

Product datasheet for **RC225663L4V**

alpha 1 Antitrypsin (SERPINA1) (NM_001127706) Human Tagged ORF Clone Lentiviral Particle

Product data:

| | |
|---------------------------|--|
| Product Type: | Lentiviral Particles |
| Product Name: | alpha 1 Antitrypsin (SERPINA1) (NM_001127706) Human Tagged ORF Clone Lentiviral Particle |
| Symbol: | alpha 1 Antitrypsin |
| Synonyms: | A1A; A1AT; AAT; alpha1AT; nNIF; PI; PI1; PRO2275 |
| Mammalian Cell Selection: | Puromycin |
| Vector: | pLenti-C-mGFP-P2A-Puro (PS100093) |
| Tag: | mGFP |
| ACCN: | NM_001127706 |
| ORF Size: | 1254 bp |
| ORF Nucleotide Sequence: | The ORF insert of this clone is exactly the same as(RC225663). |
| OTI Disclaimer: | 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene. |
| RefSeq: | NM_001127706.1 , NP_001121178.1 |
| RefSeq Size: | 3303 bp |
| RefSeq ORF: | 1257 bp |
| Locus ID: | 5265 |
| UniProt ID: | P01009 |
| Cytogenetics: | 14q32.13 |
| Protein Families: | Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein |
| Protein Pathways: | Complement and coagulation cascades |



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MW: 46.7 kDa

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]