

U.S. Genome Variation Estimates

TaqMan Assays

Gene symbol:	ABCB1
Variant:	rs1045642
Forward primer:	CTGTTTGACTGCAGCATTGCT
Reverse primer:	ATGTATGTTGGCCTCCTTTGCT
FAM-probe:	CCCTACAATCTCTT
VIC-probe:	CCCTCACGATCTCTT

Gene symbol:	<i>ADH1B</i>
Variant:	rs1229984
Forward primer:	CTCTTTATTCTGTAGATGGTGGCTGTAG
Reverse primer:	CTCATGGCCTAAAATCACAGGAA
FAM-probe:	TGGTCATCTGTGCGACA
VIC-probe:	CTGTGTGACAGATTC

Gene symbol:	<i>ADH1B</i>
Variant:	rs17033
Forward primer:	CCTTCCCCTGTAGCAGTCTTCA
Reverse primer:	TGAATTAATGATATTTCTAGCTGTTGCT
FAM-probe:	CCTACGAGATCTGG
VIC-probe:	ACCTACAAGATCTG

Gene symbol:	IL4R
Variant:	rs1805015
Forward primer:	AGGCAACCCTGCTTACCG
Reverse primer:	TCTCTGGGACACGGTGACT
FAM-probe:	TTCAGCAACTCCCTG
VIC-probe:	CTTCAGCAACCCCTG

Gene symbol:	ADH1B
Variant:	rs2066702
Forward primer:	GTGGGTTGTCTAAATGTTAACACAATGT
Reverse primer:	GGAGGCTGAAGACTGCTACAG
FAM-probe:	ACGGTACAGATACTG
VIC-probe:	ACGGTACGGATACTG

Gene symbol:	<i>ITGA2</i>
Variant:	rs1126643
Forward primer:	CATCCCAGACATCCCAATATGGT
Reverse primer:	GGCCTATTAGCACCAAAACTTACCT
FAM-probe:	TTGCTCCAAATGTG
VIC-probe:	AATTGCTCCGAATGTG

Gene symbol:	ADH1C
Variant:	rs1693482
Forward primer:	TGACTGATGGAGGTGTGGATTTT
Reverse primer:	GCAGAAATTTACAGGGCATGTC
FAM-probe:	ATCGGTCGGCTTGA

Gene symbol:	MBL2
Variant:	rs11003125
Forward primer:	CCAACGTAGTAAGAAATTTCCAGAGA
Reverse primer:	CAACCCAGCCCAGAATTAAGT
FAM-probe:	AGCCTGTGTA AAC

VIC-probe:	CATCGGTCAGCTTG	VIC-probe:	CCTGTCTAAAACACC
Gene symbol:	<i>ADH1C</i>	Gene symbol:	MBL2
Variant:	rs698	Variant:	rs1800450
Forward primer:	GCTAAGAAGTTTTCACTGGATGCAT	Forward primer:	GGCTTCCCAGGCAAAGATG
Reverse primer:	AGCGAAGCAGGTCAAATCCTT	Reverse primer:	AGCCCAACACGTACCTGGTT
FAM-probe:	TTCAAAAGGTAAAACATTT	FAM-probe:	CCTTGGTGCCATCA
VIC-probe:	TTCAAAAGGTAAAATATTT	VIC-probe:	CCTTGGTGTCATCAC
Gene symbol:	ADRB2	Gene symbol:	MBL2
Variant:	rs1042713	Variant:	rs1800451
Forward primer:	CGGCAGCGCCTTCTTG	Forward primer:	GGCTTCCCAGGCAAAGATG
Reverse primer:	TGCGTGACGTCGTGGTC	Reverse primer:	AGCCCAACACGTACCTGGTT
FAM-probe:	ACCCAATGGAAGCC	FAM-probe:	ACCAAGGGAGAAAA
VIC-probe:	CACCCAATAGAAGCC	VIC-probe:	CAAGGAAGAAAAGG
Gene symbol:	ADRB3	Gene symbol:	MBL2
Variant:	rs4994	Variant:	rs5030737
Forward primer:	GCAACCTGCTGGTCATCGT	Forward primer:	CCTGTAGCTCTCCAGGCATCA
Reverse primer:	ACGAACACGTTGGTCATGGT	Reverse primer:	AGCCCAACACGTACCTGGTT
FAM-probe:	TCGGAGTCCAGGCGA	FAM-probe:	CATCACACCCATCTT
VIC-probe:	TCGGAGTCCGGGCGA	VIC-probe:	ATCACGCCCATCTT
Gene symbol:	ALAD	Gene symbol:	MBL2
Variant:	rs1800435	Variant:	rs7096206
Forward primer:	ACCCACACCCACACAGGTA	Forward primer:	GCACGGTCCCATTGTTCTCA
Reverse primer:	CAAGGGCCTCAGCATCTCTT	Reverse primer:	GCGTTGCTGCTGGAAGACTATAAA
FAM-probe:	CCAGCCGCTTCACA	FAM-probe:	CATGCTTCCGTGGCAG
VIC-probe:	CCAGCCGGTTCACA	VIC-probe:	CATGCTTCCGTGGCAG
Gene symbol:	<i>B9D2</i>	Gene symbol:	MGC4093
Variant:	rs1800468	Variant:	rs1800468

Forward primer:	CGTGGAGTGCTGAGGGACTCT
Reverse primer:	GCCATCCTCCCCATCAC
FAM-probe:	CCAACGTCACCACCA
VIC-probe:	CTCCAACATCACCACC

Forward primer:	CGTGGAGTGCTGAGGGACTCT
Reverse primer:	GCCATCCTCCCCATCAC
FAM-probe:	CCAACGTCACCACCA
VIC-probe:	CTCCAACATCACCACC

Gene symbol:	<i>B9D2</i>
Variant:	rs1800469
Forward primer:	AAGGAGAGCAATTCTTACAGGTGTCT
Reverse primer:	GCCTCCGGAGGGTGTCA
FAM-probe:	CATCCTTCAGGTGTC
VIC-probe:	CCATCCCTCAGGTGT

Gene symbol:	MGC4093
Variant:	rs1800469
Forward primer:	AAGGAGAGCAATTCTTACAGGTGTCT
Reverse primer:	GCCTCCGGAGGGTGTCA
FAM-probe:	CATCCTTCAGGTGTC
VIC-probe:	CCATCCCTCAGGTGT

Gene symbol:	CAPN10
Variant:	rs3792267
Forward primer:	GTGTGTGGGCAGAGGACTG
Reverse primer:	CCTCACCAAGTCAAGGCTTAGC
FAM-probe:	CCTTCAAACGCCTTAC
VIC-probe:	CACCTTCAAATGCCTTAC

Gene symbol:	MTHFR
Variant:	rs1801131
Forward primer:	GGAGGAGCTGCTGAAGATGTG
Reverse primer:	CCCGAGAGGTAAGAACAAGACTT
FAM-probe:	AGACACTTGCTTCACT
VIC-probe:	CAAAGACACTTTCTTC

Gene symbol:	CAT
Variant:	rs769214
Forward primer:	TTTACTCTTCAACATAGCTTTTT AAAGACACAAAG
Reverse primer:	CTGCCAAATTGGCTTCTTTAAACACT
FAM-probe:	CCCCAAATTTTACCCCCAG
VIC-probe:	TCCCCAAATTTTACTCCCAG

Gene symbol:	MTRR
Variant:	rs1801394
Forward primer:	CATGCCTTGAAGTGATGAGG
Reverse primer:	GATCTGCAGAAAATCCATGTACCA
FAM-probe:	CTTGCTCACACATTT
VIC-probe:	TGCTCACATATTTT

Gene symbol:	CCL5
Variant:	rs2280788
Forward primer:	GCTATTTTGAAACTCCCCTTAGG
Reverse primer:	CTCAGGCTGGCCCTTTATAGG
FAM-probe:	ATGCCCTGAACTG

Gene symbol:	NAT2
Variant:	rs1041983
Forward primer:	CAGACCACAATGTTAGGAGGGTATT
Reverse primer:	CCATGCCAGTGCTGTATTTGTTA
FAM-probe:	CTGGAGGGATATAAA

VIC-probe:	ATGCCCTCAACTG	VIC-probe:	ACTGGAGGGATGTAAA
Gene symbol:	CCR2	Gene symbol:	NAT2
Variant:	rs1799864	Variant:	rs1208
Forward primer:	CGGTGCTCCCTGTCATAAATTTGA	Forward primer:	CTCTCACTGAGGAAGAGGTTGAAGA
Reverse primer:	GTCAGTCAAGCACTTCAGCTTTT	Reverse primer:	ACGAGATTTCTCCCAAGGAA
FAM-probe:	ACATGCTGGTCGTCCT	FAM-probe:	AGTGCTGAGAAATA
VIC-probe:	ACATGCTGGTCATCCT	VIC-probe:	AGTGCTGAAAAAT
Gene symbol:	CYP1A1	Gene symbol:	NAT2
Variant:	rs2472299	Variant:	rs1799930
Forward primer:	CACATGTTGAGCTGAGGAGTTCA	Forward primer:	CTGCCAAAGAAGAAACACCAAAA
Reverse primer:	TGAGCATGTCAGATCTCTAATCAAATCC	Reverse primer:	TGGAGACGTCTGCAGGTATGTATT
FAM-probe:	AGGCATTCAGAACA	FAM-probe:	ACCTCGAACAATTG
VIC-probe:	AGGCATTCAGAATAA	VIC-probe:	TGAACCTCAAACAATT
Gene symbol:	CYP1A1	Gene symbol:	NAT2
Variant:	rs2606345	Variant:	rs1801279
Forward primer:	TGACCATCTTCTTTGTCCTTTGC	Forward primer:	GGAGTTGGGCTTAGAGGCTATTTT
Reverse primer:	TTCCAGCTCCCTGCAGTTG	Reverse primer:	CAGAAGTTGATTGACCTGGAGACA
FAM-probe:	ATCAGGTTGACAGATT	FAM-probe:	CCACCCGGTTTC
VIC-probe:	TCAGGGTGACAGATT	VIC-probe:	CCCACCCTGGTTTC
Gene symbol:	CYP1A2	Gene symbol:	NAT2
Variant:	rs11854147	Variant:	rs1801280
Forward primer:	GGTCACAGGGTCTAAGCTACCT	Forward primer:	CACTGGCATGGTTCACCTTCT
Reverse primer:	GCCATTGTTTCTCCAGGACTTG	Reverse primer:	ACATCTGGGAGGAGCTTCCA
FAM-probe:	CAAGGGATCCCTGCAC	FAM-probe:	TGACCATTGACGGCAG
VIC-probe:	CAAGGGACCCCTGCAC	VIC-probe:	TGACCACTGACGGCA
Gene symbol:	CYP1A2	Gene symbol:	NOS3
Variant:	rs2069514	Variant:	rs1799983

Forward primer:	AGCTATACATGACATATGCACTTTTCCA
Reverse primer:	CGTGATGGTGACACCTGTAATT
FAM-probe:	CGCCTCTCGGATTCA
VIC-probe:	CGCCTCTCAGATTCA

Forward primer:	GGCTGGACCCCAGGAAA
Reverse primer:	CACCCAGTCAATCCCTTTGGT
FAM-probe:	CCCAGATGATCCCCCA
VIC-probe:	CCAGATGAGCCCCCA

Gene symbol:	CYP1A2
Variant:	rs4886406
Forward primer:	TTCTTCAGGCACTACCCTCTCA
Reverse primer:	CCCAGCAGGAAACAGTTTAATTCTGA
FAM-probe:	CCTAACCCCTTGTAAATAA
VIC-probe:	CTAACCCCGTGAATAA

Gene symbol:	NOS3
Variant:	rs2070744
Forward primer:	ACCAGGGCATCAAGCTCTTC
Reverse primer:	GCAGGTCAGCAGAGAGACTAG
FAM-probe:	CAGGGTCAGCCAGCCA
VIC-probe:	CAGGGTCAGCCGGCCA

Gene symbol:	CYP1B1
Variant:	rs1056836
Forward primer:	TGTCAACCAGTGGTCTGTGAATC
Reverse primer:	TCACTCTGCTGGTCAGGTCCTT
FAM-probe:	ACCCAGTGAAGTGG
VIC-probe:	ATGACCCACTGAAGTG

Gene symbol:	NQO1
Variant:	rs10517
Forward primer:	CCAAGGTCATGGGACTGGAC
Reverse primer:	CAGAAGGTTATTTCTTTATCA TTGC TAAACTGAT
FAM-probe:	CATCCCATGGTAAGTC
VIC-probe:	CCATCCCATAGTAAGTC

Gene symbol:	CYP1B1
Variant:	rs1056837
Forward primer:	GGCCTAACCCGGAGAACTTT
Reverse primer:	TCACTCTGCTGGTCAGGTCCTT
FAM-probe:	CAAGGATGGCCTCAT
VIC-probe:	AAGGACGGCCTCAT

Gene symbol:	NQO1
Variant:	rs1800566
Forward primer:	TGCATTTCTGTGGCTTCCAA
Reverse primer:	CTGGAGTGTGCCCAATGCTATA
FAM-probe:	TCAGTTGAGATTCTAAG
VIC-probe:	TGTCAGTTGAGTTCT

Gene symbol:	CYP1B1
Variant:	rs162557
Forward primer:	TTGCTGGTTTCAATCTCTCAAGAAGT
Reverse primer:	TGACCCTGGAATGACTGATTACATTG
FAM-probe:	TCTGAAAAGAATCTG

Gene symbol:	NQO1
Variant:	rs34755915
Forward primer:	TCTAGGACAATAAGCACGCAAATGT
Reverse primer:	CCGCAGACCTTGTGATATTCCA
FAM-probe:	CTGACACCCTTTCC

VIC-probe:	TCTGAAGAGAATCTG	VIC-probe:	CCTGACACCCCTTCC
Gene symbol:	CYP2A6	Gene symbol:	NQO1
Variant:	rs1801272	Variant:	rs689452
Forward primer:	AGGAGGCGGGCTTCCT	Forward primer:	TGCCTACAGAGACACACAAAAG
Reverse primer:	TCGTCCTGGGTGTTTTCTT	Reverse primer:	GAAGGTTTGCTGGTTGGTAATGG
FAM-probe:	TCGACGCCCTCCGGGGC	FAM-probe:	CACACAGGGAAAAC
VIC-probe:	TCGACGCCACCGGGGC	VIC-probe:	CACACACGGAAAAC
Gene symbol:	CYP2C19	Gene symbol:	NQO1
Variant:	rs4986894	Variant:	rs689453
Forward primer:	AAGGAGCATATAGTGGGCCTAGGT	Forward primer:	CACCTCCCATCCTTTCTTCTTCAAA
Reverse primer:	ATGCTAATTAAGTGTGTGCCTCTT	Reverse primer:	ATCGTACTGGCTCACTCAGAGA
FAM-probe:	TGATGGATAAAGTGGC	FAM-probe:	ATGAAGGAAGCTGCTG
VIC-probe:	ATGGATGAAGTGGCCA	VIC-probe:	ATGAAGGAGGCTGCTG
Gene symbol:	CYP2C9	Gene symbol:	OGG1
Variant:	rs1057910	Variant:	rs1052133
Forward primer:	GCCACATGCCCTACACAGATG	Forward primer:	CCCTCCTACAGGTGCTGTTTCAAG
Reverse primer:	GAATTTAATGTCACAGGTCACATGCAT	Reverse primer:	ACCCTTTCTGCGCTTTGCT
FAM-probe:	AAGGTCAAGGTATCTC	FAM-probe:	CCAATCCCGCCATG
VIC-probe:	AGGTCAATGTATCTCT	VIC-probe:	CCAATGCCGCCATG
Gene symbol:	CYP3A4	Gene symbol:	PON1
Variant:	rs2740574	Variant:	rs662
Forward primer:	TGGAATGAGGACAGCCATAGAGA	Forward primer:	CACTTTTATGGCACAAATGATCACT
Reverse primer:	AGTGGAGCCATTGGCATAAAATCT	Reverse primer:	CCACGCTAAACCCAAATACATCTC
FAM-probe:	AAGGGCAGGAGAGAG	FAM-probe:	CCTACTTACGATCCTG
VIC-probe:	AAGGGCAAGAGAGAG	VIC-probe:	CCTACTTACAATCCTG
Gene symbol:	F5	Gene symbol:	PON1
Variant:	rs6025	Variant:	rs854560

Forward primer:	CATGTTCTAGCCAGAAGAAATTCTCAGA
Reverse primer:	CTGGGCTAATAGGACTACTTCTAATCTGT
FAM-probe:	CAGGCAAGGAATAC
VIC-probe:	AGGCGAGGAATAC

Forward primer:	GAAAACACTCACAGAGCTAATGAAAGC
Reverse primer:	ACAACCTGTACTTTCTGTTCTCTTTTCTG
FAM-probe:	CAGTATCTCCATGTCTTC
VIC-probe:	AGTATCTCCAAGTCTTC

Gene symbol:	FAM82A**
Variant:	rs163086
Forward primer:	TCGTGCCTTGGTCTTCTCTCT
Reverse primer:	ATCAGAACCCTTCCGTCTCTCA
FAM-probe:	CAGTGTTACGGGCT
VIC-probe:	CCAGTGCTCACGGG

Gene symbol:	PPARG
Variant:	rs1801282
Forward primer:	GTTATGGGTGAAACTCTGGGAGATT
Reverse primer:	GCAGACAGTGTATCAGTGAAGGAAT
FAM-probe:	CTATTGACGCAGAAAG
VIC-probe:	CTCCTATTGACCCAGAAAG

Gene symbol:	FCGR2A
Variant:	rs1801274
Forward primer:	CCAGAATGGAAAATCCAGAAAT
Reverse primer:	TTTGCTTGTGGGATGGAGAAG
FAM-probe:	TCTCCCGTTTGGATC
VIC-probe:	CTCCCATTTGGATCC

Gene symbol:	TGFB1
Variant:	rs1982073
Forward primer:	CCCACCACACCAGCCCTGTTC
Reverse primer:	TTCCGCTTCACCAGCTCCATGT
FAM-probe:	TAGCAGCAGCAGCAGCAGCAGCCG
VIC-probe:	TAGCAGCAGCGGCAGCAGCC

Gene symbol:	FGB
Variant:	rs1800790
Forward primer:	GTTATTTTGATTAATGTCTAAAACAAAA GATAAACACATTATGAT
Reverse primer:	GCAACCACTAAAATCGTGACTCATT
FAM-probe:	CTATTGATTTTAATGGCCCC
VIC-probe:	TTACTATTGATTTTAATAGCCCC

Gene symbol:	TLR4
Variant:	rs4986790
Forward primer:	CCATTGAAGAATTCCGATTAGCATA
Reverse primer:	CACTCACCAGGGAAAATGAAGAA
FAM-probe:	CTCGATGGTATTATTG
VIC-probe:	CCTCGATGATATTATT

Gene symbol:	IL10
Variant:	rs1800871
Forward primer:	GAGGAAACCAAATTCTCAGTTAGCA
Reverse primer:	TTATAGTGAGCAAAGTGGGACACAG
FAM-probe:	AGGTGATGTAATATCT

Gene symbol:	TNF
Variant:	rs1800629
Forward primer:	CCAAAAGAAATGGAGGCAATAGGTT
Reverse primer:	GGACCCTGGAGGCTGAAC
FAM-probe:	CCCGTCCCCATGCC

VIC-probe:	AGGTGATGTAACATCT	VIC-probe:	CCCGTCCTCATGCC
Gene symbol:	IL10	Gene symbol:	TNF
Variant:	rs1800872	Variant:	rs1800750
Forward primer:	GGTAAAGGAGCCTGGAACACATC	Forward primer:	CCCCTCCCAGTTCTAGTTCTATCTT
Reverse primer:	GCCCTTCCATTTTACTTTCCAGAGA	Reverse primer:	CCTATTGCCTCCATTTCTTTTGG
FAM-probe:	TGGCTTCCTACAGGAC	FAM-probe:	TTTCCTTCTAACTTCC
VIC-probe:	CTGGCTTCCTACAGTAC	VIC-probe:	TTCCTTCTAATTCC
Gene symbol:	IL10	Gene symbol:	TNF
Variant:	rs1800896	Variant:	rs361525
Forward primer:	ACACACACAAATCCAAGACAACACT	Forward primer:	CAGTCAGTGGCCCAGAAGAC
Reverse primer:	GCTGGATAGGAGGTCCCTTACTTT	Reverse primer:	AGCATCAAGGATACCCCTCACA
FAM-probe:	TCCCCCTCCCAAAG	FAM-probe:	CCCTGCTCCGATTC
VIC-probe:	TCCCCTCCCAAAGA	VIC-probe:	CTCCCTGCTCTGATTC
Gene symbol:	IL1B	Gene symbol:	VDR
Variant:	rs1143623	Variant:	rs2239185
Forward primer:	AGGTATCGTGCTCGCTCTG	Forward primer:	GGGAAAGACGAAACAGCAACAC
Reverse primer:	TCGTGTCTCAAATACTTGACAGA	Reverse primer:	CCCCTCCCTCACCTGTGT
FAM-probe:	CTCCCTTGATAATG	FAM-probe:	CTGTCTTCACACCTGCA
VIC-probe:	ACTCCCTGGATAATG	VIC-probe:	CTGTCTTCACGCCTGCA
Gene symbol:	IL4	Gene symbol:	XRCC1
Variant:	rs2243248	Variant:	rs1799782
Forward primer:	ACTGACTAGGAGGGCTGATTTGTAA	Forward primer:	GAGGATGAGAGCGCCAACTC
Reverse primer:	GGAACCTAAACACATCCTCAGCTAA	Reverse primer:	CTCACTCAGGACCCACGTTGT
FAM-probe:	AGCTACCGTCTTACC	FAM-probe:	TTCAGCCGGATCAA
VIC-probe:	AGAGCTACAGTCTTAC	VIC-probe:	CTTCAGCTGGATCAA
Gene symbol:	IL4	Gene symbol:	XRCC1
Variant:	rs2243250	Variant:	rs25486

Forward primer:	GACCTGTCCTTCTCAAAACACCTAA
Reverse primer:	GGCAGAATAACAGGCAGACTCT
FAM-probe:	CATTGTTCCCCAGTGCT
VIC-probe:	CATTGTCCCCAGTGCT

Forward primer:	TGTCTCTCTCTCTCTGTCTGTCT
Reverse primer:	GATGCCAGTTAGGTGTGATCTGA
FAM-probe:	CTGTCTCGTCCCC
VIC-probe:	CTGTCTCATTCCCC

Gene symbol:	IL4
Variant:	rs2243270
Forward primer:	CAAAACAGTATCAACAGTTGACCCCTAT
Reverse primer:	CTCATCCCACCAGCCAGAG
FAM-probe:	AAATATTAACAGCAGTAGTTAC
VIC-probe:	AAAATATTAACAGCAATAGTTAC

Gene symbol:	XRCC1
Variant:	rs25487
Forward primer:	GTGGGTGCTGGACTGTCA
Reverse primer:	GCAGGGTTGGCGTGTA
FAM-probe:	CCTCCCGGAGGTAA
VIC-probe:	CCCTCCCAGAGGTAA

Gene symbol:	IL4R
Variant:	rs1801275
Forward primer:	GCCGAAATGTCCTCCAGCAT
Reverse primer:	CCTGCTCCACCGCATGTA
FAM-probe:	CAGTGGCTATCGGGAGT
VIC-probe:	CAGTGGCTATCAGGAGT

Gene symbol:	XRCC1
Variant:	rs25489
Forward primer:	GTGGTGCTAACCTAATCTACTCTTTGTCT
Reverse primer:	TGGGCTCGGTGCCTTCT
FAM-probe:	AGTCCAACCTCGTACCCAGCCA
VIC-probe:	CAGTCCAACCTCATACCCAGCCA

¶ B9D2 is a protein that lies partially within the TGFB1 promoter. Although within B9D2, these two SNPs are believed to be promoter polymorphisms of TGFB1.

** FAM82A is a hypothetical protein that lies immediately 5' of CYP1B1. This variant may be an intronic polymorphism of FAM82A or a CYP1B1 variant that lies 3' of the gene.