

Product datasheet for **RG228342**

Alpha 2 Antiplasmin (SERPINF2) (NM_001165921) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Alpha 2 Antiplasmin (SERPINF2) (NM_001165921) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SERPINF2
Synonyms:	A2AP; AAP; ALPHA-2-PI; alpha2AP; API; PI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG228342 representing NM_001165921 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGTGTCTGGGGCTCCTGGTGCTCAGCTGGTCTGCCTGCAAGGCCCTGCTCCGTGTTCTCCC
CTGTGAGCGCCATGGAGCCCTTGGGCCGGCAGCTAACTAGCGGGCCGAACCAGGAGCAGGTGTCCTCCACT
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CCTGCACCCACCTCTGGTGTGGGAGAGGCCACCAAGGTCCGGCTGCCTAAGCTGATCTGAAACACCAA
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TTCTCTTCTTCACTTCGAGGACACCACAGGCCCTTCCCTCTTCTGTTGGCAGCGTGAGGAACCCCAACC
CCAGTGCACCGCGGGAGCTCAAGGAACAGCAGGATTCCTCCAGAGCCTGAA
AGGCTTCCCCCGGAGACAAGCTTTTCGGCCCTGACTTAAAACCTGTGCCCCCATGGAGGAGGATTAC
CCCCAGTTTGGCAGCCCCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG228342 representing NM_001165921
 Red=Cloning site Green=Tags(s)

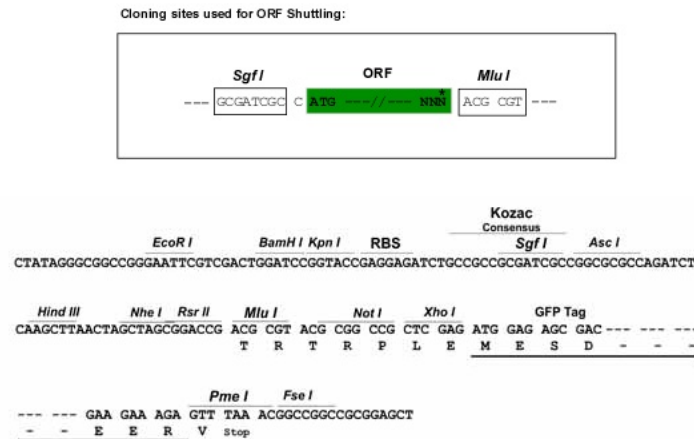
MALLWGLLVLSWSCLQGPCSVFSPVSAMEPLGRQLTSGPNQEQVSPLTLLKLGNVQVQPGAQNHTLQRLQQ
 VLHAGSGPCLPHLLSRLCQDLGPGAFRLAARMYLQKGFPIKEDFLEQSEQLFGAKPVSLTGKQEDDLANI
 NQWYKEATEGKIQEFLSGLPEDTVLLLLNAIHFGQFWRNKFDPSLTQRDSFHLDEQFTVPVEMMQARTYP
 LRWFLLQEPEIQVAHFPPKNNMSFVVLVPTHFEWNVSQVLANLSDWTLHPPLVWERPTKVRLPKLYLKHQ
 MDLVATLSQLGLQELFQAPDLRGISEQSLVVSQVHQSTLELSEVGVAAAATSIAMSRMSLSSFVNRP
 FLFFIFEDTTGLPLFVGSVRNPNPSAPRELKEQQDSPGNKDFLQSLKGFPRGDKLFGPDLKLVPPMEEDY
 PQFGSPK

TRTRPLE - GFP Tag - V

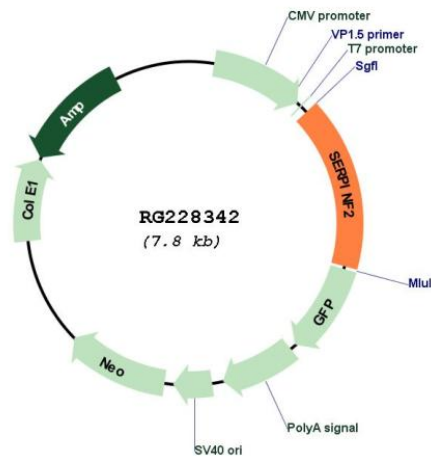
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001165921

ORF Size:	1281 bp
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.
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:	<ol style="list-style-type: none">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_001165921.2
RefSeq Size:	2126 bp
RefSeq ORF:	1284 bp
Locus ID:	5345
UniProt ID:	P08697
Cytogenetics:	17p13.3
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Complement and coagulation cascades
Gene Summary:	This gene encodes a member of the serpin family of serine protease inhibitors. The protein is a major inhibitor of plasmin, which degrades fibrin and various other proteins. Consequently, the proper function of this gene has a major role in regulating the blood clotting pathway. Mutations in this gene result in alpha-2-plasmin inhibitor deficiency, which is characterized by severe hemorrhagic diathesis. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2009]