

U.S. Genome Variation Estimates

Other Genotyping Methods

MGB ECLIPSE PROBE SYSTEM ASSAYS

Gene symbol:	<i>ADRB1</i>	Gene symbol:	<i>CBS</i>
Variant:	rs1801252§	Variant:	none§
Forward primer:	CGCCCN ^o CCTCGTTN ^o CTGCCT	Forward primer:	CTGGCCTTGAGCCCTGAA
Reverse primer:	CTGTCCACTGCTGAGACAGC	Reverse primer:	TTGTCTGCTCCGTCTGGTT
FAM-probe:	CCAGCGAAGGCC	FAM-probe:	GCTCCTCCGGCTC
VIC-probe:	CCAGCGAAGGCC	VIC-probe:	CACCTGGA ^o TGA ^o TC

Gene symbol:	<i>CXCL12</i>	Gene symbol:	<i>NOS2A</i>
Variant:	rs169097	Variant:	rs1800482§
Forward primer:	CCATCATCATGTGTGCCAGACT	Forward primer:	GGCA ^o GATCACTTGAGCTTCAGA
Reverse primer:	AGA ^o CA ^o TTTTCA ^o TTTCTGCTTG	Reverse primer:	GAGACTGGGTTTCACCATGTTGT
FAM-probe:	CCCCGCAAAAGGA	FAM-probe:	TTCGACACCAGC
VIC-probe:	ATGGCCCTGCAA	VIC-probe:	TTCGACACCAGC

Gene symbol:	<i>CYP2C19</i>	Gene symbol:	<i>NOS2A</i>
Variant:	rs4986893	Variant:	rs9282799§
Forward primer:	GATCA ^o GCAA ^o TTTCTTA ^o ACTTGATG	Forward primer:	AATA ^o ACAAC ^o CA ^o TTAGGGAGAA
Reverse primer:	GACTGTAAGTGGTTTCTCAGGA	Reverse primer:	TGAGTGGACAGTGGTAGCAA
FAM-probe:	ACCCCTGAATCC	FAM-probe:	TCACCGTCCCAA
VIC-probe:	CACCCCTGGAT	VIC-probe:	CTCACCATCCCAA

Gene symbol:	<i>CYP2E1</i>	Gene symbol:	<i>SERPINE1</i>
Variant:	rs2031920	Variant:	rs1799762, rs1799768, rs1799889§
Forward primer:	AGTGA ^o TTTGGCTGGATTG	Forward primer:	CAGACAAGTTGTTGACACAAGAGA
Reverse primer:	GTGTGTGGTTAGA ^o ATGAAGAG	Reverse primer:	CGATGATACACGGCTGACT
FAM-probe:	AAAAG ^o T ^o ACAAA ^o A ^o TTGC	FAM-probe:	ACGTGG ^o GGAGTCA
VIC-probe:	AAAAG ^o T ^o AT ^o AAA ^o A ^o T ^o T ^o GCA	VIC-probe:	ACGTGG ^o GG ^o GAGT

Gene symbol:	<i>ITGB3</i>	Gene symbol:	<i>VDR</i>
Variant:	rs5918§	Variant:	rs731236§
Forward primer:	TGCAGGAGGTAGAGATCGCCATA	Forward primer:	GGATCATCTTGGCATAGAGCAGGT
Reverse primer:	CAGCAGATTCTCCTTCAGGTCACA	Reverse primer:	TATCCCGTGCCCA
FAM-probe:	CTCCGG ^o GCTCAC	FAM-probe:	ATGGCCTCGATCA
VIC-probe:	CTCTGG ^o GCTCAC	VIC-probe:	ATGGCCTCAATCAG

Gene symbol:	<i>MTHFR</i>	Gene symbol:	<i>XRCC1</i>
Variant:	rs1801133	Variant:	rs1001581
Forward primer:	GGAAGAATGTGTCAGCCTCAAA	Forward primer:	AA*GCTGACCTGGTGGAGTCT
Reverse primer:	GACCTGAAGCACTTGAAGGAGA	Reverse primer:	CTCCATGCAGCACA*GGGTAT
FAM-probe:	ATCGGCTCCCGC	FAM-probe:	TGG*GN*GCGTATG
VIC-probe:	AATCGACTCCCGC	VIC-probe:	GGTGG*GN*GCATA

Gene symbol:	<i>MTHFR</i>
Variant:	rs2066470
Forward primer:	AGATTCCAATCGCCGCTCATCTTC
Reverse primer:	GCTCCAAAGATAGTTCGAGATGTTCC
FAM-probe:	GCTCGG*GGTCCA
VIC-probe:	CGCTCAGG*GTCCA

PYROSEQUENCING ASSAYS

Gene symbol:	<i>ADRB2</i>	Gene symbol:	<i>F2</i>
Variant:	rs1042714§	Variant:	rs1799963§
Forward primer†:	GAACGGCAGCGCCTTCTT	Forward primer†:	AGAGTAGGGGCCACTCATATTCT
Reverse primer:	ACATGACGATGCCCATGTC	Reverse primer:	ATAGCACTGGGAGCATTGAGG
FAM-probe:	CACACCTCGTCCCTT	FAM-probe:	CTGGGAGCATTGAGG

† Primer biotinylated at 5' end.

§ Variant was genotyped on all specimens in the Division of Laboratory Sciences, National Center for Environmental Health, Centers for Disease Control and Prevention, Atlanta, GA.

CAPILLARY FRAGMENT ANALYSIS

Gene symbol:	<i>ACE</i>
Variant:	rs4646994§
Forward primer‡:	CTGGAGACCACTCCCATCCTTTCT
Reverse primer:	GATGTCGCCATCACATTCGTCAGAT

‡ Primer labeled with FAM at 5' end.

§ Variant was genotyped on all specimens in the Division of Laboratory Sciences, National Center for Environmental Health, Centers for Disease Control and Prevention, Atlanta, GA.