

Product datasheet for **SC119413**

gamma Adaptin (AP1G1) (NM_001128) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	gamma Adaptin (AP1G1) (NM_001128) Human Untagged Clone
Tag:	Tag Free
Symbol:	gamma Adaptin
Synonyms:	ADTG; CLAPG1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC119413 sequence for NM_001128 edited (data generated by NextGen Sequencing)

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ATGCCAGCCCCATCAGATTGCGGGAGCTGATCCGGACCATCCGGACAGCCCGAACCCAA
GCTGAAGAACGAGAAATGATCCAGAAAGAAATGTGCTGCAATCCGGTCATCTTTTAGAGAA
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TGGCAATGA
    
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Clone variation with respect to NM_001128.5

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001128 unedited
 NGGTTTCAATATTTGTATACGACTCACTATTAGGGCGGCCGATTTCGGCACGAGTGCCG
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 GACCAACTGTATCAAGAATGATCTTAATCATAGCACGCAATTCGTACCGGGGTTAGCAC
 TTTGTACCCTCGGCTGCATGGGCTCTCAANAATGGNCANAGATCTGCAGGGAGAGGTAN
 AGAAGCTCCTGANACCTCCACTTACTTAGAAAAGCGCACTGGGGTGCTGGTATGCTCN
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3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001128 unedited
 ATTTTTAACCGTGTGGTCTTTTATTTAAGTGCCAGTGTTACAGTTACAACACAAATGTTCC
 CAGTTAGAAGGAATTCAAACGGAATGCCAAGTCCAAGCCAGGCTCAAAAAATAAAAAGG
 GAGGTTTGGAGTAATAAAATAAAATGACTCCAATACTCACTCTTCTAAGGGCAAAGTCC
 TTTTGATACAGAGTCTGATCTTTGAAACTGGTGAACCTCTTCCACCCATTACCATAGT
 TCAAACAGGCAAGTTATGGGCTTAGGACCACTTAAAAATTTGGGGGGGAATAGGGTCAT
 TAATAACTATGAATATATCTTTAAAAGGTGACCATTTTGCACTTTAAAGGGAATCAATT
 TTGAAAATCATGGAACTATTATGACTACAGCTAAAAATGGCGAAAAAGGGGAGCTGG
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 AAAAGCTCTTTTAACTCCATCTGTCCAGTGTTAACAAATAAACTCGCAAGGTCTGACCA
 GTTCTTGGTAACAAACATACATGTGTGTGTGTGTATACAGCAATGCACAAAAAAGG
 CTACCAGGACCTAATGCCTCTTTCAAACATTGGGGGAACCAAGTAGAAAAAGGCAGGGCT
 CCCTAATGTCCATTATTACATTTCCATTCCGAATGCCAGATGTTAAAAAGTGCCTGAAGAT
 GGTAAACCAGCTAGTGAGGAATAAATACCCACCTTGCCAGTCCACAGGGAACAACAG
 TNGAAAGAGGGGGCACTTCTTGTGCAAGACAATGAGTGTTTTTCCCATGGATCGC
 AGTCCTTCTCA

Restriction Sites:

NotI-NotI

ACCN:

NM_001128

Insert Size:

4280 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: [NM_001128.5](#), [NP_001119.3](#)

RefSeq Size: 6841 bp

RefSeq ORF: 2469 bp

Locus ID: 164

UniProt ID: [O43747](#)

Cytogenetics: 16q22.2

Domains: Adaptin_N, Alpha_adaptinC2

Protein Pathways: Lysosome

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. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (2) lacks an in-frame exon compared to variant 1. The resulting isoform (b) has the same N- and C-termini but is shorter compared to isoform a.