Locus 306 (rs4420638)

SNiPAcard

Block annotations

Block info

genomic range	chr19:45,422,160-45,424,514
block size	2,355 bp
variant count	5 variants

Basic features

Conservation/deleteriousness		Linked genes	
phyloP	μ = 0.205 [-0.072 – 0.427]	**gene(s) hit or close-by**	APOC1, CTB-129P6.7
phastCons	μ = 0.002 [0 – 0.005]	**eQTL gene(s)**	–
GERP++	μ = 0.441 [0 – 1.22]	**potentially regulated gene(s)**	–
CADD score	μ = 2.533 [0.94 – 4.059]	**disease gene(s)**	–

Trait annotations

Variant association

trait	min(p-value)	source DB	source entry/link	variant(s)
Longevity (90 years and older)	$<3.00\times10^{-36}$	GWAS Catalog	24688116	1
Longevity (85 years and older)	$<2.00\times10^{-26}$	GWAS Catalog	24688116	1
HDL cholesterol	$<2.00\times10^{-21}$	GWAS Catalog	24097068	1
Cholesterol, total	$<1.00\times10^{-149}$	GWAS Catalog	24097068	1
LDL cholesterol	$<2.00\times10^{-178}$	GWAS Catalog	24097068	1
Lipid traits	$<1.00\times10^{-14}$	GWAS Catalog	24023261	1
Age-related macular degeneration	$<2.00\times10^{-20}$	GWAS Catalog	23455636	1
Alzheimer's disease biomarkers	$<4.00\times10^{-12}$	GWAS Catalog	23419831	1
Alzheimer's disease	$<8.00\times10^{-149}$	GWAS Catalog	22832961	1
Cognitive decline	$<4.00\times10^{-27}$	GWAS Catalog	22054870	1
Alzheimer's disease (age of onset)	$<1.00\times10^{-12}$	GWAS Catalog	22005931	1
Lipoprotein-associated phospholipase A2 activity and mass	$<5.00\times10^{-30}$	GWAS Catalog	22003152	1
Longevity	$<2.00\times10^{-16}$	GWAS Catalog	21740922	1
C-reactive protein levels	$<9.00\times10^{-139}$	GWAS Catalog	21300955	1
C-reactive protein	$<3.00\times10^{-7}$	GWAS Catalog	21196492	1
LDL cholesterol	$<2.00\times10^{-40}$	GWAS Catalog	20864672	1
HDL cholesterol	$<4.00\times10^{-21}$	GWAS Catalog	20686565	1
Cholesterol, total	$<5.00\times10^{-111}$	GWAS Catalog	20686565	1
LDL cholesterol	$<9.00\times10^{-147}$	GWAS Catalog	20686565	1
Lipoprotein-associated phospholipase A2 activity and mass	$<6.00\times10^{-24}$	GWAS Catalog	20442857	1
C-reactive protein	$<5.00\times10^{-27}$	GWAS Catalog	19567438	1
Quantitative traits	$<2.00\times10^{-6}$	GWAS Catalog	19197348	1
LDL cholesterol	$<4.00\times10^{-27}$	GWAS Catalog	19060906	1
LDL cholesterol	$<2.00\times10^{-7}$	GWAS Catalog	18802019	1
LDL cholesterol	$<1.00\times10^{-20}$	GWAS Catalog	18262040	1
LDL cholesterol	$<1.00\times10^{-60}$	GWAS Catalog	18193044	1

LDL cholesterol	$<3.00\times10^{-43}$	GWAS Catalog	18193043		1
Alzheimer's disease	$<2.00\times10^{-44}$	GWAS Catalog	17998437		1
Alzheimer's disease	$<1.00\times10^{-39}$	GWAS Catalog	17975299		1
Alzheimer's disease (late onset)	$<1.00\times10^{-39}$	GWAS Catalog	17474819		1
Triglycerides	$<3.00\times10^{-13}$	GWAS Catalog	17463246		1

Putative effect on regulation

Variation proximal to gene

gene	variant type	min(distance)	transcript	RefSeq id	protein	variant(s)
APOC1	downstream gene variant	247	ENST00000588750	NM_001645.3	ENSP00000465356	4
APOC1	downstream gene variant	2611	ENST00000589078	?	ENSP00000465710	5
APOC1	downstream gene variant	245	ENST00000592885	?	ENSP00000467368	4
APOC1	downstream gene variant	380	ENST00000592535	?	ENSP00000468276	4
APOC1	downstream gene variant	247	ENST00000590334	?	ENSP00000465190	4
APOC1	downstream gene variant	243	ENST00000586638	?	ENSP00000466146	4
APOC1	downstream gene variant	246	ENST00000589781	?	ENSP00000467504	4
APOC1	downstream gene variant	240	ENST00000592176	?	ENSP00000466227	4
APOC1	downstream gene variant	243	ENST00000588802	?	ENSP00000468029	4
CTB-129P6.7	downstream gene variant	3935	ENST00000623895	?	?	3

Putative effect on transcript

Intron variant

gene	affected transcript	RefSeq id	protein	variant(s)
APOC1	ENST00000588802	?	ENSP00000468029	1
APOC1	ENST00000589781	?	ENSP00000467504	1
APOC1	ENST00000592885	?	ENSP00000467368	1
APOC1	ENST00000592535	?	ENSP00000468276	1
APOC1	ENST00000588750	NM_001645.3	ENSP00000465356	1
APOC1	ENST00000586638	?	ENSP00000466146	1
APOC1	ENST00000592176	?	ENSP00000466227	1

3'-UTR variant

gene	affected transcript	RefSeq id	protein	variant(s)
APOC1	ENST00000590334	?	ENSP00000465190	1