

Product datasheet for **RC239388**

AP1G2 (NM_001282475) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AP1G2 (NM_001282475) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AP1G2
Synonyms:	G2AD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC239388 representing NM_001282475
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCTCTGCTGAGATGTGCCGAGACCTGGCCCCAGAGGTGGAGAACTGCTCCTGCAGCCAGTCCCT
 ACGTGCGCAAGAAGGCTATTCTGACTGCAGTGCACATGATCCGGAAGGTCCTGAACTCTCCAGTGTCTT
 CCTCCACCCCTGTGCCAACTGCTTCATGAGCGTCACCATGGTAAGGCTGTGGGGCCCCCATCCTTTGC
 TTCAGGTCTATGGACAGAAGAATTGAAATCGGATGGGAACCCAGCTCACAGGAGAAGGGTAGTGACACA
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 AGGCATCTGCTGGGCACCATCACGCTGATCACGGAGCTCTGCGAACGAAGCCCTGCAGCCCTCAGGCAC
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 CGAAATGCCGGAATGCCGTCTGTTTGAGACAGTACTACCATCATGGATATCCGCTCTGCAGCTGGCC
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >RC239388 representing NM_001282475
 Red=Cloning site Green=Tags(s)

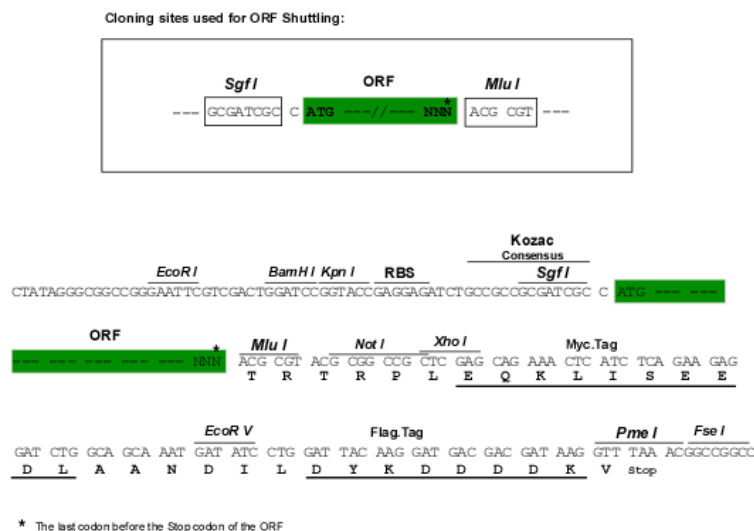
MGSAEMCRDLAPEVEKLLLQSPYVRKKAILTAVHMIRKVPPELSSVFLPPCAQLLHERHHGKAVGPPILC
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 FRKVVPQLVHILRTLVTMGYSTEHISGVSDPFLQVQILRLILGRNHEESSETMNDLLAQVATNTDTS
 RNAGNAVLFFETVLTIMDIRSAAGLRVLAVNILGRFLLNSDRNIRYVALTSLRLVQSDHSAVQRHRPTVV
 ECLRETDASLSRRALELSLALVNSSNVRAMMQLQAFLESCPPDLRADCASGILLAAERFAPTKRWHIDT
 ILHVLTTAGTHVRDDAVANLTQLIGGAQELHAYSVRRLYNALAEDISQQPLVQVAAWCIGEYDLLLLAGN
 CEEIEPLQVDEEEVLALLEKVLQSHMSLPATRGYALTALMKLSTRCGDNNRIRQVVSIGSCLDVELQQ
 RAVEYDTLFRKYDHMRAAILEKMPLVERDGPQADEEAKESKEAAQLSEAAPVPTPEQASQLLDLLDLDG
 ASGDVQHPPHLDPSGGALVHLLDLPCVPPPPAPIPDLKVFEREQVQLNLSFIRPPENPALLITITATN
 FSEGDVTHFICQAAVPSLQLQLQAPSGNTVPARGGLPITQLFRILNPNKAPRLRLTYDHFHQSVQE
 IFEVNNLPVESWQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001282475

ORF Size: 2139 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001282475.2](#)

RefSeq Size: 2543 bp

RefSeq ORF: 2142 bp

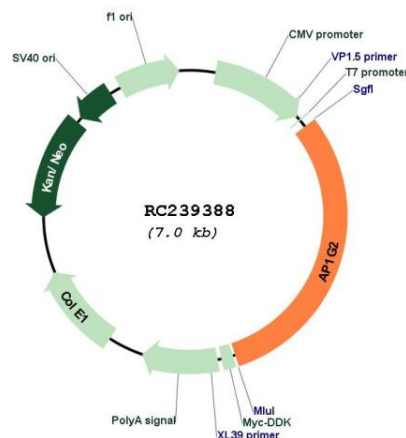
Locus ID: 8906

Cytogenetics: 14q11.2

MW: 79.6 kDa

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]

Product images:



Circular map for RC239388