

Product datasheet for **RG224024**

APIG2 (NM_080545) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	APIG2
Synonyms:	adaptor-related protein complex 1, gamma 2 subunit; clathrin-associated/assembly/adaptor protein, large, gamma-2; G2AD; gamma2-adaptin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG224024 representing NM_080545
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGTGGTGCCTTCGTAAGCTTCAGGACCTCATCGAAGAGATTCGCGGGGCCAAGACTCAGGCCCAGG
 AGCGGGAGGTGATCCAAAAGGAGTGTGCCACATCCGGGCCCTCTCCGCGACGGGGACCCAGTGCACAG
 GCACCGGCAGCTGGCCAACTGCTCTACGTCCACATGTTGGGTACCCCGCCCACTTTGGACAGATGGAG
 TGCCTGAAACTGATCGCTCTCCAGATTACAGACAAGAGGGTGGGTACCTGGGGGCCATGCTTCTAT
 TGGATGAGAGGCACGATGCCACCTGCTCATTACCAACAGCATCAAGAATGACCTGAGCCAGGGGATTCA
 GCCAGTACAAGGCCTGGCCTTGTGCACTTTGAGCACCATGGGCTCTGCTGAGATGTGCCGAGACCTGGCC
 CCAGAGGTGGAGAACTGCTCCTGCAGCCAGTCCCTACGTGCGCAAGAAGGCTATTCTGACTGCAGTGC
 ACATGATCCGGAAGGTCCCTGAATCTCCAGTGTCTTCTCCACCCTGTGCCAACTGTTTCATGAGCG
 TCACCATGGCATCTGCTGGGCACCATCACGCTGATCACGGAGCTCTGCGAACGAAGCCCTGCAGCCCTC
 AGGCACCTCCGAAAGGTGGTACCCAGCTGGTACACATCCTCCGGAATCTGGTGACAATGGGATACTCCA
 CAGAACACAGCATATCTGGAGTCAGCGACCCCTTCTGCAGGTCCAGATACTTCGTCTGCTTCGGATCCT
 GGGCCGGAACACGAGGAGAGCAGTGAGACCATGAATGACTTGCTGGCCAGGTGGCCACTAACACGGAC
 ACCAGCCGAAATGCCGAAATGCGGTCTGTTGAGACAGTACTCACCATCATGGATATCCGCTCTGCAG
 CTGGCCTACGGGTTCTAGCTGTCAACATTCTTGGTCGCTTCTACTCAACAGTGACAGGAACATTAGGTA
 TGTGGCCCTGACATCACTGCTTCGACTGGTGCAGTCTGATCACAGTGTGTGCAGCGGCATCGGCCCACT
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 ACGGGCTGACTGTGCCTCAGGCATCCTGTGGCTGCAGAGAGGTTTGTCTCAACCAAACGCTGGCACATA
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 AGCTGATTGGGGGGGCCAGGAGCTACATGCCTACTCTGTGCGCCGCTCTACAATGCCCTGGCAGAAGA
 CATTTCCAGCAACCACTGGTGCAGGTGGCAGCCTGGTGCATTGGGGAGTATGGGGACCTCCTGCTGGCA
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 CCTCTGTGGGGACAACAACCGCATCCGCCAGGTGGTGTCCATCTACGGGAGCTGCTTGGACGTGGAGCTG
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 GCTTTGAGAAGCAGCCCACTGCCCCACAGAGCCCAAGGCTCACAGCTCCTGGATCTGCTAGATCTCCTG
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 AGTACAGCTGAATCTGTCTTTTATTGACCCCTGAAAACCTGCTTTGCTGTTAATACCATCACTGCTGCC
 ACCAATTCTCAGAGGGTGTGTACCCATTTTCTGTCAGGCTGCTGTGCCCAAGAGTCTCCAGCTGC
 AGCTGCAGGCCCCAGTGGGAACACAGTTCAGCTCGGGGTGGCCTTCTATCACCCAGCTCTTCAGAAT
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 CAGGAGATCTTTGAGGTGAACAACCTGCCTGTGGAATCGTGGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG224024 representing NM_080545
Red=Cloning site Green=Tags(s)

MVPSLKLQDLIEEIRGAKTQAQEREVIQKECAHIRASFRDGPVHRHRLAKLLYVHMLGYPAHFGQME
CLKLIASSRFTDKRVGYLGAMLLDERHDAHLLITNSIKNDLSQGIQPVQGLALCTLSTMGSAEMCRDLA
PEVEKLLLQSPYVRKAILTAVHMIRKVPPELSSVFLPPCAQLHERHHGILLGTITLITELCERSPAAL
RHFRKVVPLVHILRTLVTMGYTEHSISGVSDPFLQVQILRLRLGRNHEESSETMNDLLAQVATNTD
TSRNAGNAVLFETVLTIMDIRSAAGLRVLAVNILGRFLLNSDRNIRYVALTSLRLVQSDHSAVQHRPT
VVECLRETDASLSRRALSLALVNSSNVRRMMQELQAFLESCPPDLRADCASGILLAAERFAPTKRWHI
DTILHVLTTAGTHVRDDAVANLTQLIGGAQELHAYSVRRLYNALAEISQQPLVQVAWCIGEYGDLLA
GNCEEIEPLQVDEEEVLALLEKVLQSHMSLPATRGYALTALMKLSTRLCGDNNRIRQVVSIIYGSCLDVEL
QQRAVEYDTLFRKYDHMRAAILEKMPLVERDGPQADEEAKESKEAAQLSEAAPVTEPQASQLDLDLL
DGASGDVQHPHLDPSGGALVHLDLPCVPPPAIPDLKVFEREQVQLNLSFIRPPENPALLITITA
TNFSEGDVTHFICQAAVPKSLQLQLQAPSGNTVPARGGLPITQLFRILNPNKAPRLRLTYDHFHQSV
QEIFEVNNLPVESWQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_080545

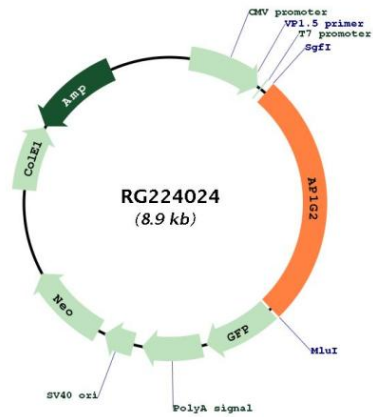
ORF Size: 2355 bp

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_080545.1 , NP_536806.1
RefSeq Size:	3305 bp
RefSeq ORF:	2357 bp
Locus ID:	8906
Cytogenetics:	14q11.2
Domains:	Adaptin_N, Alpha_adaptinC2
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 RG224024