

Product datasheet for **SC319937**

Albumin (ALB) (NM_000477) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Albumin (ALB) (NM_000477) Human Untagged Clone
Tag:	Tag Free
Symbol:	Albumin
Synonyms:	FDAHT; HSA; PRO0883; PRO0903; PRO1341
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_000477.3
 CTAGCTTTTCTCTTCTGTCAACCCACACGCCTTTGGCACAATGAAGTGGGTAACCTTTA
 TTTCCCTTCTTTTTCTCTTTAGCTCGGCTTATTCCAGGGGTGTGTTTCGTCGAGATGCAC
 ACAAGAGTGAGGTTGCTCATCGGTTTAAAGATTTGGGAGAAGAAAATTTCAAAGCCTTGG
 TGTTGATTGCCTTTGCTCAGTATCTTCAGCAGTGCCATTTGAAGATCATGTAATAATTAG
 TGAATGAAGTAACTGAATTTGCAAAAACATGTGTTGCTGATGAGTCAGCTGAAAAATTGTG
 ACAAATCACTTCATACCCTTTTTGGAGACAAATTATGCACAGTTGCAACTCTTCGTGAAA
 CCTATGGTGAAATGGCTGACTGCTGTGCAAAACAAGAACCCTGAGAGAAAATGAATGCTTCT
 TGCAACACAAAGATGACAACCCAAACCTCCCCGATTGGTGAGACCAGAGGTTGATGTGA
 TGTGCACTGCTTTTCATGACAATGAAGAGACATTTTTGAAAAAATACTTATATGAAATTG
 CCAGAAGACATCCTTACTTTTATGCCCGGAACTCCTTTTCTTTGCTAAAAGGTATAAAG
 CTGCTTTTACAGAATGTTGCCAAGCTGCTGATAAAGCTGCCTGCCTGTTGCCAAAGCTCG
 ATGAACTTCGGGATGAAGGGAAGGCTTCGTCTGCCAAACAGAGACTCAAGTGTGCCAGTC
 TCCAAAAATTTGGAGAAAGAGCTTTCAAAGCATGGGCAGTAGCTCGCCTGAGCCAGAGAT
 TTCCCAAAGCTGAGTTTGCAGAAGTTTCCAAGTTAGTGACAGATCTTACCAAAGTCCACA
 CGGAATGCTGCCATGGAGATCTGCTTGAATGTGCTGATGACAGGGCGGACCTTGCCAAGT
 ATATCTGTGAAAAATCAAGATTCCATCTCCAGTAAACTGAAGGAATGCTGTGAAAAACCTC
 TGTTGGAAAAATCCCCTGCATTGCCGAAGTGGAAAAATGATGAGATGCCTGCTGACTTGC
 CTTTATTAGCTGCTGATTTTGTGAAAGTAAGGATGTTTGCAAAAATCTATGCTGAGGCAA
 AGGATGTCTTCCCTGGGCATGTTTTGTATGAATATGCAAGAAGGCATCCTGATTACTCTG
 TCGTGTCTGCTGCTGAGACTTGCCAAGACATATGAAACCACTCTAGAGAAGTGTGTGCCG
 CTGCAGATCCTCATGAATGCTATGCCAAAGTGTTCGATGAATTTAAACCTCTTGTGGAAG
 AGCCTCAGAATTTAATCAAAACAAAATTTGTGAGCTTTTTGAGCAGCTTGGAGAGTACAAAT
 TCCAGAATGCGCTATTAGTTTCGTTACACCAAGAAAGTACCCCAAGTGTCAACTCCAACCT
 TTGTAGAGGTCTCAAGAAACCTAGGAAAAGTGGGCAGCAAAATGTTGTAACATCCTGAAG
 CAAAAAGAATGCCCTGTGCAGAAGACTATCTATCCGTGGTCTGAACCAGTTATGTGTGT
 TGCATGAGAAAACGCCAGTAAGTGACAGAGTCACCAAAATGCTGCACAGAATCCTTGGTGA
 ACAGGGCTCCATGCTTTTCAGCTCTGGAAGTCGATGAAACATACGTTCCCAAAGAGTTTA
 ATGCTGAAACATTCACCTCCATGCAGATATATGCACACTTTCTGAGAAGGAGAGACAAA
 TCAAGAAACAACTGCCTTGTGAGCTCGTAAACACAAGCCCAAGGCAACAAAAGAGC
 AACTGAAAGCTGTTATGGATGATTTTCGAGCTTTTGTAGAGAAGTGTGCAAGGCTGACG
 ATAAGGAGACCTGCTTTGCCGAGGAGGGTAAAAAATGTTGCTGCAAGTCAAGCTGCCT
 TAGGCTTATAACATCACATTTAAAAGCATCTCAGCCTACCATGAGAATAAGAGAAAGAAA
 ATGAAGATCAAAAAGCTTATTCATCTGTTTTTCTTTTCGTTGGTGTAAAGCCAACACCCT
 GTCTAAAAAACATAAATTTCTTTAATCATTTTGCCTCTTTTCTCTGTGCTTCAATTAATA
 AAAAAATGGAAAGAATCGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_000477

Insert Size: 2100 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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_000477.3](#), [NP_000468.1](#)

RefSeq Size: 2215 bp

RefSeq ORF: 1830 bp

Locus ID: 213

UniProt ID: [P02768](#)

Cytogenetics: 4q13.3

Domains: ALBUMIN

Protein Families: Secreted Protein

Gene Summary: This gene encodes the most abundant protein in human blood. This protein functions in the regulation of blood plasma colloid osmotic pressure and acts as a carrier protein for a wide range of endogenous molecules including hormones, fatty acids, and metabolites, as well as exogenous drugs. Additionally, this protein exhibits an esterase-like activity with broad substrate specificity. The encoded preproprotein is proteolytically processed to generate the mature protein. A peptide derived from this protein, EPI-X4, is an endogenous inhibitor of the CXCR4 chemokine receptor. [provided by RefSeq, Jul 2016]