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Y-STR Allele Frequencies for haplogroups listed in ysearch and public projects. FTDNA standards used. <0.005 indicated by .00 0.000 indicated by blank cell.

1	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
1	E3a	393	330							.02	.55	.27	.15	.01																												
1	E3b	393	1185							.04	.80	.14	.02																													
1	G	393	454							.01	.25	.64	.10		.00																											
1	I	393	5700							.03	.68	.17	.11	.00																												
1	J2	393	915						.01	.89	.10	.00																														
1	R1a	393	1574							.01	.95	.05																														
1	R1b	393	22129							.04	.91	.05	.00																													

2	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
2	E3a	390	330															.01	.92	.05	.02																					
2	E3b	390	1185																	.02	.15	.67	.16	.01																		
2	G	390	454															.00	.05	.75	.16	.03																				
2	I	390	5700															.00	.01	.39	.45	.11	.03	.01																		
2	J2	390	915																.00	.14	.45	.36	.05	.00																		
2	R1a	390	1574																		.01	.15	.76	.08	.00																	
2	R1b	390	22129																.00	.01	.22	.60	.16	.01																		

3	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
3	E3a	19	330									.02	.58	.23	.17																											
3	E3b	19	1185						.00	.00	.85	.12	.02	.01																												
3	G	19	454									.03	.89	.07	.01																											
3	I	19	5700								.01	.51	.33	.11	.04	.00																										
3	J2	19	915								.01	.44	.46	.08	.01																											
3	R1a	19	1574									.01	.51	.38	.10																											
3	R1b	19	22129								.01	.89	.09	.01																												

4	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
4	E3a	391	330				.01	.80	.19	.00																																
4	E3b	391	1185			.00	.20	.73	.07																																	
4	G	391	454				.01	.93	.07																																	
4	I	391	5700				.01	.84	.14	.01	.00																															
4	J2	391	915				.12	.81	.07																																	
4	R1a	391	1574				.01	.55	.42	.02																																
4	R1b	391	22129				.00	.29	.67	.04	.00																															

5	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
5	E3a	385a	330						.00		.01	.05	.16	.52	.20	.07																										
5	E3b	385a	1185							.01	.11	.03	.11	.45	.24	.04	.01																									
5	G	385a	454					.00	.03	.10	.25	.58	.02	.01																												
5	I	385a	5700						.01	.11	.40	.27	.19	.02																												
5	J2	385a	915					.03	.03	.08	.43	.35	.07	.02	.00	.00																										
5	R1a	385a	1574				.00	.06	.90	.04	.00	.00																														
5	R1b	385a	22129			.00	.00	.03	.87	.08	.01	.01	.00																													

6	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
6	E3a	385b	330										.02	.24	.33	.29	.09	.02	.00																							
6	E3b	385b	1185								.01	.09	.03	.07	.16	.49	.14	.02																								
6	G	385b	454								.04	.42	.37	.16	.02																											
6	I	385b	5700							.02	.06	.40	.32	.16	.03	.01																										
6	J2	385b	915								.02	.04	.17	.27	.36	.09	.05	.00																								
6	R1a	385b	1574						.01	.00	.04	.82	.11	.01	.00	.00																										
6	R1b	385b	22129						.02	.02	.11	.66	.16	.02	.00																											

7	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
7	E3a	426	330						1.0		.00																															
7	E3b	426	1185				.00	.01	.99																																	
7	G	426	454					.00	1.0																																	
7	I	426	5700					.00	.99	.00																																
7	J2	426	915					.00	1.0	.00																																
7	R1a	426	1574						.01	.99	.00																															
7	R1b	426	22129						.01	.98	.02																															

8	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44

8	E3a	388	330						.00	.92	.08	.00																																	
8	E3b	388	1185						.01	.97	.02	.00																																	
8	G	388	454							.50	.50																																		
8	I	388	5700							.00	.35	.56	.06	.03																															
8	J2	388	915							.01	.01	.04	.71	.19	.03																														
8	R1a	388	1574					.15	.00	.83	.02	.00																																	
8	R1b	388	22129						.00	.98	.01	.00																																	
9	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44			
9	E3a	439	330					.02	.22	.62	.13	.01	.00																																
9	E3b	439	1185					.12	.13	.59	.14	.02	.00																																
9	G	439	454					.02	.69	.25	.03																																		
9	I	439	5700					.03	.71	.20	.05	.01																																	
9	J2	439	915					.04	.36	.49	.10	.01	.00																																
9	R1a	439	1574				.00	.77	.20	.02	.00																																		
9	R1b	439	22129					.01	.22	.61	.15	.02	.00																																
10	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44			
10	E3a	389i	330						.01	.06	.74	.17	.01																																
10	E3b	389i	1185						.01	.11	.64	.22	.01																																
10	G	389i	454						.01	.79	.08	.11	.01																																
10	I	389i	5700						.01	.62	.23	.14	.00																																
10	J2	389i	915							.36	.42	.22	.00																																
10	R1a	389i	1574							.04	.71	.25	.01																																
10	R1b	389i	22129						.00	.05	.80	.14	.00																																
11	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44			
11	E3a	392	330						.97	.02	.00																																		
11	E3b	392	1185					.00	.97	.03																																			
11	G	392	454					.04	.90	.06																																			
11	I	392	5700				.00	.00	.74	.25	.01																																		
11	J2	392	915					.00	.94	.06																																			
11	R1a	392	1574					.00	.97	.02	.00	.00																																	
11	R1b	392	22129						.00	.01	.86	.11	.01																																
12	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44			
12	E3a	389ii	330																							.02	.07	.35	.38	.16	.02														
12	E3b	389ii	1185																							.01	.11	.60	.25	.04	.00														
12	G	389ii	454																						.00	.11	.57	.16	.08	.07	.01														
12	I	389ii	5700																					.00	.03	.48	.23	.12	.08	.06	.01														
12	J2	389ii	915																						.01	.29	.33	.21	.16	.01	.00														
12	R1a	389ii	1574																							.01	.15	.46	.30	.08	.01														
12	R1b	389ii	22129																				.00	.00	.01	.09	.63	.23	.04	.00															
13	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44			
13	E3a	458	160									.04	.11	.52	.18	.10	.04	.01																											
13	E3b	458	703								.01	.02	.40	.25	.16	.11	.04	.01																											
13	G	458	298										.08	.35	.28	.20	.07	.02	.01																										
13	I	458	4033								.01	.11	.50	.24	.08	.05	.02	.00																											
13	J2	458	570							.00	.01	.12	.31	.31	.12	.08	.04	.01																											
13	R1a	458	1030								.01	.07	.59	.25	.06	.02	.01																												
13	R1b	458	16471									.00	.02	.18	.50	.22	.06	.01	.00																										
14	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44			
14	E3a	459a	160			.91	.09																																						
14	E3b	459a	703	.00	.00	.03	.97																																						
14	G	459a	298		.01	.15	.84																																						
14	I	459a	4033		.02	.93	.03	.02																																					
14	J2	459a	570		.01	.61	.38																																						
14	R1a	459a	1030		.01	.11	.87	.01																																					
14	R1b	459a	16471		.00	.03	.95	.02																																					
15	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44			
15	E3a	459b	160			.04	.25	.71																																					
15	E3b	459b	703	.00		.00	.96	.04																																					
15	G	459b	298				.96	.04																																					
15	I	459b	4033			.02	.73	.25																																					
15	J2	459b	570			.03	.95	.02																																					
15	R1a	459b	1030				.16	.82	.02																																				
15	R1b	459b	16471			.00	.17	.81	.01																																				
16	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44			

	E3a	455	160				.01	.03	.96	.01																																			
16	E3b	455	703			.00	.00	.01	.97	.01																																			
16	G	455	298				.00	.01	.98	.01																																			
16	I	455	4033			.62	.01	.03	.34	.00																																			
16	J2	455	570			.02		.01	.97	.00																																			
16	R1a	455	1030					.02	.97	.01																																			
16	R1b	455	16471				.00	.01	.97	.01																																			
17	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44			
17	E3a	454	160						.94	.06																																			
17	E3b	454	703				.00		.87	.12	.00																																		
17	G	454	298						.98	.02																																			
17	I	454	4033					.00	.94	.05																																			
17	J2	454	570					.00	.95	.04	.01	.00																																	
17	R1a	454	1030					.00	.99	.01																																			
17	R1b	454	16471					.00	.98	.02																																			
18	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44			
18	E3a	447	160																		.01	.26	.24	.21	.21	.06	.01																		
18	E3b	447	703														.00	.01	.02	.02	.11	.04	.25	.44	.09	.01	.00																		
18	G	447	298																.01	.09	.63	.24	.02	.01																					
18	I	447	4033																.01	.16	.39	.13	.19	.11	.01																				
18	J2	447	570												.01		.00			.00	.02	.10	.17	.33	.12	.20	.04	.00																	
18	R1a	447	1030															.00	.01	.00	.38	.41	.15	.04																					
18	R1b	447	16471																.00	.00	.01	.17	.69	.11	.01																				
19	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44			
19	E3a	437	160								.12	.86	.01	.01																															
19	E3b	437	703							.00	.00	.98	.01	.00																															
19	G	437	298								.01	.03	.03	.93	.01																														
19	I	437	4033									.20	.19	.59	.01	.00																													
19	J2	437	570									.28	.45	.27	.01																														
19	R1a	437	1030									.99	.01																																
19	R1b	437	16471									.12	.85	.03																															
20	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44			
20	E3a	448	160														.01	.14	.80	.05																									
20	E3b	448	703						.00							.00	.09	.84	.06	.01																									
20	G	448	298														.01	.11	.73	.13	.01	.00																							
20	I	448	4033													.04	.07	.81	.08	.00																									
20	J2	448	570												.01	.01	.32	.33	.26	.07	.00																								
20	R1a	448	1030														.21	.77	.02																										
20	R1b	448	16471												.01	.16	.78	.05	.00																										
21	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44			
21	E3a	449	160																						.05	.11	.13	.07	.34	.10	.08	.07	.04	.01											
21	E3b	449	703																						.00	.05	.02	.05	.18	.35	.19	.13	.02	.00	.00	.00									
21	G	449	298																					.02	.06	.17	.13	.17	.28	.11	.04	.02													
21	I	449	4033																				.01	.08	.16	.34	.26	.10	.03	.01	.00														
21	J2	449	570																				.00	.00	.02	.13	.33	.21	.15	.10	.04	.02	.00	.00											
21	R1a	449	1030																								.01	.11	.31	.37	.16	.03	.02												
21	R1b	449	16471																					.00	.02	.11	.41	.32	.10	.03	.00														
22	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44			
22	E3a	464a	160						.01	.08	.63	.04	.08	.17																															
22	E3b	464a	703								.12	.59	.21	.07	.01																														
22	G	464a	298			.00			.03	.69	.26	.01																																	
22	I	464a	4033					.00	.29	.59	.03	.09	.00																																
22	J2	464a	570					.01	.08	.36	.44	.06	.03	.01																															
22	R1a	464a	1030						.03	.83	.06	.03	.06	.00																															
22	R1b	464a	16471							.00	.02	.15	.80	.02	.00																														
23	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44			
23	E3a	464b	160							.01	.13	.04	.19	.61	.01																														
23	E3b	464b	703								.01	.10	.21	.65	.03																														
23	G	464b	298						.01	.07	.69	.22	.00																																
23	I	464b	4033						.06	.07	.07	.70	.09	.01																															
23	J2	464b	570						.01	.06	.46	.18	.25	.04																															
23	R1a	464b	1030							.09	.02	.21	.67	.01																															
23	R1b	464b	16471								.01	.02	.71	.24	.02																														
24	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44			

	E3a	464c	160								.01	.01	.04	.81	.11	.01	.01																													
24	E3b	464c	703								.00	.01	.14	.60	.25	.00																														
24	G	464c	298							.03	.56	.30	.11																																	
24	I	464c	4033							.00	.01	.37	.53	.09	.00																															
24	J2	464c	570							.00	.05	.09	.52	.30	.04																															
24	R1a	464c	1030							.00		.13	.77	.09	.00																															
24	R1b	464c	16471									.00	.11	.39	.48	.02																														
25	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44					
25	E3a	464d	160								.01	.01	.01	.20	.25	.49	.04																													
25	E3b	464d	703									.01	.03	.17	.67	.12	.00	.00																												
25	G	464d	298								.16	.66	.16	.02	.00																															
25	I	464d	4033									.05	.47	.43	.04	.00																														
25	J2	464d	569						.00		.01	.01	.17	.46	.18	.14	.02																													
25	R1a	464d	1030									.01	.17	.64	.16	.01																														
25	R1b	464d	16469										.01	.08	.69	.20	.02	.00																												
26	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44					
26	E3a	460	116		.01		.01	.41	.55	.02																																					
26	E3b	460	406			.00	.44	.29	.24	.02																																				
26	G	460	193				.04	.72	.19	.06																																				
26	I	460	2588				.04	.59	.35	.02																																				
26	J2	460	362				.06	.64	.28	.02																																				
26	R1a	460	671					.13	.69	.18	.00																																			
26	R1b	460	10220				.00	.19	.74	.06	.00																																			
27	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44					
27	E3a	GATAH4	116			.01	.08	.42	.47	.03																																					
27	E3b	GATAH4	406		.00	.05	.04	.25	.55	.11	.00																																				
27	G	GATAH4	193				.02	.33	.62	.03																																				
27	I	GATAH4	2588				.15	.77	.07	.01																																				
27	J2	GATAH4	362			.01	.04	.69	.25	.01							.00																													
27	R1a	GATAH4	671				.00	.03	.51	.43	.03	.00					.00																													
27	R1b	GATAH4	10220				.00	.20	.71	.09	.00																																			
28	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44					
28	E3a	YCAIIa	116													.01	.93	.01	.05																											
28	E3b	YCAIIa	406												.00	.02	.92	.01	.03	.01																										
28	G	YCAIIa	193												.01	.01	.19	.79	.01																											
28	I	YCAIIa	2588						.02						.00	.02	.85	.02	.09																											
28	J2	YCAIIa	362													.01	.91	.02	.01	.04	.01																									
28	R1a	YCAIIa	671												.00	.00	.97	.00	.02		.01																									
28	R1b	YCAIIa	10220												.00	.02	.95	.01	.01	.00	.01																									
29	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44					
29	E3a	YCAIIb	116														.55	.02	.43																											
29	E3b	YCAIIb	406														.05	.03	.49	.43	.00	.00																								
29	G	YCAIIb	193												.01			.90	.10																											
29	I	YCAIIb	2588														.07	.02	.89	.02	.00																									
29	J2	YCAIIb	362								.00						.01	.21	.03	.65	.09	.01																								
29	R1a	YCAIIb	671											.00			.02	.02	.28	.06	.61	.02																								
29	R1b	YCAIIb	10220														.03	.00	.02	.09	.81	.06	.00																							
30	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44					
30	E3a	456	116									.10	.70	.17	.02	.01																														
30	E3b	456	406								.00	.05	.30	.36	.21	.06	.01																													
30	G	456	193									.04	.61	.25	.10	.01																														
30	I	456	2588								.04	.61	.24	.06	.04	.01	.00																													
30	J2	456	362							.02	.15	.10	.44	.22	.07	.01																														
30	R1a	456	671								.00	.05	.30	.43	.19	.03																														
30	R1b	456	10220									.02	.36	.40	.19	.02	.00																													
31	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44					
31	E3a	607	116							.09	.43	.48																																			
31	E3b	607	406						.05	.57	.36	.02																																			
31	G	607	193							.04	.66	.13	.11	.06																																
31	I	607	2588					.03	.01	.03	.07	.71	.13	.02	.00																															
31	J2	607	362					.00		.15	.20	.51	.13	.01	.00																															
31	R1a	607	671									.01	.17	.70	.12	.01																														
31	R1b	607	10220							.00	.01	.14	.70	.14	.01																															
32	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44					

	E3a	576	116									.03	.14	.51	.25	.07																													
32	E3b	576	406							.04	.00	.00	.03	.09	.39	.29	.11	.04	.00																										
32	G	576	193								.04	.12	.37	.20	.13	.06	.02	.06																											
32	I	576	2588							.00	.00	.00	.06	.39	.34	.14	.06	.01	.00																										
32	J2	576	362									.01	.16	.31	.21	.19	.09	.02	.01																										
32	R1a	576	671										.01	.03	.40	.35	.16	.05	.00																										
32	R1b	576	10220										.01	.06	.28	.42	.17	.05	.01																										

33	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
33	E3a	570	116									.04	.01	.06	.19	.14	.41	.13	.02	.01																							
33	E3b	570	406									.00	.01	.05	.05	.10	.23	.27	.11	.17	.02																						
33	G	570	193										.04	.10	.42	.34	.09	.01																									
33	I	570	2588										.00	.02	.07	.21	.28	.26	.11	.03	.01	.00																					
33	J2	570	362									.04	.06	.18	.41	.16	.11	.03	.00											.00													
33	R1a	570	671									.00		.02	.15	.36	.28	.14	.04	.01	.00												.00										
33	R1b	570	10220								.00	.00	.01	.14	.57	.20	.06	.01	.00																								

34	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
34	E3a	CDYa	116																							.01	.03	.02	.02	.11	.27	.18	.29	.06	.02								
34	E3b	CDYa	406																								.04	.16	.24	.16	.12	.12	.05	.05	.03	.03			.00				
34	G	CDYa	193																									.02	.02	.01	.07	.13	.25	.23	.15	.09	.04						
34	I	CDYa	2588																									.01	.04	.04	.12	.22	.32	.18	.05	.02	.00		.00	.00			
34	J2	CDYa	362																									.00	.01	.01	.10	.23	.23	.22	.11	.07	.02						
34	R1a	CDYa	671																									.00		.02	.22	.41	.24	.08	.02	.01	.00						
34	R1b	CDYa	10220																											.00	.01	.04	.14	.30	.29	.16	.04	.01					

35	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
35	E3a	CDYb	116																											.01	.10	.12	.38	.24	.09	.03	.02						
35	E3b	CDYb	406																											.01	.13	.29	.22	.12	.1	.04	.03	.03	.02	.00			
35	G	CDYb	193																										.02			.02	.09	.09	.22	.23	.19	.09	.03	.02			
35	I	CDYb	2588																												.01	.05	.14	.22	.25	.19	.08	.03	.02	.01			
35	J2	CDYb	362						.00																						.01	.03	.12	.18	.16	.23	.14	.09	.03	.02	.01		
35	R1a	CDYb	671									.00																.00			.00	.01	.04	.05	.15	.30	.27	.10	.06	.01	.00	.00	
35	R1b	CDYb	10220																													.00	.01	.07	.21	.31	.22	.12	.04	.01	.00		

36	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
36	E3a	442	116					.01	.76	.15	.09																															
36	E3b	442	406				.00	.05	.53	.27	.13	.02	.00																													
36	G	442	193					.02	.81	.17	.01																															
36	I	442	2588						.11	.76	.11	.01																														
36	J2	442	362				.02	.04	.47	.41	.05	.01																														
36	R1a	442	671						.06	.50	.22	.21	.02																													
36	R1b	442	10220					.00	.12	.74	.12	.01	.00																													

37	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
37	E3a	438	116					.03	.97	.01																																
37	E3b	438	406			.00		.98	.02																																	
37	G	438	193				.01	.93	.07																																	
37	I	438	2588			.00	.01	.98	.01																																	
37	J2	438	361		.00	.00	.97	.02	.00																																	
37	R1a	438	670				.00	.02	.95	.03																																
37	R1b	438	10216					.00	.02	.94	.03																															

38	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
38	E3a	531	32					.97	.03																																	
38	E3b	531	69					.94	.04	.01																																
38	G	531	35						.89	.11																																
38	I	531	522				.00	.00	.97	.02	.00																															
38	J2	531	96					.35	.64	.01																																
38	R1a	531	145						.85	.15																																
38	R1b	531	1866			.00	.00	.00	.92	.08	.00	.00																														

39	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
39	E3a	578	32			1.0																																				
39	E3b	578	69		.01	.94	.04																																			
39	G	578	35			1.0																																				
39	I	578	521		.00	.99	.01																																			
39	J2	578	96		.88	.13																																				
39	R1a	578	145			.98	.02																																			
39	R1b	578	1866		.00	.00	.97	.02																																		

40	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44

	E3a	395 1a	32										.09	.91																															
40	E3b	395 1a	69									.01	.99																																
40	G	395 1a	35										.89	.11																															
40	I	395 1a	521									.01	.89	.10	.00																														
40	J2	395 1a	96									.44	.56																																
40	R1a	395 1a	145										.01	.03	.96																														
40	R1b	395 1a	1866								.00	.00	.93	.07																															
41	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44			
41	E3a	395 1b	32											.94	.03	.03																													
41	E3b	395 1b	69										.90	.04	.06																														
41	G	395 1b	35										.09	.91																															
41	I	395 1b	521										.72	.24	.05																														
41	J2	395 1b	96									.06	.80	.01	.08	.04																													
41	R1a	395 1b	145												.99		.01																												
41	R1b	395 1b	1866										.01	.96	.03																														
42	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44			
42	E3a	590	32			.94	.06																																						
42	E3b	590	69		.29	.70	.01																																						
42	G	590	35			1.0																																							
42	I	590	521	.00	.04	.95	.01																																						
42	J2	590	96			.99	.01																																						
42	R1a	590	145			.98	.02																																						
42	R1b	590	1866	.00	.00	.99	.01																																						
43	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44			
43	E3a	537	32					.94	.06																																				
43	E3b	537	69					.20	.71	.09																																			
43	G	537	35					.06	.89	.06																																			
43	I	537	521			.00		.01	.84	.15																																			
43	J2	537	96					.01	.86	.13																																			
43	R1a	537	145						.28	.72																																			
43	R1b	537	1866				.01	.90	.09	.01																																			
44	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44			
44	E3a	641	32					.97	.03																																				
44	E3b	641	69				.01	.86	.13																																				
44	G	641	35					1.0																																					
44	I	641	521				.01	.95	.05																																				
44	J2	641	96	.03			.01	.93	.03																																				
44	R1a	641	145					.99	.01																																				
44	R1b	641	1866				.00	.98	.02																																				
45	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44			
45	E3a	472	32			1.0																																							
45	E3b	472	69			.97	.03																																						
45	G	472	35			1.0																																							
45	I	472	521			1.0	.00																																						
45	J2	472	96			1.0																																							
45	R1a	472	145			1.0																																							
45	R1b	472	1866			1.0																																							
46	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44			
46	E3a	406 1	32				.09	.78	.09	.03																																			
46	E3b	406 1	69				.01	.35	.12	.51	.01																																		
46	G	406 1	35					.09	.69	.17	.06																																		
46	I	406 1	521		.00	.02	.63	.18	.08	.07	.00	.01																																	
46	J2	406 1	96				.04	.28	.61	.04	.02																																		
46	R1a	406 1	145				.01	.03	.83	.12																																			
46	R1b	406 1	1866			.00	.02	.85	.11	.02	.00																																		
47	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44			
47	E3a	511	32				.06	.78	.16																																				
47	E3b	511	69				.06	.84	.10																																				
47	G	511	35				.03	.26	.60	.11																																			
47	I	511	521		.02	.01	.73	.21	.02																																				
47	J2	511	96				.70	.24	.06																																				
47	R1a	511	145				.02	.80	.17	.01																																			
47	R1b	511	1866				.03	.85	.12	.00																																			
48	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44			

	E3a	425	32						.03	.97																																			
48	E3b	425	69							1.0																																			
48	G	425	35							.14		.86																																	
48	I	425	521					.00	.00	.99	.00	.00		.00																															
48	J2	425	96							.97	.01	.02																																	
48	R1a	425	145							1.0																																			
48	R1b	425	1866						.00	1.0	.00																																		
49	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44			
49	E3a	413a	32															.91	.03	.03	.03																								
49	E3b	413a	69														.01	.10	.25	.17	.35	.12																							
49	G	413a	35															.09	.37	.54																									
49	I	413a	521									.00			.00		.02	.03	.24	.29	.36	.02	.04																						
49	J2	413a	96											.05	.74	.06		.02	.05	.05	.02																								
49	R1a	413a	145															.01	.04	.94																									
49	R1b	413a	1866										.00	.01			.00	.01	.14	.15	.68	.01	.00																						
50	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44			
50	E3a	413b	32															.16	.06	.72	.06																								
50	E3b	413b	69																.01	.23	.16	.58	.01																						
50	G	413b	35															.03		.89	.06	.03																							
50	I	413b	521												.00				.10	.22	.12	.14	.41	.01	.00																				
50	J2	413b	96												.72	.13		.01		.03	.10	.01																							
50	R1a	413b	145																	.92	.06	.01	.02																						
50	R1b	413b	1866																.01	.02	.89	.05	.03	.00																					
51	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44			
51	E3a	557	32											.06	.22	.56	.06	.06	.03																										
51	E3b	557	69										.01		.19	.49	.20	.09	.01																										
51	G	557	35									.91	.06	.03																															
51	I	557	521								.00	.04	.66	.22	.07	.00																													
51	J2	557	96							.01	.09	.31	.29	.22	.03	.04																													
51	R1a	557	145									.04	.68	.22	.06	.01																													
51	R1b	557	1866									.00	.09	.73	.16	.02	.00																												
52	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44			
52	E3a	594	32					.06	.91	.03																																			
52	E3b	594	69					.01	.94	.04																																			
52	G	594	35					.71	.29																																				
52	I	594	521				.00	.75	.22	.02																																			
52	J2	594	96			.01	.01	.58	.39	.01																																			
52	R1a	594	145					.46	.52	.03																																			
52	R1b	594	1866			.00	.00	.96	.03																																				
53	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44			
53	E3a	436	32					.03		.97																																			
53	E3b	436	69						.01	.97	.01																																		
53	G	436	35						.09	.91																																			
53	I	436	521						.00	.99	.00																																		
53	J2	436	96							.99	.01																																		
53	R1a	436	145							1.0																																			
53	R1b	436	1866					.00		.99	.00	.00																																	
54	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44			
54	E3a	490	32							.03	.91	.03	.03																																
54	E3b	490	69					.01		.80	.16	.03																																	
54	G	490	35							1.0																																			
54	I	490	521					.00		.95	.04	.01																																	
54	J2	490	96							.88	.13																																		
54	R1a	490	145				.02			.98																																			
54	R1b	490	1866					.01	.00	.97	.01	.00																																	
55	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44			
55	E3a	534	32					.09		.03	.03	.09	.44	.25	.06																														
55	E3b	534	69									.10	.17	.28	.26	.10	.07	.01																										
55	G	534	35								.06	.49	.20	.26																															
55	I	534	521							.03	.08	.07	.22	.36	.18	.04	.01																												
55	J2	534	96								.01	.11	.48	.26	.09	.04																													
55	R1a	534	145							.06	.78	.14	.01	.01																															
55	R1b	534	1866							.00	.01	.13	.51	.26	.08	.01	.00																												
56	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44			

	E3a	450	32		.97	.03																																							
56	E3b	450	69		.99	.01																																							
56	G	450	35			.89	.11																																						
56	I	450	521		.02	.80	.19	.00																																					
56	J2	450	96			.73	.27																																						
56	R1a	450	145			.99	.01																																						
56	R1b	450	1866	.01	.00	.97	.01	.00																																					
57	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44			
57	E3a	444	32						.03	.81	.16																																		
57	E3b	444	69						.23	.71	.06																																		
57	G	444	35						.09	.26	.46	.17	.03																																
57	I	444	521					.02	.02	.16	.60	.19	.02																																
57	J2	444	96					.01	.32	.29	.27	.09	.01																																
57	R1a	444	145							.10	.27	.59	.04																																
57	R1b	444	1866					.00	.11	.73	.14	.01	.00																																
58	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44			
58	E3a	481	32																	.03	.03	.06	.22	.19	.03	.41	.03																		
58	E3b	481	69															.04	.07	.41	.10	.07	.19	.09	.03																				
58	G	481	35														.09		.74	.11			.06																						
58	I	481	521																.01	.02	.04	.09	.40	.21	.15	.07	.01	.01	.01																
58	J2	481	96															.01	.18	.49	.23	.06	.02	.01																					
58	R1a	481	145																.02	.07	.70	.15	.05	.01																					
58	R1b	481	1866												.00	.00	.00	.01	.07	.6	.17	.06	.06	.01																					
59	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44			
59	E3a	520	32															.16	.09	.38	.38																								
59	E3b	520	69												.04	.72	.06	.12	.04	.01																								
59	G	520	35														.06	.03	.09	.8	.03																							
59	I	520	521													.01	.03	.78	.16	.02		.00																						
59	J2	520	96															.22	.59	.19																								
59	R1a	520	145															.02	.72	.23	.03																							
59	R1b	520	1866														.03	.85	.10	.02																								
60	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44			
60	E3a	446	32						.03	.09	.59	.09	.06	.09	.03																														
60	E3b	446	69						.01	.49	.28	.14	.06	.01																															
60	G	446	35							.03			.03	.14	.29	.31	.20																												
60	I	446	521			.00	.03	.05	.18	.06	.51	.15	.01	.00																															
60	J2	446	96						.06	.23	.35	.24	.09	.01		.01																													
60	R1a	446	145						.07	.78	.14	.01																																	
60	R1b	446	1866						.00	.06	.76	.15	.02	.00																															
61	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44			
61	E3a	617	32							.69	.31																																		
61	E3b	617	69						.06		.88	.06																																	
61	G	617	35							.63	.26	.11																																	
61	I	617	521						.01	.03	.85	.10	.00																																
61	J2	617	96						.03	.82	.15																																		
61	R1a	617	145							.99	.01																																		
61	R1b	617	1866					.01	.01	.91	.06	.01																																	
62	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44			
62	E3a	568	32						.06	.50	.41	.03																																	
62	E3b	568	69						.17	.80	.03																																		
62	G	568	35				.03	.03	.94																																				
62	I	568	521					.07	.74	.19	.01																																		
62	J2	568	96					.01	.99																																				
62	R1a	568	145					.01	.98	.01																																			
62	R1b	568	1866			.00		.02	.95	.02																																			
63	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44			
63	E3a	487	32							.09	.69	.19	.03																																
63	E3b	487	69								.03	.93	.04																																
63	G	487	35								.89	.11																																	
63	I	487	521							.72	.23	.04	.00																																
63	J2	487	96							.01	.56	.32	.10																																
63	R1a	487	145								.99		.01																																
63	R1b	487	1866							.01	.92	.05	.01	.00																															
64	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44			

	E3a	572	32				1.0																																					
64	E3b	572	69			.01		.25	.74																																			
64	G	572	35					.63	.37																																			
64	I	572	521				.01	.18	.79	.03																																		
64	J2	572	96				.01	.35	.58	.05																																		
64	R1a	572	145					.09	.86	.05																																		
64	R1b	572	1866					.08	.88	.04	.00																																	
65	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44		
65	E3a	640	32				.03		.97																																			
65	E3b	640	69						.68	.28	.04																																	
65	G	640	35						1.0																																			
65	I	640	521					.00	.78	.21	.00																																	
65	J2	640	96						.10	.77	.13																																	
65	R1a	640	145						.92	.08																																		
65	R1b	640	1866				.00	.00	.95	.05																																		
66	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44		
66	E3a	492	32						.97	.03																																		
66	E3b	492	69					.29	.70	.01																																		
66	G	492	35						.97		.03																																	
66	I	492	521						.02	.94	.03	.00																																
66	J2	492	96							.97	.02	.01																																
66	R1a	492	145							.88	.01	.12																																
66	R1b	492	1866						.01	.73	.24	.02																																
67	hg	locus	count	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44		
67	E3a	565	32						.03	.84	.13																																	
67	E3b	565	69						.97	.03																																		
67	G	565	35						.23	.77																																		
67	I	565	521				.02	.00	.96	.01	.00																																	
67	J2	565	96						.71	.26	.03																																	
67	R1a	565	145						.01	.52	.46																																	
	R1b	565	1866					.00	.10	.88	.02																																	

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