	14	17	23	10	11	13	14	10	13
Pal	49AL181		13	_	14	16	23	11	13	13	15	9	12
Pal	15AL117	J1	14	16	13	16	23	10	11	12	15	9	12
Pal	10AL170	J1	14	_	13	18	23	10	11	12	14	10	11
Pal	31AL181	J1	14	_	13	16	23	11	11	12	14	10	11
Pal	13AL117	J1	14	_	13	16	22	11	11	12	14	10	11
Pal	14AL117	J1	14	_	13	17	23	10	11	13	14	10	11
Pal	11AL120	J1	14	_	13	17	23	10	11	13	14	10	11
Pal	13AL120	J1	15	_	13	16	23	10	11	13	14	10	11
Pal	13AL121	J1	14	_	13	16	22	11	11	12	14	10	11
Pal	15AL121	J1	13	_	13	19	24	10	11	13	14	11	11
Pal	2AL119	J1	14	_	13	16	22	11	11	12	14	10	11

Population	DNA Ref. No.	Haplogroup	Allele Status at DYS										
			19	**388**	**389I**	**389b**	**390**	**391**	**392**	**393**	**437**	**438**	**439**
Pal	6AL170	J1	14	_	13	16	22	10	11	12	14	10	11
Pal	7AL170	J1	14	_	13	19	23	10	11	13	14	10	11
Pal	9AL170	J1	14	_	13	15	23	10	11	12	14	10	11
Pal	4AL171	J1	14	_	13	17	23	10	11	13	14	10	11
Pal	11AL171	J1	15	_	13	16	23	10	11	13	14	10	11
Pal	16AL171	J1	14	_	13	17	23	11	11	12	14	10	11
Pal	18AL171	J1	14	_	13	15	23	10	11	12	14	10	11
Pal	1AL172	J1	14	_	13	17	23	11	11	12	14	10	11
Pal	2AL172	J1	14	_	13	17	23	10	11	13	14	10	11
Pal	4AL172	J1	14	_	13	15	23	10	11	12	14	10	11
Pal	10AL172	J1	14	_	13	17	23	10	11	12	14	10	11
Pal	11AL172	J1	14	_	13	17	24	9	11	12	14	10	12
Pal	12AL172	J1	14	_	13	15	23	10	11	12	14	10	11
Pal	15AL172	J1	15	_	13	16	23	10	9	13	14	10	11
Pal	16AL172	J1	14	_	13	18	23	10	11	12	14	10	11
Pal	17AL172	J1	14	_	13	17	21	10	11	12	14	10	11
Pal	20AL172	J1	14	_	13	16	23	10	11	12	14	10	11
Pal	21AL172	J1	14	_	13	18	23	10	11	13	14	10	11
Pal	22AL172	J1	14	_	13	17	24	9	11	12	14	10	12
Pal	5AL177	J1	14	_	13	15	23	10	11	12	14	10	11
Pal	11AL180	J1	14	_	13	16	23	11	11	12	14	10	11
Pal	30AL180	J1	14	_	13	17	23	12	11	12	14	10	11
Pal	6AL181	J1	14	_	13	17	23	11	11	12	14	10	11
Pal	50AL181	J1	14	_	13	17	23	11	11	12	14	10	11
Pal	16AL117	J2/-f1*(xJ2f1a)	14	_	13	16	22	11	11	12	14	10	11
Pal	5AL120	J2/-f1*(xJ2f1a)	14	14	13	18	22	10	11	12	15	9	11
Pal	7AL120	J2/-f1*(xJ2f1a)	14	15	13	16	23	10	11	12	14	9	11
Pal	12AL121	J2/-f1*(xJ2f1a)	15	15	13	16	23	9	11	13	14	9	13
Pal	2AL171	J2/-f1*(xJ2f1a)	14	15	13	16	23	10	11	12	15	9	12
Pal	19AL171	J2/-f1*(xJ2f1a)	16	15	13	16	23	10	11	12	16	9	12
Pal	6AL172	J2/-f1*(xJ2f1a)	14	15	13	19	22	11	9	13	14	9	13

Population	DNA Ref. No.	Haplogroup	Allele Status at DYS										
			19	**388**	**389I**	**389b**	**390**	**391**	**392**	**393**	**437**	**438**	**439**
Pal	18AL172	J2/-f1*(xJ2f1a)	14	15	13	16	22	11	11	12	15	9	11
Pal	6AL177	J2/-f1*(xJ2f1a)	14	16	13	18	22	10	11	12	15	9	11
Pal	3AL121	J2a	14	15	13	18	23	11	11	12	15	9	13
Pal	3AL119	J2a	14	15	13	15	23	10	11	12	15	9	11
Pal	6AL119	J2a	14	16	13	18	22	10	11	12	15	9	11
Pal	8AL170	J2a	14	15	13	16	23	10	11	12	14	9	11
Pal	3AL172	J2a	15	15	13	17	23	10	12	12	14	10	11
Pal	8AL121	J2e*(xJ2e1)	14	15	13	16	23	10	11	12	15	9	11
Pal	4AL170		16	_	14	16	23	10	11	14	14	10	11
Pal	12AL180		15	_	14	18	21	10	11	13	16	10	12
Pal	3AL177		14	_	13	19	25	9	11	13	14	10	12
Pal	5AL170		15	_	12	17	22	10	11	15	16	9	10
Pal	11AL181		15	_	13	17	23	10	11	13	14	10	12
Pal	6AL117		13	_	13	16	24	9	11	13	14	10	10
Pal	10AL117		15	_	13	17	21	10	11	14	15	11	12
Pal	9AL121		13	_	14	16	24	9	11	13	14	10	10
Pal	1AL170		13	_	13	17	23	10	11	13	14	11	11
Pal	4AL177		13	_	14	17	24	9	11	13	14	10	11
Pal	9AL177		14	_	11	17	23	10	11	14	14	10	12
Pal	9AL117		13	_	14	18	25	11	11	12	14	9	13
Pal	19AL117		14	_	13	16	23	11	11	12	14	10	11
Pal	6AL120		15	_	13	16	23	10	11	13	14	10	11
Pal	8AL119		15	_	14	17	25	10	11	14	14	10	11
Pal	7AL171		15	_	12	15	24	10	14	13	14	9	11
Pal	32AL181		15	_	13	17	23	10	13	11	17	10	11
Pal	3AL171		14	_	13	17	24	10	12	12	15	12	12
Pal	7AL172		15	_	13	17	21	9	11	14	16	10	11
Pal	5AL121		14	_	13	16	24	11	13	12	15	12	12
Pal	5AL181		14	_	13	17	24	10	12	12	15	12	12
Pal	38AL181		14	_	13	16	24	10	13	12	15	12	14

Populations from Non-Phoenician Levant

Population	DNA Ref. No.	Haplogroup	Allele Status at DYS										
			19	**388**	**389I**	**389b**	**390**	**391**	**392**	**393**	**437**	**438**	**439**
Pal	1AL181	L*	14	_	13	16	23	10	14	12	16	11	11
Pal	12AL33	L*	15	_	14	16	23	10	15	12	16	10	12
Pal	23AL25	E	13	_	13	16	24	10	11	13	14	10	12
Pal	11AL33	E	13	_	13	16	24	11	11	13	15	10	13
Pal	5AL30	E3a	14	12	13	17	21	10	11	13	14	11	11
Pal	3AL180	E3b1	13	_	13	17	23	10	11	13	14	10	11
Pal	6AL180	E3b1	12	12	13	18	25	10	11	14	14	10	12
Pal	24AL180	E3b1	11	12	12	17	23	10	11	13	14	10	12
Pal	35AL180	E3b1	15	_	13	17	23	10	11	13	14	10	12
Pal	37AL180	E3b1	15	_	13	17	23	10	11	13	14	10	12
Pal	39AL180	E3b1	13	_	13	17	24	11	11	13	14	10	11
Pal	4S50/4AF145	E3b1	13	_	13	17	24	11	11	13	14	10	11
Pal	31AL180	E3b1	13	_	13	17	24	11	11	13	14	10	11
Pal	44AL181	E3b1	13	_	13	17	24	11	11	13	14	10	11
Pal	14AJ178	E3b1	15	_	13	17	23	10	11	13	14	10	12
Pal	1AL12	E3b1	15	_	13	17	23	10	11	13	14	10	12
Pal	4AL117	E3b1	14	_	11	17	23	10	11	14	14	10	12
Pal	14AL120	E3b1	13	_	14	17	23	10	12	13	14	10	12
Pal	7AL119	E3b1	15	_	13	17	23	10	11	13	14	10	12
Pal	29AL181	E3b1	13	_	13	17	24	11	11	13	14	10	11
Pal	9D145	E3b1	13	_	13	17	24	11	11	13	14	10	11
Pal	12D157	E3b1	13	_	13	17	24	11	11	14	14	11	12
Pal	5AL23	E3b1	13	_	13	17	24	11	11	13	14	11	11
Pal	6AL25	E3b1	13	_	13	17	25	11	11	14	14	11	12
Pal	17AL23	E3b1	13	_	12	17	24	10	10	13	14	10	10
Pal	17AL30	E3b1	13	_	13	17	25	11	11	14	14	11	12
Pal	21AL30	E3b1	13	_	14	16	24	9	11	13	14	10	10
Pal	5AL31	E3b1	14	_	13	17	23	10	11	13	14	10	11
Pal	47AL23	E3b1	13	_	13	18	23	10	11	13	14	10	12
Pal	24AL24	E3b1	15	_	13	17	25	10	12	13	14	10	11
Pal	14AL30	E3b1	14	_	12	17	24	10	11	13	14	10	10

Population	DNA Ref. No.	Haplogroup	Allele Status at DYS										
			19	**388**	**389I**	**389b**	**390**	**391**	**392**	**393**	**437**	**438**	**439**
Pal	14AL29	E3b1	13	_	13	17	23	10	11	13	14	10	11
Pal	15AL25	E3b1	13	_	14	17	26	10	11	13	14	10	11
Pal	20AL30	E3b1	14	_	14	17	24	10	11	13	14	10	13
Pal	23AL30	E3b1	15	_	13	17	23	10	11	13	14	10	12
Pal	13AL32	E3b1	11	_	13	17	25	10	12	13	14	11	11
Pal	25AL33	E3b1	14	_	13	17	24	10	11	13	14	10	11
Pal	5AL33	E3b3	11	12	13	18	24	10	11	13	14	10	12
Pal	18AL117	E3b3	11	12	13	18	24	10	11	13	14	10	12
Pal	20AL117	E3b3	11	12	13	18	24	10	11	13	14	10	12
Pal	14AL121	E3b3	11	12	13	19	25	10	11	13	14	9	12
Pal	8AL172	E3b3	15	_	13	17	24	10	11	13	14	10	12
Pal	18AL180	E3b3	14	_	13	17	22	10	11	12	14	10	11
Pal	22AL180	E3b3	13	_	13	18	24	10	11	13	14	10	11
Pal	27AL180	E3b3	14	_	13	16	23	11	11	12	14	10	11
Pal	18AL181	E3b3	13	_	12	18	25	10	11	14	14	10	12
Pal	19AL181	E3b3	15	_	13	17	22	10	11	14	16	10	13
Pal	20AL181	E3b3	13	_	13	18	25	10	11	14	14	10	11
Pal	25AL181	E3b3	15	_	12	17	22	11	11	13	16	10	11
Pal	26AL181	E3b3	14	_	13	17	23	10	11	13	14	10	11
Pal	39AL181	E3b3	13	_	12	17	23	9	11	14	14	10	12
Pal	1D157	E3b3	13	_	12	20	24	10	11	12	14	10	12
Pal	2D157	E3b3	13	_	13	18	23	10	11	13	14	10	13
Pal	10D157	E3b3	14	_	13	16	24	11	13	12	15	12	14
Pal	3R26	E3b3	14	_	13	17	24	10	11	13	14	10	13
Pal	15AL24	E3b3	13	_	13	17	25	10	11	13	14	10	11
Pal	3AL30	E3b3	14	_	13	17	24	10	11	13	14	10	11
Pal	15AL26	E3b3	14	_	13	17	24	10	11	13	14	10	13
Pal	18AL29	G	13	13	12	17	21	10	11	14	15	9	11
Pal	38AL23	G	13	13	12	17	21	10	11	14	15	10	11
Pal	22AL27	G	13	13	12	17	21	10	11	14	15	10	11
Pal	45AL24	G	13	12	12	17	22	10	11	14	16	10	12

Population	DNA Ref. No.	Haplogroup	Allele Status at DYS										
			19	**388**	**389I**	**389b**	**390**	**391**	**392**	**393**	**437**	**438**	**439**
Pal	7AL33	G	13	12	13	16	22	11	11	13	16	10	12
Pal	15AL30	G	14	12	12	16	22	10	11	14	16	10	11
Pal	7AL27	G	13	12	14	17	21	11	11	14	16	10	11
Pal	16AL29	G	12	12	13	16	22	10	12	14	16	10	12
Pal	1AL117	G	15	_	13	16	22	10	11	13	16	10	13
Pal	13AL172	G	14	_	13	16	23	11	11	12	14	10	11
Pal	28AL180	G	16	_	13	17	22	10	11	14	16	10	13
Pal	3AL181	G	15	_	13	17	22	10	11	14	16	10	13
Pal	36AL181	G	15	_	13	17	22	10	11	14	16	10	13
Pal	2D145	G	11	_	13	18	24	10	11	13	14	10	11
Pal	4D157	G	13	_	14	17	27	10	11	13	14	10	11
Pal	7D157	G	15	_	13	16	24	10	11	14	15	10	11
Pal	5D157	G	16	_	12	17	22	10	11	14	16	10	10
Pal	8D157	G	15	_	13	16	24	10	11	14	15	10	11
Pal	13D157	I	15	_	13	17	23	10	11	13	14	10	12
Pal	14D157	I	15	_	13	17	22	10	10	14	16	10	11
Pal	8X152	I	14	_	13	16	24	10	12	13	16	10	12
Pal	9AJ178	I	15	_	14	16	22	10	11	12	14	9	11
Pal	21AJ152	I	14	_	13	17	23	11	11	12	14	10	11
Pal	15AJ163	I	13	_	14	16	22	10	11	13	14	10	12
Pal	4AL23	I	13	_	13	19	25	10	11	13	14	10	12
Pal	31AL24	I	13	_	12	19	24	10	11	12	14	10	12
Pal	2AL30	I	14	_	13	16	23	10	10	13	14	10	11
Pal	6AL23		14	_	14	16	23	10	11	12	15	9	10
Pal	7AL23	G	16	_	13	16	23	10	11	12	16	9	12
Pal	22AL31	I	13	_	13	17	24	10	11	13	14	10	11
Pal	22AL23	I	15	_	13	16	23	10	11	12	15	9	12
Pal	26AL23	G	14	_	13	18	22	10	11	12	15	9	11
Pal	41AL23	G	13	_	13	19	24	10	11	13	14	11	11
Pal	32AL26	G	14	_	13	18	22	10	11	12	15	9	11
Pal	33AL26	G	14	_	14	18	24	10	11	13	14	10	10

Population	DNA Ref. No.	Haplogroup	Allele Status at DYS										
			19	**388**	**389I**	**389b**	**390**	**391**	**392**	**393**	**437**	**438**	**439**
Pal	15AL31	I	12	17	13	16	24	10	11	12	14	10	11
Pal	25AL26	G	12	15	13	17	23	11	11	12	14	10	12
Pal	23AL33	G	13	15	13	17	22	10	11	12	14	10	13
Pal	13AL31	I	13	16	13	17	23	10	11	12	14	10	12
Pal	6AL33	J1	12	17	13	17	23	10	11	12	14	10	11
Pal	44AL26	J1	12	17	13	17	23	11	11	12	14	10	11
Pal	21AL31	J1	14	_	13	18	23	10	11	13	14	10	11
Pal	9AL120	J1	14	_	13	16	23	11	11	12	14	10	11
Pal	12AL120	J1	14	_	13	17	23	10	11	12	15	10	11
Pal	2AL121	J1	14	_	13	17	23	10	11	12	15	10	11
Pal	5AL180	J1	14	_	13	17	23	11	11	12	14	10	11
Pal	10AL180	J1	14	_	13	17	23	11	12	12	14	10	12
Pal	13AL180	J1	14	_	13	16	22	10	11	12	14	10	11
Pal	26AL180	J1	15	_	13	16	22	12	11	12	14	10	12
Pal	29AL180	J1	14	_	13	16	23	11	11	12	14	10	11
Pal	32AL180	J1	14	_	13	16	23	11	11	12	14	10	11
Pal	33AL180	J1	14	_	13	17	22	10	11	12	14	10	11
Pal	16AJ55	J1	14	_	13	16	23	11	11	12	14	10	11
Pal	4D145	J1	14	_	13	17	23	11	11	12	14	10	11
Pal	5D145	J1	14	_	13	16	23	11	11	12	14	10	11
Pal	6D145	J1	14	_	13	16	23	10	11	12	14	10	12
Pal	10D145	J1	15	_	13	17	22	10	11	14	16	10	11
Pal	23Z328	J1	14	_	13	16	23	11	11	12	14	10	11
Pal	9AJ49	J1	16	_	13	18	23	11	11	12	13	10	12
Pal	9AJ55	J1	14	_	13	17	23	11	11	12	14	11	11
Pal	10AJ55	J1	14	_	13	17	23	11	12	12	14	10	12
Pal	12AJ55	J1	14	_	13	17	23	11	11	12	14	10	11
Pal	14AJ55	J1	14	_	13	17	23	11	11	12	14	10	11
Pal	10AJ178	J1	13	_	13	16	23	11	11	12	14	10	11
Pal	12AJ152	J1	15	_	13	17	23	11	11	12	14	10	11
Pal	23AJ152	J1	14	_	13	17	23	11	11	12	14	10	11

Population	DNA Ref. No.	Haplogroup	Allele Status at DYS										
			19	**388**	**389I**	**389b**	**390**	**391**	**392**	**393**	**437**	**438**	**439**
Pal	12AJ162	J1	14	_	13	16	23	11	11	12	14	10	11
Pal	15AJ162	J1	15	_	13	18	23	11	11	12	14	10	11
Pal	14AJ163	J1	14	_	13	17	23	11	11	13	14	9	11
Pal	9AJ184	J1	14	_	13	16	22	11	11	12	14	10	11
Pal	1AL23	J1	14	_	13	17	23	11	11	12	14	10	11
Pal	19AL31	J1	14	_	14	16	23	11	11	12	14	10	11
Pal	42AL23	J1	14	_	13	16	23	11	11	12	14	10	11
Pal	9AL23	J1	14	_	13	18	23	10	11	12	14	10	11
Pal	12AL23	J1	14	_	13	18	23	10	11	13	14	10	11
Pal	14AL23	J1	15	_	13	16	23	10	11	12	14	9	11
Pal	22AL30	J1	14	_	13	16	23	11	11	12	14	10	11
Pal	19AL23	J1	14	_	13	16	23	11	11	12	14	10	11
Pal	20AL23	J1	16	_	13	18	24	11	11	13	15	10	13
Pal	23AL23	J1	14	_	13	17	23	10	11	12	14	10	11
Pal	6AL30	J1	14	_	13	17	22	10	11	12	14	10	11
Pal	9AL30	J1	14	_	14	15	24	11	11	12	14	10	10
Pal	5AL32	J1	_	_	_	_	_	_	_	_	_	_	_
Pal	19AL24	J1	14	_	13	16	23	10	11	12	15	9	12
Pal	18AL31	J1	15	_	13	17	23	11	11	12	14	10	11
Pal	26AL33	J1	15	_	13	17	23	11	11	12	14	10	11
Pal	47AL25	J1	14	_	13	17	23	11	11	12	14	10	11
Pal	12AL27	J1	14	_	13	15	22	11	11	12	14	11	11
Pal	30AL23	J1	14	_	13	16	22	11	11	12	14	10	11
Pal	12AL30	J1	14	_	13	16	22	11	11	12	14	10	12
Pal	44AL24	J1	14	_	13	15	22	11	11	12	14	11	11
Pal	6AL27	J1	14	_	13	16	22	11	11	12	14	10	11
Pal	20AL31	J1	14	_	13	17	24	10	11	12	14	10	11
Pal	20AL33	J1	14	_	13	17	24	11	11	12	14	10	11
Pal	37AL23	J1	14	_	13	16	22	11	11	12	14	10	11
Pal	43AL23	J1	14	_	13	16	23	11	11	12	14	10	11
Pal	24AL25	J1	14	_	13	18	23	10	11	12	14	10	11

Population	DNA Ref. No.	Haplogroup	Allele Status at DYS										
			19	**388**	**389I**	**389b**	**390**	**391**	**392**	**393**	**437**	**438**	**439**
Pal	11AL32	J1	14	_	13	17	23	11	11	12	14	10	11
Pal	6AL32	J1	14	_	13	17	23	11	11	12	14	10	11
Pal	1AL30	J1	14	_	13	18	22	10	11	12	14	10	11
Pal	2AL117	J1	15	_	13	18	23	11	11	12	14	10	12
Pal	3AL117	J1	15	_	13	17	23	11	11	12	14	10	12
Pal	17AL117	J1	14	_	13	16	23	10	11	13	14	10	11
Pal	1AL120	J1	14	_	13	16	22	10	11	12	14	10	11
Pal	10AL121	J1	14	_	14	16	24	10	12	12	14	10	11
Pal	11AL121	J1	14	_	13	18	24	11	11	12	14	10	11
Pal	11AL119	J2/-f1*(xJ2f1a)	15	16	12	16	25	10	11	12	14	9	13
Pal	9AL119	J2/-f1*(xJ2f1a)	14	15	13	17	23	10	11	12	15	9	11
Pal	5AL119	J2/-f1*(xJ2f1a)	14	15	13	18	22	10	11	12	15	9	11
Pal	11AL170	J2/-f1*(xJ2f1a)	13	15	13	17	22	10	11	12	14	9	13
Pal	10AL171	J2/-f1*(xJ2f1a)	14	15	13	17	22	10	11	13	15	9	10
Pal	2AL177	J2/-f1*(xJ2f1a)	14	15	13	17	22	10	11	12	14	9	11
Pal	4AL180	J2/-f1*(xJ2f1a)	14	15	13	18	22	10	11	12	15	9	11
Pal	16AL180	J2a	12	14	14	16	23	10	11	12	15	9	10
Pal	20AL180	J2a	12	14	14	16	23	10	11	12	15	9	10
Pal	23AL180	J2a	12	14	14	16	23	10	11	12	15	9	10
Pal	36AL180	J2a	12	14	12	17	24	10	11	12	15	9	12
Pal	2AL181	J2a	13	15	13	15	25	10	11	13	15	9	12
Pal	4AL181	J2a	14	12	13	16	23	10	11	12	15	9	12
Pal	7AL181	J2a	16	17	12	16	24	11	11	12	15	9	12
Pal	10AL181	J2a	15	17	12	16	23	10	11	12	15	9	11
Pal	12AL181	J2a	14	13	13	17	23	10	11	12	15	9	12
Pal	13AL181	J2a	14	14	13	17	18	10	11	12	14	9	11
Pal	14AL181	J2a	16	15	13	17	23	10	11	12	15	9	13
Pal	16AL181	J2a	15	15	11	17	22	10	8	12	15	9	12
Pal	17AL181	J2a	15	15	11	17	22	10	8	12	15	9	12
Pal	22AL181	J2a	15	16	13	16	23	10	11	12	14	9	12
Pal	23AL181	J2a	14	_	14	16	23	10	11	12	15	9	10

Population	DNA Ref. No.	Haplogroup	Allele Status at DYS										
			19	**388**	**389I**	**389b**	**390**	**391**	**392**	**393**	**437**	**438**	**439**
Pal	24AL181	J2a	14	15	13	15	23	10	11	12	15	9	11
Pal	34AL181	J2a	14	15	13	15	23	10	11	12	15	9	11
Pal	45AL181	J2a	14	16	13	16	23	11	11	12	16	9	12
Pal	46AL181	J2a	15	15	12	17	24	10	11	12	14	9	12
Pal	48AL181	J2a	14	15	13	17	23	10	11	13	14	10	11
Pal	7D145	J2a	16	14	13	16	24	10	11	12	15	9	12
Pal	8D145	J2a	14	14	14	17	24	10	11	12	15	9	12
Pal	6D157	J2a	16	14	13	16	23	10	11	12	14	12	11
Pal	9D157	J2a	14	15	13	18	22	10	11	12	15	9	11
Pal	11D157	J2a	14	15	13	16	23	11	11	12	14	10	11
Pal	10R'188	J2a	14	16	13	17	23	10	11	12	15	9	11
Pal	11X81	J2e*(xJ2e1)	16	15	12	16	24	11	11	12	16	9	12
Pal	9R172	J2e*(xJ2e1)	15	15	12	16	24	10	11	12	14	9	13
Pal	8AJ55	J2e*(xJ2e1)	15	15	14	16	23	11	11	12	16	9	9
Pal	11AJ55	J2e*(xJ2e1)	16	15	12	16	24	11	11	12	16	9	12
Pal	10AJ152	J2e*(xJ2e1)	15	15	12	18	24	10	11	12	14	9	12
Pal	10AJ163	J2e*(xJ2e1)	15	15	12	18	24	10	11	12	14	9	12
Pal	19AJ163	J2e*(xJ2e1)	15	15	12	18	24	10	11	12	14	9	12
Pal	11AL23	K*(xK2,K3,L,M,NO,P)	14	_	13	16	22	11	11	12	14	10	11
Pal	23AL24	K*(xK2,K3,L,M,NO,P)	_	_	_	_	_	_	_	_	_	_	_
Pal	39AL23	K2	11	12	14	16	23	10	13	14	14	9	10
Pal	33AL24	K2	11	12	12	17	23	11	14	13	14	9	12
Pal	27AL25	K2	11	12	14	16	23	11	13	13	15	9	12
Pal	14AL31	K2	14	_	14	16	23	10	11	13	14	9	11
Pal	27AL33	K2	15	_	13	17	23	10	13	13	14	9	11
Pal	1AL32	K2	13	_	13	16	23	10	13	13	14	9	11
Pal	7AL121	N / O	16	_	12	15	26	11	13	12	14	10	13
Pal	7AL180	R*	14	_	13	16	22	10	13	12	15	12	13
Pal	40AL181	R1/-b1a	13	13	14	16	24	10	13	13	14	12	13
Pal	42AL181	R1/-b1c	12	12	13	16	24	10	13	13	15	12	11
Pal	6AL97	R1/-b1c	12	12	13	16	25	10	13	12	15	11	11

Population	DNA Ref. No.	Haplogroup	Allele Status at DYS										
			19	**388**	**389I**	**389b**	**390**	**391**	**392**	**393**	**437**	**438**	**439**
Pal	1AL133	R1/-b1c	14	_	13	15	24	10	14	12	15	13	14
Pal	13AJ163	R1/-b1c	14	_	13	16	24	10	13	12	15	12	12
Pal	11AL24	R1/-b1c	14	_	14	16	24	10	12	12	15	12	11
Pal	40AL26	R1a1	16	_	13	18	24	11	11	13	14	11	11
Pal	8AL33	R1a1	14	12	13	17	25	10	11	13	14	11	10
Pal	1AL33	R1a1	16	_	13	16	25	10	11	13	14	11	11
Pal	16AJ162		12	17	13	17	23	11	11	12	14	9	11
Pal	12AL31		12	15	13	16	24	10	11	12	15	9	12
Pal	16AL33		16	_	13	17	24	11	11	13	14	11	11
Pal	3D157		14	_	14	17	23	10	11	12	14	10	11
Pal	8AL180		13	_	14	17	26	10	11	13	14	10	11
Pal	9AL180		14	_	13	16	24	11	13	12	15	12	12
Pal	21AL181		15	_	14	16	24	10	14	13	14	13	13
Pal	5S'112		16	_	13	18	23	10	11	13	14	10	11
Pal	18AE372		13	_	14	16	24	9	11	13	14	10	10
Pal	16AE360		13	_	13	16	24	9	11	13	14	10	10
Pal	9AJ57		13	_	13	17	25	11	11	14	14	11	12
Pal	9AJ163		15	_	13	15	24	9	11	13	14	10	10
Pal	17AJ163		16	_	12	17	22	10	11	13	17	10	12
Pal	2AL31		13	_	13	17	24	10	11	13	14	10	12
Pal	28AL23		14	_	12	17	22	10	11	12	16	10	12
Pal	21AL24		13	_	14	16	24	9	11	13	14	10	10
Pal	6AL31		13	_	14	16	24	9	11	13	14	10	10
Pal	14AL180		14	_	12	16	25	11	11	13	14	11	12
Pal	19AL180		15	_	13	17	21	10	11	15	14	11	11
Pal	15AL181		14	15	13	19	23	10	11	12	14	10	11
Pal	39AL25		15	_	13	17	23	10	11	13	14	10	12
Pal	6AL24		13	_	14	16	24	9	11	13	14	10	10
Pal	21AJ152		13	_	14	18	25	11	11	12	14	9	13
Pal	22AJ152		11	_	13	17	25	10	12	13	14	11	11
Pal	12AL171		13	_	12	18	25	10	11	14	14	10	12

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			19	**388**	**389I**	**389b**	**390**	**391**	**392**	**393**	**437**	**438**	**439**
Pal	34AL180		15	_	13	16	24	10	11	13	14	11	11
Pal	3R'178		14	_	13	17	24	10	12	15	14	10	11
Pal	1D145		14	_	12	15	23	10	11	12	16	9	12
Pal	10AJ49		16	_	13	19	23	10	11	13	15	10	13
Pal	1AJ121		14	_	14	16	19	11	13	13	14	10	13
Pal	12AJ183		14	_	14	16	23	11	13	13	14	12	12
Pal	13AL23		16	_	12	18	23	11	11	14	15	10	11
Pal	9AL31		14	_	13	16	24	10	12	14	16	10	12
Pal	32AL24		14	_	14	16	19	11	13	13	14	10	13
Pal	8AL171		14	_	13	15	25	11	15	13	15	12	12
Pal	21AL180		14	_	14	16	23	10	13	13	14	9	11
Pal	25AL180		_	_	_	_	_	_	_	_	_	_	_
Pal	38AL180		14	_	13	16	24	10	15	13	14	9	11
Pal	8AL181		14	_	13	16	24	10	13	12	15	12	12
Pal	27AL181		15	_	13	16	24	10	13	13	14	12	12
Pal	28AL181		15	_	13	16	24	10	13	13	14	12	13
Pal	37AL181		14	_	13	15	24	10	14	12	16	12	13
Pal	4AL116		15	_	14	16	22	10	13	13	14	12	13
Pal	5AL29		14	_	13	15	24	10	14	12	16	12	12
Pal	3D145		14	_	13	16	24	10	14	12	15	12	13
Pal	1AL180		15	_	13	16	24	10	13	14	14	12	12
Pal	1AM89		14	_	13	16	25	10	13	13	15	12	12
Pal	2AM89		15	_	14	16	23	11	13	13	14	12	12
Pal	3AM89		14	_	14	16	24	11	13	13	15	12	12
		Populations from Phoenician Colonies											
Cyp	223604	E3b (xE3b3)	13	12	13	17	24	10	11	13	14	10	12
Cyp	223651	E3b3	13	12	12	18	23	10	12	13	14	10	11
Cyp	224247	E3b (xE3b3)	13	12	13	17	24	10	11	13	14	10	13
Cyp	225239	E3b (xE3b3)	13	12	13	17	24	10	11	14	14	10	11
Cyp	223124	E3b (xE3b3)	14	12	13	14	24	10	11	13	14	10	12
Cyp	224658	E3b3	13	12	13	15	24	10	11	13	14	10	11

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			19	**388**	**389I**	**389b**	**390**	**391**	**392**	**393**	**437**	**438**	**439**
Cyp	223217	E3b3	13	12	14	18	24	10	11	13	14	10	11
Cyp	223534	E3b (xE3b3)	13	13	13	17	24	10	11	13	14	10	14
Cyp	225112	E3b3	13	12	13	19	23	11	11	13	14	10	13
Cyp	225609	E3b3	13	12	13	18	24	10	11	13	14	10	12
Cyp	231022	E3b (xE3b3)	13	12	13	17	24	10	11	13	14	10	12
Cyp	223937	E3b3	13	12	13	19	24	10	12	13	14	10	12
Cyp	232112	E3b (xE3b3)	13	12	14	18	24	10	11	12	14	10	13
Cyp	232895	E3b (xE3b3)	13	12	13	18	24	9	11	12	14	10	12
Cyp	217491	E3b (xE3b3)	14	12	13	16	23	10	11	12	14	9	12
Cyp	218056	E3b (xE3b3)	14	12	13	16	23	10	11	12	14	9	12
Cyp	217078	E3b3	14	12	13	16	23	10	11	12	14	9	12
Cyp	231414	E3b (xE3b3)	14	12	13	16	23	10	11	12	14	9	12
Cyp	218186	E3b (xE3b3)	14	12	13	17	25	10	11	12	14	10	14
Cyp	CYP 03	E3b3	13	12	13	17	26	10	11	14	14	10	12
Cyp	CYP 12	E	13	12	13	16	24	10	11	13	15	10	13
Cyp	CYP 14	E3b (xE3b3)	13	12	13	17	24	10	11	13	15	10	12
Cyp	CYP 18	E3b3	13	12	13	19	24	10	11	13	14	10	12
Cyp	CYP 20	E3b (xE3b3)	13	12	13	17	24	10	11	13	14	10	12
Cyp	CYP 24	E3b (xE3b3)	13	12	13	18	23	10	11	13	14	10	12
Cyp	CYP 25	E3b (xE3b3)	13	12	13	17	24	10	11	13	14	10	12
Cyp	CYP 26	E3b3	13	12	13	19	24	10	12	13	14	10	12
Cyp	CYP 27	E3b3	13	12	12	18	23	10	11	13	14	10	11
Cyp	CYP 29	E3b (xE3b3)	13	12	13	17	24	10	11	13	14	8	12
Cyp	CYP 32	E3b3	13	12	13	19	25	10	12	13	14	10	12
Cyp	CYP 38	E3b3	13	12	12	18	25	10	11	13	14	10	13
Cyp	CYP 43	E3b3	13	12	13	17	24	10	11	14	14	10	12
Cyp	CYP 46	E3b3	13	12	13	19	24	11	11	12	14	10	12
Cyp	2AJ21	E(-3a,3b)	15	13	11	17	22	10	11	14	17	10	11
Cyp	24AJ19	E3b	13	12	14	17	24	10	11	13	14	10	11
Cyp	8AJ21	E3b	14	12	14	17	24	10	13	13	14	11	11
Cyp	5AJ19	E3b1	14	12	14	17	24	11	13	13	14	11	11

Population	DNA Ref. No.	Haplogroup	Allele Status at DYS										
			19	**388**	**389I**	**389b**	**390**	**391**	**392**	**393**	**437**	**438**	**439**
Cyp	8AJ19	E3b1	14	12	14	17	24	10	13	13	14	11	11
Cyp	1AJ21	E3b1	14	16	14	17	24	10	13	13	14	11	11
Cyp	9AJ21	E3b1	14	12	14	17	24	10	13	13	14	11	11
Cyp	13AJ21	E3b1	14	12	14	17	24	11	13	13	14	11	11
Cyp	6AJ191	E3b1	14	14	13	16	23	10	11	12	14	9	12
Cyp	3AJ19	E3b3	13	12	13	19	23	10	11	13	14	10	12
Cyp	10AJ19	E3b3	–	–	–	–	–	–	–	–	–	–	–
Cyp	14AJ19	E3b3	15	12	13	17	26	11	11	14	14	10	11
Cyp	15AJ19	E3b3	13	12	13	17	24	9	11	14	14	10	12
Cyp	25AJ19	E3b3	13	12	13	19	23	10	10	13	14	10	12
Cyp	29AJ19	E3b3	13	14	13	17	24	9	11	14	14	10	12
Cyp	5AJ21	E3b3	13	12	13	19	23	10	11	13	14	10	12
Cyp	7AJ21	E3b3	13	12	13	19	23	10	11	13	14	10	12
Cyp	21AJ21	E3b3	13	12	13	17	24	9	11	14	14	10	12
Cyp	24AJ21	E3b3	13	12	13	19	23	10	11	13	14	10	12
Cyp	28AJ21	E3b3	13	12	13	19	23	10	11	13	14	10	12
Cyp	225874	G	15	12	12	16	22	10	11	14	16	10	13
Cyp	225441	G	15	12	12	17	21	10	11	13	16	10	11
Cyp	232846	G	17	12	12	18	22	11	11	14	16	10	11
Cyp	224146	G	15	12	12	15	22	10	11	15	16	10	11
Cyp	215160	G	16	12	12	16	22	10	10	14	16	10	11
Cyp	227874	G	16	12	12	15	21	10	11	15	17	10	11
Cyp	231971	G	15	12	12	18	23	10	11	14	16	10	11
Cyp	230514	G	15	14	12	18	21	10	11	15	16	9	11
Cyp	217959	G	14	12	13	16	23	10	11	12	14	9	12
Cyp	216548	G	14	12	13	16	23	10	11	12	14	9	12
Cyp	218751	G	14	12	13	16	23	10	11	12	14	9	12
Cyp	230984	G	14	12	13	16	23	10	11	12	14	9	12
Cyp	230109	G	14	12	13	16	23	10	11	12	14	9	12
Cyp	217364	G	16	12	13	16	22	10	10	12	14	10	12
Cyp	218983	G	16	12	13	18	23	10	11	12	14	10	12

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			19	**388**	**389I**	**389b**	**390**	**391**	**392**	**393**	**437**	**438**	**439**
Cyp	230108	G	14	12	13	16	23	10	11	12	14	9	11
Cyp	CYP 11	G	16	12	12	16	22	11	10	14	16	10	11
Cyp	CYP 13	G	15	12	14	17	22	10	11	13	17	10	12
Cyp	CYP 17	G	16	12	12	18	23	10	11	12	16	10	11
Cyp	CYP 22	G	15	12	12	17	23	10	11	12	16	10	11
Cyp	CYP 23	G	15	12	12	17	21	10	11	14	16	10	11
Cyp	CYP 40	G	15	13	12	17	22	10	11	14	15	10	11
Cyp	233900	H	14	15	12	16	23	10	11	12	14	9	10
Cyp	CYP 35	I	17	13	13	18	23	10	11	12	14	10	12
Cyp	223766	J1	14	17	13	17	23	11	11	12	14	10	11
Cyp	224128	J1	14	16	13	17	23	10	11	12	14	10	11
Cyp	225677	J(xJ1)	14	15	14	17	23	10	11	12	14	9	12
Cyp	225916	J(xJ1)	14	15	13	16	23	10	11	12	14	9	12
Cyp	223324	J(xJ1)	14	15	14	16	23	10	11	12	14	9	10
Cyp	224809	J(xJ1)	14	15	13	16	23	10	11	12	14	9	11
Cyp	224085	J1	14	16	14	17	23	10	11	12	14	11	11
Cyp	223782	J(xJ1)	14	15	13	16	23	11	11	12	15	10	11
Cyp	236269	J(xJ1)	14	15	13	16	23	10	11	12	15	9	12
Cyp	225686	J2e	15	15	12	16	23	10	11	12	16	9	8
Cyp	229749	J2/-f1	14	15	13	16	23	8	11	11	15	9	11
Cyp	224800	J1	14	13	12	21	23	10	11	12	14	10	12
Cyp	224133	J	14	15	14	17	23	11	11	12	14	9	11
Cyp	232291	J2/-f1	14	16	14	17	23	10	11	12	15	9	11
Cyp	236568	J	15	16	13	16	23	10	11	13	14	9	13
Cyp	231158	J	16	_	13	17	23	10	11	12	15	9	11
Cyp	230535	J	_	_	_	_	_	_	_	_	_	_	_
Cyp	231233	J(xJ1)	15	16	13	16	23	9	11	12	14	9	13
Cyp	217308	J	14	_	13	16	23	10	11	12	14	9	12
Cyp	217450	J2e	14	15	13	16	24	11	11	12	14	9	12
Cyp	216652	J1	14	16	13	16	23	10	11	12	14	9	12
Cyp	218030	J2e	14	15	13	16	23	10	11	12	14	9	12

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			19	**388**	**389I**	**389b**	**390**	**391**	**392**	**393**	**437**	**438**	**439**
Cyp	218498	J	14	16	13	16	23	10	11	12	14	9	12
Cyp	230114	J(xJ1)	14	15	13	16	23	10	11	12	14	9	12
Cyp	216381	J2/-f1	15	13	13	17	23	10	11	12	14	9	12
Cyp	CYP 02	J2/-f1	15	15	13	16	24	10	11	12	14	9	10
Cyp	CYP 06	J(xJ1)	15	16	14	16	24	9	11	12	14	9	11
Cyp	CYP 07	J(xJ1)	15	12	13	17	24	10	11	12	15	9	12
Cyp	CYP 08	J	14	_	12	18	23	10	11	12	14	10	11
Cyp	CYP 19	J2/-f1	15	15	11	17	24	11	11	12	17	9	11
Cyp	CYP 28	J(xJ1)	14	15	14	18	23	10	11	12	14	9	11
Cyp	CYP 30	J1	15	16	13	16	23	10	11	12	14	10	11
Cyp	CYP 31	J2/-f1	14	17	13	17	24	10	11	12	15	9	11
Cyp	CYP 34	J2e	15	15	12	16	24	10	11	12	16	9	12
Cyp	CYP 37	J1	14	16	13	17	23	10	11	12	14	10	11
Cyp	CYP 41	J2e	15	15	12	16	22	10	11	11	14	9	13
Cyp	CYP 42	J(xJ1)	16	15	13	16	23	9	11	12	15	9	12
Cyp	CYP 44	J(xJ1)	15	14	13	17	23	10	11	12	14	9	12
Cyp	4AJ19	J1	14	16	14	17	23	10	11	12	14	10	11
Cyp	7AJ19	J1	14	15	13	17	23	10	11	12	14	10	11
Cyp	11AJ19	J1	14	16	14	17	23	10	11	12	14	10	11
Cyp	26AJ19	J1	14	16	14	17	23	10	11	12	14	10	11
Cyp	27AJ19	J1	14	16	14	17	23	10	11	12	14	10	11
Cyp	11AJ21	J1	14	16	14	17	21	10	11	12	14	10	11
Cyp	19AJ21	J1	14	16	14	17	23	10	11	12	14	10	11
Cyp	20AJ21	J1	14	16	14	17	23	10	11	12	14	10	11
Cyp	22AJ21	J1	14	16	14	17	23	10	11	12	14	10	11
Cyp	25AJ21	J1	14	16	14	17	23	10	11	12	14	10	11
Cyp	5AJ191	J1	14	15	13	16	23	10	11	12	14	10	12
Cyp	2AJ19	J2	14	16	13	16	23	10	11	12	14	9	12
Cyp	6AJ19	J2	14	14	13	16	25	10	11	12	16	9	12
Cyp	9AJ19	J2	14	14	13	16	25	10	11	12	16	9	12
Cyp	12AJ19	J2	15	16	13	16	24	10	11	12	15	9	13

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			19	**388**	**389I**	**389b**	**390**	**391**	**392**	**393**	**437**	**438**	**439**
Cyp	16AJ19	J2	14	14	13	16	25	10	11	12	16	9	12
Cyp	21AJ19	J2	14	14	13	16	25	10	11	12	16	9	12
Cyp	28AJ19	J2	14	16	13	16	23	10	11	12	14	9	12
Cyp	4AJ21	J2	14	14	13	16	25	10	11	12	16	9	12
Cyp	10AJ21	J2	14	14	13	16	25	10	11	12	16	9	12
Cyp	14AJ21	J2	14	14	13	16	25	11	11	12	16	9	12
Cyp	15AJ21	J2	14	14	13	16	25	11	11	12	16	9	12
Cyp	18AJ21	J2	14	14	13	16	25	10	11	12	16	9	12
Cyp	27AJ21	J2	14	14	14	17	21	10	11	12	14	10	11
Cyp	13AJ19	J2/-f1	14	15	13	18	23	10	11	12	15	9	11
Cyp	230594	K/M/O	14	12	14	16	23	10	13	14	14	9	11
Cyp	225085	L	14	12	14	16	23	10	14	12	16	10	11
Cyp	212254	L	15	12	13	17	23	10	13	14	14	9	11
Cyp	218863	L	14	12	13	16	23	10	11	12	14	9	12
Cyp	CYP 01	P/Q	14	11	13	16	25	10	17	13	14	11	12
Cyp	223597	R1b	–	–	–	–	–	–	–	–	–	–	–
Cyp	225529	R1b	14	12	13	17	24	10	13	12	15	13	11
Cyp	223010	R1b	14	12	13	16	23	11	14	12	15	12	13
Cyp	223308	R1b	14	12	13	16	24	11	14	12	15	12	13
Cyp	224000	R1b	15	12	13	17	24	10	13	13	15	12	11
Cyp	236197	R1b	14	12	13	16	23	10	14	12	15	12	12
Cyp	236442	R1b	14	12	13	16	23	10	13	12	14	12	12
Cyp	216773	R1b	14	12	12	18	22	11	13	12	15	12	12
Cyp	216837	R1b	14	12	14	16	24	10	13	12	15	12	13
Cyp	CYP 04	R1b	14	12	13	16	23	10	13	12	14	12	12
Cyp	CYP 05	R1b	14	12	13	18	24	11	12	12	15	12	13
Cyp	CYP 09	R1b	15	13	13	17	24	10	13	13	15	11	12
Cyp	CYP 10	R1b	14	12	13	16	23	11	13	12	14	12	12
Cyp	CYP 15	R1b	15	13	13	18	25	10	13	13	16	11	11
Cyp	CYP 16	R1a1	16	12	13	17	25	10	11	13	14	11	11
Cyp	CYP 21	R1b	14	12	14	16	24	11	14	12	15	12	12

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Cyp	CYP 33	R1b	14	12	14	16	24	11	14	12	15	12	12
Cyp	CYP 36	R1b	14	12	13	16	24	11	13	12	15	12	13
Cyp	CYP 39	R1b	14	12	13	14	24	10	13	13	15	12	11
Cyp	CYP 45	R1b	13	12	13	17	24	10	13	12	15	12	12
Cyp	224148		15	12	12	17	23	11	11	14	16	10	11
Mal	1D164 B	E	_	_	_	_	_	_	_	_	_	_	_
Mal	1D164 D	E	_	_	_	_	_	_	_	_	_	_	_
Mal	2D185A	E	_	_	_	_	_	_	_	_	_	_	_
Mal	3D185A	E	_	_	_	_	_	_	_	_	_	_	_
Mal	4D185B	E	_	_	_	_	_	_	_	_	_	_	_
Mal	1D190B	E	_	_	_	_	_	_	_	_	_	_	_
Mal	1D190D	E	_	_	_	_	_	_	_	_	_	_	_
Mal	1D196D	E	_	_	_	_	_	_	_	_	_	_	_
Mal	2D181 A	E3b	_	_	_	_	_	_	_	_	_	_	_
Mal	1D183 D	E3b	_	_	_	_	_	_	_	_	_	_	_
Mal	4H20A	E3b	_	_	_	_	_	_	_	_	_	_	_
Mal	4H20B	E3b	_	_	_	_	_	_	_	_	_	_	_
Mal	1H25B	E3b	_	_	_	_	_	_	_	_	_	_	_
Mal	2H29D	E3b	_	_	_	_	_	_	_	_	_	_	_
Mal	5H29A	E3b	_	_	_	_	_	_	_	_	_	_	_
Mal	2H34C	E3b	_	_	_	_	_	_	_	_	_	_	_
Mal	4H34D	E3b	_	_	_	_	_	_	_	_	_	_	_
Mal	1D164 C	F(-K)	_	_	_	_	_	_	_	_	_	_	_
Mal	3D183 A	F(-K)	_	_	_	_	_	_	_	_	_	_	_
Mal	3D193D	F(-K)	_	_	_	_	_	_	_	_	_	_	_
Mal	1H3A	F(-K)	_	_	_	_	_	_	_	_	_	_	_
Mal	1H3B	F(-K)	_	_	_	_	_	_	_	_	_	_	_
Mal	2H3A	F(-K)	_	_	_	_	_	_	_	_	_	_	_
Mal	3H25A	F(-K)	_	_	_	_	_	_	_	_	_	_	_
Mal	3H29D	F(-K)	_	_	_	_	_	_	_	_	_	_	_

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Mal	1H34D	F(-K)	_	_	_	_	_	_	_	_	_	_	_
Mal	2D175 B	F/H	_	_	_	_	_	_	_	_	_	_	_
Mal	2H15B	F/H	_	_	_	_	_	_	_	_	_	_	_
Mal	5H20B	F/H	_	_	_	_	_	_	_	_	_	_	_
Mal	6H25D	F/H	_	_	_	_	_	_	_	_	_	_	_
Mal	2H29B	F/H	_	_	_	_	_	_	_	_	_	_	_
Mal	2D183 D	G	_	_	_	_	_	_	_	_	_	_	_
Mal	3D185C	G	_	_	_	_	_	_	_	_	_	_	_
Mal	1D193D	G	_	_	_	_	_	_	_	_	_	_	_
Mal	1H7A	G	_	_	_	_	_	_	_	_	_	_	_
Mal	3H7A	G	_	_	_	_	_	_	_	_	_	_	_
Mal	1H10A	G	_	_	_	_	_	_	_	_	_	_	_
Mal	2H10A	G	_	_	_	_	_	_	_	_	_	_	_
Mal	1H20B	G	_	_	_	_	_	_	_	_	_	_	_
Mal	2H20D	G	_	_	_	_	_	_	_	_	_	_	_
Mal	3H20A	G	_	_	_	_	_	_	_	_	_	_	_
Mal	3H20D	G	_	_	_	_	_	_	_	_	_	_	_
Mal	3H25B	G	_	_	_	_	_	_	_	_	_	_	_
Mal	3H29C	G	_	_	_	_	_	_	_	_	_	_	_
Mal	1H34C	G	_	_	_	_	_	_	_	_	_	_	_
Mal	2H34D	G	_	_	_	_	_	_	_	_	_	_	_
Mal	1D183 A	I	_	_	_	_	_	_	_	_	_	_	_
Mal	1D183 B	I	_	_	_	_	_	_	_	_	_	_	_
Mal	2D183 C	I	_	_	_	_	_	_	_	_	_	_	_
Mal	1D185A	I	_	_	_	_	_	_	_	_	_	_	_
Mal	2D193B	I	_	_	_	_	_	_	_	_	_	_	_
Mal	2D193D	I	_	_	_	_	_	_	_	_	_	_	_
Mal	2H3B	I	_	_	_	_	_	_	_	_	_	_	_
Mal	2H7B	I	_	_	_	_	_	_	_	_	_	_	_
Mal	1H15D	I	_	_	_	_	_	_	_	_	_	_	_
Mal	2H15C	I	_	_	_	_	_	_	_	_	_	_	_

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			19	**388**	**389I**	**389b**	**390**	**391**	**392**	**393**	**437**	**438**	**439**
Mal	4H20D	I	_	_	_	_	_	_	_	_	_	_	_
Mal	5H20C	I	_	_	_	_	_	_	_	_	_	_	_
Mal	5H25A	I	_	_	_	_	_	_	_	_	_	_	_
Mal	5H25C	I	_	_	_	_	_	_	_	_	_	_	_
Mal	3H29A	I	_	_	_	_	_	_	_	_	_	_	_
Mal	3H29B	I	_	_	_	_	_	_	_	_	_	_	_
Mal	1D169 A	J2	13	15	13	17	23	10	11	12	15	9	11
Mal	1D169 B	J2	13	13	12	17	22	11	11	12	15	10	11
Mal	1D169 C	J2	13	15	12	16	24	10	11	12	16	10	12
Mal	1D175 A	J2	13	15	13	17	23	10	11	12	15	9	11
Mal	2D175 A	J2	13	15	13	18	22	11	11	14	14	9	12
Mal	2D181 B	J2	13	15	13	16	24	9	11	12	14	9	12
Mal	3D183 B	J2	13	15	13	17	23	10	11	12	15	9	11
Mal	1D185B	J2	12	14	13	16	24	10	11	12	14	9	11
Mal	1D185C	J2	12	14	13	16	24	10	11	12	14	9	11
Mal	1D185D	J2	13	15	13	17	23	10	11	12	15	9	11
Mal	2D185B	J2	14	15	14	17	23	10	11	13	15	9	11
Mal	2D185D	J2	13	14	14	16	22	10	13	14	14	10	10
Mal	4D185C	J2	_	_	_	_	_	_	_	_	_	_	_
Mal	5D185B	J2	12	15	13	16	20	10	11	12	15	9	11
Mal	1D190A	J2	13	15	13	17	22	11	11	13	14	9	12
Mal	1D190C	J2	13	17	14	18	23	10	11	12	15	9	11
Mal	2D190C	J2	12	15	13	16	23	10	11	12	16	9	12
Mal	3D190B	J2	13	15	14	17	23	10	11	12	15	9	11
Mal	3D190C	J2	13	15	13	16	24	10	11	12	15	8	11
Mal	4D190B	J2	13	16	13	16	24	9	11	12	14	9	12
Mal	4D190D	J2	13	15	13	17	23	10	11	12	15	9	11
Mal	1D193B	J2	_	_	_	_	_	_	_	_	_	_	_
Mal	1D193C	J2	12	15	13	17	23	10	11	12	15	9	11
Mal	1D196A	J2	13	15	13	16	22	11	11	13	14	9	13
Mal	1D196B	J2	13	12	13	18	22	9	11	14	16	10	12

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Mal	1D196C	J2	13	16	13	18	23	10	11	12	15	9	11
Mal	2D196B	J2	12	14	13	16	24	10	11	12	14	9	12
Mal	2D196C	J2	13	15	13	17	23	10	11	12	15	9	11
Mal	2D196D	J2	13	15	13	17	23	10	11	12	15	9	12
Mal	1H7B	J2	14	16	13	16	24	9	11	12	14	9	11
Mal	2H7A	J2	12	15	13	16	24	10	11	12	15	8	11
Mal	2H10C	J2	13	15	13	18	23	10	11	12	15	9	11
Mal	3H10C	J2	13	15	13	17	22	11	11	13	14	9	12
Mal	1H15B	J2	_	_	_	_	_	_	_	_	_	_	_
Mal	2H15D	J2	12	15	13	17	23	10	11	12	15	9	11
Mal	1H20C	J2	12	15	13	15	20	10	11	12	14	9	11
Mal	1H20D	J2	_	_	_	_	_	_	_	_	_	_	_
Mal	2H20A	J2	14	16	13	16	24	9	11	12	14	9	12
Mal	2H20B	J2	12	14	13	16	24	10	11	12	14	9	11
Mal	5H20A	J2	12	15	14	17	22	10	11	12	15	9	11
Mal	5H20D	J2	12	15	12	17	22	9	11	12	14	9	11
Mal	1H25C	J2	_	_	_	_	_	_	_	_	_	_	_
Mal	3H25C	J2	_	_	_	_	_	_	_	_	_	_	_
Mal	3H25D	J2	_	_	_	_	_	_	_	_	_	_	_
Mal	5H25B	J2	13	15	13	17	23	10	11	12	15	9	11
Mal	5H25D	J2	_	_	_	_	_	_	_	_	_	_	_
Mal	6H25C	J2	12	14	13	16	24	10	11	12	14	9	12
Mal	1H29A	J2	13	15	13	17	23	10	11	12	15	9	11
Mal	1H29B	J2	13	16	13	17	23	10	11	12	15	9	11
Mal	1H29D	J2	13	15	13	17	22	11	11	13	14	9	12
Mal	4H29A	J2	14	15	12	19	22	9	11	12	14	9	11
Mal	4H29B	J2	13	15	13	17	22	11	11	12	15	9	11
Mal	4H29D	J2	13	15	14	17	23	10	11	12	15	9	11
Mal	1H34A	J2	12	14	13	13	24	10	11	12	14	9	11
Mal	2H34B	J2	12	14	13	16	24	10	11	12	14	9	11
Mal	3H34A	J2	_	_	_	_	_	_	_	_	_	_	_

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Mal	3H34B	J2	14	15	13	17	23	10	11	12	15	9	11
Mal	4H34A	J2	13	16	13	16	24	9	11	12	14	9	12
Mal	4H34C	J2	13	16	13	17	23	10	11	12	15	9	11
Mal	5D185D	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	3D196A	E3b	_	_	_	_	_	_	_	_	_	_	_
Mal	3D196B	E3b	_	_	_	_	_	_	_	_	_	_	_
Mal	3H34D	E3b	_	_	_	_	_	_	_	_	_	_	_
Mal	1D193A	G	_	_	_	_	_	_	_	_	_	_	_
Mal	1H7C	G	_	_	_	_	_	_	_	_	_	_	_
Mal	1H10B	F/H	_	_	_	_	_	_	_	_	_	_	_
Mal	2H34A	I	_	_	_	_	_	_	_	_	_	_	_
Mal	1D164 A	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	1D181 D	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	1D183 C	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	2D183 A	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	2D183 B	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	2D185C	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	3D185B	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	3D185D	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	4D185A	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	4D185D	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	5D185C	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	2D190A	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	2D190D	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	4D190A	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	4D190C	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	2D193C	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	3D193A	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	3D193B	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	2D196A	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	1H3C	R1	_	_	_	_	_	_	_	_	_	_	_

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Mal	1H10D	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	2H10B	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	3H10A	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	3H10B	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	3H10D	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	1H15A	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	1H15C	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	2H15A	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	1H20A	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	3H20B	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	4H20C	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	1H25A	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	1H25D	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	2H25A	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	2H25B	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	2H25D	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	4H25A	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	4H25B	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	4H25C	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	6H25A	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	1H29C	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	2H29A	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	2H29C	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	5H29B	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	5H29C	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	5H29D	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	1H34B	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	4H34B	R1	_	_	_	_	_	_	_	_	_	_	_
Mal	1D169 D	R1a1	_	_	_	_	_	_	_	_	_	_	_
Mal	1D181 B	R1a1	_	_	_	_	_	_	_	_	_	_	_
Mal	5D185A	R1a1	_	_	_	_	_	_	_	_	_	_	_

Population	DNA Ref. No.	Haplogroup	Allele Status at DYS										
			19	**388**	**389I**	**389b**	**390**	**391**	**392**	**393**	**437**	**438**	**439**
Mal	3D190A	R1a1	_	_	_	_	_	_	_	_	_	_	_
Mal	2D193A	R1a1	_	_	_	_	_	_	_	_	_	_	_
Mal	3D193C	R1a1	_	_	_	_	_	_	_	_	_	_	_
Mal	2H20C	R1a1	_	_	_	_	_	_	_	_	_	_	_
Mal	3H20C	R1a1	_	_	_	_	_	_	_	_	_	_	_
Mal	4H25D	R1a1	_	_	_	_	_	_	_	_	_	_	_
Mal	4H29C	R1a1	_	_	_	_	_	_	_	_	_	_	_
Tun	DN45	E3b	_	_	_	_	_	_	_	_	_	_	_
Tun	D10	E3b	13	13	13	18	23	10	11	13	14	11	13
Tun	D15	E3b	_	_	_	_	_	_	_	_	_	_	_
Tun	D16	E3b	13	12	14	16	24	9	11	13	14	10	10
Tun	D26	E3b	14	12	14	16	24	9	11	13	14	10	10
Tun	D46	E3b	13	12	13	16	24	9	11	13	14	10	10
Tun	D69	E3b	13	12	14	16	24	10	11	13	14	10	11
Tun	D71		17	12	13		21	10	11	14	14	11	11
Tun	D72	E3b	14	12	14	17	24	9	11	13	14	10	10
Tun	DN2	E3b	13	12	14	16	24	9	11	13	14	10	10
Tun	DN23	E3b	13	12	14	16	24	9	11	13	14	10	10
Tun	DN24	E3b	13	12	14	16	24	9	11	13	14	10	10
Tun	DN25	E3b	13	12	14	16	25	10	11	13	14	10	11
Tun	DN44	E3b	13	12	14	16	25	9	11	13	14	10	10
Tun	DN54	E3b	13	12	14	16	24	9	11	13	14	10	10
Tun	DN8	E3b	13	12	14	17	25	9	11	13	14	10	10
Tun	DN9	E3b	14	12	14	17	25	9	11	13	14	10	10
Tun	T11	E3b	_	_	_	_	_	_	_	_	_	_	_
Tun	T20	E3b	14	12	13	17	24	9	11	12	14	10	10
Tun	T22	E3b	13	12	14	16	24	9	11	13	14	10	10
Tun	T23	E3b	13	12	14	16	25	9	11	12	14	10	10
Tun	T26	E3b	_	_	_	_	_	_	_	_	_	_	_
Tun	T27	E3b	13	12	14	16	23	9	11	13	14	10	10

Population	DNA Ref. No.	Haplogroup	Allele Status at DYS										
			19	**388**	**389I**	**389b**	**390**	**391**	**392**	**393**	**437**	**438**	**439**
Tun	T28	E3b	13	12	14	16	25	10	11	13	14	10	11
Tun	T29	E3b	13	12	12	17	23	10	11	13	14	10	10
Tun	T32	E3b	13	12	14	16	24	9	11	13	14	10	10
Tun	T39	E3b	14	12	13	17	24	9	11	12	14	10	10
Tun	T43	E3b	13	12	14	16	24	9	11	13	14	10	10
Tun	T46	E3b	13	12	13	16	24	9	11	13	14	10	10
Tun	T76	E3b	13	12	14	16	25	9	11	13	14	11	10
Tun	TN5	E3b	13	12	14	16	24	9	11	13	14	10	10
Tun	TN6	E3b	13	12	14	16	24	9	11	13	14	10	10
Tun	TN7	E3b	13	12	12	17	23	10	11	13	14	10	10
Tun	TN11	E3b	13	12	13	16	24	9	11	13	14	10	10
Tun	TN12		13	12	13	18	27	10	11	13	14	10	13
Tun	TN13	E3b	13	12	14	16	24	9	11	13	14	10	10
Tun	TN16	E3b	13	12	14	15	24	9	11	14	14	10	10
Tun	TN17	E3b	13	12	14	16	24	9	11	13	14	10	11
Tun	TN19	E3b	13	12	13	16	24	9	11	13	14	10	11
Tun	TN21	E3b	13	12	14	16	25	9	11	13	14	10	10
Tun	TN24	E3b	13	12	14	16	24	9	11	13	14	10	9
Tun	TN32	E3b	_	_	_	_	_	_	_	_	_	_	_
Tun	TN41	E3b	_	_	_	_	_	_	_	_	_	_	_
Tun	TN42	E3b	14	12	13	18	24	9	11	13	14	10	10
Tun	TN46	E3b	13	12	14	16	24	9	11	13	14	10	10
Tun	TN48	E3b	_	_	_	_	_	_	_	_	_	_	_
Tun	TN53	E3b	_	_	_	_	_	_	_	_	_	_	_
Tun	TN56	E3b	13	12	12	17	22	10	11	13	14	10	10
Tun	TN58	E3b	_	_	_	_	_	_	_	_	_	_	_
Tun	TN61	E3b	13	12	14	16	24	9	11	13	15	10	10
Tun	TN64	E3b	13	12	14	16	24	9	11	13	15	10	10
Tun	TN67	E3b	_	_	_	_	_	_	_	_	_	_	_
Tun	TN72	E3b	13	12	13	17	24	9	11	13	14	10	10
Tun	DN10	J2	_	_	_	_	_	_	_	_	_	_	_

Population	DNA Ref. No.	Haplogroup	Allele Status at DYS										
			19	**388**	**389I**	**389b**	**390**	**391**	**392**	**393**	**437**	**438**	**439**
Tun	DN56	J2	_	_	_	_	_	_	_	_	_	_	_
Tun	DN76	J2	_	_	_	_	_	_	_	_	_	_	_
Tun	T41	J2	_	_	_	_	_	_	_	_	_	_	_
Tun	TN18	J2	_	_	_	_	_	_	_	_	_	_	_
Tun	D41		15	12	15	17	24	11	13	13	14	12	12
Tun	D47		14	12	13	16	23	10	13	13	14	13	12
Tun	T21		13	12	14	17	24	11	13	14	15	12	12
Tun	TN28		13	12	14	17	24	11	13	13	15	12	12
Tun	TN4		15	12	13	18	25	10	11	13	14	11	10
Tun	TN33		16	12	14	16	24	10	12	13	14	11	13
Tun	TN34		15	12	14	16	24	10	12	14	14	11	13
Tun	TN50		15	12	13	18	25	10	13	13	14	12	13
Tun	TN71		16	12	14	16	23	10	12	14	14	11	12
Tun	T1	K2	_	_	_	_	_	_	_	_	_	_	_
Tun	T3	K2	_	_	_	_	_	_	_	_	_	_	_
Tun	T31	K2	_	_	_	_	_	_	_	_	_	_	_
Tun	TN3	K2	14	12	13	17	23	9	14	13	14	9	13
Tun	TN25	K2	14	12	15	15	23	10	13	13	15	9	10
Tun	TN70	K2	15	_	14	16	23	11	13	13	14	9	11
Mor	A1	E (xE3bxE3a)	14	12	12	17	23	10	11	13	17	10	8
Mor	A2	E3b (xE3b3)	13	12	14	16	24	9	11	13	14	10	10
Mor	A3	E3b (xE3b3)	13	12	14	16	24	9	11	13	14	10	10
Mor	A4	E3b (xE3b3)	13	12	14	16	24	9	11	13	14	10	10
Mor	A5	E3b (xE3b3)	13	12	14	16	25	9	11	13	14	10	10
Mor	A6	E3b (xE3b3)	13	12	15	17	24	9	11	13	14	10	11
Mor	A7	E3b (xE3b3)	13	12	14	16	24	9	11	13	14	9	10
Mor	A8	E3b (xE3b3)	13	12	14	16	23	9	11	13	14	10	10
Mor	A9	E3b (xE3b3)	13	_	13	18	22	9	11	13	14	10	10
Mor	A10	R (xR1)	15	_	12	16	21	10	11	13	15	10	11
Mor	A11	E3b (xE3b3)	13	_	14	16	24	9	11	13	14	10	10

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			19	**388**	**389I**	**389b**	**390**	**391**	**392**	**393**	**437**	**438**	**439**
Mor	A12	E3b (xE3b3)	13	_	14	16	24	9	11	14	14	10	10
Mor	A13	E3b (xE3b3)	13	_	14	16	24	9	11	13	14	10	10
Mor	A14	E3b (xE3b3)	13	_	14	16	24	9	11	14	14	11	10
Mor	A15	E3b (xE3b3)	13	_	14	16	24	9	11	13	14	10	10
Mor	A16	E3b (xE3b3)	13		14	16	24	9	11	13	14	10	11
Mor	A17	E3b (xE3b3)	13	_	12	17	24	9	11	13	14	10	11
Mor	A18	E3b (xE3b3)	13	_	13	16	24	9	11	13	14	10	10
Mor	A20	E3b (xE3b3)	13	_	13	17	24	9	11	13	14	10	11
Mor	A21	E3a	16	_	13	18	21	10	11	14	14	11	12
Mor	A22		15	_	12	15	24	10	14	13	14	9	11
Mor	A23	E3b (xE3b3)	13	_	14	16	23	9	11	13	14	10	10
Mor	A24	E3a	15	_	12	17	21	10	11	14	14	11	12
Mor	A25	R1	14	_	13	16	23	11	13	13	15	12	12
Mor	A26	E3b (xE3b3)	13	_	13	16	24	9	11	13	14	10	11
Mor	A27	E3b (xE3b3)	13	_	13	17	24	9	11	13	14	10	11
Mor	A28	E3b (xE3b3)	13	_	14	16	24	9	11	13	14	10	10
Mor	A29	E3b (xE3b3)	13	_	14	16	24	9	11	14	14	10	10
Mor	A31	E3b (xE3b3)	13	_	12	17	22	10	11	13	14	10	10
Mor	A32	E3b (xE3b3)	13	_	14	16	24	9	11	13	14	10	10
Mor	A33	E3b (xE3b3)	13	_	12	17	24	10	10	13	14	10	10
Mor	A34	E3b (xE3b3)	13	_	14	16	24	9	11	13	14	10	10
Mor	A35		13	_	14	16	23	9	11	13	14	10	10
Mor	A36	E3b (xE3b3)	13	_	13	18	22	9	11	13	14	10	14
Mor	A37	E3b (xE3b3)	13	_	14	16	24	9	11	13	14	10	11
Mor	A38	E3b (xE3b3)	13	_	15	17	23	9	11	13	14	10	10
Mor	A39	E3b (xE3b3)	13	_	14	17	24	9	11	13	14	10	10
Mor	A40	E3b (xE3b3)	13	_	14	16	24	9	11	13	14	10	10
Mor	As1	E (xE3bxE3a)	14	_	13	16	23	10	11	12	14	9	12
Mor	AS2	R1	14	_	13	16	23	10	11	12	14	9	_
Mor	AS3	E3b (xE3b3)	13	12	13	17	24	9	11	12	14	10	10
Mor	AS4	E3b (xE3b3)	14	12	13	17	23	10	11	12	14	10	10

Population	DNA Ref. No.	Haplogroup	Allele Status at DYS										
			19	**388**	**389I**	**389b**	**390**	**391**	**392**	**393**	**437**	**438**	**439**
Mor	AS5	E3b (xE3b3)	13	12	13	17	24	9	11	14	14	10	10
Mor	AS6	E3b (xE3b3)	13	12	13	17	23	9	11	12	14	10	10
Mor	AS7	E3b (xE3b3)	13	12	13	17	23	10	11	12	14	9	_
Mor	AS8	E3b (xE3b3)	14	12	13	16	23	10	11	12	14	9	10
Mor	AS9	E3a	14	12	13	16	23	10	11	12	14	9	12
Mor	AS10	R1	14	_	13	16	23	10	13	12	14	12	12
Mor	AS11	E3b (xE3b3)	13	12	13	17	24	9	11	13	14	10	10
Mor	AS12	E3b (xE3b3)	13	13	13	16	24	10	11	12	14	10	10
Mor	AS13	E3b (xE3b3)	13	12	13	16	23	10	11	12	14	9	12
Mor	AS14	E3b (xE3b3)	13	12	14	16	23	9	11	13	14	10	10
Mor	AS15	E3b (xE3b3)	13	12	13	17	23	9	11	12	14	10	10
Mor	AS16	E3b (xE3b3)	14	12	13	16	23	10	11	12	14	9	12
Mor	AS17	E3a	15	12	13	17	21	10	11	14	14	11	11
Mor	AS18	E3b (xE3b3)	13	12	13	17	22	9	11	12	14	10	10
Mor	AS19	E3b (xE3b3)	13	12	13	16	24	9	11	12	14	10	_
Mor	AS20	E3b (xE3b3)	14	_	13	16	23	10	11	12	14	9	_
Mor	AS21	E	16	12	12	17	22	10	11	13	17	8	11
Mor	AS22		17	_	13	14	23	10	14	13	14	10	11
Mor	AS23	E3a	16	12	13	18	21	10	11	14	14	11	12
Mor	AS24	E3b (xE3b3)	13	12	13	17	22	9	11	12	14	10	10
Mor	AS25	R	14	_	13	16	23	11	13	13	15	12	12
Mor	AS26	E3b (xE3b3)	14	12	13	16	23	10	11	12	14	9	_
Mor	AS27	E3b (xE3b3)	14	12	13	17	23	9	11	13	14	10	10
Mor	AS28	E3b (xE3b3)	13	12	13	16	23	9	11	13	14	10	10
Mor	AS29	E3b (xE3b3)	13	12	13	16	23	9	11	13	14	10	10
Mor	AS30	R1	14	_	13	16	23	10	11	12	14	10	11
Mor	AS31	R1	14	_	13	16	23	10	11	12	14	9	12
Mor	AS32	E3b (xE3b3)	13	12	14	16	24	9	11	13	14	10	10
Mor	AS33	E3b (xE3b3)	_	_	_	_	_	_	_	_	_	_	_
Mor	AS34	E3b (xE3b3)	13	12	13	17	23	9	11	13	14	10	10
Mor	AS35	E3b (xE3b3)	14	_	13	16	23	10	11	12	14	10	10

Population	DNA Ref. No.	Haplogroup	Allele Status at DYS										
			19	**388**	**389I**	**389b**	**390**	**391**	**392**	**393**	**437**	**438**	**439**
Mor	AS36	E3a	15	12	13	19	21	10	10	13	14	11	12
Mor	AS37	E3b (xE3b3)	13	12	14	16	24	9	11	13	14	10	10
Mor	AS38	R1	14	_	13	16	23	10	11	12	15	12	11
Mor	AS39	R1	14	_	13	16	23	10	11	12	14	9	11
Mor	AS40	E3b (xE3b3)	13	12	14	17	25	9	11	13	14	10	11
Mor	AS41	E3b (xE3b3)	13	12	14	16	24	9	11	13	14	10	10
Mor	AS42	E3b (xE3b3)	13	12	13	17	24	9	11	13	14	10	10
Mor	AS43	E3b (xE3b3)	13	12	13	19	23	9	11	13	14	10	13
Mor	AS44	E3b (xE3b3)	13	12	14	16	24	9	11	13	14	10	10
Mor	AS45	E3b (xE3b3)	13	12	14	16	24	9	11	13	14	10	10
Mor	AS46	E3a	15	12	13	18	21	10	11	13	14	11	14
Mor	AS47	E3b (xE3b3)	13	12	14	17	25	9	11	13	14	10	10
Mor	AS48	E3b (xE3b3)	13	12	14	17	25	9	11	13	14	10	10
Mor	AS49	R1	14	_	13	16	23	11	13	13	15	12	12
Mor	AS50	R1	14	_	13	16	23	10	11	12	14	9	12
Mor	AS51	R1	14	_	13	17	23	11	13	12	14	9	11
Mor	AS52	R1	14	_	13	16	23	11	11	12	15	12	11
Mor	AS53	R1	14	_	13	16	23	10	11	12	14	9	12
Mor	AS54	E3b (xE3b3)	14	_	13	16	23	10	11	12	14	9	11
Mor	AS55	J1	14	_	13	17	23	11	11	13	14	10	11
Mor	AS56	E3b (xE3b3)	14	_	13	17	23	11	11	13	14	10	11
Mor	AS57	E3b (xE3b3)	13	12	12	19	23	9	11	12	14	10	10
Mor	AS58	G	13	12	15	16	24	9	11	13	14	10	10
Mor	AS59		15	_	12	17	22	10	11	14	16	10	12
Mor	AS60	E3b (xE3b3)	14	_	13	16	23	10	11	12	14	9	12
Mor	AS61	E3b (xE3b3)	13	12	13	17	23	9	11	14	14	10	10
Mor	AS62	E3b (xE3b3)	13	12	13	16	23	9	11	13	14	10	10
Mor	AS63	E3b (xE3b3)	13	12	13	16	23	9	11	13	14	10	10
Mor	AS64	E3b (xE3b3)	13	12	14	16	23	9	11	13	14	10	10
Mor	AS65	E3b (xE3b3)	13	12	14	17	23	9	11	13	14	10	10
Mor	AS66	E (xE3bxE3a)	13	12	13	16	23	9	11	13	14	10	10

Population	DNA Ref. No.	Haplogroup	Allele Status at DYS										
			19	**388**	**389I**	**389b**	**390**	**391**	**392**	**393**	**437**	**438**	**439**
Mor	AS67	E3b (xE3b3)	16	12	12	17	22	10	11	13	17	8	11
Mor	AS68	J1	13	12	14	17	24	9	11	13	14	10	10
Mor	AS69	E3b (xE3b3)	14	_	12	17	23	11	11	12	14	10	11
Mor	AS70	E3b (xE3b3)	13	12	14	16	23	9	11	13	14	10	10
Mor	AS71	E3b (xE3b3)	13	12	14	16	23	9	11	13	14	10	11
Mor	AS72	E3b (xE3b3)	14	12	14	16	24	9	11	13	14	10	10
Mor	C2	E3b (xE3b3)	13	_	14	16	24	9	11	13	14	10	10
Mor	C6	E3b (xE3b3)	13	_	14	16	25	9	11	13	14	10	10
Mor	C8	E3b (xE3b3)	14	_	13	17	22	9	11	13	14	10	12
Mor	C10	E3b	13	_	14	16	25	9	11	13	14	10	10
Mor	C12	E3b	_	_	_	_	_	_	_	_	_	_	_
Mor	C17	E3b (xE3b3)	13	_	14	16	23	9	11	13	14	10	10
Mor	C20	E3b (xE3b3)	13	_	14	16	25	9	11	13	14	10	10
Mor	C21	E3b (xE3b3)	13	_	14	16	24	9	11	13	14	10	10
Mor	C29	E3b (xE3b3)	13	_	14	16	23	9	11	13	14	10	10
Mor	C31	J1	_	_	_	_	_	_	_	_	_	_	_
Mor	C32	E3b (xE3b3)	13	_	12	17	27	10	11	13	14	10	11
Mor	C34	E3b (xE3b3)	13	_	14	18	24	10	11	12	14	10	12
Mor	C35	E3b (xE3b3)	13	_	14	16	24	9	11	13	14	10	10
Mor	C36		15	_	14	17	22	9	11	13	16	10	11
Mor	C37	E3b (xE3b3)	13	_	14	16	23	9	11	13	14	10	10
Mor	C40	E3b (xE3b3)	13	_	14	16	24	9	11	13	14	10	10
Mor	C41	E3b (xE3b3)	13	_	14	16	25	9	11	13	14	10	10
Mor	C42	E3b (xE3b3)	13	_	14	16	24	9	11	13	14	10	10
Mor	C45	E3b (xE3b3)	13	_	14	16	24	9	11	13	14	10	10
Mor	C46	E3b (xE3b3)	15	_	13	18	23	11	11	13	14	10	11
Mor	C47	E3b (xE3b3)	13	_	14	16	24	9	11	13	14	10	10
Mor	C57	E3b (xE3b3)	13	_	14	16	23	9	11	13	14	10	10
Mor	C58	E3b (xE3b3)	13	_	14	16	24	9	11	13	14	10	10
Mor	C59	E3b (xE3b3)	13	_	13	18	22	9	11	13	14	10	13
Mor	C60	E3b (xE3b3)	13	_	14	16	23	9	11	13	14	10	10

Population	DNA Ref. No.	Haplogroup	Allele Status at DYS										
			19	**388**	**389I**	**389b**	**390**	**391**	**392**	**393**	**437**	**438**	**439**
Mor	C61	E3a	17	_	14	17	21	10	11	13	14	11	11
Mor	C62	E3b (xE3b3)	13	_	14	16	25	9	11	13	14	11	12
Mor	H1	E3b (xE3b3)	13	_	14	16	24	9	11	13	14	11	10
Mor	H5	E3b (xE3b3)	13	_	14	16	24	9	11	13	14	10	10
Mor	H6	E3b (xE3b3)	13	_	14	16	24	9	11	13	14	10	10
Mor	H7	E3b (xE3b3)	13	_	14	16	24	9	11	13	14	10	11
Mor	H10	E3b (xE3b3)	13	_	13	16	24	10	11	13	14	10	12
Mor	H11	E3b (xE3b3)	13	_	14	18	24	9	11	13	14	10	10
Mor	H12	E3b (xE3b3)	13	_	13	18	22	9	12	13	14	10	14
Mor	H13	E3b (xE3b3)	13	_	14	16	24	9	11	13	14	10	10
Mor	H14	J2	14	_	12	17	23	10	11	12	15	9	11
Mor	H15	E (xE3bxE3a)	16	_	12	17	22	11	11	13	17	8	11
Mor	H16	E3b (xE3b3)	13	_	14	16	24	9	11	13	14	10	12
Mor	H17	E3b (xE3b3)	13	_	14	16	23	9	11	14	14	10	10
Mor	H18	E3b (xE3b3)	13	_	14	16	24	9	11	14	14	10	10
Mor	H20		17	_	13	17	21	10	11	14	14	11	12
Mor	H21	E3b (xE3b3)	13	_	13	16	25	9	11	13	14	9	10
Mor	H22	E3b (xE3b3)	13	_	13	17	24	10	11	14	14	10	12
Mor	H23	E3b (xE3b3)	13	_	14	16	23	9	11	13	14	10	11
Mor	H25	E3b (xE3b3)	13	_	14	16	24	9	11	13	14	10	11
Mor	H26	E3b (xE3b3)	13	_	15	16	24	9	11	13	14	10	10
Mor	H27	E3b (xE3b3)	13	_	14	16	24	9	11	13	14	10	10
Mor	H28	E3b (xE3b3)	14	_	14	16	24	9	11	13	14	10	10
Mor	H29	E3b (xE3b3)	13	_	14	17	24	9	11	13	14	10	10
Mor	H30	E (xE3bxE3a)	14	_	13	17	23	11	11	12	14	10	10
Mor	O2	E3b (xE3b3)	13	12	14	16	24	9	11	13	14	10	10
Mor	O3	E3b (xE3b3)	13	13	14	17	24	9	11	13	14	10	10
Mor	O4	E3b (xE3b3)	13	12	14	16	24	9	11	13	14	10	10
Mor	O5	J1	15	_	13	17	23	11	11	12	14	10	11
Mor	O6	E3b (xE3b3)	13	12	14	16	24	9	11	13	14	10	10
Mor	O9	E3a	16	12	13	19	21	9	11	13	14	11	11

Population	DNA Ref. No.	Haplogroup	Allele Status at DYS										
			19	**388**	**389I**	**389b**	**390**	**391**	**392**	**393**	**437**	**438**	**439**
Mor	O10	E3b (xE3b3)	13	12	14	16	23	9	11	13	14	10	10
Mor	O11	E3b (xE3b3)	13	13	14	16	24	9	11	13	14	10	10
Mor	O12	E (xE3b)	15	_	13	18	21	10	11	14	14	11	12
Mor	O13	J1	14	_	13	17	23	12	11	12	14	10	11
Mor	O17	E3a	17	12	14	17	21	10	11	13	14	11	11
Mor	O21	E3b (xE3b3)	13	12	15	16	25	8	11	13	14	10	10
Mor	O22	E3b (xE3b3)	13	13	14	16	24	9	11	13	14	10	10
Mor	O23	E3b (xE3b3)	13	13	14	16	24	9	11	13	14	10	12
Mor	O24	E3b (xE3b3)	13	12	14	16	24	9	11	13	14	10	10
Mor	O25	E3b (xE3b3)	13	12	14	16	24	9	11	13	14	10	10
Mor	O26	E3b (xE3b3)	13	13	14	16	24	9	11	13	14	8	9
Mor	O27	E3b (xE3b3)	13	12	14	16	25	9	11	12	14	10	10
Mor	O29	E3b (xE3b3)	13	13	14	18	24	9	11	13	14	10	10
Mor	O30	E3b (xE3b3)	13	12	13	17	24	10	11	12	14	10	11
Mor	O33	E3b (xE3b3)	13	12	14	16	24	9	11	13	14	10	10
Mor	O34	E3b (xE3b3)	13	12	13	16	24	9	11	13	14	10	10
Mor	O35	E3b (xE3b3)	13	12	14	17	24	9	11	13	14	10	10
Mor	Tz1	J1	13	_	13	17	23	8	11	12	14	10	11
Mor	Tz2	E	13	_	14	16	24	9	11	13	14	10	10
Mor	Tz3	E3b (xE3b3)	13	_	13	16	25	9	11	13	14	10	12
Mor	Tz4	E3b (xE3b3)	13	_	14	16	23	9	11	13	14	10	10
Mor	Tz5	E	13	_	13	19	22	9	11	13	14	10	14
Mor	Tz7	E	13	_	13	19	22	8	11	12	14	10	12
Mor	Tz8	E (xE3bxE3a)	14	_	12	16	25	10	11	13	15	11	12
Mor	Tz9	E	13	_	12	16	24	9	11	13	14	10	11
Mor	Tz10	E	13	_	13	19	22	8	11	12	14	10	12
Mor	Tz11	E3b (xE3b3)	13	_	13	16	25	9	11	13	14	10	12
Mor	Tz12	E3b (xE3b3)	13	_	14	16	24	9	11	13	14	10	10
Mor	Tz13	E3b (xE3b3)	13	_	14	16	23	9	11	13	14	10	10
Mor	Tz14	E3b (xE3b3)	13	_	14	16	24	9	11	13	14	10	11
Mor	Tz15	E	13	_	14	16	23	9	11	13	14	10	10

Population	DNA Ref. No.	Haplogroup	Allele Status at DYS										
			19	**388**	**389I**	**389b**	**390**	**391**	**392**	**393**	**437**	**438**	**439**
Mor	Tz16	E	14	_	14	16	23	9	11	13	14	10	10
Mor	Tz17	E3b (xE3b3)	14	_	14	16	23	9	11	13	14	10	10
Mor	Tz18	E	11	_	14	16	24	9	11	13	14	10	10
Mor	Tz19	E3b (xE3b3)	13	_	14	16	24	9	11	13	14	10	10
Mor	Tz21	E3b (xE3b3)	13	_	14	16	23	9	11	13	14	10	10
Mor	Tz22	E3b (xE3b3)	13	_	14	16	23	9	11	13	14	10	10
Mor	Tz28	E	14	_	13	17	23	11	11	12	14	10	11
Mor	Tz29	J1	13	_	14	16	24	9	11	13	14	10	10
Mor	Tz30	E	14	_	13	18	23	10	11	12	14	10	11
Mor	Tz31	E3b (xE3b3)	13	_	13	18	22	9	11	13	14	10	13
Mor	Tz32	E3b (xE3b3)	13	_	14	16	23	9	11	13	14	10	10
Mor	Tz33	E3b (xE3b3)	13	_	14	16	23	9	11	13	14	10	10
Mor	Tz34	E3b (xE3b3)	13	_	14	16	24	9	11	13	14	10	10
Mor	Tz35	E3b (xE3b3)	13	_	14	16	24	9	11	13	14	10	10
Mor	Tz36	E3b (xE3b3)	13	_	13	18	22	9	11	14	14	10	13
Mor	Tz37	E3b (xE3b3)	13	_	13	16	23	9	11	13	14	10	10
Mor	Tz38	E3b (xE3b3)	13	_	14	16	24	9	11	13	14	10	10
Mor	Tz39	E3b (xE3b3)	13	_	14	16	24	9	11	13	14	10	10
Mor	Tz41	E3b	14	_	14	16	24	9	11	13	14	10	12
Mor	Tz42	E3b (xE3b3)	13	_	15	16	23	9	11	13	14	10	10
Mor	Tz43	J1	13	_	15	16	23	9	11	13	14	10	10
Mor	Tz44	E3b (xE3b3)	14	_	13	17	23	11	11	12	14	10	11
Mor	Tz45	E (xE3bxE3a)	13	_	12	17	23	10	11	13	14	10	10
Mor	Tz46	J1	17	_	14	18	22	10	11	13	17	8	13
Mor	Tz49		15	_	13	17	23	11	9	12	14	10	12
Mor	Tz50		14	_	13	17	23	12	11	12	14	10	11
Mor	Tz54		13	_	14	16	24	9	11	14	14	10	10
Mor	Tz56		13	_	14	16	24	9	11	13	14	10	10
Mor	Tz59		15	_	13	18	21	11	11	13	14	11	11
Mor	Tz61		11	_	14	16	24	9	11	13	14	10	10
Mor	Tz63		13	_	14	17	24	9	11	13	14	10	11

Population	DNA Ref. No.	Haplogroup	Allele Status at DYS										
			19	**388**	**389I**	**389b**	**390**	**391**	**392**	**393**	**437**	**438**	**439**
Mor	Tz64		13	_	13	17	23	9	11	13	14	10	11
Mor	Tz66		16	_	12	18	21	10	11	13	14	11	11
Mor	Tz68	E3b (xE3b3)	13	_	14	16	24	9	11	13	14	10	10
Mor	Tz69		13	_	13	16	23	9	11	13	14	10	10
Mor	Tz71	E3b (xE3b3)	13	_	14	16	24	9	11	13	14	10	11
Mor	Tz72	E	13	_	14	16	24	10	11	13	14	10	11
Mor	Tz73	E3b (xE3b3)	13	_	15	16	23	9	11	13	14	10	10
Mor	Tz74		13	_	13	18	22	9	11	13	14	10	14
Mor	Tz76		14	_	13	18	22	9	11	13	14	10	12
Mor	Tz77		13	_	15	16	23	9	11	13	14	10	10
Mor	Tz78		13	_	14	16	24	9	11	13	14	10	10
Mor	Tz79		14	_	13	16	23	11	11	12	14	10	11
Mor	G1		13	_	14	16	24	9	11	13	14	10	10
Mor	G2	E3b (xE3b3)	13	_	14	16	24	9	11	13	14	10	10
Mor	G3	E3a	17	_	13	18	21	11	11	13	14	11	12
Mor	G4	E3a	15	_	13	17	21	10	11	13	14	11	13
Mor	G5	E3b (xE3b3)	13	_	14	16	24	9	11	13	14	10	10
Mor	G7		15	_	13	17	21	10	12	14	14	11	12
Mor	G8	E3b (xE3b3)	13	_	13	16	24	9	11	13	14	10	10
Mor	G9	E3b (xE3b3)	13	_	14	16	23	9	11	13	14	10	10
Mor	G10	E3b (xE3b3)	13	_	14	16	23	9	11	13	14	10	10
Mor	G21	E3b (xE3b3)	13	_	14	17	22	9	11	13	14	10	10
Mor	G23	E3b (xE3b3)	13	_	14	17	25	9	12	13	14	10	10
Mor	Z2	E3b (xE3b3)	_	_	_	_	_	_	_	_	_	_	_
Mor	Z5	E3a	15	_	13	18	21	10	11	13	14	11	12
Mor	Z11	J1	15	_	13	17	23	11	11	12	14	10	11
Mor	A30	E3b (xE3b3)	_	_	_	_	_	_	_	_	_	_	_
Mor	A41	E3b (xE3b3)	_	_	_	_	_	_	_	_	_	_	_
Mor	C1	E3b	_	_	_	_	_	_	_	_	_	_	_
Mor	C3	E3b	_	_	_	_	_	_	_	_	_	_	_
Mor	C9	E3b	_	_	_	_	_	_	_	_	_	_	_

Population	DNA Ref. No.	Haplogroup	Allele Status at DYS										
			19	388	389I	389b	390	391	392	393	437	438	439
Mor	C14	E3b	_	_	_	_	_	_	_	_	_	_	_
Mor	C15	E3b	_	_	_	_	_	_	_	_	_	_	_
Mor	C18	E3b	_	_	_	_	_	_	_	_	_	_	_
Mor	C22	E3b	_	_	_	_	_	_	_	_	_	_	_
Mor	C23	E3b	_	_	_	_	_	_	_	_	_	_	_
Mor	C24	E3b	_	_	_	_	_	_	_	_	_	_	_
Mor	C28	E3b	_	_	_	_	_	_	_	_	_	_	_
Mor	C33	E3b	_	_	_	_	_	_	_	_	_	_	_
Mor	C48	E3b	_	_	_	_	_	_	_	_	_	_	_
Mor	C51	J1	_	_	_	_	_	_	_	_	_	_	_
Mor	C55	E3b	_	_	_	_	_	_	_	_	_	_	_
Mor	H4	E	_	_	_	_	_	_	_	_	_	_	_
Mor	H9	E	_	_	_	_	_	_	_	_	_	_	_
Mor	O7	R1	_	_	_	_	_	_	_	_	_	_	_
Mor	O8	E	_	_	_	_	_	_	_	_	_	_	_
Mor	Tz20	E	_	_	_	_	_	_	_	_	_	_	_
Mor	Tz23	E	_	_	_	_	_	_	_	_	_	_	_
Mor	Tz24	J1	_	_	_	_	_	_	_	_	_	_	_
Mor	Tz48	E3b (xE3b3)	_	_	_	_	_	_	_	_	_	_	_
Mor	Tz53	E3b (xE3b3)	_	_	_	_	_	_	_	_	_	_	_
Mor	Tz55	E3a	_	_	_	_	_	_	_	_	_	_	_
Mor	Tz65	E (xE3bxE3a)	_	_	_	_	_	_	_	_	_	_	_
Mor	Tz67	E3b (xE3b3)	_	_	_	_	_	_	_	_	_	_	_
Mor	Tz70	E3b (xE3b3)	_	_	_	_	_	_	_	_	_	_	_
Mor	Tz75	E3b (xE3b3)	_	_	_	_	_	_	_	_	_	_	_
Mor	Tz80	E	_	_	_	_	_	_	_	_	_	_	_
Mor	G6	E	_	_	_	_	_	_	_	_	_	_	_
Mor	G11	E	_	_	_	_	_	_	_	_	_	_	_
Mor	G14	E	_	_	_	_	_	_	_	_	_	_	_
Mor	G15	E3b (xE3b3)	_	_	_	_	_	_	_	_	_	_	_
Mor	G16	E	_	_	_	_	_	_	_	_	_	_	_

Population	DNA Ref. No.	Haplogroup	Allele Status at DYS										
			19	**388**	**389I**	**389b**	**390**	**391**	**392**	**393**	**437**	**438**	**439**
Mor	G17	E	_	_	_	_	_	_	_	_	_	_	_
Mor	G20	E	_	_	_	_	_	_	_	_	_	_	_
Mor	G22	E3b (xE3b3)	_	_	_	_	_	_	_	_	_	_	_
Mor	G24	E	_	_	_	_	_	_	_	_	_	_	_
Mor	G26	E	_	_	_	_	_	_	_	_	_	_	_
Mor	Z1	E3b (xE3b3)	_	_	_	_	_	_	_	_	_	_	_
Mor	Z3	E3b (xE3b3)	_	_	_	_	_	_	_	_	_	_	_
Mor	Z4	J1	_	_	_	_	_	_	_	_	_	_	_
Mor	Z6	E3a	_	_	_	_	_	_	_	_	_	_	_
Mor	Z7	E	_	_	_	_	_	_	_	_	_	_	_
Mor	Z8	E3b (xE3b3)	_	_	_	_	_	_	_	_	_	_	_
Mor	Z9	E3b (xE3b3)	_	_	_	_	_	_	_	_	_	_	_
Mor	Z12	E	_	_	_	_	_	_	_	_	_	_	_
Mor	Z14	E3b (xE3b3)	_	_	_	_	_	_	_	_	_	_	_
Mor	Z15	G	_	_	_	_	_	_	_	_	_	_	_
Mor	Z16	E3b (xE3b3)	_	_	_	_	_	_	_	_	_	_	_
Mor	Z17	E3b	_	_	_	_	_	_	_	_	_	_	_
Mor	Z18	G	_	_	_	_	_	_	_	_	_	_	_
Mor	Z20	E	_	_	_	_	_	_	_	_	_	_	_
Mor	T2	E3b	_	_	_	_	_	_	_	_	_	_	_
Mor	T3	E3b	_	_	_	_	_	_	_	_	_	_	_
Mor	T4	E3a	_	_	_	_	_	_	_	_	_	_	_
Mor	T6	E (xE3bxE3a)	_	_	_	_	_	_	_	_	_	_	_
Mor	T7	E3b	_	_	_	_	_	_	_	_	_	_	_
Mor	T13	E3a	_	_	_	_	_	_	_	_	_	_	_
Mor	T14	J1	_	_	_	_	_	_	_	_	_	_	_
Mor	T15	E3b	_	_	_	_	_	_	_	_	_	_	_
Mor	T16	R	_	_	_	_	_	_	_	_	_	_	_
Mor	T17	E3a	_	_	_	_	_	_	_	_	_	_	_
Mor	T18	E3b	_	_	_	_	_	_	_	_	_	_	_
Mor	T20	E3b	_	_	_	_	_	_	_	_	_	_	_

Population	DNA Ref. No.	Haplogroup	Allele Status at DYS										
			19	**388**	**389I**	**389b**	**390**	**391**	**392**	**393**	**437**	**438**	**439**
Mor	T21	E	_	_	_	_	_	_	_	_	_	_	_
Mor	T22	E3b	_	_	_	_	_	_	_	_	_	_	_
Mor	T23	E3b	_	_	_	_	_	_	_	_	_	_	_
Mor	T24	E (xE3bxE3a)	_	_	_	_	_	_	_	_	_	_	_
Mor	T25	E3b	_	_	_	_	_	_	_	_	_	_	_
Mor	T26	R1	_	_	_	_	_	_	_	_	_	_	_
Mor	T27	E3b	_	_	_	_	_	_	_	_	_	_	_
Mor	T28	E3b	_	_	_	_	_	_	_	_	_	_	_
Mor	T29	E3a	_	_	_	_	_	_	_	_	_	_	_
Mor	T30	E3b	_	_	_	_	_	_	_	_	_	_	_
Mor	T31	J1	_	_	_	_	_	_	_	_	_	_	_
Mor	T32	J1	_	_	_	_	_	_	_	_	_	_	_
Mor	T33	E3a	_	_	_	_	_	_	_	_	_	_	_
Mor	T34	E (xE3bxE3a)	_	_	_	_	_	_	_	_	_	_	_

Table S2. Additional Population Data Used in this Study and Their Sources

Study	Country	Number of Samples
Zalloua et al. 2008[1]	Lebanon	935
Capelli et al. 2006[2]	Cyprus	65
Cinnioglu et al. 2004[3]	South Turkey	33
Cinnioglu et al. 2004[3]	North Turkey	112
Martinez et al. 2007[4]	Crete (Lasithi Plateau)	40
Martinez et al. 2007[4]	Crete (rest)	127
King et al. 2008[5]	Crete	69
Firasat et al. 2007[6]	Greece	77
Robino et al. 2004[7]	Greece	105
Semino et al. 2000[8]	Greece	78
YHRD_Eurasian MP_EuropeanMP_2003[9]	Greece, Athens	100
King et al. 2008[5]	Greece, south	46
King et al. 2008[5]	Greece, north	96
Ghiani et al. 2004[10]	Sicily	19
Robino et al. 2006[7]	Sicily	413
Capelli et al. 2006[2]	W Sicily	125
Capelli et al. 2006[2]	E Sicily	87
Capelli et al. 2006[2]	S. Italy	68
Capelli et al. 2007[11]	Italy WCL	57
Capelli et al. 2007[11]	Italy NWA	46
Capelli et al. 2007[11]	Italy WCP	84
Capelli et al. 2007[11]	Italy CMA	59
Capelli et al. 2007[11]	Italy SLA	51
Capelli et al. 2007[11]	Italy NEL	55
Capelli et al. 2007[11]	Italy TLB	79
Capelli et al. 2007[11]	Italy ELB	95
Francalacci et al. 2003[12]	Corsica	34
Ghiani et. al, 2002[13]	Sardinia	3
Capelli et al. 2006[2]	Sardinia	81

Study	Country	Number of Samples
Semino et al. 2004[14]	Sardinia	144
Contu et al. 2008[15]	S. Sardinia	187
Contu et al. 2008[15]	N Sardinia	86
Martin et al. 2004[16]	Spain	42
Jimenez et al. 2001[17]	Spain (Valencia)	139
Adams et al. unpublished	Spain (Valencia)	73
YHRD_Eurasian MP_EuropeanMP_2003[9]	Spain (Catalans)	223
Adams et al., unpublished	Spain (Catalans)	80
Quintana-Murci et al. 2003[18]	S. Spain	162
Adams et al. unpublished	S. Spain (E Andalusia)	95
Adams et al. unpublished	S. Spain (W Andalusia)	72
Flores et al. 2004[19]	Galicia	19
Flores et al. 2004[19]	Leon	60
Flores et al. 2004[19]	Cantabria	70
Adams et al. unpublished	Minorca N	37
Adams et al. unpublished	Majorca	62
Adams et al. unpublished	Ibiza	54
Gonzalez-Neira et al. 2000[20]	Iberia	20
Gonzalez-Neira et al. 2000[20]	Portugal	294
Goncalves et al. 2005[21]	Portugal, south	100
Goncalves et al. 2005[21]	Portugal, north	101
Cherni et al 2005[22]	Tunisia	246
Semino et al. 2000[8]	Albania	51
Maryanovic 2005[21]	Serbia	81
Maryanovic 2005[21]	Croatia	90
Arredi et al. 2004[23]	Egypt, south	29
Arredi et al. 2004[23]	Egypt, north	43
Total Samples		5899

Table S3. Haplogroup Numbers and Frequencies

Site Populations	E3b	G	I	J*(xJ2)	J2	K2	L	R1a	R1b	Total
Phoenician Test Sites										
Phoenician Heartland	88	22	32	96	156	25	41	14	49	558
	0.16	0.04	0.06	0.17	0.28	0.05	0.07	0.03	0.09	1.00
Phoenician Periphery	112	46	21	191	155	22	20	25	33	700
	0.20	0.07	0.03	0.27	0.22	0.03	0.03	0.04	0.05	1.00
Phoenician Homeland	200	68	53	187	311	47	61	39	82	1258
	0.16	0.05	0.04	0.23	0.25	0.04	0.05	0.03	0.07	1.00
Non-Phoenician Levant	58	19	9	83	41	7	2	3	6	286
	0.20	0.07	0.03	0.29	0.14	0.02	0.01	0.01	0.02	1.00
Cyprus	13	0	5	4	24	3	0	2	6	65
	0.20	0.00	0.08	0.06	0.37	0.05	0.00	0.03	0.09	1.00
S. Turkey	4	3	1	5	8	1	0	3	7	33
	0.12	0.09	0.03	0.15	0.24	0.03	0.00	0.09	0.21	1.0
N. Turkey	8	16	5	10	24	2	10	4	20	112
	0.07	0.14	0.04	0.09	0.21	0.02	0.09	0.04	0.18	1.00
Lowland Crete	14	9	13	2	59	5	0	10	15	127
	0.11	0.07	0.10	0.02	0.46	0.04	0.00	0.08	0.12	1.00
Lasithi Plateau Crete	2	3	3	1	4	3	0	8	15	40
	0.05	0.08	0.08	0.03	0.10	0.08	0.00	0.20	0.38	1.00
Crete (Total)	16	12	16	3	63	8	0	18	30	167
	0.10	0.07	0.10	0.02	0.38	0.05	0.0	0.11	0.18	1.00
Greece	16	7	15	1	12	2	0	12	9	77
	0.21	0.09	0.19	0.01	0.16	0.03	0.00	0.16	0.12	1.00
Greece & Crete	32	19	31	4	75	10	0	30	39	244
	0.131	0.119	0.127	0.016	0.307	0.041	0.000	0.123	0.160	1.000
Malta	12	17	17	0	59	0	0	10	41	187
	0.06	0.09	0.09	0.00	0.32	0.00	0.00	0.05	0.22	1.00
W.Sicily	24	16	14	5	23	4	0	3	34	125
	0.19	0.13	0.11	0.04	0.18	0.03	0.00	0.024	0.27	1.00

Site Populations	E3b	G	I	J*(xJ2)	J2	K2	L	R1a	R1b	Total
E. Sicily	25	4	4	6	25	4	0	2	17	87
	0.29	0.05	0.05	0.07	0.29	0.05	0.00	0.023	0.20	1.00
Sicily (Total)	49	20	18	11	48	8	0	5	51	221
	0.23	0.09	0.08	0.05	0.23	0.04	0.00	0.02	0.24	1.00
S. Italy	18	10	4	3	11	2	0	2	17	68
	0.26	0.15	0.06	0.04	0.16	0.03	0.00	0.03	0.20	1.00
S. Sardinia	20	26	65	5	20	0	0	1	36	187
	0.11	0.14	0.35	0.03	0.11	0.00	0.00	0.01	0.19	1.00
N. Sardinia	11	18	24	0	6	0	0	0	17	86
	0.13	0.21	0.28	0.00	0.07	0.00	0.00	0.00	0.20	1.00
Sardinia	31	44	89	5	26	0	0	1	53	273
	0.114	0.161	0.326	0.018	0.095	0.000	0.000	0.004	0.194	1.000
Mallorca	4	4	5	1	5	1	0	0	41	62
	0.062	0.062	0.081	0.016	0.081	0.016	0.000	0.000	0.661	1.000
Minorca	7	0	1	0	1	0	0	1	27	37
	0.189	0.000	0.027	0.000	0.027	0.000	0.000	0.027	0.730	1.000
Malorca + Minorca	11	4	6	1	6	1	0	1	68	99
	0.111	0.040	0.060	0.010	0.060	0.010	0.000	0.010	0.687	1.000
Ibiza	4	7	1	0	2	9	0	0	31	54
	0.074	0.130	0.019	0.000	0.037	0.167	0.000	0.000	0.574	1.000
S. Spain	15	6	10	4	18	0	0	4	108	167
	0.09	0.04	0.06	0.02	0.11	0.00	0.00	0.02	0.65	1.00
Valencia Spain	8	1	7	2	4	1	0	2	47	73
	0.11	0.01	0.10	0.03	0.05	0.01	0.00	0.03	0.64	1.00
Contact Spain	23	7	17	6	22	1	0	6	155	240
	0.10	0.03	0.07	0.03	0.09	0.00	0.00	0.03	0.65	1.00
Non-contact Iberia	47	25	21	13	26	0	0	4	233	383
	0.12	0.07	0.05	0.03	0.07	0.00	0.00	0.01	0.61	1.00
Coastal Tunisia	14	0	0	0	5	1	0	0	1	36
	0.39	0.00	0.00	0.00	0.14	0.03	0.00	0.00	0.03	1.00

Site Populations	E3b	G	I	J*(xJ2)	J2	K2	L	R1a	R1b	Total
Non-contact Tunisia	46	0	0	0	0	5	0	1	8	94
	0.49	0.00	0.00	0.00	0.00	0.05	0.00	0.01	0.09	1.00
Neolithic Test Sites										
Turkey #5	4	6	2	3	11	2	0	5	6	43
	0.093	0.14	0.047	0.07	0.256	0.047	0.000	0.116	0.14	1.000
Turkey #3	7	13	2	8	16	2	10	4	11	83
	0.084	0.157	0.024	0.096	0.193	0.024	0.12	0.048	0.133	1.000
Turkey #8	2	6	2	1	4	1	1	1	6	30
	0.067	0.2	0.067	0.033	0.133	0.033	0.033	0.033	0.2	1.000
Turkey #1	8	2	6	8	16	0	1	2	7	52
	0.154	0.038	0.155	0.154	0.308	0.000	0.019	0.038	0.135	1.000
Turkey #2	1	3	3	2	8	0	0	0	9	29
	0.034	0.103	0.103	0.069	0.276	0.000	0.000	0.000	0.310	1.000
Turkey #4	12	7	0	10	23	1	3	9	11	82
	0.146	0.085	0.000	0.122	0.280	0.012	0.037	0.110	0.134	1.000
Turkey #6	4	3	1	5	8	1	0	3	7	33
	0.121	0.091	0.030	0.152	0.242	0.030	0.000	0.091	0.212	1.000
Turkey #7	8	11	4	5	26	3	3	5	14	90
	0.089	0.122	0.044	0.056	0.289	0.033	0.033	0.056	0.156	1.000
Turkey #9	10	6	8	6	16	3	4	7	12	81
	0.123	0.074	0.099	0.074	0.198	0.037	0.049	0.086	0.148	1.000
Greece	17	2	6	1	16	1	1	9	21	78
	0.218	0.026	0.077	0.013	0.205	0.013	0.013	0.115	0.269	1.000
Albania	11	1	10	2	12	0	0	5	9	51
	0.216	0.02	0.196	0.039	0.235	0.000	0.000	0.098	0.176	1.000
Serbia	18	1	29	0	7	0	0	11	5	81
	0.222	0.012	0.358	0.000	0.086	0.000	0.000	0.136	0.062	1.000
Croatia	8	1	66	0	1	0	0	11	2	90
	0.089	0.011	0.733	0.000	0.011	0.000	0.000	0.122	0.022	1.000
Italy WCL	9	6	1	2	20	0	0	1	18	57

Site Populations	E3b	G	I	J*(xJ2)	J2	K2	L	R1a	R1b	Total
	0.158	0.105	0.018	0.035	0.351	0.000	0.000	0.018	0.316	1.000
Italy NWA	2	6	0	1	8	0	0	3	24	46
	0.043	0.13	0.000	0.022	0.174	0.000	0.000	0.065	0.522	1.000
Italy WCP	15	8	9	4	14	0	0	2	24	71
	0.211	0.113	0.127	0.056	0.197	0.000	0.000	0.028	0.338	1.000
Italy CMA	3	4	5	3	21	0	0	1	22	59
	0.051	0.068	0.085	0.051	0.356	0.000	0.000	0.017	0.373	1.000
Italy SLA*	3	6	4	0	13	0	0	2	19	51
	0.059	0.118	0.078	0.000	0.255	0.000	0.000	0.039	0.373	1.000
Italy NEL*	14	7	3	0	8	0	0	1	21	55
	0.255	0.127	0.055	0.000	0.145	0.000	0.000	0.018	0.382	1.000
Italy TLB*	9	12	4	0	15	0	0	4	32	79
	0.114	0.152	0.051	0.000	0.19	0.000	0.000	0.051	0.405	1.000
Italy EBL*	7	10	19	0	8	0	0	1	50	95
	0.074	0.105	0.2	0.000	0.084	0.000	0.000	0.011	0.526	1.000
S. Portugal	8	7	7	7	11	0	0	2	52	100
	0.08	0.07	0.07	0.07	0.11	0.000	0.000	0.02	0.52	1.000
N. Portugal	21	5	7	1	7	0	0	0	53	101
	0.208	0.05	0.069	0.01	0.069	0.000	0.000	0.000	0.525	1.000
S. Greece	20	3	11	1	9	1	0	1	9	46
	0.435	0.065	0.239	0.022	0.196	0.022	0.000	0.022	0.196	1.000
N. Greece	34	5	12	8	16	2	1	18	14	96
	0.354	0.052	0.125	0.083	0.167	0.021	0.01	0.188	0.146	1.000
S. Egypt	9	5	1	6	1	3	0	0	4	29
	0.31	0.172	0.034	0.207	0.034	0.103	0.000	0.000	0.138	1.000
N. Egypt	23	3	0	4	4	1	0	1	4	43
	0.535	0.07	0.000	0.093	0.093	0.023	0.000	0.023	0.093	1.000

Table S4. STR+ Numbers and Frequencies

STR+ Site **Populations**	**PCS1+**	**PCS2+**	**PCS3+**	**PCS4+**	**PCS5+**	**PCS6+**	**PCS1+ – PCS3+**	**GCS1+**	**Total**
Phoenician	39	22	4	63	34	48	65	15	385
Heartland	0.101	0.057	0.010	0.164	0.088	0.125	0.169	0.039	1.000
Phoenician	27	17	6	54	24	26	50	13	288
Periphery	0.094	0.059	0.021	0.188	0.083	0.090	0.174	0.045	1.000
Phoenician H & P	66	39	10	117	58	74	115	28	673
	0.098	0.006	0.015	0.174	0.086	0.110	0.171	0.042	1.000
Syria	7	12	1	17	9	6	20	6	161
	0.043	0.075	0.006	0.106	0.056	0.037	0.124	0.037	1.000
Palestinians	10	12	2	49	14	27	24	26	364
	0.027	0.033	0.005	0.135	0.038	0.074	0.066	0.071	1.000
Cyprus	34	17	3	42	35	23	54	13	163
	0.209	0.104	0.018	0.258	0.215	0.141	0.331	0.080	1.000
S. Turkey	0	0	0	0	0	0	0	0	0
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N. Turkey	0	0	0	0	0	0	0	0	0
	--	--	--	--	--	--	--	--	--
Crete	5	5	0	9	3	4	10	13	69
	0.072	0.072	0.000	0.130	0.043	0.058	0.145	0.188	1.000
Greece	8	11	0	15	6	2	19	68	278
	0.029	0.040	0.000	0.054	0.022	0.007	0.068	0.245	1.000
Crete & Greece	13	16	0	24	9	6	29	81	347
	0.037	0.046	0.000	0.069	0.259	0.017	0.084	0.233	1.000
Malta	3	4	0	12	0	0	7	0	50
	0.060	0.080	0.000	0.240	0.000	0.000	0.140	0.000	1.000
Sicily	14	10	7	26	13	14	31	30	431
	0.032	0.023	0.016	0.006	0.003	0.003	0.072	0.070	1.000
W. Sicily	0	0	0	0	0	0	0	0	0
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STR+ Site Populations	**PCS1+**	**PCS2+**	**PCS3+**	**PCS4+**	**PCS5+**	**PCS6+**	**PCS1+ – PCS3+**	**GCS1+**	**Total**
E. Sicily	0	0	0	0	0	0	0	0	0
	--	--	--	--	--	--	--	--	--
All Sicily	14	10	7	26	13	14	31	30	431
	0.032	0.023	0.016	0.060	0.030	0.032	0.072	0.070	1.000
S. Italy	3	0	0	4	2	2	3	5	69
	0.043	0.000	0.000	0.058	0.029	0.029	0.043	0.072	1.000
S. Italy &	3	0	0	4	2	2	3	5	69
W. Sicily	0.043	0.000	0.000	0.058	0.029	0.029	0.043	0.072	1.000
Italy WCL	5	0	0	6	4	6	5	2	51
	0.098	0.000	0.000	0.118	0.078	0.118	0.098	0.039	1.000
Italy SAP	2	3	1	4	2	3	6	6	67
	0.030	0.045	0.015	0.060	0.030	0.045	0.090	0.090	1.000
Italy	10	3	1	14	8	11	14	13	187
	0.053	0.016	0.005	0.075	0.043	0.059	0.075	0.070	1.000
Sardinia	1	0	0	1	1	1	1	0	3
	0.333	0.000	0.000	0.333	0.333	0.333	0.333	0.000	1.000
Minorca	0	0	0	0	0	0	0	0	0
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Majorca	0	0	0	0	0	0	0	0	1
	0.000	0.000	0.000	--	--	--	0.000	0.000	1.000
S. Spain –	4	1	1	2	2	0	6	2	163
Andalusia	0.025	0.006	0.006	0.012	0.012	0.000	0.037	0.012	1.000
Spain	7	2	0	9	6	5	9	16	407
	0.017	0.005	0.000				0.022	0.039	1.000
Iberia	0	0	0	0	0	0	0	0	20
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000
Portugal	5	6	1	7	4	3	12	11	296
	0.017	0.020	0.003	0.024	0.014	0.010	0.041	0.037	1.000
Tot Iberia	16	8	1	18	12	8	25	27	723

STR+ Site Populations	**PCS1+**	**PCS2+**	**PCS3+**	**PCS4+**	**PCS5+**	**PCS6+**	**PCS1+ – PCS3+**	**GCS1+**	**Total**
	0.017	0.011	0.001	0.025	0.017	0.011	0.035	0.037	1.000
Coastal Tunisia	2	6	17	19	3	1	25	15	185
	0.011	0.032	0.092	0.103	0.016	0.005	0.135	0.081	1.000
Inland Tunisia	0	0	0	25	0	0	0	3	61
	0.000	0.000	0.000	0.410	0.000	0.000	0.000	0.049	1.000
Tunisia (unsec'd)	0	1	3	1	0	0	4	1	55
	0.000	0.018	0.055	0.018	0.000	0.000	0.072	0.018	1.000
All Tunisia	2	7	20	45	3	1	29	19	301
	0.007	0.023	0.066	0.150	0.010	0.003	0.096	0.063	1.000
Morocco	17	1	1	23	26	16	19	7	250
	0.068	0.004	0.004	0.092	0.104	0.064	0.076	0.028	1.000

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