

## Product datasheet for **RG216694**

### **gamma Adaptin (AP1G1) (NM\_001128) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	gamma Adaptin (AP1G1) (NM_001128) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	gamma Adaptin
Synonyms:	ADTG; CLAPG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG216694 representing NM\_001128  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCAGCCCCATCAGATTGCGGGAGCTGATCCGGACCATCCGGACAGCCGAACCAAGCTGAAGAAC  
 GAGAAATGATCCAGAAAGAATGTGCTGCAATCCGGTCATCTTTAGAGAAGAAGACAATACATACCGATG  
 TCGGAATGTGGCAAAATTAAGTATATGACATGCTGGGCTACCTGCTCACTTTGGACAGTTGGAGTGC  
 CTCAAGCTTATTGCCTCTCAAAAATTTACAGACAAACGCATTGGCTATTTAGGGGCAATGCTGCTTTAG  
 ATGAAAGACAAGATGTCCATCTTCTCATGACCAACTGTATCAAGAATGATCTTAATCATAGCACGCAATT  
 CGTACAGGGGTTAGCACTTTGTACCCTCGGCTGCATGGGCTCCTCAGAGATGTGCAGAGATCTTGCAGGA  
 GAGGTAGAGAAGCTCCTGAAAACCTCCAACCTTACTTAAGAAAAAGGCAGCACTGTGTGCTGTTTCATG  
 TCATCAGGAAAGTTCCTGAACCTTATGGAGATGTTTTACCAGCAACAAAAATTTATTGAATGAGAAGAA  
 CCATGGTGTCTCCACACATCTGTAGTCTCCTCACAGAAATGTGTGAGCGAAGCCAGACATGCTTGCG  
 CATTTCAGAAAGCTTGTGCCCAATTAGTTCGTATTTAAAGAACCTCATCATGTCCGGATATCCACAG  
 AACATGATGTTTCTGGTATCAGTGACCCCTTTTTGCAGGTACGAATTTTGCGGTTATTAAGAATTTAGG  
 ACGAAATGATGATGATCAAGTGAAGCTATGAATGATATATTAGCACAGGTTGCCACTAATACTGAGACT  
 AGTAAAAATGTAGGAAATGCTATTCTTTATGAAACGGTTTTGACTATCATGGATATTAAGTCAGAGAGTG  
 GATTGCGAGTCTAGCCATAAATATCCTGGGTCGTTTCTATTGAACAATGACAAGAATATTAGATATGT  
 GGCTCTGACATCTTTGTTGAAGACTGTACAGACAGATCATAATGCAGTACAGAGGCACAGAAGCACAAAT  
 GTGGACTGTCTTAAAGATTTGGATGTCTCAATAAACCGCGTGAATGGAATTGAGTTTTGCCCTGGTAA  
 ATGGGAATAATATCCGAGGCATGATGAAAGAATTAATTTATTTTCTGGATTGCTGTGAGCCAGAAATTA  
 AGCAGACTGTGCATCTGGAATCTTTCTTCTGTCAGAAAAGTATGCACCTTCCAAACGATGGCATATAGAC  
 ACAATTATGCGTGTTTTGAACCGCAGGAAGTTATGTTGCGTATGATGCAGTCCCAATTTAATCCAGT  
 TAATAACTAATAGTGTGGAGATGCATGCCTATACTGTCCAGCGCCTGTACAAAGCAATCTTGGTGATTA  
 TTCTCAACAACCTTTGGTACAAGTGGTGCATGGTGTATAGGTGAATATGGTGTCTTCTGTATCTGGC  
 CAGTGTGAAGAGGAAGAGCCTATTCAGGTAACAGAGGATGAAGTGTGGATATTTAGAAAGTGCCTAA  
 TCTCTAATATGTCCACCTCTGTGACACGAGGTTATGCCCTCACTGCCATTATGAAGCTTCCACTCGATT  
 CACTTGTACTGTAAACCGAATTAAGAAAGTGGTTCCATCTACGGAAGCAGCATTGATGTGGAACCTCCAG  
 CAGAGGGCAGTAGAATATAATGCACTTTTCAAGAAATATGACCACATGAGGTCTGCCCTACTTGAGAGAA  
 TGCTGTGCATGGAAAAAGTGACCACAAATGGCCCTACTGAGATTGTGCAGACAAATGGAGAGACAGAACC  
 AGCTCCACTAGAGACAAACCGCCACCCCTCTGGGCCACAGCCACCAGCCAGGCCAATGATTTATTGGAT  
 TTGTTGGGAGGAAATGACATAACACCTGTTATTCCAACCTGCGCCTACAAGCAAACCATCTTCTGCTGGTG  
 GAGAACTCTTGATTTGCTGGGAGACATCAACCTTACAGGTGCTCCAGCTGCTGCTCCTGCCCTGCCTC  
 AGTCCCACAGATATCCCAGCCCCCTTCTTGTGGATGGGCTTTCATCACAGCCTCTCTTCAATGATATT  
 GCTGCAGGCATCCCCTCCATCACAGCATACAGTAAGAATGGCTTGAAGATAGAATTCACCTTTGAACGGT  
 CAAATACCAACCCAGTGAACAGTATAACGATACAGGCCTCCAACAGCACAGAGCTAGATATGACGGA  
 CTTTGTTTTCCAAGCTGCAGTACCAAGACATTCCAGCTGCAGCTTTGTCTCCTAGCAGCAGCATTGTC  
 CCAGCATTAAACACGGGGACCATCACACAAGTCATTAAGTTCTGAACCTCAGAAGCAACAGCTGCGAA  
 TCGCGATCAAGCTTACATATAATCACAAGGGCTCAGCAATGCAAGATCTAGCAGAGGTGAACAACCTTCC  
 CCTCAGTCTGGCAA

**ACGGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:** >RG216694 representing NM\_001128  
Red=Cloning site Green=Tags(s)

MPAPIRLRELIRTIRTARTQAEEREMIQKECAAIRSSFREEDNTYRCRNVAKLLYMHMLGYPAHFGQLEC  
LKLIASQKFTDKRIGYLGAMLLLDERQDVHLLMTNCIKNDLNHSTQFVQGLALCTLGCMGSSEMCRDLA  
EVEKLLKTSNSYLKKAALCAVHVIRKVPPELMEFLPATKNLLNEKNHGVLHTSVVLLTEMCERSPDMLA  
HFRKLVPLVRLKNLMSGYSPEHDVSGISDPFLQVRILRLLRILGRNDDDSSEAMNDILAQVATNTET  
SKNVGNAILYETVLTIMDIKSEGLRVLAINILGRFLLNNDKNIRYVALTSLKTVQTDHNAVQRHRSTI  
VDCLKDLVSIKRRAMELSFALVNGNIRGMMKELLYFLDSCEPEFKADCASGIFLAAEKYAPSKRWHID  
TIMRVLTTAGSYVRDDAVPNLIQLITNSVEMHAYTVQRLYKAILGDYSQQPLVQVAAWCIGEYGDLLVSG  
QCEEEPIQVTEDEVLDILESVLISNMSTSVTRGYALTAIMKLSTRFTCTVNRICKVVSIGSSIDVELQ  
QRAVEYNALFKKYDHMRSALLERMPVMEKVTTNGPTEIVQTNGETEPAPLETKPPPSGPQPTSQANDLLD  
LLGGNDITPVIPTAPTSPSSAGGELLDLLGDINLTGAPAAAPAPASVPQISQPPFLDGLSSQPLFNDI  
AAGIPSITAYSKNGLKIEFTFERSNTNPSVTVITIQASNSTELDMDFVFQAAVPKTFQLQLLSPSSSIV  
PAFNTGTITQVIKVLNPQKQQLRMRIKLTYNHKGSMQDLAEVNNFPPQSWQ

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

Cloning Scheme:



ACCN: NM\_001128

ORF Size: 2466 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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\\_001128.6](#)

**RefSeq Size:** 6841 bp

**RefSeq ORF:** 2469 bp

**Locus ID:** 164

**UniProt ID:** [O43747](#)

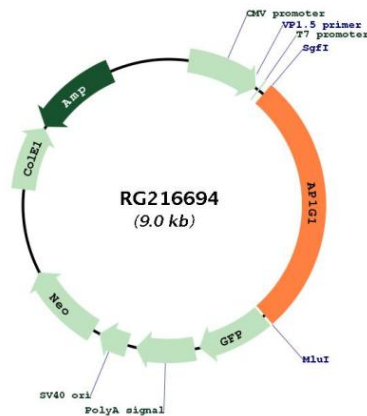
**Cytogenetics:** 16q22.2

**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]

**Product images:**



Circular map for RG216694