

Product datasheet for **SC116481**

AP3S2 (NM_005829) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AP3S2 (NM_005829) Human Untagged Clone
Tag:	Tag Free
Symbol:	AP3S2
Synonyms:	AP3S3; sigma3b
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_005829 edited ATGATTCAGGCGATTCTGGTTTTCAACAACCATGGGAAGCCACGGCTAGTCCGCTTCTAC CAGCGTTTCCCAGAAGAAATTCACAGCAGATTGTTTCGAGAGACTTCCATCTAGTCCTC AAGCGGGATGACAACATCTGTAACCTTCTGGAGGGTGGAAAGTTTGATTGGTGGCTCTGAC TACAAACTGATCTACCGCACTATGCTACCCTCTACTTTGTATTTTGTGTGGATTCCCTCA GAGAGTGAACCTTGAATCTTGGACCTCATCCAGGTTTTGTGGAACTCTGGATAAGTGT TTCGAAAATGTGTGTAATTGGATTTGATCTTCCATATGGATAAGGTGCACTACATCCTC CAGGAGGTGGTATGGGTGGGATGGTGTGGAAACAAACATGAATGAAATCGTGGCTCAG ATTGAGGCTCAAACAGGCTGGAGAAATCCGAGGGTGGCCTTTCAGCAGCCCCTGCGCGG GCTGTGCTGCTGTGAAAAACATCAACCTGCCAGAGATTCTCGAACATCAACATTGGC GATCTCAACATCAAAGTCCCAACCTGTCCAGTTTGTCTGA



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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_005829 unedited
ATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGATGATTCAGGC
GATTCTGGTTTTCAACAACCATGGGNAAGCCACGGCTAGTCCGCTTCTACCAGCGTTTCC
CAGAAGAAATTCACAGCAGATTGTTCCGAGAGACTTTCCATCTAGTCCTCAAGCGGGATG
ACAACATCTGTAACCTTCTGGAGGGTGAAGTTTGATTGGTGGCTCTGACTACAACTGA
TCTACCGGCACATGCTACCTCTACTTTGTATTTTGTGTGGATTCTCAGAGAGTGAAC
TTGGAATCTTGGACCTCATCCAGGTTTTTGTGGAACCTCTGGATAAGTGTTCGAAAATG
TGTGTGAATTGGATTTGATCTTCCATATGGATAAGGTGCACTACATCCTCCAGGAGGTGG
TGATGGGTGGGATGGTGTGGAAACAAACATGAATGAAATCGTGGCTCAGATTGAGGCTC
AAAACAGGCTGGAGAAATCCGAGGGTGGCCTTTCAGCAGCCCTGCGCGGGCTGTGTCTG
CTGTGAAAACATCAACCTGCCAGAGATTCTCGGAACATCAACATTGGCGATCTCAACA
TCAAAGTCCCAACCTGTCCAGTTTGTCTGANGATCAAGTATTGGCCTGAAATAGAGTC
CTTAAGACAAGCAAGACAAGCAAGGCAAGCACGTCTGGAACAGAACCCATTTTGAACC
TTAGAAGAGTCAAGCCTCAGGACCTGGAACCTTTGTGTCTGGGAAGACTGTTTGGCATG
GATAAGGGAAGGGATTCTATTGACACTGCTCGGGTGCACCCAGTTCTCACATGTGCAGT
CATGCCGTTCTCTGATGCATACGCCCTTGAGATGGAGAGGGCCCTGC
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3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_005829 unedited
CGCGCGGCCCAACACAAACACATTATCTNNCNNNNGCENNTTACTGTGNNCNCACGGNCC
GCTATTTTANGANCGAGTTTTTTTTTTTTTTTTTGTCTCATGAGGAGATGATTTTAA
ACTTGGGAAGAGTCATAATTCTGGGATGTTTACATGTTGTGAGCTTTAACCTTCTACAG
ACACAGGCCCTCTCTCTGTGAGGAGGGACCTCTGGCATGTGTGGGTGTGTGGTGGTCC
CTCTCCCTATTAGCAGAAATGTGTTGGGCATGAGCCAGGTTTATGATTTGGATTGTGTCC
TGCACATAACACCTGTGAGAATACAACCTGGGACTAGGACAATGCGGGAAGCATATTCTTC
ATGAGGGCGGTAACCAAAAGGCTTGGCTATACCAAAGGATTCTGGTGGCCGGGCACGGTGG
CTCACACCTGTAATGCCAGCACTTTGGGAGGCCAAGGCGGGTAGATCACTTGAGGTCCAG
GAGTTCGAGCCCAGCCTGGCCAACATGGTGAAACCCTGTCTCTACTAAACATAACAACAT
TAGCTGGGCATGGTGGTGGTGCCTGTAATCCCAGCTACTGNGGAGGCTGAGACAGGAGA
AATGCTTGAACCCGGGAAGCAGAGTTGCAGTGAGCCGAGATTGCACCACAGCACTCCAG
CCTGNGTGACAGAGGCAGACTCCACCTCAAAAAAAAAAACCCAAAAAAAAACAAAAGGG
ATTCTGGGTTGTAACAATTCTCANTAAGAGCCAGCGGGTGGACTCTTGGTTCTCCTAAAA
ATTCTGCCCTTATTTGCCACTACCCACACCCCCAGATCTGAAAGGGCCAGCCTTTTT
TTACCTATGGAACCCTCACCCAGCAGTTAAAGGCCACCAGGACCTCTAAAAGTCTGTGGT
GCCTAAGATGAAGACTCTTCTCAAAAAAGGGGCTCACCCCTAATAAGGAGGTTTTGGAA
ACAAGGTGGCCTGCTAAATGCAACCCTTACCCTTGGGAGCTTCTTGGAAAAGGAAAGGG
CCAAAGT
```

Restriction Sites:

NotI-NotI

ACCN:

NM_005829

Insert Size:

1830 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_005829.3](#), [NP_005820.1](#)

RefSeq Size: 2578 bp

RefSeq ORF: 582 bp

Locus ID: 10239

UniProt ID: [P59780](#)

Cytogenetics: 15q26.1

Domains: Clat_adaptor_s

Protein Pathways: Lysosome

Gene Summary:

Part of the AP-3 complex, an adaptor-related complex which is not clathrin-associated. The complex is associated with the Golgi region as well as more peripheral structures. It facilitates the budding of vesicles from the Golgi membrane and may be directly involved in trafficking to lysosomes. In concert with the BLOC-1 complex, AP-3 is required to target cargos into vesicles assembled at cell bodies for delivery into neurites and nerve terminals.

[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the shortest transcript but encodes the supported protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.