

Product datasheet for **RC212515**

AP1G2 (NM_003917) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AP1G2 (NM_003917) 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)



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ORF Nucleotide Sequence:

>RC212515 representing NM_003917
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGGTGCCTTCGCTGAAGCTTCAGGACCTCATCGAAGAGATTCGCGGGGCCAAGACTCAGGCCCAGG
 AGCGGGAGGTGATCCAAAAGGAGTGTGCCACATCCGGGCCTCCTTCCGCGACGGGGACCCAGTGCACAG
 GCACCGGCAGCTGGCCAAACTGCTCTACGTCCACATGTTGGGCTACCCCGCCACTTTGGACAGATGGAG
 TGCTGAAACTGATCGCCTCCTCCAGATTCACAGACAAGAGGGTGGGCTACCTGGGGGCCATGCTTCTAT
 TGGATGAGAGGCACGATGCCACCTGCTCATTACCAACAGCATCAAGAATGACCTGAGCCAGGGGATTCA
 GCCAGTACAAGGCCTGGCCTTGTGCACTTTGAGCACCATGGGCTCTGCTGAGATGTGCCGAGACCTGGCC
 CCAGAGGTGGAGAACTGCTCCTGCAGCCAGTCCCTACGTGCGCAAGAAGGCTATTCTGACTGCAGTGC
 ACATGATCCGGAAGTCCCTGAACTCTCCAGTGTCTTCTCCACCTGTGCCAACTGCTTCATGAGCG
 TCACCATGGCATCCTGCTGGGCACCATCACGCTGATCACGGAGCTCTGCGAACGAAGCCCTGCAGCCCTC
 AGGCACCTCCGAAAGGTGGTACCCAGCTGGTACACATCCTCCGACTCTGGTGACAATGGGATACTCCA
 CAGAACACAGCATATCTGGAGTCAGCGACCCCTTCTGCAAGTCCAGATACTTCTGCTGCTTCGGATCCT
 GGGCCGGAACCACGAGGAGAGCAGTGCAGCCATGAATGACTTGTGGCCAGGTGGCCACTAACACGGAC
 ACCAGCCGAAATGCCGAAATGCCGTCCTGTTTGAGACAGTACTCACCATCATGGATATCCGCTCTGCAG
 CTGGCCTACGGGTTCTAGCTGTCAACATTTCTGGTCGCTTCTACTCAACAGTGCAGGAACATTAGGTA
 TGTAGCCCTGACATCACTGCTTCGACTGGTGCAGTCTGATCACAGTGTGTGCAGCGGCATCGGCCCACT
 GTGGTGGAAATGTCTACGGGAACTGATGCCTCCCTCAGCCGAGAGCCCTGGAACAAAGCTGGCTCTGG
 TAAATAGCTCCAATGTGCGAGCCATGATGCAAGAGCTGCAGGCCCTTCTGAGTCTGCCCTCCTGACCT
 ACGGGCTGACTGTGCTCAGGCATCCTGCTGGCTGCAGAGAGGTTTGTCCAACCAACGCTGGCACATA
 GACACCATCCTGCATGTGCTGACAACGGCGGGCACCATGTGCGGGATGATGCAGTGGCCAACTGACCC
 AGCTGATTGGGGGGGCCAGGAGCTACATGCCTACTCTGTGCGCCGCTCTACAATGCCCTGGCAGAAGA
 CATTTCAGCAACCACTGGTGCAGGTGGCAGCCTGGTGCATTGGGGAGTATGGGGACCTCCTGCTGGCA
 GGGAACTGCGAGGAGATTGAGCCCTTCAGGTGGACGAAGAGGAAGTGTGGCATTGCTGGAAAAGGTGC
 TGCAGTCCACATGTCCCTGCCAGCCACTCGAGGATATGCCCTCACAGCCCTCATGAAGCTCAGCACTCG
 CCTCTGTGGGGACAACAACCGCATCCGCCAGGTGGTGTCCATCTACGGGAGCTGCTTGGACGTGGAGCTG
 CAGCAGCGGGCTGTGGAGTATGACACACTTTCGGAAATACGACCACATGAGGGCTGCCATCCTGGAAA
 AAATGCCTCTTGTGGAGCGAGATGGCCCTCAGGCTGATGAGGAAGCAAAGGAAAGCAAAGAAGCAGCCCA
 GCTTTCAGAAGCAGCCCACTGCCCACAGAGCCCAAGGCTCACAGCTCCTGGATCTGCTAGATCTCCTG
 GATGGGGCTTCTGGGGATGTCCAGCATCCTCCCATCTGGACCCCTCCCAAGGAGGTGCCCTGGTACACC
 TGCTTGACCTTCCTGTGTACCTCCACCCCAAGCTCCCATCCAGATCTCAAAGTGTGGAGCGTGGGG
 AGTACAGCTGAATCTGTCTTTCATTGACCCCTGAAAACCTGCTTGTGCTGTTAATCACCATCACTGCC
 ACCAACTTCTCAGAGGTGATGTACCCATTTCTGTCAGGCTGCTGTGCCAAGAGTCTCCAGCTGC
 AGCTGCAGGCCCAAGTGGGAACACAGTTCAGCTCGGGTGGCCTTCTATCACCAGCTCTTCAGAAT
 CCTCAATCCTAACAAGGCCCCCTGCGGCTAAAGCTGCGCCTCACCTACGACCACTTTCACCAGTCGGTG
 CAGGAGATCTTGGAGTGAACAACCTTGCCTGTGGAATCGTGGCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC212515 representing NM_003917
Red=Cloning site Green=Tags(s)

MVVP SLKLQDLIEEIRGAKTQAQEREVIQKECAHIRASFRDGPVHRHRQLAKLLYVHMLGYPAHFGQME
CLKLIASSRFTDKRVGYLGAMLLDERHDAHLITNSIKNDLSQGIQPVQGLALCTLSTMGSAEMCRDLA
PEVEKLLLQPSYVRKKAILTAVHMIRKVPPELSSVFLPPCAQLLHERHHGILLGTITLITELCERSPAAL
RHFRKVVVQPLVHILRRTLVTMGYSTEHSISGVSDPFLQVQILRLLRILGRNHEESSETMNDLLAQVATNTD
TSRNAGNAVLFETVLTIMDIRSAAGLRVLAVNILGRFLLNSDRNIRYVALTSLRLVQSDHSAVQRHRPT
VVECLRETDASLSRRALELSLALVNSSNVRAMMQLQAFLESCPPDLRADCASGILLAAERFAPTKRWHI
DTILHVLTTAGTHVRDDAVANLTQLIGGAQELHAYSVRRLYNALAEISQQPLVQVAAWCIGEGDLLLLA
GNCEEIEPLQVDEEEVLALLEKVLQSHMSLPATRGYALTALMKLSTRLCGDNNRIRQVVSIIYGSCLDVEL
QQRAVEYDTLFRKYDHMRAAILEKMPLVERDGPQADEEAKESKEAAQLSEAAPVPTPEQASQLLDLLDLL
DGASGDVQHPPHLDPSGGALVHLLDLPCVPPPAPIPDLKVFEREQVQLNLSFIRPPENPALLLITITA
TNFSEGDVTHFICQAAVPKSLQLQLQAPSGNTVPARGGLPITQLFRILNPNKAPLRLKLRLTYDHFHQSV
QEIFEVNNLPVESWQ

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6712_e09.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:


ACCN: NM_003917

ORF Size: 2355 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_003917.5](#)

RefSeq Size: 2876 bp

RefSeq ORF: 2358 bp

Locus ID: 8906

UniProt ID: [O75843](#)

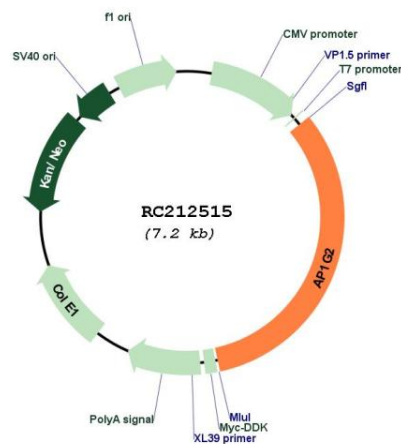
Cytogenetics: 14q11.2

Domains: Adaptin_N, Alpha_adaptinC2

MW: 86.9 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 RC212515