

Product datasheet for **SC311874**

alpha 1 Antitrypsin (SERPINA1) (AF119873) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	alpha 1 Antitrypsin (SERPINA1) (AF119873) Human Untagged Clone
Tag:	Tag Free
Symbol:	SERPINA1
Synonyms:	A1A; A1AT; AAT; alpha1AT; PI; PI1; PRO2275
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for AF119873, the custom clone sequence may differ by one or more nucleotides ATGGGAACTAATTTCCCTTTTTGGGTAAGCCAGCTTACATTTTTAAATTGTCCATTACT GGAACCTATGATCTGAAGAGCGTCCTGGGTCAACTGGGCATCACTAAGGTCTTCAGCAAT GGGGCTGACCTCTCCGGGTACAGAGGAGGCACCCCTGAAGCTCTCCAAGGCCGTGCAT AAGGCTGTGCTGACCATCGACGAGAAAGGGACTGAAGCTGCTGGGGCCATGTTTTAGAG GCCATACCATGTCTATCCCCCGAGGTCAAGTTCAACAAACCTTTGTCTTCTAATG ATTGAACAAAATACCAAGTCTCCCCTTTCATGGGAAAAGTGGTGAATCCCACCCAAAAA
Restriction Sites:	Please inquire
ACCN:	AF119873
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).



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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: [AF119873.1](#), [AAF69627.1](#)

RefSeq Size: 1564 bp

RefSeq ORF: 363 bp

Locus ID: 5265

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]