

OriGene Technologies, Inc.

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Product datasheet for SC323037

alpha 1 Antitrypsin (SERPINA1) (NM_001127707) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	alpha 1 Antitrypsin (SERPINA1) (NM_001127707) Human Untagged Clone
Tag:	Tag Free
Symbol:	SERPINA1
Synonyms:	A1A; A1AT; AAT; alpha1AT; nNIF; PI; PI1; PRO2275
Vector:	pCMV6 series
Fully Sequenced ORF:	<pre>>NCBI ORF sequence for NM_001127707, the custom clone sequence may differ by one or more nucleotides ATGCCGTCTTCGTCGTGGGGGCATCCTCCTGCTGGCAGGCCTGTGCTGCCTGGTCCCT GTCTCCCTGGCTGAGGATCCCCAGGGAGATGCTGCCCAGAAGACAGATACATCCCACCAT GATCAGGATCACCCAACCTTCAACAAGATCACCCCCAACCTGGCTGAGTTCGCCTTCAGC CTATACCGCCAACCTGGCACACCAGTCCAACAGCACCAACTGCGCTGAGTCGCCTTCAGC CTATACCGCCAAGCTGGCACACCAGTCCCACAGGCCAAGGCTGACACTCACGATGAAATC CTGGAAGGCCTGAATTTCAACCTCACGGAGATTCCGGAGGCTCAGATCCATGAAGGCTTC CAGGAAGTCCCCGTAACCTCACGGAGATTCCGGGGACACCGGCAGACGCCGGCAAT GGCCTGTTCCTCAGCGAGGGCCTGAAGCTAGTGGATAAGTTTTTGGAGGGATGTTAAAAAG TTGTACCACTCAGCAGGGCCTGAAGCTAGTGGATAAGTTTTGGAGGATGTTAAAAAG TTGTACCACTCAGCGAGGGCCTGAAGCTAGTGGAATAAGTTTTGGAGGATGTTAAAAAG TCTAACGATTACGTGGGAGAAGGGTACTCAAGGGAAAATTGTGGATTTGGTCAAGGAGCTT GACAGAGACACAGTTTTGCTCTGGTGAATTACATCTTCTTTTAAAGGCAAATGGGAGAGA CCCTTTGAAGTCAAGGACACCGAGGAAGAGGACTTCCACGTGGACCAGGTGACCACCGTG AAGGTGCCTATGATGAAAACCCGGGCAATGCCAACGGCAAGCAGGCCAGGTGACCACCGTG AAGGTGCCTATGATGAAATACCTGGGCAATGCCACCGCCACTCTTCTTCTGCTCGTGAT GAGGGGAAACTACAGCACCTGGGCAATGCCACCGCCATCTTCTTCTCTGCCTGAT GAGAGGGCAAACTACAGCACCTGGGCAATGCCACCGCCATCTTCTCTCTGCCTGAT GAGGGGAAACTACAGCACCTGGGCAATGCACCCCGCAATTCCACCAAGTTCCTG GAAAATGAAGACGAAAGGTCTGCCACCTGGACAATGCACCCCGCGTGCATAAGGCCT GACCTCTCCGGGGTCAACTGGGCCAATGCACCCCCGAAATGCACCAAGGCCT GACCTCTCCGGGGTCAACTGGGCAATGCACCCCCGAAGCCCCTGCATAAGGCCT GACCTCTCCGGGGTCAACTGGGCCAACTGCGGCCCATGCTTCAAGGCCT GTGCTGACCATCGACAGAGAGGACCCCCTGAAGCTGCCGGGCCATGCTTTAAGGCATA CCCATGTCTATCCCCCCCGAGGTCAAGTTCAACAAACCCTTTGTCTTCTTAATGATTGAA CCAAATACCAAGTCTCCCCCCTGTCAAGTCCACCAACCCCTTGACTAAGGCCATA CCCATGTCTATCCCCCCCGCAGGTCAAGTTCAACAAACCCTTTGTCTTCTTAATGATTGAA CAAAATACCAAGTCTCCCCCTGTCAAGTGCGGGGCAAGGCGCCACCACCAAAATGCCACCCCAAAAT CCCATGTCTATCCCCCCCTGTCAAGGTCAAGTGCTGCAACCACCCCAAAAA CAAAATACCAAGTCTCCCCCTCTTCATGGGAAAAGTGGTGAATCCCACCCCAAAAA CAAAATACCAAGTCTCCCCCTCTTCATGGGAAAAGTGGTGAATCCCACCCCAAAAAACCCAACCCCTTGCTTCTTAATGAACCAACC</pre>
Restriction Sites:	Please inquire
ACCN:	NM_001127707
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).



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ORIGENE alpha 1	Antitrypsin (SERPINA1) (NM_001127707) Human Untagged Clone – SC323037
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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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:	<u>NM 001127707.1, NP 001121179.1</u>
RefSeq Size:	3300 bp
RefSeq ORF:	1257 bp
Locus ID:	5265
UniProt ID:	<u>P01009</u>
Cytogenetics:	14q32.13
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein
Protein Pathways:	Complement and coagulation cascades
Gene Summary:	The protein encoded by this gene is a serine protease inhibitor belonging to the serpin superfamily whose targets include elastase, plasmin, thrombin, trypsin, chymotrypsin, and plasminogen activator. This protein is produced in the liver, the bone marrow, by lymphocytic and monocytic cells in lymphoid tissue, and by the Paneth cells of the gut. Defects in this gene are associated with chronic obstructive pulmonary disease, emphysema, and chronic liver disease. Several transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Aug 2020] Transcript Variant: This variant (11) differs in the 5' UTR compared to variant 1. All eleven variants encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.

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