OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC206435

Alpha 2 Antiplasmin (SERPINF2) (NM_000934) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Alpha 2 Antiplasmin (SERPINF2) (NM_000934) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Alpha 2 Antiplasmin
Synonyms:	A2AP; AAP; ALPHA-2-PI; alpha2AP; API; PLI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

ORF Nucleotide Sequence:

>RC206435 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGCTGCTCTGGGGGCTCCTGGTGCTCAGCTGGTCCTGCCTGCAAGGCCCCTGCTCCGTGTTCTCCC
CTGTGAGCGCCATGGAGCCCTTGGGCCGGCAGCTAACTAGCGGGCCGAACCAGGAGCAGGTGTCCCCACT
TACCCTCCTCAAGTTGGGCAACCAGGAGCCTGGTGGCCAGACTGCCCTGAAGAGTCCCCCAGGAGTCTGC
AGCAGAGACCCCACCCCAGAGCAGACCCACAGGCTGGCCCGGGCCATGATGGCCTTCACTGCCGACCTGT
TCTCCCTGGTGGCTCAAACGTCCACCTGCCCCAACCTCATCCTGTCACCCCTGAGTGTGGCCCTGGCGCT
GTCTCACCTGGCACTAGGTGCTCAGAACCACACGTTGCAGAGGCTGCAACAGGTGCTGCACGCAGGCTCA
GGGCCCTGCCTCCCCCATCTGCTGAGCCGCCTCTGCCAGGACCTGGGCCCCGGCGCGTTCCGACTGGCTG
CCAGGATGTACCTGCAGAAAGGATTTCCCATCAAAGAAGATTTCCTGGAACAATCCGAACAGCTATTTGG
GGCAAAGCCCGTGAGCCTGACGGGAAAGCAGGAAGATGACCTGGCAAACATCAACCAATGGGTGAAGGAG
GCCACGGAGGGGAAGATTCAGGAATTCCTCTCTGGGCTGCCGGAAGACACCGTGTTGCTTCTCCTCAACG
CCATCCACTTCCAGGGTTTCTGGAGGAACAAGTTTGACCCGAGCCTTACCCAGAGAGACTCCTTCCACCT
GGACGAGCAGTTCACGGTGCCCGTGGAAATGATGCAGGCCCGCACGTACCCGCTGCGCTGGTTCTTGCTG
GAGCAGCCTGAGATCCAGGTGGCTCATTTCCCCTTTAAGAACAACATGAGCTTTGTGGTCCTTGTACCCA
CCCACTTTGAATGGAACGTGTCCCAGGTACTGGCCAACCTGAGTTGGGACACCCTGCACCCACCTCTGGT
GTGGGAGAGGCCCACCAAGGTCCGGCTGCCTAAGCTGTATCTGAAACACCAAATGGACCTGGTGGCCACC
CTCAGCCAGCTGGGCCTGCAGGAGTTGTTCCAGGCCCCAGACCTGCGTGGGATCTCCGAGCAGAGCCTGG
TGGTGTCCGGCGTGCAGCATCAGTCCACCCTGGAGCTCAGCGAGGTCGGCGTGGAGGCGGCGGCGGCCAC
CAGCATTGCCATGTCCCGCATGTCCCTGTCCTCCTTCAGCGTGAACCGCCCCTTCCTCTTCTTCATCTTC
GAGGACACCACAGGCCTTCCCCTCTTCGTGGGCAGCGTGAGGAACCCCAACCCCAGTGCACCGCGGGAGC
TCAAGGAACAGCAGGATTCCCCGGGCAACAAGGACTTCCTCCAGAGCCTGAAAGGCTTCCCCCGCGGAGA
CAAGCTTTTCGGCCCTGACTTAAAACTTGTGCCCCCCATGGAGGAGGATTACCCCCAGTTTGGCAGCCCC
AAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC206435 protein sequence
Red=Cloning site Green=Tags(s)

MVLLWGLLVLSWSCLQGPCSVFSPVSAMEPLGRQLTSGPNQEQVSPLTLLKLGNQEPGGQTALKSPPGVC
SRDPTPEQTHRLARAMMAFTADLFSLVAQTSTCPNLILSPLSVALALSHLALGAQNHTLQRLQQVLHAGS
GPCLPHLLSRLCQDLGPGAFRLAARMYLQKGFPIKEDFLEQSEQLFGAKPVSLTGKQEDDLANINQWVKE
ATEGKIQEFLSGLPEDTVLLLLNAIHFQGFWRNKFDPSLTQRDSFHLDEQFTVPVEMMQARTYPLRWFLL
EQPEIQVAHFPFKNNMSFVVLVPTHFEWNVSQVLANLSWDTLHPPLVWERPTKVRLPKLYLKHQMDLVAT
LSQLGLQELFQAPDLRGISEQSLVVSGVQHQSTLELSEVGVEAAAATSIAMSRMSLSSFSVNRPFLFFIF
EDTTGLPLFVGSVRNPNPSAPRELKEQQDSPGNKDFLQSLKGFPRGDKLFGPDLKLVPPMEEDYPQFGSP
K

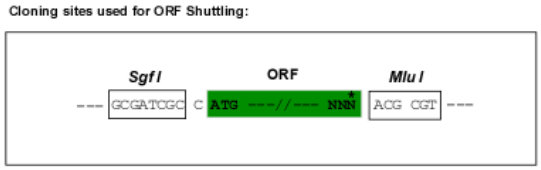
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

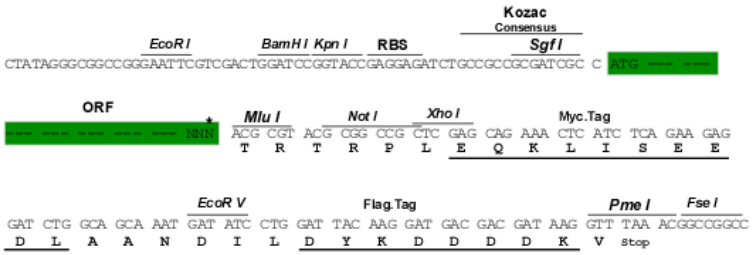
Chromatograms: https://cdn.origene.com/chromatograms/mk6832_a08.zip

Restriction Sites: SgfI-MluI

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

Cloning Scheme:





* The last codon before the Stop codon of the ORF

ACCN: NM_000934

ORF Size: 1473 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:
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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_000934.4

RefSeq Size: 2284 bp

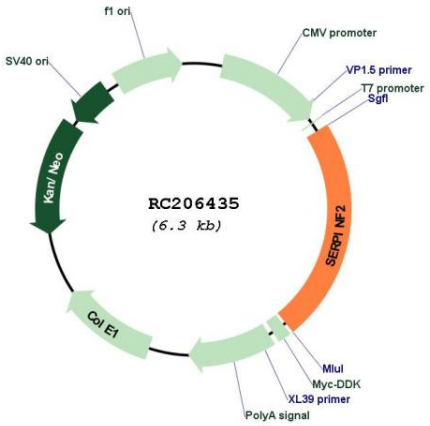
RefSeq ORF: 1476 bp

Locus ID: 5345

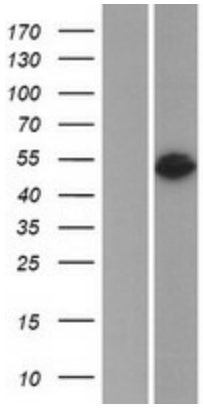
This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

UniProt ID:	P08697
Cytogenetics:	17p13.3
Domains:	SERPIN
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Complement and coagulation cascades
MW:	54.6 kDa
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]

Product images:

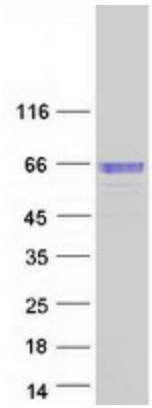


Circular map for RC206435



Western blot validation of overexpression lysate (Cat# [LY424449]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206435 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US



Coomassie blue staining of purified SERPINF2 protein (Cat# [TP306435]). The protein was produced from HEK293T cells transfected with SERPINF2 cDNA clone (Cat# RC206435) using MegaTran 2.0 (Cat# [TT210002]).

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US