

Product datasheet for **SC303668**

Lipoprotein a (LPA) (NM_005577) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lipoprotein a (LPA) (NM_005577) Human Untagged Clone
Tag:	Tag Free
Symbol:	Lipoprotein a
Synonyms:	AK38; APOA; LP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_005577 edited
 ATGGAACATAAGGAAGTGGTTCTTCTACTTCTTTTATTTCTGAAATCAGCAGCACCTGAG
 CAAAGCCATGTGGTCCAGGATTGCTACCATGGTATGGACAGAGTTATCGAGGCAGTAC
 TCCACCACTGTACAGGAAGGACCTGCCAAGCTTGGTCATCTATGACACCACATCAACAT
 AATAGGACCACAGAAAACACTCCCAAATGCTGGCTTGATCATGAACTACTGCAGGAATCCA
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 TATTGTTATACGAGGGATCCCGGTGTCAGGTGGGAGTACTGCAAACCTGACGCAATGCTCA
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 ACAGGAAGAACCTGCCAAGCTTGGTCATCTATGACACCACACTCGCATAGTCGGACCCCA



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GAATACTACCCAAATGCTGGCTTGATCATGAACTACTGCAGGAATCCAGATGCTGTGGCA
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 CTTGTTATTGAGAATGAAGTGTGCAATCACTATAAGTATATTTGTGCTGAGCATTGGCC
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 AAATACATTTTACAAGGAGTCACTTCTTGGGGTCTTGGCTGTGCACGCCCAATAAGCCT
 GGTGCTATGCTCGTGTTCAGGTTTGTACTTGGATTGAGGGAATGATGAGAAATAAT
 TAA

- Restriction Sites:** Please inquire
- ACCN:** NM_005577
- Insert Size:** 6500 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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:** [NM_005577.1](#), [NP_005568.1](#)

RefSeq Size: 13938 bp

RefSeq ORF: 6489 bp

Locus ID: 4018

Cytogenetics: 6q25.3-q26

Protein Families: Druggable Genome

Gene Summary: The protein encoded by this gene is a serine proteinase that inhibits the activity of tissue-type plasminogen activator I. The encoded protein constitutes a substantial portion of lipoprotein(a) and is proteolytically cleaved, resulting in fragments that attach to atherosclerotic lesions and promote thrombogenesis. Elevated plasma levels of this protein are linked to atherosclerosis. Depending on the individual, the encoded protein contains 2-43 copies of kringle-type domains. The allele represented here contains 15 copies of the kringle-type repeats and corresponds to that found in the reference genome sequence. [provided by RefSeq, Dec 2009]