

## Unique R-U106x(L1, U198, L48) Haplotypes (YHRD allele set)

Ht #	Count	Frequency	R-U106x(L1,U198,L48)															
			393	390	19	391	385a	385b	439	389I	392	389II	458	437	448	GATA H4	456	438
44	2	0.0119	13	24	14	10	11	14	12	13	13	29	17	15	19	11	16	12
87	2	0.0119	13	24	14	11	11	14	12	13	13	29	19	15	19	11	16	12
106	2	0.0119	13	24	14	11	11	15	12	13	13	29	17	15	19	11	16	12
125	2	0.0119	13	24	15	11	11	14	12	13	13	29	17	15	19	11	15	12
1	1	0.0060	11	24	14	11	11	14	12	13	13	29	17	15	19	11	16	12
2	1	0.0060	12	23	14	10	11	14	11	13	13	29	17	15	19	11	16	12
3	1	0.0060	12	23	14	11	11	14	11	13	13	29	17	15	19	11	17	12
4	1	0.0060	12	23	14	11	11	14	12	13	13	29	16	15	19	11	16	12
5	1	0.0060	12	23	14	11	12	14	12	13	13	29	17	15	19	11	15	12
6	1	0.0060	12	24	14	10	11	14	13	13	13	29	17	15	19	11	16	12
7	1	0.0060	12	24	14	10	11	15	11	13	13	29	16	15	19	11	16	12
8	1	0.0060	12	24	14	11	11	13	11	13	13	29	16	15	19	11	14	12
9	1	0.0060	12	24	14	11	11	14	14	13	13	31	19	14	19	12	16	12
10	1	0.0060	12	24	14	11	11	16	13	13	13	29	18	15	19	11	15	12
11	1	0.0060	12	24	15	11	11	14	11	13	13	30	16	14	19	12	16	12
12	1	0.0060	13	23	14	10	11	14	11	13	13	29	16	15	19	11	16	12
13	1	0.0060	13	23	14	10	11	14	11	13	13	29	17	15	19	11	15	12
14	1	0.0060	13	23	14	10	11	14	12	13	13	29	18	14	19	11	16	12
15	1	0.0060	13	23	14	10	11	14	13	13	13	29	18	15	19	11	16	12
16	1	0.0060	13	23	14	10	12	14	12	13	13	31	18	15	19	10	16	14
17	1	0.0060	13	23	14	11	10	14	12	13	13	29	17	15	19	11	16	12
18	1	0.0060	13	23	14	11	11	13	12	13	13	29	17	15	19	11	17	12
19	1	0.0060	13	23	14	11	11	14	11	13	13	29	17	15	19	10	15	12
20	1	0.0060	13	23	14	11	11	14	12	13	13	28	16	15	19	12	16	12
21	1	0.0060	13	23	14	11	11	14	12	13	13	29	16	14	19	11	15	12
22	1	0.0060	13	23	14	11	11	14	12	13	13	29	16	14	19	11	16	12
23	1	0.0060	13	23	14	11	11	14	12	13	13	29	17	15	19	11	15	12
24	1	0.0060	13	23	14	11	11	14	12	13	13	29	19	15	19	10	17	11
25	1	0.0060	13	23	14	11	11	14	12	13	13	30	18	14	19	11	17	12
26	1	0.0060	13	23	14	11	11	15	11	13	13	29	17	15	19	11	16	12
27	1	0.0060	13	23	14	11	11	15	11	13	13	29	18	15	19	11	16	12
28	1	0.0060	13	23	14	11	11	15	12	13	13	29	17	15	20	11	16	12
29	1	0.0060	13	23	14	11	11	15	12	13	13	30	17	15	19	11	13	12
30	1	0.0060	13	23	14	11	11	16	12	13	13	29	18	15	19	11	15	12
31	1	0.0060	13	23	15	11	11	14	12	13	13	29	17	15	19	11	16	12
32	1	0.0060	13	24	13	10	10	14	13	13	13	29	16	15	19	11	14	12
33	1	0.0060	13	24	14	9	11	14	11	13	13	29	17	15	19	11	15	12
34	1	0.0060	13	24	14	10	11	13	11	13	13	28	20	15	19	11	16	12
35	1	0.0060	13	24	14	10	11	13	12	11	13	27	17	15	19	11	15	12
36	1	0.0060	13	24	14	10	11	13	12	13	13	29	17	15	19	11	14	12
37	1	0.0060	13	24	14	10	11	13	12	13	13	30	18	15	19	11	15	12
38	1	0.0060	13	24	14	10	11	14	11	13	13	30	19	14	19	11	16	12
39	1	0.0060	13	24	14	10	11	14	12	12	14	28	18	15	20	11	15	12
40	1	0.0060	13	24	14	10	11	14	12	13	13	28	19	15	19	11	16	12
41	1	0.0060	13	24	14	10	11	14	12	13	13	28	20	15	19	11	16	12
42	1	0.0060	13	24	14	10	11	14	12	13	13	29	16	15	19	11	16	12
43	1	0.0060	13	24	14	10	11	14	12	13	13	29	17	15	19	11	15	12
45	1	0.0060	13	24	14	10	11	14	12	13	13	29	17	15	19	11	17	11
46	1	0.0060	13	24	14	10	11	14	12	13	13	29	18	15	19	10	15	12
47	1	0.0060	13	24	14	10	11	14	12	13	13	30	19	16	19	11	16	12
48	1	0.0060	13	24	14	10	11	14	12	13	14	29	18	15	19	11	16	12
49	1	0.0060	13	24	14	10	11	14	12	14	13	30	18	15	19	10	15	12
50	1	0.0060	13	24	14	10	11	14	13	13	13	29	16	16	19	12	16	12
51	1	0.0060	13	24	14	10	11	14	13	13	13	29	17	15	19	11	16	12
52	1	0.0060	13	24	14	10	11	14	13	13	13	30	20	16	19	11	16	12
53	1	0.0060	13	24	14	10	11	15	11	13	13	29	17	15	19	11	15	12

## Unique R-U106x(L1, U198, L48) Haplotypes (YHRD allele set)

Ht #	Count	Frequency	R-U106x(L1,U198,L48)															
			393	390	19	391	385a	385b	439	389I	392	389II	458	437	448	GATA H4	456	438
54	1	0.0060	13	24	14	10	11	15	11	13	13	29	18	15	19	11	16	12
55	1	0.0060	13	24	14	10	11	15	12	13	13	29	18	15	19	11	15	12
56	1	0.0060	13	24	14	10	11	15	12	14	13	31	16	15	19	11	16	12
57	1	0.0060	13	24	14	10	11	15	13	13	13	29	17	15	20	10	15	12
58	1	0.0060	13	24	14	10	11	15	13	13	13	30	17	15	19	11	15	12
59	1	0.0060	13	24	14	10	11	15	13	13	14	29	18	15	19	11	15	12
60	1	0.0060	13	24	14	10	11	16	12	13	13	30	17	15	19	11	15	12
61	1	0.0060	13	24	14	10	12	12	12	11	13	27	18	15	19	11	15	12
62	1	0.0060	13	24	14	10	12	14	12	13	13	29	20	15	19	11	16	12
63	1	0.0060	13	24	14	10	12	14	12	14	13	30	18	15	19	11	17	12
64	1	0.0060	13	24	14	10	12	14	13	13	13	29	17	15	19	10	16	12
65	1	0.0060	13	24	14	11	10	14	12	14	13	30	16	14	19	10	16	12
66	1	0.0060	13	24	14	11	10	14	13	13	13	29	17	15	19	11	15	12
67	1	0.0060	13	24	14	11	10	14	13	14	13	30	16	14	19	11	16	12
68	1	0.0060	13	24	14	11	11	13	12	13	13	31	18	15	19	11	16	12
69	1	0.0060	13	24	14	11	11	14	11	12	14	29	18	15	19	11	16	12
70	1	0.0060	13	24	14	11	11	14	11	13	13	29	16	15	18	11	17	12
71	1	0.0060	13	24	14	11	11	14	11	13	13	29	17	15	19	11	17	12
72	1	0.0060	13	24	14	11	11	14	11	13	13	29	17	15	20	11	16	12
73	1	0.0060	13	24	14	11	11	14	11	13	13	29	18	15	19	11	16	12
74	1	0.0060	13	24	14	11	11	14	11	13	13	29	18	15	19	12	16	12
75	1	0.0060	13	24	14	11	11	14	11	13	13	30	16	14	19	11	16	12
76	1	0.0060	13	24	14	11	11	14	11	13	13	30	17	15	19	11	18	12
77	1	0.0060	13	24	14	11	11	14	11	14	13	31	18	14	19	11	15	12
78	1	0.0060	13	24	14	11	11	14	12	13	13	29	15	14	19	11	16	12
79	1	0.0060	13	24	14	11	11	14	12	13	13	29	16	14	19	11	15	12
80	1	0.0060	13	24	14	11	11	14	12	13	13	29	16	14	19	11	16	12
81	1	0.0060	13	24	14	11	11	14	12	13	13	29	17	14	19	11	16	12
82	1	0.0060	13	24	14	11	11	14	12	13	13	29	17	15	19	11	15	12
83	1	0.0060	13	24	14	11	11	14	12	13	13	29	17	15	19	11	17	12
84	1	0.0060	13	24	14	11	11	14	12	13	13	29	18	15	19	11	15	12
85	1	0.0060	13	24	14	11	11	14	12	13	13	29	19	15	18	10	16	12
86	1	0.0060	13	24	14	11	11	14	12	13	13	29	19	15	19	11	15	12
88	1	0.0060	13	24	14	11	11	14	12	13	13	30	15	15	19	11	15	12
89	1	0.0060	13	24	14	11	11	14	12	13	13	30	16	15	19	10	15	12
90	1	0.0060	13	24	14	11	11	14	12	13	13	30	16	15	19	11	16	14
91	1	0.0060	13	24	14	11	11	14	12	13	13	30	17	15	19	11	15	12
92	1	0.0060	13	24	14	11	11	14	12	13	13	30	17	15	19	11	17	12
93	1	0.0060	13	24	14	11	11	14	12	13	13	30	18	15	18	10	17	12
94	1	0.0060	13	24	14	11	11	14	12	13	16	29	18	15	20	11	15	12
95	1	0.0060	13	24	14	11	11	14	13	13	13	29	16	15	19	10	15	12
96	1	0.0060	13	24	14	11	11	14	13	13	13	29	16	16	19	12	16	12
97	1	0.0060	13	24	14	11	11	14	13	13	13	29	18	15	19	11	15	12
98	1	0.0060	13	24	14	11	11	14	13	13	13	29	18	15	19	11	16	12
99	1	0.0060	13	24	14	11	11	14	15	13	13	29	17	15	19	11	16	12
100	1	0.0060	13	24	14	11	11	15	11	13	13	29	16	17	19	10	16	12
101	1	0.0060	13	24	14	11	11	15	11	13	13	29	17	15	19	11	16	12
102	1	0.0060	13	24	14	11	11	15	11	13	13	29	18	16	19	11	17	12
103	1	0.0060	13	24	14	11	11	15	12	13	13	28	17	15	18	11	15	12
104	1	0.0060	13	24	14	11	11	15	12	13	13	29	16	15	19	11	15	12
105	1	0.0060	13	24	14	11	11	15	12	13	13	29	17	15	19	10	15	12
107	1	0.0060	13	24	14	11	11	15	12	13	13	29	18	15	19	11	15	12
108	1	0.0060	13	24	14	11	11	15	12	13	13	31	16	15	19	10	15	12
109	1	0.0060	13	24	14	11	11	15	12	14	13	31	18	15	19	11	16	12
110	1	0.0060	13	24	14	11	11	15	13	13	13	29	17	15	19	11	16	12
111	1	0.0060	13	24	14	11	11	15	13	14	13	30	18	15	19	11	15	12

## Unique R-U106x(L1, U198, L48) Haplotypes (YHRD allele set)

Ht #	Count	Frequency	R-U106x(L1,U198,L48)															
			393	390	19	391	385a	385b	439	389I	392	389II	458	437	448	GATA H4	456	438
112	1	0.0060	13	24	14	11	11	16	12	13	13	29	17	15	19	10	15	12
113	1	0.0060	13	24	14	11	12	14	12	13	13	29	16	14	19	11	15	12
114	1	0.0060	13	24	14	11	12	14	12	13	13	29	17	15	19	11	15	12
115	1	0.0060	13	24	14	11	12	14	12	13	13	29	19	15	19	11	16	12
116	1	0.0060	13	24	14	11	12	14	12	13	13	32	17	14	19	10	18	12
117	1	0.0060	13	24	14	11	12	14	12	13	14	29	18	15	20	11	15	12
118	1	0.0060	13	24	14	12	11	16	11	13	13	29	17	16	19	11	15	12
119	1	0.0060	13	24	15	10	11	14	11	14	13	30	16	15	19	10	16	12
120	1	0.0060	13	24	15	10	11	14	12	14	13	31	17	15	19	10	16	12
121	1	0.0060	13	24	15	10	11	15	12	13	12	29	16	15	19	10	15	12
122	1	0.0060	13	24	15	10	11	15	12	13	13	29	17	15	19	10	16	12
123	1	0.0060	13	24	15	11	11	14	11	13	13	30	17	15	19	11	16	12
124	1	0.0060	13	24	15	11	11	14	11	14	13	30	18	15	20	12	15	12
126	1	0.0060	13	24	15	11	11	14	13	13	13	28	17	16	19	11	16	12
127	1	0.0060	13	24	15	11	11	15	11	13	13	29	17	15	19	11	15	12
128	1	0.0060	13	24	15	11	11	15	12	13	13	29	17	15	19	11	16	12
129	1	0.0060	13	24	15	11	11	16	12	13	13	29	17	14	19	11	17	12
130	1	0.0060	13	24	15	11	12	14	12	13	13	29	17	15	20	11	16	12
131	1	0.0060	13	24	16	11	11	14	13	13	13	28	17	15	19	11	15	12
132	1	0.0060	13	25	13	10	11	14	12	13	13	31	17	15	19	11	15	12
133	1	0.0060	13	25	14	10	11	14	11	15	12	32	17	14	19	11	16	12
134	1	0.0060	13	25	14	10	11	14	12	14	13	29	16	15	19	11	16	12
135	1	0.0060	13	25	14	10	11	14	12	14	13	30	18	15	19	10	16	11
136	1	0.0060	13	25	14	10	11	14	13	12	14	28	17	15	18	11	16	13
137	1	0.0060	13	25	14	10	11	14	13	13	14	29	16	15	19	11	17	12
138	1	0.0060	13	25	14	10	11	14	13	13	14	29	17	15	19	10	16	12
139	1	0.0060	13	25	14	10	11	15	12	13	13	29	17	15	19	11	15	12
140	1	0.0060	13	25	14	10	11	16	12	13	13	29	17	15	19	11	15	12
141	1	0.0060	13	25	14	10	12	14	11	13	13	29	17	14	19	11	17	11
142	1	0.0060	13	25	14	11	10	12	13	13	13	30	18	15	19	11	16	12
143	1	0.0060	13	25	14	11	11	11	12	13	13	29	17	15	19	11	15	12
144	1	0.0060	13	25	14	11	11	11	12	13	13	30	16	15	19	11	16	12
145	1	0.0060	13	25	14	11	11	13	12	13	13	30	16	15	19	11	16	12
146	1	0.0060	13	25	14	11	11	14	12	13	13	29	14	15	19	10	18	11
147	1	0.0060	13	25	14	11	11	14	12	13	13	29	17	15	19	10	16	12
148	1	0.0060	13	25	14	11	11	14	12	13	13	29	17	15	19	11	16	12
149	1	0.0060	13	25	14	11	11	14	12	13	13	29	19	15	19	11	16	12
150	1	0.0060	13	25	14	11	11	15	11	13	13	29	17	15	19	11	16	12
151	1	0.0060	13	25	14	11	11	15	12	12	13	28	18	15	19	10	15	12
152	1	0.0060	13	25	14	11	11	15	12	13	13	29	17	15	19	10	15	12
153	1	0.0060	13	25	14	11	12	14	12	13	13	30	17	15	19	11	16	12
154	1	0.0060	13	26	14	11	11	12	12	14	13	31	16	15	19	10	16	12
155	1	0.0060	13	26	14	11	11	14	12	13	13	29	18	15	19	11	16	12
156	1	0.0060	13	26	15	11	11	14	12	13	13	29	17	14	19	11	17	12
157	1	0.0060	14	24	14	10	11	14	11	13	13	30	17	14	19	10	16	12
158	1	0.0060	14	24	14	10	11	14	12	11	13	26	17	15	19	11	15	12
159	1	0.0060	14	24	14	10	12	15	12	14	13	31	17	14	19	11	16	12
160	1	0.0060	14	24	14	11	11	14	12	13	13	29	18	14	19	11	15	12
161	1	0.0060	14	24	15	10	11	15	12	13	13	29	16	15	19	11	15	12
162	1	0.0060	14	25	14	10	11	14	12	13	13	30	18	15	19	11	16	11
163	1	0.0060	14	25	14	11	11	14	12	13	14	30	17	15	19	10	17	11
164	1	0.0060	15	25	14	10	11	14	12	13	13	29	19	15	19	11	15	11

168