

Product datasheet for **MC201054**

Apoa1 (BC012253) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Apoa1 (BC012253) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Apoa1
Synonyms:	Alp-1; apo-AI; Apoa-1; apoA-I; Brp-14; Ltw-1; Lvtw-1; Sep-1; Sep-2; Sep2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC012253 GCTCCGGGGAGGTCACCCACACCCCTTCAGGATGAAAGCTGTGGTCTGGCCGTGGCTCTGGTCTTCCTGA CAGGGAGCCAGGCTTGGCACGTATGGCAGCAAGATGAACCCAGTCCCAATGGGACAAAGTGAAGGATTT CGCTAATGTGTATGTGGATGCGGTCAAAGACAGCGGCAGAGACTATGTGTCCAGTTTGAATCCTCCTCC TTGGGCCAACAGCTGAACCTGAATCTCCTGGAAAAGTGGGACACTCTGGGTTCAACCGTTAGTCAGCTGC AGGAACGGCTGGGCCATTGACTCGGGACTTCTGGGATAACCTGGAGAAAGAAACAGATTGGGTGAGACA GGAGATGAACAAGGACCTAGAGGAAGTGAACAGAAAGGTGCAGCCCTACCTGGACGAATTCAGAAGAAA TGGAAAGAGGATGTGGAGCTCTACCGCCAGAAGGTGGCGCCTCTGGGCGCCGAGCTGCAGGAGAGCGCGC GCCAGAAGCTGCAGGAGCTGCAAGGGAGACTGTCCCCTGTGGCTGAGGAATTTCCGCGACCGCATGCGCAC ACACGTAGACTCTCTGCGCACACAGCTAGCGCCCCACAGCGAACAGATGCGCGAGAGCCTGGCCAGCGC CTGGCTGAGCTCAAGAGCAACCCTACCTTGAACGAGTACCACACCAGGGCCAAAACCCACCTGAAGACAC TTGGCGAGAAAGCCAGACCTGCGCTGGAGGACCTGCGCCATAGTCTGATGCCCATGCTGGAGACGCTTAA GACCAAAGCCAGAGTGTGATCGACAAGGCCAGGAGACTCTGACTGCCAGTGAGGTGCCCGCTTCCAC TCCCCACCCCGCATTGGCTTTCTTACAATAAACCTTTCCAAAATGGAAAAAAAAAAAAAAAAAAAA
Restriction Sites:	RsrII-NotI
ACCN:	BC012253
Insert Size:	795 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).



Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [BC012253](#), [AAH12253](#)

RefSeq Size: 903 bp

RefSeq ORF: 795 bp

Locus ID: 11806

Cytogenetics: 9 25.36 cM

Gene Summary: This gene encodes a preproprotein that is proteolytically cleaved to yield a signal peptide and a proprotein that is subsequently processed to generate the active mature peptide. The encoded protein is the major protein component of plasma high density lipoprotein (HDL). This protein facilitates the removal of cholesterol and other fats from tissues by transporting them to the liver for excretion. This protein is a cofactor for lecithin cholesterolacyltransferase, an enzyme that catalyzes the conversion of free cholesterol to cholesteryl esters. Mutations in this gene in humans causes familial HDL deficiency, Tangier disease and familial visceral amyloidosis. Similar clinical features are exhibited by mice with mutations in this gene. This gene is clustered with three other apolipoprotein genes on chromosome 9. [provided by RefSeq, Dec 2013]