

Product datasheet for **SC120388**

APIG2 (NM_080545) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
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:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



Fully Sequenced ORF:

>OriGene ORF within SC120388 sequence for NM_080545 edited (data generated by NextGen Sequencing)

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ATGGTGGTGCCTTCGCTGAAGCTTCAGGACCTCATCGAAGAGATTGCGGGGCCAAGACT
CAGGCCCAGGAGCGGGAGGTGATCCAAAAGGAGTGTGCCACATCCGGGCTCCTTCCGC
GACGGGACCCAGTGACAGGCACCGCAGCTGGCCAACTGCTCTACGTCCACATGTTG
GGCTACCCCGCCACTTTGGACAGATGGAGTGCCTGAACTGATCGCCTCCTCCAGATTC
ACAGACAAGAGGGTGGGTACCTGGGGGCCATGCTTCTATTGGATGAGAGGCACGATGCC
CACCTGCTCATTACCAACAGCATCAAGAATGACCTGAGCCAGGGGATTCAGCCAGTACAA
GGCCTGGCCTTGTGCACTTTGAGCACCATGGGCTCTGCTGAGATGTGCCGAGACCTGGCC
CCAGAGGTGGAGAACTGCTCCTGCAGCCAGTCCCTACGTGCGCAAGAAGGCTATTCTG
ACTGCAGTGCACATGATCCGAAGGTCCCTGAACTCTCCAGTGTCTTCTCCACCCCTGT
GCCCAACTGCTTTCATGAGCGTCACCATGGCATCTGCTGGGCACCATCACGCTGATCACG
GAGCTCTGCGAAGCAAGCCCTGCAGCCCTCAGGCACTTCCGAAAGGTGGTACCCAGCTG
GTACACATCCTCCGACTCTGGTGACAATGGGATACTCCACAGAACACAGCATATCTGGA
GTCAGCGACCCCTTCTGCAGGTCCAGATACTTCGTCTGCTTCGGATCCTGGGCCGGAAC
CACGAGGAGAGCAGTGAGACCATGAATGACTTGTGCGCCAGGTGGCCACTAACACGGAC
ACCAGCCGAAATGCCGAAATGCGGTCTGTTTGAGACAGTACTACCATCATGGATATC
CGCTCTGCAGCTGGCCTACGGGTCTAGCTGTCAACATTCTTGGTCTGCTTCTACTCAAC
AGTGACAGGAACATTAGGTATGTAGCCCTGACATCACTGCTTCGACTGGTGCAGTCTGAT
CACAGTGTGTGCAGCGCATCGGCCCACTGTGGTGGAATGTCTACGGGAACTGATGCC
TCCCTCAGCCGAGAGCCCTGGAATAAGCCTGGCTCTGGTAAATAGCTTCAATGTGCGA
GCCATGATGCAAGAGTTGCAGGCCCTTCTGGAGTCTGCCCTCCTGACCTACGGGCTGAC
TGTGCCTCAGGCATCCTGCTGGCTGCAGAGAGTTTGTCCAACCAACGCTGGCACATA
GACACCATCCTGCATGTGCTGACAACGGCGGGCACCCATGTGCGGGATGATGCAGTGGCC
AACCTGACCCAGCTGATTGGGGGGGCCAGGAGCTACATGCCTACTCTGTGCGCCGCTC
TACAATGCCCTGGCAGAAGACATTTCCAGCAACCACTGGTGCAGGTGGCAGCCTGGTGC
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CCAGCCACTCGAGGATATGCCCTCACAGCCCTCATGAAGCTCAGCACTCGCCTCTGTGGG
GACAACAACCGCATCCGCCAGGTGGTGTCCATCTACGGGAGCTGCTTGGACGTGGAGCTG
CAGCAGCGGGCTGTGGAGTATGACACACTTTCGGAAATACGACCACATGAGGGCTGCC
ATCCTGGAAAAATGCCTCTTGTGGAGCGAGATGGCCCTCAGGCTGATGAGGAAGCAAAG
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TCACAGCTCCTGGATCTGCTAGATCTCCTGGATGGGGCTTCTGGGGATGTCCAGCATCCT
CCCCATCTGGACCCCTCCCCAGGAGGTGCCCTGGTACACCTGCTTGACCTTCCCTGTGTA
CCTCCACCCCAAGTCCCATCCCAGATCTCAAAGTGTTTGAGCGTGAGGGAGTACAGCTG
AATCTGTCTTTTCATTCGACCCCTGAAAACCTGCTTTGCTGTTAATCACCATCACTGCC
ACCAACTTCTCAGAGGTGATGTACCCATTTTCATCTGCCAGGCTGCTGTGCCCAAGAGT
CTCCAGCTGCAGCTGCAGGCCCAAGTGGGAACACAGTTCAGCTCGGGGTGGCCTTCCT
ATCACCCAGCTCTTCAGAATCCTCAATCCTAACAAGGCCCCCTGCGGCTAAAGCTGCGC
CTCACCTACGACCACTTTCACAGTCGGTGCAGGAGATCTTTGAGGTGAACAATTGCCT
GTGGAATCGTGGCAGTAA
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Clone variation with respect to NM_080545.1

984 g=>a;1130 c=>t;1156 c=>t

5' Read Nucleotide
Sequence:

>OriGene 5' read for NM_080545 unedited
 ATTTTCAGATTTTGTAAATACGACTTCACTATAGGGCGGCCGCGATTTCGGCACGAGGCTGGG
 GGGCAGAGGAGCGGAGTTGAGGCAGAAGCCAGTCAGGATGGTGGTGCCTTCGCTGAAGCT
 TCAGGACCTCATCGAAGAGATTTCGCGGGGCCAAGACTCAGGCCAGGAGCGGGAGGTGAT
 CCAAAAGGAGTGTGCCACATCCGGGCTCCTTCGCGACGGGGACCCAGTGCACAGGCA
 CCGGCAGCTGGCCAACTGCTCTACGTCCACATGTTGGGCTACCCCGCCCACTTTGGACA
 GATGGAGTGCCTGAACTGATCGCTCCTCCAGATTACAGACAAGAGGTGGGCTACCT
 GGGGGCCATGCTTCTATTGGATGAGAGGCACGATGCCACCTGCTCATTACCAACAGCAT
 CAAGATGACCTGAGCCAGGGGATTACGCCAGTACAAGGCCTGGCCTTGTGCACTTTGAG
 CACCATGGGCTCTGCTGAGATGTGCCGAGACCTGGCCCCAGAGGTGGAGAACTGCTCCT
 GCAGCCCACTCCCTACGTGCGCAAGAAGGCTATTCTGACTGCAGTGCACATGATCCGGAA
 GGTCCCTNGACTCTCCAGTGTCTTCTCCACCCTGTGCCCACTGCTTCATGAGCGTCA
 CCATGGCATCTGCTGGGCACCATCACGCTGATCACGAGCTCTGCGAACGAAGCCCTGC
 AGCCCTCAGGCACCTTCGAAAGGGTGTACCCAGCTGGTACACATCCTCCGACTCTGGN
 TGACATGGGATACTNCACAGAACACAGCATATCTGGAGTCAGCGACCCCTTTCTGCNAGT
 CAGATACTTCGTCTGCTTNCGATCCTGGGCGGACCACGANAGAGCAGTGAGACATGAAT
 GACTTGCTGGCCAGNTGGNCACTACACGGACACANCCGAATGCCGAANTGCNGTCTGT
 NTGAAAAATT

3' Read Nucleotide
Sequence:

>OriGene 3' read for NM_080545 unedited
 TTAGCTCTGNACCGCGGCACGCTATCTAAGATCGGTTTTTTTTTTTTTTTCACTTCT
 CAGGCTTTATTGGGCTTTATTTGTGGGAGAAGGGGCTGGTCCCCAGTTTTTGCAGTGCAA
 AGCCAGAGCGCCACCTGCTGGTAGCCCTCAGGTGTAGGTTCAAGCTGCTGGGGCCCCCT
 GGGGTTTGGGACACAGGAGAATTTACGGCTGTGAGTGGAGACAGTTACTGCCACGATTCC
 ACAGGCAAGTTGTTACCTCAAAGATCTCCTGCACCGACTGGTGAAAGTGGTCGTAGGTG
 AGGCGCAGCTTTAGCCGAGGGGGGCTTGTAGGATTGAGGATTCTGAAGAGCTGGGTG
 ATAGGAAGGCCACCCGAGCTGGAAGTGTGTTCCCACTGGGGGCTGCAGCTGCAGCTGG
 AGACTCTTGGGCACAGCAGCCTGGCAGATGAAATGGGTGACATCACCTCTGAGAAAGTTG
 GTGGCAGTGATGGTGATTAACAGCAAAGCAGGGTTTTTCAGGGGGTGAATGAAAGACAGA
 TTCAGCTGTACTCCCTCACGCTCAAACACTTTGAGATCTGGGATGGGAGCTGGGGGTGGA
 GGTACACAGGGAAGGTCAAGCAGGTGTACCAGGGCACCTCCTGAGGAGGGTCCAGATGG
 GGAGGATGCTGGACATCCCGAAGCCCATCCAGTAGATCTAGCAGATCCAGGAGCTGT
 GAGGCTTGGGCTCTGTGGCACTGGGGCTGCTTCTGAAAGCTGGGCTGCTTCTTTGCTT
 TCCTTTGCTTNCATCAGCCTGAAGGCCATCTCGCTCCACAAGAGGCATTTTTTCCAG
 NATGGCAGCCCTCATGTGGTGTATTTCCGGAAGAGTGTGTNATACTCCACAGCCCGCT
 GCTGCAGTCTCACGTCCCAACAGTTCCGTATATGTACACACCTGGCGGGATGCGGTTGT
 TGTCACCATAGCGAGTGCT

Restriction Sites:

NotI-NotI

ACCN:

NM_080545

Insert Size:

2640 bp

OTI Disclaimer:

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).

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:	<u>NM_080545.1, NP_536806.1</u>
RefSeq Size:	3305 bp
RefSeq ORF:	2358 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] Transcript Variant: This variant (2) utilizes an alternate exon at the 5' UTR and is a longer transcript than variant 1.