

## Product datasheet for **SC324581**

### gamma Adaptin (AP1G1) (NM\_001030007) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	gamma Adaptin (AP1G1) (NM_001030007) Human Untagged Clone
Tag:	Tag Free
Symbol:	gamma Adaptin
Synonyms:	ADTG; CLAPG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_001030007.1  
TAGTCCTCGGCAGGGTCCGAGTTCTTGGATAATTCGAGAGAAAAGGCACGATAAGTTGCA  
GTACGAGGACACGAAACGACCAGGAGAGAGGAGGACAGGGAGCGAAGTTTCTCAATAGTG  
TGTGAAGTTAGTTAAAACTCCCTCCTTCTCAGGATCCCTCCGCCTGCGGTAGCCGGTGG  
TGAGGCCGAGGGAGCCGCAATTTTGATGTTTCGGTTTCTGCTGCCACTGTGCCGCCGCC  
CCCGAGCTGCTGGTTTCATTTCGAGTTTCGGGCCGAGGATGCCAGCCCCATCAGATTG  
CGGGAGCTGATCCGGACCATCCGGACAGCCGAACCCAAGCTGAAGAACGAGAAATGATC  
CAGAAAGAATGTGCTGCAATCCGGTCATCTTTAGAGAAGAAGACAATACATACCGATGT  
CGGAATGTGGCAAATTAAGTGTATATGCACATGCTGGGCTACCCTGCTCACTTTGGACAG  
TTGGAGTGCTTCAAGCTTATGCCTCTCAAAAATTTACAGACAAACGCATTGGCTATTTA  
GGGCAATGCTGCTGTTAGATGAAAGACAAGATGTCCATCTTCTCATGACCAACTGTATC  
AAGAATGATCTTAATCATAGCACGCAATTCGTACAGGGTTAGCACTTTGTACCCTCGGC  
TGATGGGCTCCTCAGAGATGTGCAGAGATCTTGCAAGGAGAGGTAGAGAAGCTCCTGAAA  
ACCTCAAACCTTACTTAAGAAAAAGGCAGCACTGTGTGCTGTTTATGTCATCAGGAAA  
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CATGGTGTCTCCACACATCTGTAGTCTCCTCACAGAAATGTGTGAGCGAAGCCAGAC  
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AACCTCATCATGTCGGATATTCACCAGAACATGATGTTTCTGGTATCAGTGACCCCTTT  
TTGCAGGTACGAATTTTGGGTTATTAAGAATTTTAGGACGAAATGATGATGATTCAAGT  
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GGAAATGCTATTTTATGAAACGGTTTTGACTATCATGGATATTAAGTCAGAGAGTGGA  
TTGCGAGTCTAGCCATAAATATCCTGGGTCGTTTCTTATTGAACAATGACAAGAATATT  
AGATATGTGGCTCTGACATCTTTGTTGAAGACTGTACAGACAGATCATAATGCAGTACAG  
AGGCACAGAAGCACAATTGTGGACTGTCTTAAAGATTTGGATGTCTCAATAAACGGCGT  
GCAATGGAATTGAGTTTTGCCCTGGTAAATGGGAATAATATCCGAGGCATGATGAAAGAA  
TTACTTTATTTCTGGATTCGTGTGAGCCAGAATTTAAAGCAGACTGTGCATCTGGAATC  
TTTCTTGTGCAGAAAAGTATGCACCTTCAAACGATGGCATATAGACACAATTATGCGT



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GTTTTGACAACGGCAGGAAGTTATGTTCTGTATGATGCAGTCCCCAATTTAATCCAGTTA  
ATAACTAATAGTGTGGAGATGCATGCCTATACTGTCCAGCGCCTGTACAAAGCAATTCCT  
GGTGATTATTCTCAACAACCTTTGGTACAAGTGGCTGCATGGTGTATAGGTGAATATGGT  
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CCTACAAGCAAACCATCTTCTGCTGGTGGAGAACTTCTTGATTTGCTGGGAGACATCAAC  
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TCAGCAATGCAAGATCTAGCAGAGGTGAACAACCTTCCCCTCAGTCTGGCAATGAGGG  
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CATTGGGAATGGAATGTAATAATGGACATTAGGGAGCCCTGCCTTTTCTACTGTTCC  
CCCAATGTTTGAAGAGGCATTAGGCTCCTGGTAGCCTTTTCTGTGCATTGCTGTATACA  
CACAGACACACATGTATGTTTGTACCAAGAAGTGGTCAAGCCTTGGCAGTTTATTTG  
TAAACACTGGACAGATGGAGTAAAAAGAGCTTTTGTGAGATTTGGCATTGAAGGATATG  
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TAGCTGTAGTCATGAATAGTCTCCATGATTTTCAAATGATTCCCTTTAAAGTGCAAAA  
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TAAAGTGTCTTAAAGCCATAACTTGCCTGTTGAACTATGGTAAATGGGTGGAAGAGGAG  
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GGACCTTGGCATTCCGTTTGAATTCCTTCTAACTGGAACATTTGTGTTGTATCTGTAACA  
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GAAAGGACCCATATGTTATCAAACCTTGAATGAGTTGCTGGAATGAAGTAGAGGTGAC  
TCTCTGTGGTACACATTGAATGACTATGTATGTTCAAGTATTCAGGCGCCATGTCTT  
ATATACTGAAGAAAGAAAAGTGAAGGCCACCTTGTCTTAAATGTTTGAATTTGTTAC  
TGTATTGAATACAGTATAATGACTACTATGGCTTCAATCTTAAACCTGGAACAAAATATC  
CCTTTTTTCCCCTTCTTTTACCAGCCTTACTTAAATCTTCAAGTGTCTTGTCAAAT  
CTAGCTCTGTATCAGATGCTGGAATATTCTAACATTTGACAACTGGAGTTGAACATAA  
GGCTCCACGGGAAAGTTTCTGGTCTTACTAGTGTGTATGAGCAAGATCTGCTAAAACCTA  
CTCCACTGGGTAATGGTTGACTGAGTCAAGAACAGGATAATATCTCCTGCATAGTTTTT  
AGTAATGTAAGTGGACTAGTGCAATTTTCCAGCAACTGCTCTGCTGTGCAATGAAAA

ATAGCCTTTAAGGGTTTCTTTGCAGACTGATTTTCATTGGATGGATACTTAATGCTGTGAA  
 ACATGATAGGATTAACATAATGTTGGTGGATTTCTTGAATAGAATTTGTCTTAACAAAAA  
 AAAAAAAAAA

<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_001030007
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_001030007.1</a></u> , <u><a href="#">NP_001025178.1</a></u>
<b>RefSeq Size:</b>	6850 bp
<b>RefSeq ORF:</b>	2478 bp
<b>Locus ID:</b>	164
<b>UniProt ID:</b>	<u><a href="#">O43747</a></u>
<b>Cytogenetics:</b>	16q22.2
<b>Protein Pathways:</b>	Lysosome
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a).</p>