

Product datasheet for **RG202802**

Serum Amyloid P (APCS) (NM_001639) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Serum Amyloid P (APCS) (NM_001639) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Serum Amyloid P
Synonyms:	HEL-S-92n; PTX2; SAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202802 representing NM_001639 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACAAGCCGCTGCTTTGGATCTCTGTCTCACCAGCCTCCTGGAAGCCTTTGCTCACACAGACCTCA
GTGGGAAGGTGTTTGTATTTCTAGAGAATCTGTTACTGATCATGTAACCTTGATCACACCGCTGGAGAA
GCCTCTACAGAACTTTACCTTGTGTTTTTCGAGCCTATAGTGATCTCTCTCGTGCCTACAGCCTCTTCTCC
TACAATACCAAGGCAGGATAATGAGCTACTAGTTTATAAAGAAAGAGTTGGAGAGTATAGTCTATACA
TTGGAAGACACAAAGTTACATCCAAAGTTATCGAAAAGTTCCCGCTCCAGTGCACATCTGTGTGAGCTG
GGAGTCTCATCAGGATTGCTGAATTTGGATCAATGGGACACCTTTGGTGAAAAGGGTCTGCGACAG
GGTTACTTTGTGGAAGCTCAGCCCAAGATTGTCCTGGGGCAGGAACAGGATTCCTATGGGGCAAGTTTG
ATAGGAGCCAGTCCTTTGTGGGAGAGATTGGGGATTTGTACATGTGGGACTCTGTGCTGCCCCAGAAAA
TATCCTGTCTGCCTATCAGGGTACCCCTCTCCCTGCCAATATCCTGGACTGGCAGGCTCTGAACTATGAA
ATCAGAGGATATGTCATCATCAAACCTTGGTGTGGGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG202802 representing NM_001639
 Red=Cloning site Green=Tags(s)

MNKPLLWISVLTSLLEAFHTDLSGKVFVFPRESVTDHVNLIITPLEKPLQNFTLCFRAYSDL SRAYSLFS
 YNTQGRDNELLVYKERVGEYSLYIGRHKVT SKVIEKFPAPVHICVSWESSGIAEFWINGTPLVKKGLRQ
 GYFVEAQPKIVLGQEQDSYGGKFD RSQSFSVGEIGDLYMWDSVLPENILSAYQGTPLPANILDWQALNYE
 IRGYVIKPLVWV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001639

ORF Size: 669 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.

RefSeq: [NM_001639.2](#), [NP_001630.1](#)

RefSeq Size: 959 bp

RefSeq ORF: 672 bp

Locus ID: 325

UniProt ID: [P02743](#)

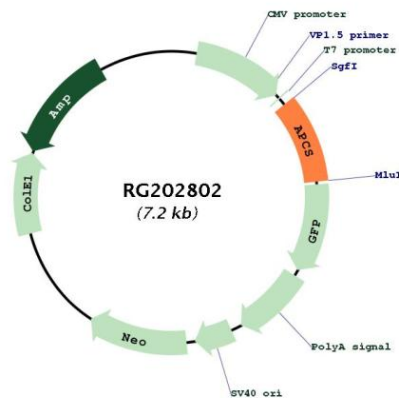
Cytogenetics: 1q23.2

Domains: PTX

Protein Families: Druggable Genome, Secreted Protein

Gene Summary: The protein encoded by this gene is a glycoprotein, belonging to the pentraxin family of proteins, which has a characteristic pentameric organization. These family members have considerable sequence homology which is thought to be the result of gene duplication. The binding of the encoded protein to proteins in the pathological amyloid cross-beta fold suggests its possible role as a chaperone. This protein is also thought to control the degradation of chromatin. It has been demonstrated that this protein binds to apoptotic cells at an early stage, which raises the possibility that it is involved in dealing with apoptotic cells in vivo. [provided by RefSeq, Sep 2008]

Product images:



Circular map for RG202802