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Product datasheet for RC222845L2V

Antithrombin III (SERPINC1) (NM_000488) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Antithrombin III (SERPINC1) (NM_000488) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Antithrombin III
Synonyms:	AT3; AT3D; ATIII; ATIII-R2; ATIII-T1; ATIII-T2; THPH7
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
Tag:	mGFP
ACCN:	NM_000488
ORF Size:	1392 bp
ORF Nucleotide Sequence:	`The ORF insert of this clone is exactly the same as(RC222845).`
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_000488.2
RefSeq Size:	1559 bp
RefSeq ORF:	1395 bp
Locus ID:	462
UniProt ID:	P01008
Cytogenetics:	1q25.1
Domains:	SERPIN
Protein Families:	Druggable Genome, Secreted Protein

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Protein Pathways: Complement and coagulation cascades

MW: 52.6 kDa

Gene Summary: The protein encoded by this gene, antithrombin III, is a plasma protease inhibitor and a member of the serpin superfamily. This protein inhibits thrombin as well as other activated serine proteases of the coagulation system, and it regulates the blood coagulation cascade. The protein includes two functional domains: the heparin binding-domain at the N-terminus of the mature protein, and the reactive site domain at the C-terminus. The inhibitory activity is enhanced by the presence of heparin. Numerous mutations have been identified for this gene, many of which are known to cause antithrombin-III deficiency which constitutes a strong risk factor for thrombosis. A reduction in the serum level of this protein is associated with severe cases of Coronavirus Disease 19 (COVID-19). [provided by RefSeq, Sep 2020]