

MUT	HaplotypeID	Frequency	P-value ( $\chi^2$ )
<b>Block 2</b>			
CAAAAACGC	B2_H1	0.284	8.80 X 10 <sup>-1</sup>
CAAAAACGT	B2_H2	0.002	6.12 X 10 <sup>-1</sup>
CAAAAGCGC	B2_H3	0.001	1.87 X 10 <sup>-1</sup>
CAAAAACGC	B2_H4	0.046	1.10 X 10 <sup>-1</sup>
CCAAAGCGC	B2_H5	0.023	4.79 X 10 <sup>-1</sup>
CCAAAGTGC	B2_H6	0.077	8.97 X 10 <sup>-2</sup>
CCAAGACGC	B2_H7	0.043	6.66 X 10 <sup>-2</sup>
CCAAGACGT	B2_H8	0.089	5.86 X 10 <sup>-2</sup>
CCAAGGTGC	B2_H9	0.001	5.72 X 10 <sup>-1</sup>
TCGGGACGC	B2_H10	0.001	5.50 X 10 <sup>-1</sup>
CCGAGACGC	B2_H11	0.052	1.63 X 10 <sup>-1</sup>
CCGGGACGC	B2_H12	0.128	6.60 X 10 <sup>-3</sup>
TCGAGACGC	B2_H13	0.216	1.50 X 10 <sup>-1</sup>
TCGAGACGT	B2_H14	0.002	4.75 X 10 <sup>-1</sup>
TCGAGACAC	B2_H15	0.028	9.64 X 10 <sup>-1</sup>
TCGAGGCGC	B2_H16	0.005	9.68 X 10 <sup>-1</sup>
<b>Block 3</b>			
CACTTCAC	B3_H1	0.058	4.42 X 10 <sup>-1</sup>
CACTTCGC	B3_H2	0.230	1.98 X 10 <sup>-1</sup>
CATGTCAC	B3_H3	0.214	1.00 X 10 <sup>-4</sup>
CGCGTTGT	B3_H4	0.002	4.84 X 10 <sup>-1</sup>
CGCGTCAC	B3_H5	0.037	4.12 X 10 <sup>-1</sup>
CGCGTTAC	B3_H6	0.190	8.94 X 10 <sup>-1</sup>
CGCGTTAT	B3_H7	0.077	6.84 X 10 <sup>-1</sup>
CGCGTTGC	B3_H8	0.002	4.66 X 10 <sup>-1</sup>
CGCGCCAC	B3_H9	0.110	4.15 X 10 <sup>-2</sup>
CGCGCTAC	B3_H10	0.001	5.60 X 10 <sup>-1</sup>
CGTGTTAC	B3_H11	0.001	1.03 X 10 <sup>-1</sup>
AGCGTCAC	B3_H12	0.076	2.02 X 10 <sup>-1</sup>
CGCGCCGC	B3_H13	0.001	5.60 X 10 <sup>-1</sup>
<b>Block 4</b>			
ACGACCC	B4_H1	0.360	2.68 X 10 <sup>-2</sup>
ACGACCT	B4_H2	0.064	3.26 X 10 <sup>-1</sup>
ACGACTC	B4_H3	0.138	5.17 X 10 <sup>-1</sup>
ACGGCCC	B4_H4	0.055	2.86 X 10 <sup>-1</sup>
ATGACCT	B4_H5	0.003	5.05 X 10 <sup>-1</sup>
ATGATCT	B4_H6	0.033	5.77 X 10 <sup>-1</sup>
CCGGTCT	B4_H7	0.002	3.86 X 10 <sup>-1</sup>
CCGACCT	B4_H8	0.217	1.40 X 10 <sup>-3</sup>
CTGACCC	B4_H9	0.001	5.55 X 10 <sup>-1</sup>
CCGGCCT	B4_H10	0.002	5.70 X 10 <sup>-1</sup>
CCAACCT	B4_H11	0.017	5.65 X 10 <sup>-2</sup>
CTGACCT	B4_H12	0.102	1.71 X 10 <sup>-1</sup>
CTGATTC	B4_H13	0.001	5.40 X 10 <sup>-1</sup>
CTGATCT	B4_H14	0.005	8.77 X 10 <sup>-1</sup>

<b>AACS Block</b>	<b>HaplotypeID</b>	<b>Frequency</b>	<b>P-value (<math>\chi^2</math>)</b>
<b>Block 17</b>			
GTC A	B17_H1	0.277	$2.16 \times 10^{-1}$
GTC G	B17_H2	0.284	$7.01 \times 10^{-2}$
GTT G	B17_H3	0.057	$2.60 \times 10^{-3}$
GCC G	B17_H4	0.057	$2.63 \times 10^{-1}$
ACC G	B17_H5	0.325	$1.35 \times 10^{-1}$
<b>Block 18</b>			
CGTCCT	B18_H1	0.108	$1.90 \times 10^{-1}$
CGTCTG	B18_H2	0.041	$7.09 \times 10^{-1}$
CGTCTT	B18_H3	0.349	$8.00 \times 10^{-4}$
CGTTTT	B18_H4	0.272	$1.00 \times 10^{-4}$
CGGCTT	B18_H5	0.003	$7.47 \times 10^{-1}$
CTTCTG	B18_H6	0.144	$2.10 \times 10^{-1}$
CTTTTT	B18_H7	0.015	$1.35 \times 10^{-1}$
CTGCTT	B18_H8	0.002	$5.22 \times 10^{-1}$
TGTCCT	B18_H9	0.003	$2.76 \times 10^{-1}$
TTTCTG	B18_H10	0.003	$7.62 \times 10^{-1}$
TGTTTT	B18_H11	0.008	$4.36 \times 10^{-1}$
TGGCTT	B18_H12	0.049	$6.28 \times 10^{-1}$
TGTCTG	B18_H13	0.001	$1.07 \times 10^{-1}$
<b>Block 19</b>			
CACTCAT	B19_H1	0.002	$3.80 \times 10^{-1}$
CACTCGC	B19_H2	0.045	$2.11 \times 10^{-1}$
CACTTGT	B19_H3	0.003	$2.97 \times 10^{-1}$
CACCCGT	B19_H4	0.007	$4.35 \times 10^{-1}$
CATTCAT	B19_H5	0.004	$9.10 \times 10^{-1}$
CATTCGT	B19_H6	0.164	$1.15 \times 10^{-1}$
CATCCGT	B19_H7	0.005	$9.69 \times 10^{-1}$
CGCTCAT	B19_H8	0.345	$1.52 \times 10^{-2}$
CGCTCGT	B19_H9	0.015	$1.50 \times 10^{-2}$
CGCTCGC	B19_H10	0.003	$1.25 \times 10^{-1}$
CGCTTGT	B19_H11	0.257	$6.80 \times 10^{-3}$
CGCCCAT	B19_H12	0.006	$9.01 \times 10^{-1}$
CGCCCGT	B19_H13	0.007	$6.64 \times 10^{-1}$
CGCCTGT	B19_H14	0.003	$1.55 \times 10^{-1}$
CGTTCGT	B19_H15	0.002	$3.99 \times 10^{-1}$
TGCTCAT	B19_H16	0.004	$5.14 \times 10^{-1}$
TGCTCGT	B19_H17	0.119	$2.50 \times 10^{-3}$
TGCTTGT	B19_H18	0.004	$6.32 \times 10^{-1}$
CGTCCGT	B19_H19	0.002	$4.74 \times 10^{-1}$
TACTTGT	B19_H20	0.001	$5.51 \times 10^{-1}$

**SLC6A15**

<b>Block</b>	<b>HaplotypeID</b>	<b>Frequency</b>	<b>P-value (<math>\chi^2</math>)</b>
<b>Block 1</b>			
GTCCAGCCC	B1_H1	0.486	4.00 X 10 <sup>-3</sup>
GTCCAGCCT	B1_H2	0.015	4.77 X 10 <sup>-1</sup>
GTCGGGGAC	B1_H3	0.105	6.72 X 10 <sup>-1</sup>
GTTGGGGAC	B1_H4	0.165	1.93 X 10 <sup>-2</sup>
ATCGGGGAC	B1_H5	0.001	5.40 X 10 <sup>-1</sup>
AACGGAGAC	B1_H6	0.228	2.26 X 10 <sup>-1</sup>
<b>Block 2</b>			
CTAGGAGTCG	B2_H1	0.440	3.00 X 10 <sup>-4</sup>
CTAGGGGTCG	B2_H2	0.061	2.74 X 10 <sup>-1</sup>
TTTGGAGTTG	B2_H3	0.008	7.54 X 10 <sup>-2</sup>
TTTTGGGCTA	B2_H4	0.001	5.40 X 10 <sup>-1</sup>
TTTTGAACTA	B2_H5	0.228	2.26 X 10 <sup>-1</sup>
TTTTTAGTTG	B2_H6	0.098	3.40 X 10 <sup>-1</sup>
TCTGGAGTTG	B2_H7	0.165	1.93 X 10 <sup>-2</sup>
<b>Block 3</b>			
AGCTGC	B3_H1	0.293	7.80 X 10 <sup>-3</sup>
AGCCGC	B3_H2	0.044	1.32 X 10 <sup>-1</sup>
AGTTGT	B3_H3	0.277	2.10 X 10 <sup>-3</sup>
AGTTAT	B3_H4	0.098	3.40 X 10 <sup>-1</sup>
AATTGT	B3_H5	0.119	7.02 X 10 <sup>-1</sup>
GGCTGC	B3_H6	0.164	9.17 X 10 <sup>-2</sup>
GGTTGT	B3_H7	0.005	8.60 X 10 <sup>-1</sup>

**PRKCA**

<b>Block</b>	<b>HaplotypeID</b>	<b>Frequency</b>	<b>P-value (<math>\chi^2</math>)</b>
<b>Block 65</b>			
AAACTTGCG	B65_H1	0.002	5.36 X 10 <sup>-1</sup>
AAAGTAGCG	B65_H2	0.011	6.21 X 10 <sup>-1</sup>
AAAGTAGGG	B65_H3	0.208	7.09 X 10 <sup>-1</sup>
AAAGTACCT	B65_H4	0.015	8.91 X 10 <sup>-1</sup>
AAAGTTGCG	B65_H5	0.002	4.09 X 10 <sup>-1</sup>
AAGGCTGCG	B65_H6	0.083	1.79 X 10 <sup>-1</sup>
AAGGCTGGG	B65_H7	0.003	8.17 X 10 <sup>-1</sup>
ATAGCTGCG	B65_H8	0.005	1.69 X 10 <sup>-1</sup>
ATAGTAGCG	B65_H9	0.002	5.21 X 10 <sup>-1</sup>
ATAGTAGGG	B65_H10	0.003	1.13 X 10 <sup>-1</sup>
ATAGTACCG	B65_H11	0.002	4.71 X 10 <sup>-1</sup>
ATAGTTGCG	B65_H12	0.364	1.05 X 10 <sup>-1</sup>
ATAGTTGCT	B65_H13	0.002	4.02 X 10 <sup>-1</sup>
GAAGTAGCG	B65_H14	0.158	7.09 X 10 <sup>-1</sup>
GAAGTACCT	B65_H15	0.004	2.99 X 10 <sup>-2</sup>
GAAGTAGCG	B65_H16	0.028	9.75 X 10 <sup>-1</sup>
GAAGTAGGG	B65_H17	0.002	4.62 X 10 <sup>-1</sup>
GAAGTACCG	B65_H18	0.046	3.80 X 10 <sup>-3</sup>
GAAGTACCT	B65_H19	0.055	5.37 X 10 <sup>-2</sup>
GAAGTTGCG	B65_H20	0.001	5.47 X 10 <sup>-1</sup>
GTAGTACCG	B65_H21	0.001	5.41 X 10 <sup>-1</sup>

**Block 66**

CGACCCCACCACG	B66_H1	0.002	$4.30 \times 10^{-1}$
CGACCTCGCCACG	B66_H2	0.004	$8.96 \times 10^{-1}$
CGACCTCGCCACA	B66_H3	0.001	$5.40 \times 10^{-1}$
CGACTCCACCACG	B66_H4	0.072	$2.46 \times 10^{-2}$
CGATCCCACCACA	B66_H5	0.214	$8.88 \times 10^{-1}$
CTACTCTACGATG	B66_H6	0.002	$5.30 \times 10^{-1}$
CGGCCTCGGCGCA	B66_H7	0.398	$1.57 \times 10^{-2}$
CGGCCTCGGCGTA	B66_H8	0.004	$6.13 \times 10^{-1}$
CTACTCTACGACG	B66_H9	0.062	$2.92 \times 10^{-1}$
CTATCCCACCACA	B66_H10	0.001	$1.02 \times 10^{-1}$
TGACCCCACCATG	B66_H11	0.009	$8.69 \times 10^{-1}$
TGACCTCGCCACG	B66_H12	0.075	$4.31 \times 10^{-2}$
TGACCTCGCCATG	B66_H13	0.156	$6.51 \times 10^{-1}$

**Block 92**

GCGAA	B92_H1	0.416	$3.27 \times 10^{-2}$
GCGAG	B92_H2	0.453	$1.04 \times 10^{-1}$
GCGGA	B92_H3	0.002	$3.86 \times 10^{-1}$
GTGGG	B92_H4	0.068	$2.25 \times 10^{-2}$
ACGAG	B92_H5	0.003	$8.15 \times 10^{-1}$
ACAAG	B92_H6	0.058	$7.00 \times 10^{-4}$

**Block 93**

AAGCACGGCCA	B93_H1	0.001	$1.03 \times 10^{-1}$
AAGTACGAACA	B93_H2	0.068	$4.66 \times 10^{-2}$
AAGTACGGACA	B93_H3	0.001	$5.40 \times 10^{-1}$
AGGTACGAACA	B93_H4	0.001	$1.03 \times 10^{-1}$
GGGCGCGGCTG	B93_H5	0.875	$7.08 \times 10^{-1}$
GGACGTTGCTG	B93_H6	0.054	$1.60 \times 10^{-3}$

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