

Product datasheet for SC113430

AP1AR (NM_018569) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AP1AR (NM_018569) Human Untagged Clone
Tag:	Tag Free
Symbol:	AP1AR
Synonyms:	2C18; C4orf16; gamma-BAR; GBAR; PRO0971
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC113430 sequence for NM_018569 edited (data generated by NextGen Sequencing) ATGGGGAACTGCTGCTGGACGCAGTGCTTCGGACTGCTTCGCAAGGAAGCGGGCGGCTG CAGCGAGTAGGCGGCGGCGGAGGATCCAAGTATTTAGAACATGCTCAAGAGGTGAGCAC TTAACAATAGAGTTTGAGAATCTAGTAGAAAGTGATGAAGGGGAGAGCCAGGAAGCAGT CATAGGCCTCTTACTGAGGAAGAAATTGTTGACCTAAGAGAAAGGCATTATGATTCCATT GCCGAAAAACAAAAGATCTTGATAAGAAAATTCAAAAAGAGTTAGCCTTACAAGAAGAG AAGTTAAGACTAGAAGAAGAAGCTTTATACGCTGCACAGCGTGAAGCAGCCAGGGCAGCA AAGCAGCGAAAGCTCTTGAGCAAGAAAGGCAGAGAATTGTGCAGCAATATCATCCTTCC AACAATGGAGAATATCAAAGTTCAGGACCAGAAGATGACTTCGAATCTTGTTTGAGAAAT ATGAAGTCACAGTATGAAGTTTTTCGAAGTAGTAGACTCTCATCAGATGCTACAGTTTTG ACACCAAATACAGAAAGCAGTTGTGATTTAATGACCAAACTAAATCAACTAGTGAAAT GACGACAGCACATCCTTAGATCTAGAGTGGGAAGATGAAGAAGGAATGAATAGAATGCTT CCAATGAGAGAACGTTCCAAAACAGAGGAAGACATTCTACGGGCAGCACTTAAGTATAGC AACAAGAAGACTGGAAGTAATCCTACATCAGCCTCTGATGATTCCAATGGGCTGGAGTGG GAAAATGATTTTGTAGTGCCGAAATGGATGATAATGGAATTCGAGTATTCTGGATTT GTAAATCCTGTATTAGAACTGTCTGATTCTGGCATAAGGCATTCTGACACAGATCAACAG ACTCGATAG

Clone variation with respect to NM_018569.4



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018569 unedited
 GTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGAGAGAGGAGGAGCGGC
 GGCGCCTGGGCGGCATGCGATGGGGAAGTCTGCTGGACGCAGTGCTTCGGACTGCTTCG
 CAAGGAAGCGGGCGGCTGCAGCGAGTAGGCGGCGGGAGGATCCAAGTATTTTGAAC
 ATGCTCAAGAGGTGAGCACTTAACAATAGATTTGAGAATCTAGTAGAAAGTGATGAAGG
 GGAGAGCCCAGGAAGCAGTCATAGGCCTCTTACTGAGGAAGAAATGTTGACCTAAGAGA
 AAGGCATTATGATTCCATTGCCGAAAAACAAAAAGATCTTGATAAGAAATTCAAAAAGA
 GTTAGCCTTACAAGAAGAGAAGTTAAGACTAGAAGAAGAAGCTTTATACGCTGCACAGCG
 TGAAGCAGCCAGGCGAGCAAGCAGCGAAAGCTCTTGAGCAAGAAAGGCAGAGAATTGT
 GCAGCAATATCATCCTTCCAACAATGGAGAATATCAAAGTTCAGGACCAGAAGATGACTT
 CGAATCTTGTTTGAAGAAATGAAGTCACAGTATGAAGTTTTTCGAAGTAGTAGACTCTC
 ATCAGATGCTACAGTTTTGACACCAAATACAGAAAGCAGTTGTGATTTAATGACCAAAAC
 TAAATCAACTAGTGAAATGACGACAGCACATCCTTAGATCTAGAGTGGGAAGATGAAGA
 AGGATGAATAGAATGCTTCCATGAGAGAACGTTCCANACAGAGGAAGACATTCTACGGGC
 AGCACTTAAGTATAGACAAGAGACTGGAAGTAATCTACATCACCTCTGATGATTCCATG
 GNCTGAGTGGGAAATGATTTGTATGCCGAATGGTGATATGAAATCCGAGANCTGGAT
 TGTAAATCTGATTANAATGTCTGATCTGGA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_018569 unedited
 GCACGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTAAAGTGAAAAATGTGTTTATTC
 ACAACCATTGTAAATTACCATTTGTTACCATTCTTCAAAAAATCTTTATGAACAAAA
 AGCCAAGAAAAATTACAATCGTAGCTTATGCCAAACCAAAAAATATACATCTGATGTATAC
 AAACCTTTAAAAAGCATTAAACACAGGCAATGTGAATATAGATTACCTTAAAAATATTTCCA
 AGACACAGCTACAACCTAAATTATGTTAAGACAGATATAAATAATAGCATTACCTAATGT
 ATTATATTTACATATTTAAAGTATCATATTAATTTCTATGACATAAAAAAGGAGATAAAA
 CTACAGATGTCATTGCTTAGCAGTTCAAATATTGAAAGGGCCACATGATTTTTTTTTTTT
 AAGCACAGCAAGAACTTTAAGTTACTATTTATATCTGGACCTTCTATATTTATAAGAAC
 ATGCACCGTCATTGTTGCAAGAGGAAAAAAATTTAAAAACATTAAAGGAAAAACCAAAAA
 CAGTTTGCTTACTAAAATCATACCAATCCTCAGCAAAATCAAGGAAAGCAATTATGGGA
 GTGTTTTCTATCCCTGGCCTTGTAATTTGACATATACATTTTAGAGAAAAAGAACGTAAT
 TGTCTAGCACAAAATGCAGTTATAGATATTGATATGCTTAGTTCTATCCCATTAAGCAC
 CTGTACTACAAGGTAAGGGAAGGCTTAATAAAATCAATGGGAGCCTTTTCATACCAAGAA
 AGGATTTTATTTGAAATACCCGTATTACCTTNTAGAATTTCTTTCTGAAATATGCANAA
 ATATGTTCTGTGTAATCTACATCGTTATCGAATATAGAATTTTAAAAATATGCACTAAA
 CTATACTGATTCAATAAGCATTAGGGCTGAAATGAGTGGAAACTATTTTATATAACT
 CTAAC

Restriction Sites:

NotI-NotI

ACCN:

NM_018569

Insert Size:

2550 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.
RefSeq:	<u>NM_018569.2, NP_061039.2</u>
RefSeq Size:	2835 bp
RefSeq ORF:	909 bp
Locus ID:	55435
UniProt ID:	<u>Q63HQ0</u>
Cytogenetics:	4q25
Gene Summary:	Necessary for adaptor protein complex 1 (AP-1)-dependent transport between the trans-Golgi network and endosomes. Regulates the membrane association of AP1G1/gamma1-adaptin, one of the subunits of the AP-1 adaptor complex. The direct interaction with AP1G1/gamma1-adaptin attenuates the release of the AP-1 complex from membranes. Regulates endosomal membrane traffic via association with AP-1 and KIF5B thus linking kinesin-based plus-end-directed microtubular transport to AP-1-dependent membrane traffic. May act as effector of AP-1 in calcium-induced endo-lysosome secretion. Inhibits Arp2/3 complex function; negatively regulates cell spreading, size and motility via intracellular sequestration of the Arp2/3 complex.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.