

Product datasheet for **SC117682**

AP1G2 (NM_003917) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AP1G2 (NM_003917) Human Untagged Clone
Tag:	Tag Free
Symbol:	AP1G2
Synonyms:	G2AD
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_003917, the custom clone sequence may differ by one or more nucleotides

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ATGGTGGTGCCTTCGCTGAAGCTTCAGGACCTCATCGAAGAGATTCGCGGGGCCAAGACTCAGGCCCAGG
AGCGGGAGGTGATCCAAAAGGAGTGTGCCACATCCGGGCCTCCTCCGCGACGGGGACCCAGTGACACAG
GCACCGGCAGCTGGCCAAACTGCTCTACGTCCACATGTTGGGCTACCCCGCCCACTTTGGACAGATGGAG
TGCTGAAACTGATCGCCTCCTCCAGATTACAGACAAGAGGGTGGGCTACCTGGGGGCCATGCTTCTAT
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GCCAGTACAAGGCCTGGCCTTGTGCACTTTGAGCACCATGGGCTCTGCTGAGATGTGCCGAGACCTGGCC
CCAGAGGTGGAGAACTGCTCCTGCAGCCAGTCCCTACGTGCGCAAGAAGGCTATTCTGACTGCAGTGC
ACATGATCCGGAAGGTCCCTGAACTCTCCAGTGTCTTCTCCACCCTGTGCCAACTGCTTCATGAGCG
TCACCATGGCATCCTGCTGGGCACCATCACGCTGATCACGGAGCTCTGCGAACGAAGCCCTGCAGCCCTC
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TGTAGCCCTGACATCACTGCTTCGACTGGTGCAGTCTGATCACAGTGTGTGCAGCGGCATCGGCCCACT
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GACACCATCCTGCATGTGCTGACAACGGCGGGCACCCATGTGCGGGATGATGCAGTGGCCAACTGACCC
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ACCAACTTCTCAGAGGTGATGTACCCATTTCTGTCAGGCTGCTGTGCCAAGAGTCTCCAGCTGC
AGCTGCAGGCCCCAGTGGGAACACAGTTCAGCTCGGGGTGGCCTTCTATCACCAGCTCTTCAGAA
CCTCAATCCTAACAAGGCCCCCTGCGGCTAAGCTGCGCCTCACCTACGACCACTTTCACCACTCGGTG
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003917 unedited
TACGACTCACTATAGGGCGGCCGAATTCGGCACGAGGCGGAGCACCAACCCCTGCTCG
GCCCCGTACCAGGAAGCGCTGGGGGCGAGAGGAGCGGAGTTGAGGCAGAAAGCCAGGATGG
TGGTGCCCTTCGCTGAAGCTTCAGGACCTCATCGAAGAGATTGCGGGGCCAAGACTCAGG
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TGCTCATTACCAACAGCATCAAGAATGACCTGAGCCAGGGGATTAGCCAGTACAAGGCC
TGGCCTTGTGCACTTTGAGCACCATGGGCTCTGCTGAGATGTGCCGAGACCTGGCCCCAG
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CAGTGACATGATCCNGGAAGTCCCTGAACTCTCCAGTGTCTTCTCCACCCTGTGCC
CAACTGCTTCATGAGCGTCACCATGGCATCCTGCTGGGCACCATCACGCTGATCACGGAG
CTCTGCGAACGAAGCCCTGCAGCCCTCAGGCACTTCGAAAAGGTGGTACCCAGCTGGT
CACATNCTNCGGACTCTGGGTGACATGGGATACTNCACAGACACAGCATATNNTGGAGTC
AGCGACCCCTTNCCTGCAGTCCAGATACTTCGTTGNCCTTTCGGAACCTGGGGCCGAACCAC
GAGGGGAGAGCAGTGAGACCACTGATGGACTTGCTGGNCCAGGTGGNCCACTACACGAC
ACCNCGATGCGNGAAAGTGGGGGCTCTGTTTAAAATACTCACTCATGGATTCTG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003917 unedited
AGCTATGNACCGCGGCACGCTATCTAAGATCGGTTTTTTTTTTTTTTTTTTGGCTTTCC
TCACTTCTCAGGCTTTATTGGGCTTTATTGTGGGAGAAGGGGGCTGGTCCCCAGTTTTT
GCAGTGCAAAGCCAGAGCGCCACCTGCTGGTAGCCCTCAAGTGTAAGTTCGAAGCTGCTG
GGGCCCCCTGGGGTTTGGGACACAGGAGAATTTAGGCTGTGAGTGGAGACAGTTACTGC
CACGATTTCCACAGGCAAGTTGTTACCTCAAAGATCTCCTGCACCGACTGGTGAAAGTGG
TCGTAAGTGAAGCGCAGCTTTATCCGCAGGGGGGCTTGTAGGATTGAGGATTCTGAAG
AGCTGGGTGATAGGAAGGCCACCCGAGCTGGAAGTGTGTTCCCACTGGGGGCTGCAGC
TGCAGCTGGAGACTCTTGGGCACAGCAGCTGGCAGATGAAATGGGTGACATCACCTCT
GAGAAGTTGGTGGCAGTGTGTTGATTAAACAGCAAAGCAGGGTTTTTCAGGGGGTCAATG
AAAGACAGATTACGCTGTACTCCCTCAGCTCAAACACTTTGAGATCTGGGATGGGAGCT
GGGGGTGGAGGTACACAGGGAAGGTCAAGCAGGTGTACCAAGGCACCTCTGGGGAGGGG
TCCAGATGGGGAGGATGTGGACATCCCCAGAAGCCCCATCCAGGAGATCTAGCAGATCC
AGGAGCTGTGAAGCCTGGGGCTCTGTGGGCACTGGGGCTGCTTCTGAAAGCTGGGCTGCT
TCTTTGCTTTCTTTGCTTCTCATCAGCCTGAAGGCCATCTCGCTCCACAGAATGCATT
TTTTCCAAGATGCAGCCCTCAGTGGTCTGATTTCCGGAAGAGTGTGTATACTTCACAGCC
GCTGCTGCAGCTCAGTCCAAGCAGTTCCTGATGACACCCCTGCCGATGCCGTGTTGT
CCCAAAAG

Restriction Sites:

NotI-NotI

ACCN:

NM_003917

Insert Size:

2660 bp

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).

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:	<u>NM_003917.2, NP_003908.1</u>
RefSeq Size:	2876 bp
RefSeq ORF:	2358 bp
Locus ID:	8906
UniProt ID:	<u>O75843</u>
Cytogenetics:	14q11.2
Domains:	Adaptin_N, Alpha_adaptinC2
Gene Summary:	Adaptins are important components of clathrin-coated vesicles transporting ligand-receptor complexes from the plasma membrane or from the trans-Golgi network to lysosomes. The adaptin family of proteins is composed of four classes of molecules named alpha, beta-, beta prime- and gamma- adaptins. Adaptins, together with medium and small subunits, form a heterotetrameric complex called an adaptor, whose role is to promote the formation of clathrin-coated pits and vesicles. The protein encoded by this gene is a gamma-adaptin protein and it belongs to the adaptor complexes large subunits family. This protein along with the complex is thought to function at some trafficking step in the complex pathways between the trans-Golgi network and the cell surface. [provided by RefSeq, Aug 2017] Transcript Variant: This variant (1) encodes the longest isoform (1).