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Skin barrier dysfunction in common genetic disorders

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Huijia Chen

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APPENDIX II

SNPS GENOTYPED WITH THE SEQUENOM[®] AND INFINIUM[™] PLATFORMS

Appendix II Table 1

Complete list of SNPs that satisfy the Hardy-Weinberg equilibrium

(HWE) along the EDC and their p-values in Sequenom®

genotyping.

SNP #	SNP ID	Chromosomal Location	Annotated gene region (if any)	Alleles	p-value
1	rs1131471	150346613	TCHH exon	A/C	1
2	rs12729461	150347514	TCHH exon	T/A	1
3	rs2496253	150348545	TCHH exon	G/C	0.490976108
4	rs11803731	150349949	TCHH exon	A/T	0.339782051
5	rs3134814	150351608	TCH exon	G/C	0.687095984
6	rs3001978	150393091	RPTN 3'UTR	T/C	0.760889071
7	rs28441202	150395487	RPTN exon	A/G	0.273108406
8	rs16833854	150397507	RPTN intron	C/T	1
9	rs10494274	150399494	RPTN upstream	C/G	0.304130733
10	rs11582331	150400760	RPTN upstream	C/T	0.099535376
11	rs4845418	150402854	RPTN upstream	G/C	0.303491188
12	rs1353435	150406264	-	T/C	0.950590791
13	rs4579760	150408298	-	A/G	0.266393466
14	rs924087	150408546	-	G/A	0.701003305
15	rs924088	150408711	-	A/G	0.914604052
16	rs16833865	150409942	-	T/C	1
17	rs969359	150410884	-	G/A	0.435518011
18	rs16833867	150412285	-	T/C	0.967812551
19	rs11204928	150412922	-	C/A	0.306889382
20	rs1603343	150415669	-	A/G	1
21	rs16833876	150418953	-	T/G	1
22	rs5777799	150420279	-	-/C	1
23	rs12093184	150424343	-	C/T	0.098861426
24	rs12082805	150424570	-	G/A	1
25	rs12093512	150425105	-	C/T	1
26	rs10749668	150427061	-	G/T	0.914054947
27	rs1390490	150427978	-	T/C	0.496497111
28	rs1496050	150430173	-	T/C	0.986685642
29	rs1496051	150431547	-	G/A	0.867669106
30	rs10888466	150432847	-	G/T	0.710223034
31	rs1552996	150437728	-	G/T	0.995946245
32	rs1353436	150439282	-	C/T	0.77370533
33	rs12733173	150440596	-	C/T	0.582197793
34	rs4845736	150442175	-	G/A	0.592427284
35	rs878649	150443710	-	A/G	1
36	rs868303	150445187	-	C/A	0.836559329
37	rs2291770	150446416	HRNR downstream	C/G	0.611872345
38	rs4415568	150447831	HRNR downstream	G/A	0.961592389
39	rs4845745	150451808	-	C/T	0.451181207

40	rs4845747	150453390	HRNR exon	G/A	0.350115666
41	rs11204937	150460475	HRNR exon	C/T	0.797857974
42	rs16833896	150462826	HRNR intron	G/A	0.325546101
43	rs4845750	150467841	HRNR upstream	T/C	0.818911453
44	rs12748455	150536785	FLG downstream	C/T	0.195292602
45	rs13374059	150538367	FLG downstream	A/C	1
46	rs2184951	150539792	FLG downstream	T/G	0.889317821
47	rs12730241	150540640	FLG downstream	G/A	1
48	rs12071181	150541621	FLG 3'UTR	G/A	1
49	rs3126074	150546465	FLG exon	G/C	1
50	rs12405278	150548891	FLG exon	G/A	0.902472768
51	rs2184952	150551273	FLG exon	C/T	0.176126764
52	rs2786673	150557276	FLG regulatory region	A/T	1
53	rs2786677	150559011	FLG intron	G/C	1
54	rs11204980	150562815	FLG intron	G/C	0.753728951
55	rs6587666	150563487	FLG intron	C/T	0.883815299
56	rs12736623	150590203	FLG2 exon	T/G	0.304233136
57	rs16833974	150593140	FLG2 exon	T/C	0.177354146
58	rs16842865	150594719	FLG2 exon	C/T	0.738237535
59	rs2282303	150596059	FLG2 exon	C/T	0.501314359
60	rs3818831	150597864	FLG2 exon	G/A	0.526776781
61	rs2275264	150598157	FLG2 intron	T/G	0.31455596
62	rs3829868	150648744	CRNN exon	C/T	0.994568059
63	rs1923493	150650827	CRNN intron	T/G	0.855925389
64	rs6587670	150652813	CRNN intron	T/A	1
65	rs726865	150666679	-	C/T	0.534751725
66	rs726863	150666985	-	G/A	0.461747182
67	rs4845768	150682097	-	C/T	0.143210511
68	rs4845774	150712245	-	T/C	0.102783747
69	rs525960	150764490	-	A/T	0.776961845
70	rs1359516	150879358	-	T/C	0.932858877
71	rs3908717	150938537	LCE2A 3'UTR	C/G	0.544514497
72	rs4845485	151032863	LCE1D upstream	G/T	0.706897048
73	rs12023196	151050348	LCE1C upstream	T/C	0.834457892
74	rs4845325	151065184	LCE1A intron	G/A	0.082228953
75	rs2339396	151108924	-	G/A	0.160429361
76	rs11205128	151110766	-	G/A	0.010931953
77	rs3737861	151117562	SMCP intron	T/G	0.12329454
78	rs16834751	151147835	IVL intron	A/C	0.007530208
79	rs11205132	151148759	IVL intron	A/G	0.141076379
80	rs2229496	151149234	IVL exon	A/G	0.04050263
81	rs913996	151150735	IVL 3'UTR	C/T	0.001573678
82	rs6661932	151163358	-	T/C	0.007124993
83	rs4845497	151170786	-	T/C	0.021996809
84	rs4845501	151204025	-	A/G	0.057969113
85	rs883810	151207969	SPRR4 upstream	A/G	0.443816421
86	rs3170863	151211218	SPRR4 exon	C/T	0.101990099
87	rs16834838	151219544	SPRR1A upstream	G/A	0.371750848
88	rs1611769	151224790	SPRR1A 3'UTR	G/A	1
89	rs1129654	151224862	SPRR1A 3'UTR	T/C	0.157252306

90	rs6671524	151240871	SPRR3 5'UTR	C/G	0.896392369
91	rs1055935	151242565	SPRR3 exon	G/C	0.249329059
92	rs391534	151295607	SPRR2D intron	A/G	1
93	rs447187	151296585	SPRR2D intron	G/A	0.217902643
94	rs12043009	151500919	LOR exon	G/A	0.625085873

Appendix II Table 2.

Complete list of SNPs along the EDC and their *P* values in Infinium™ genotyping.

SNP #	SNP ID	Chromosomal location	Gene annotation (if any)	Alleles	p-value
1	rs7007	150002200	MRPL9 exon, OAZ3 5'UTR	A/G	0.167
2	rs12066445	150007044	MRPL upstream, OAZ3 intron, TDRKH downstream	G/A	0.1146
3	rs1123855	150013667	OAZ3 downstream, TDRKH intron	C/T	0.7341
4	rs1781421	150014357	OAZ3 downstream, TDRKH intron	G/A	0.7555
5	rs11204885	150014594	OAZ3 downstream, TDRKH exon	A/G	0.3582
6	rs4845579	150036762	LRRN6D downstream	T/C	0.4577
7	rs9826	150045523	LRRN6D downstream	A/G	0.5094
8	rs3828057	150046801	LRRN6D intron	C/T	0.7003
9	rs12045886	150048714	LRRN6D intron	T/C	0.08374
10	rs1521177	150048754	LRRN6D intron	C/A	0.3348
11	rs3790515	150052996	LRRN6D intron	C/T	0.1339
12	rs7540530	150057482	LRRN6D intron	G/A	0.8297
13	rs949969	150059438	LRRN6D intron	C/T	0.8467
14	rs11204894	150059798	LRRN6D intron	G/T	0.3029
15	rs4845604	150068304	LRRN6D upstream	G/A	0.6985
16	rs4845606	150068575	LRRN6D upstream	G/A	0.1424
17	rs3811418	150071673	LRRN6D upstream	A/G	0.05135
18	rs9645406	150083696	THEM5 downstream	T/C	0.01489
19	rs998454	150084622	THEM5 downstream	A/G	0.6502
20	rs6587625	150086948	THEM5 exon	T/C	0.8183
21	rs4845624	150094437	THEM5 upstream	G/A	0.5562
22	rs2879130	150096722	THEM5 upstream	C/T	0.692
23	rs6587626	150102061	-	A/C	0.4776
24	rs7529451	150103448	-	G/A	0.6561
25	rs13320	150113141	THEM4 3'UTR	G/A	0.6543
26	rs6587628	150116696	THEM4 intron	A/G	0.7076
27	rs11204910	150138100	THEM4 intron	A/G	0.2581
28	rs1873312	150142991	THEM4 intron	G/T	0.5935
29	rs10788819	150161717	-	C/T	0.4534
30	rs3007711	150164001	-	G/T	0.7626
31	rs3007685	150164661	-	T/G	0.7626
32	rs10494270	150173797	-	T/C	0.5362
33	rs16828436	150185970	-	T/C	0.6136
34	rs971887	150210121	-	C/T	0.946
35	rs3007704	150218699	S100A10 downstream	C/T	0.8847
36	rs6587640	150221854	S100A10 downstream	C/T	0.9533
37	rs3007708	150234460	S100A10 upstream	G/T	0.9289

38	rs2999531	150238121	S100A10 upstream	C/T	0.8233
39	rs2999534	150242694	-	C/T	0.7834
40	rs6587641	150244663	-	G/A	0.8955
41	rs2999535	150244911	-	G/A	0.8955
42	rs2932574	150248644	-	T/C	0.8294
43	rs3007671	150265971	-	G/T	0.9493
44	rs3122300	150279010	S100A11 upstream	G/A	0.9705
45	rs6680866	150289613	-	A/G	0.4344
46	rs3007684	150301054	-	G/T	0.2062
47	rs1496037	150329374	TCHHL1 upstream	A/G	0.8905
48	rs6656899	150337096	-	A/G	0.5173
49	rs9050	150345938	TCHH 3'UTR	G/T	0.9086
50	rs1131471	150346613	TCHH exon	A/C	0.2185
51	rs11588437	150373477	-	A/C	0.1892
52	rs1496036	150406640	RPTN intron	G/A	0.193
53	rs924088	150408711	RPTN intron	A/G	0.5206
54	rs16833867	150412285	RPTN intron	T/C	0.6643
55	rs6667458	150413929	RPTN intron	C/A	0.2855
56	rs1496042	150426397	RPTN intron	G/A	0.8645
57	rs10749668	150427061	RPTN intron	G/T	0.6922
58	rs10788826	150428359	RPTN intron	C/T	0.5289
59	rs12130219	150428730	RPTN intron	A/G	0.921
60	rs4845733	150429192	RPTN intron	T/C	0.4045
61	rs11590365	150432113	RPTN intron	C/A	0.627
62	rs1552991	150432502	RPTN intron	C/T	0.4726
63	rs10888470	150467096	RPTN upstream	T/C	0.8039
64	rs17596572	150479736	-	C/T	0.735
65	rs12030667	150486303	-	G/A	0.9218
66	rs11204949	150486421	-	A/C	0.8307
67	rs10888473	150486859	-	G/A	0.765
68	rs12043679	150498050	-	C/A	0.8913
69	rs12728907	150513395	-	A/C	0.8597
70	rs11204971	150525702	-	A/G	0.8321
71	rs11582620	150552750	FLG exon	A/G	0.9458
72	rs3126085	150567441	FLG upstream	G/A	0.7487
73	rs2065954	150587968	FLG2 3'UTR	T/G	0.2209
74	rs3818831	150597864	FLG2 exon	G/A	0.446
75	rs11204988	150610517	-	T/C	0.4606
76	rs12407319	150632553	-	T/C	0.4799
77	rs7515448	150638659	ENSG00000183586 upstream	A/G	0.4314
78	rs3829868	150648744	CRNN exon	C/T	0.4524
79	rs7521839	150651383	CRNN intron	A/G	0.5455
80	rs4845763	150654762	CRNN upstream	C/T	0.3937
81	rs2146121	150659887	-	C/A	0.4933
82	rs726865	150666679	-	C/T	0.4923
83	rs10888488	150677714	-	T/C	0.5759

84	rs11579266	150678437	-	G/A	0.7931
85	rs6587673	150696776	-	G/A	0.802
86	rs4845771	150697304	-	C/T	0.3739
87	rs6696556	150697466	-	G/T	0.9128
88	rs12089980	150698555	-	C/T	0.6532
89	rs16834090	150699528	-	A/G	0.3131
90	rs6700998	150700633	-	T/G	0.7041
91	rs2146115	150710119	-	A/G	0.1062
92	rs16834145	150739259	-	T/G	0.1088
93	rs4845779	150745800	LCE5A upstream	T/C	0.7026
94	rs7552220	150746340	LCE5A upstream	T/C	0.06317
95	rs2105117	150750753	LCE5A exon, C1orf42 upstream	C/T	0.3672
96	rs3753451	150751851	LCE5A downstream, C1orf42 upstream	A/C	0.4049
97	rs1053590	150755052	LCE5A downstream, C1orf42 upstream	T/C	0.4351
98	rs499697	150759778	C1orf42 downstream	C/T	0.6174
99	rs12116609	150764309	-	C/T	0.3655
100	rs6662637	150776972	-	G/A	0.921
101	rs4240887	150797134	-	A/G	0.3203
102	rs4845790	150803384	LCE3E downstream	C/T	0.7918
103	rs4845791	150803408	LCE3E downstream	G/A	0.3078
104	rs4845792	150803779	LCE3E downstream	T/G	0.7493
105	rs17659389	150806017	LCE3E upstream	G/A	0.7057
106	rs7516108	150808853	LCE3E upstream	T/C	0.2321
107	rs12046030	150813513	LCE3D downstream	C/A	0.7077
108	rs4845445	150815104	LCE3D downstream	C/T	0.1132
109	rs16834214	150815530	LCE3D downstream	T/C	0.7163
110	rs4085613	150816642	LCE3D downstream	A/C	0.1289
111	rs4112788	150817900	LCE3D downstream	T/C	0.1379
112	rs11810844	150819989	LCE3D downstream	C/T	0.5055
113	rs1886734	150857766	LCE3B downstream, LCE3A downstream	T/G	0.1734
114	rs4845454	150858808	LCE3A downstream	C/T	0.1859
115	rs1011297	150864572	LCE3A upstream	T/C	0.04583
116	rs1325508	150879534	-	A/G	0.06001
117	rs1325507	150885888	-	C/T	0.0646
118	rs908929	150891546	O14635_HUMAN upstream	A/G	0.07354
119	rs1332497	150899057	O14635_HUMAN downstream, LCE2D upstream	T/C	0.08191
120	rs11205062	150901825	LCE2D upstream	G/A	0.08142
121	rs17661905	150938629	LCE2A downstream	T/C	0.8584
122	rs7543194	150940844	LCE2A downstream	T/C	0.06282
123	rs1412541	150944839	LCE4A upstream	G/A	0.8584
124	rs2224986	150951490	LCE4A downstream	G/A	0.1107
125	rs12754243	150951649	LCE4A downstream	C/T	0.7568
126	rs1332498	150957072	C1orf68 upstream	T/C	0.727
127	rs16834366	150957171	C1orf68 upstream	A/G	0.7255
128	rs873775	150959096	C1orf68 exon	T/G	0.727
129	rs1332506	150990677	-	T/C	0.8736
130	rs11578927	150995096	C1orf45 upstream	A/C	0.959
131	rs2297487	151001014	C1orf45 3'UTR	C/T	0.8497

132	rs1591077	151001420	C1orf45 downstream	G/A	0.6726
133	rs11205102	151013750	LCE1F upstream	A/G	0.6485
134	rs913998	151016515	LCE1F downstream	C/A	0.9748
135	rs1034109	151026302	LCE1E intron	C/T	0.7844
136	rs12568028	151038461	LCE1D downstream	T/G	0.8939
137	rs6701216	151045150	LCE1C intron	C/T	0.5085
138	rs7524281	151049879	LCE1C upstream, LCE1B upstream	C/A	0.136
139	rs12023196	151050348	LCE1C upstream, LCE1B upstream	T/C	0.5604
140	rs7517755	151063073	LCE1A upstream	T/C	0.8482
141	rs11205114	151068040	LCE1A upstream	C/A	0.9529
142	rs12565568	151090004	-	A/C	0.3526
143	rs2339398	151109722	-	C/T	0.1486
144	rs3737861	151117562	SMCP intron	T/G	0.3256
145	rs16834728	151119761	SMCP intron	T/C	0.3601
146	rs3856026	151136387	-	A/G	0.2838
147	rs11583382	151140720	-	G/A	0.1853
148	rs1854779	151147296	IVL upstream	A/G	0.09177
149	rs2879485	151152537	IVL downstream	G/A	0.0309
150	rs4845496	151154802	IVL downstream	A/G	0.1323
151	rs11586313	151157094	-	G/A	0.0667
152	rs6663448	151161251	-	G/A	0.6183
153	rs756303	151174846	-	G/A	0.1149
154	rs11576457	151185180	-	T/C	0.5569
155	rs2050673	151190322	-	C/T	0.1521
156	rs6690549	151197050	-	C/T	0.06874
157	rs4845501	151204025	-	A/G	0.07371
158	rs12564527	151207933	SPRR4 upstream	G/T	0.0999
159	rs3170863	151211218	SPRR4 exon	C/T	0.09961
160	rs10494289	151212564	SPRR4 downstream	A/G	0.06553
161	rs1611753	151223005	SPRR1A upstream	C/T	0.12
162	rs1611760	151224197	SPRR1A intron	T/C	0.12
163	rs1413849	151236857	SPRR3 upstream	C/A	0.1137
164	rs1415961	151240088	SPRR3 upstream	C/T	0.1243
165	rs2339491	151251946	-	T/C	0.1229
166	rs4363385	151255945	-	T/C	0.106
167	rs10888524	151266749	SPRR1B upstream	A/G	0.06152
168	rs10888527	151267987	SPRR1B upstream	A/C	0.2454
169	rs12046394	151291258	SPRR2D intron, SPRR2A downstream	C/A	0.4446
170	rs582345	151300030	SPRR2D intron, SPRR2A downstream	C/T	0.1072
171	rs310098	151304087	SPRR2D intron	C/T	0.3531
172	rs6673356	151308527	SPRR2D intron	A/G	0.4264
173	rs6693927	151310633	SPRR2D intron	G/A	0.4084
174	rs6686526	151311620	SPRR2D intron	T/C	0.1471
175	rs3843257	151331911	SPRR2D intron, SPRR2E downstream	T/G	0.06596
176	rs310131	151340842	SPRR2D intron, SPRR2E intron	A/C	0.9682
177	rs1500941	151354285	SPRR2D upstream	A/G	0.007578
178	rs428913	151368112	-	C/T	0.01282
179	rs904949	151370396	-	G/A	0.1443
180	rs533437	151386593	SPRR2C intron	A/G	0.02588
181	rs509194	151388795	SPRR2C intron	C/T	0.006201
182	rs11585767	151408952	-	C/T	0.06663

183	rs530590	151418246	-	A/C	0.2484
184	rs943139	151430001	-	T/C	0.4615
185	rs1831238	151436146	-	G/A	0.7663
186	rs10494290	151436941	-	A/G	0.2869
187	rs11576296	151442990	LELP1 intron	G/A	0.976
188	rs16835054	151446066	LELP1 downstream	A/G	0.06635
189	rs12145115	151446547	LELP1 downstream	G/A	0.6501
190	rs12116563	151447986	LELP1 downstream	G/A	0.9996
191	rs1410858	151448740	LELP1 downstream	C/A	0.8158
192	rs10494291	151448915	LELP1 downstream	G/T	0.04256
193	rs1980909	151449951	-	A/C	0.8265
194	rs10494292	151450469	-	T/G	0.001465
195	rs10788861	151452018	PRR9 upstream	C/A	0.004953
196	rs7519359	151455126	PRR9 upstream	C/T	0.2105
197	rs1410859	151456561	PRR9 upstream	G/A	0.01235
198	rs1410860	151456602	PRR9 upstream	A/G	0.006809
199	rs12127862	151464064	-	G/A	0.003931
200	rs737301	151467432	-	A/G	0.7966
201	rs737302	151467463	-	A/G	0.8036
202	rs12081567	151467611	-	C/T	0.4116
203	rs7525704	151472045	-	T/C	0.686
204	rs1410863	151473898	-	G/A	0.7033
205	rs10888541	151476212	-	A/G	0.04513
206	rs4845342	151477432	-	C/A	0.04937
207	rs12128109	151479292	-	G/A	0.6711
208	rs7523883	151481491	-	C/T	0.3291
209	rs1926234	151484601	-	A/G	0.753
210	rs7518712	151492510	-	G/A	0.9529
211	rs873234	151493801	LOR upstream	G/A	0.3289
212	rs943967	151498500	LOR upstream	A/G	0.2821
213	rs4559442	151502848	LOR downstream	C/T	0.3382
214	rs12408942	151508301	-	T/G	0.9366
215	rs821405	151511706	-	T/C	0.7195
216	rs10888548	151512249	-	T/G	0.9644
217	rs10888549	151515696	-	A/G	0.5646
218	rs2916238	151527335	-	C/T	0.5646
219	rs6587735	151532151	PGLYRP3 downstream	G/A	0.5039
220	rs821427	151542601	PGLYRP3 intron	G/A	0.2221
221	rs843971	151544047	PGLYRP3 exon	G/A	0.4594
222	rs821426	151548696	PGLYRP3 intron	G/T	0.8892
223	rs821418	151551047	PGLYRP3 upstream	T/C	0.5617
224	rs2916229	151561277	-	A/G	0.8836
225	rs957195	151565998	PGLYRP4 downstream	T/C	0.8189
226	rs2987769	151573391	PGLYRP4 intron	A/G	0.7546
227	rs821433	151576921	PGLYRP4 intron	C/T	0.6484
228	rs1754134	151577371	PGLYRP4 intron	C/T	0.6031
229	rs2771122	151579268	PGLYRP4 intron	A/G	0.588
230	rs3006448	151580777	PGLYRP4 exon	C/A	0.6408
231	rs2196081	151582633	PGLYRP4 intron	C/T	0.8222
232	rs3014864	151588208	PGLYRP4 upstream	G/T	0.6512
233	rs11205275	151591780	PGLYRP4 upstream	G/A	0.4597
234	rs12027903	151594380	S100A9 upstream	G/T	0.6698
235	rs3014866	151595695	S100A9 upstream	T/C	0.09566
236	rs12119788	151596802	S100A9 upstream	G/A	0.09458

237	rs1560832	151602008	S100A9 downstream	C/T	0.515
238	rs3014875	151605375	-	G/A	0.2388
239	rs3014878	151609802	S100A12 downstream	C/T	0.627
240	rs3006475	151611260	S100A12 downstream	A/C	0.5873
241	rs3006488	151629131	S100A8 downstream	A/G	0.6358
242	rs12047833	151643610	-	T/C	0.6862
243	rs3014824	151668212	Q5M770_HUMAN upstream	A/G	0.09085
244	rs3006423	151668288	Q5M770_HUMAN upstream	T/C	0.7587
245	rs10888560	151673185	S100A7L2 downstream	G/A	0.8248
246	rs2026604	151675455	S100A7L2 downstream	A/G	0.1812
247	rs2148713	151682660	S100A7L2 upstream	C/T	0.283
248	rs11205297	151700320	S100A7 upstream	T/C	0.8825
249	rs2986210	151708980	-	G/A	0.1902
250	rs3014843	151712798	-	G/T	0.1517
251	rs1555885	151719455	-	T/C	0.2958
252	rs12025638	151722973	-	G/A	0.633
253	rs4845552	151746622	-	G/A	0.1469
254	rs3795393	151776514	S100A6 upstream, S100A5 exon	T/C	0.9594
255	rs2274739	151878757	C1orf77 intron	C/T	0.335
256	rs913861	151888844	C1orf77 downstream	G/A	0.359
257	rs3806234	151897695	SNAPAP upstream, ILF2 downstream	G/A	0.3239
258	rs7536700	151907451	ILF2 intron	C/T	0.16
259	rs11265625	151909533	ILF2 upstream	A/G	0.3234
260	rs11264236	151925104	NPR1 intron	G/A	0.8891
261	rs7541193	151938871	-	G/T	0.718
262	rs7550138	151956637	-	T/G	0.7076
263	rs6698058	151969637	INTS3 intron	C/T	0.7153
264	rs6427183	151973323	INTS3 intron	T/G	0.767
265	rs12041194	151980876	INTS3 intron	G/A	0.6789
266	rs9426891	151981042	INTS3 intron	C/T	0.6266
267	rs6427268	151987314	INTS3 intron	G/A	0.7759