

Product datasheet for **SC319157**

alpha Adaptin (AP2A2) (NM_012305) Human Untagged Clone

Product data:

| | |
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| Product Type: | Expression Plasmids |
| Product Name: | alpha Adaptin (AP2A2) (NM_012305) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | alpha Adaptin |
| Synonyms: | ADTAB; CLAPA2; HIP-9; HIP9; HYPJ |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC (PS100020) |
| E. coli Selection: | Ampicillin (100 ug/mL) |

Fully Sequenced ORF: >OriGene sequence for NM_012305.2
 CTGGGACCCTGAGGCGGCGTGGTTAGGCGGCTCCCCGGCGGCTCCTCCGCGCGGTGAC
 GGCGACCGCACTCCCGCTTCCCGCTCCCGCGCTCCTCCGCCGGTCCGCCAGCCGAG
 GCCGCTCCCGAGCGTCGGAAGATGCCGGCGTGTCCAAGGGGACGGGATGCGGGGCTG
 CGGTCTTCATCTCGGATATCCGCAACTGTAAAAGTAAAGAAGCAGAAATAAAAAGGATA
 AACAAAGAACTGGCAAATATCAGATCAAAATTTAAAGGTGACAAGGCTCTTGATGGCTAT
 AGTAAAAAAGTACGTCTGCAAGTTGCTTTCATCTTTCTCCTTGGTCATGACATTGAC
 TTTGGACACATGGAGGCTGTGAACCTGCTGAGTTCAAACAGATACACGGAAAAGCAGATC
 GGCTACCTTTTCATCTCTGTGTTGGTGAACCTCAAACAGTGAAGTATCCGCTGATCAAC
 AACGCCATCAAGAATGACCTGGCCAGCCGCAACCCACCTTCATGGCCCTGGCCCTGCAC
 TGCATCGCCAGCGTGGGAGCCGGGAGATGGCCGAGGCTTCGCCGGGAGATCCCTAAG
 GTCTCTGAGCCGAGACTATGGACAGCGTGAAGCAGAGCGCGCCCTGTGCTTGCTG
 CGCCTGTACAGGACGTCCCCGATCTTGTCCCCATGGGCGACTGGACATCCCGAGTGGT
 CACCTGTCAATGACCAGCACTTGGGTGTGGTAACTGCAGCCACAAGTCTGATCACCCT
 TTAGCACAGAAGAACCAGAAAGAGTTTAAACCTCCGTGTCTCTGGTGTCTCTAGGCTA
 AGCAGAATCGTGACGTCTGCATCCACAGATCTCCAGGATTACCTTACTATTTTGTCCC
 GCTCCCTGGTGTCTGTCAAACCTGCTGAGACTGCTGCAGTGTACCCACCCAGACCCT
 GCAGTGCAGGCGCCTGACTGAGTGCCTGGAGACCATCTGAACAAAGCCCAAGAACC
 CCAAGTCGAAGAAGGTCCAGCACTCAAACGCGAAGAATGCCGTGCTCTTCGAGGCCATC
 AGCTTAATCATTACCATGACAGTGAGCGGAACCTGCTCGTCCGTGCCTGCAACCAAGT
 GGCCAGTTTCTGCAGCACCGGAGACCAACCTGCGCTACCTGGCCCTGGAGAGCATGTGC
 ACGCTGGCCAGCTCTGAGTTCTCCATGAGGCTGTCAAGACGCACATCGAGACGGTCATC
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 GCCATGTGCGACCGCAGCAACGCCCCACAGATCGTGGCCGAGATGCTGAGCTATCTGGAG
 ACAGCTGACTACTCCATCCGAGAAGAGATTGTGCTGAAGGTGCCATCCTGGCTGAGAAG
 TACGCGGTGGACTACACCTGGTATGTGGATACCATCTTGAACCTGATCCGAATTGCTGGT
 GATTACGTGAGTGAAGAGGTGTGGTACCGAGTCATTCAGATCGTCATCAACCGGGACGAC



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GTGCAGGGCTACGCGGCCAAGACTGTGTTTCGAGGCTCTTCAGGCTCCCGGTGCCACGAG
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CCGAGATCCAGCCCGCTGATCCAGTTCACCTGCTGCACTCCAAGTTCACCTGTGCAGC
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GGTGGATCTTGGGATCAATTTTTATAAAAATCGAGACAGTTCTGTGGTTAAATCTACAAA
TTAAAGGAAATTAGAAAAAAAAAAAAAAAAAAAAA
    
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- Restriction Sites:** Please inquire
- ACCN:** NM_012305
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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_012305.2](#), [NP_036437.1](#)

RefSeq Size: 4616 bp

RefSeq ORF: 2820 bp

Locus ID: 161

UniProt ID: [O94973](#)

Cytogenetics: 11p15.5

Protein Pathways: Endocytosis, Huntington's disease

Gene Summary: The protein encoded by this gene is a subunit of the AP-2 adaptor protein complex, which is involved in linking lipid and protein membrane components with the clathrin lattice. This interaction supports the formation of clathrin-coated vesicles, and the encoded subunit aids in the process by binding polyphosphoinositide-containing lipids in the cell membrane.

[provided by RefSeq, Nov 2016]

Transcript Variant: This variant (2) uses an alternate in-frame splice site in the central coding region, compared to variant 1, resulting in an isoform (2) that is 1 aa shorter than isoform 1.

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.