

Product datasheet for **MR210836**

Ap1g1 (NM_009677) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ap1g1 (NM_009677) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ap1g1
Synonyms:	AA409002; Adtg; AU041323; AW551707; D8Ertd374e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR210836 representing NM_009677
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCAGCCCCATCAGATTGCGGGAGCTGATCCGGACCATCCGGACAGCCGAACCAAGCTGAGGAAC
 GAGAAATGATCCAGAAAGAATGTGCTGCAATCCGGTCTCATTTAGAGAAGAAGACAATACATACCGGTG
 TCGGAATGTGGCAAAGTTACTATATATGCACATGCTGGGCTACCTGCTCACTTTGGACAGTTGGAGTGC
 CTCAAGCTAATCGCCTCACAAAAATTCACAGACAAACGCATTGGCTATTTAGGAGCAATGCTATTATTAG
 ATGAAAGACAAGATGTGCATCTTCTCATGACCAACTGTATCAAGAATGATCTTAATCATAGCACGCAGTT
 TGTGCAGGGGCTAGCACTTTGTACCCTCGGCTGCATGGGCTCCTCGGAGATGTGCAGAGATCTTGGCGGA
 GAGGTAGAAAAGCTTCTGAAAACCTCCAACCTTACTTAAGAAAAAGGCAGCACTGTGTGCTGTTACG
 TCATCAGGAAGGTTCTGAACCTTATGGAGATGTTTTACCAGCAACAAAAATTTATTGAATGAGAAGAA
 CCATGGTGTCTTACACGTCTGTAGTCTCCTCACAGAGATGTGTGAACGGAGCCAGACATGCTCGCA
 CATTTCAGAAAGAATGAAAAGCTTGTGCCCAATTAGTTCGTATTCTAAAGAACCTCATCATGTCCGGAT
 ATCCCCAGAACATGATGTCTCTGGTATCAGTGACCCCTTTTTGCAGGTACGAATTTTGGGTTATTAAG
 AATTTTAGGACGGAATGACGATGATTCAAGTGAAGCTATGAATGATATATTAGCACAGGTTGCCACTAAT
 ACAGAGACTAGTAAAAATGTAGGAAATGCTATTCTGTATGAGACGGTTTTGACTATCATGGATATTAAT
 CAGAGAGTGGATTGCGAGTTCTAGCCATAAATATCTTGGTTCGATTCTTATTGAACAATGACAAAAATAT
 TAGATATGTTGCTCTGACATCTCTGTGAAGACTGTGCAGACAGATCATAACGCTGTACAGAGGCATAGA
 AGCACAATTGTGGACTGTCTGAAAGATCTGGATGTCTCCATAAAAAGACGTGCAATGGAATCTGAGTTTG
 CCTGGTGAATGGGAATAATATCCGAGGCATGATGAAAGAATTACTTTATTTTCTGGATTCTGTGAGCC
 AGAATTTAAAGCTGATTGTGCATCTGGAATCTTCTTGGCTGCAGAAAAGTACGCACCTTCCAACCGGTGG
 CATATAGATACAATTATGCGTGTCTTGACAACGGCAGGAAGTTATGTTCCGCGATGATGCAGTTCCTAACT
 TGATTCAGTTAATAACCAACAGTGTGGAGATGCACGCTTACACCGTCCAGCGCCTGTACAAGCGATTCT
 CGGTGACTATTCTCAACAACCTTGGTACAAGTGGCTGCGTGGTGTATAGGTGAATATGGCGATCTTCTT
 GTGTCTGGCCAGTGTGAAGAGGAAGAGCCTATTCAGGTGACAGAAGATGAAGTGTGGATATTTAGAAA
 GTGTCTGATCTAATATGTCCACCTCTGTGACAAGAGGCTATGCTCTCACTGCCATTATGAAGCTGTC
 TACCCGATTCACCTGTACTGTAAACCGAATTAAGAAAGTGGTTTCCATCTATGGGAGCAGCATCGACGTA
 GAGCTCCAGCAGAGGGCAGTAGAGTACAACGCACCTTTTTAAGAAGTATGACCACATGAGGCTGCCCCTAC
 TTGAAAGAATGCCTGTATGAAAAAGTGACCACAAATGGCCCTTCGGAGATCGTGCAGACAAATGGAGA
 GACAGAACCAGCGCCCTAGAGACTAAACCAACCCCTCAGGGCCACAACCCACAAGCCAGGCCAATGAT
 CTATTGGATTTGTTGGGAGGAAATGACATAACACCTGTTATCCCAACTGCACCTACAAGCAAACAGCAT
 CAGCTGGTGGAGAACTTCTCGACTTGTAGGAGACATCACCTGACAGGTGCTCCAGCTGCTGCTCCTAC
 CCCTGCCTCAGTGCCACAGATATCCAGCCCCCTTCTTGTGGATGGGCTTTCCTCACAGCCTCTCTTC
 AATGACATCGCTCCAGGCATCCCTCCATCACAGCGTACAGTAAAGACGGCTTGAAGATAGAGTTACCT
 TTGAACGGTCAAACCAACCCAGCGTAACAGTGATAACGATACAGGCCCTAACAGCACAGAGCTAGA
 CATGACGGACTTTGTTTTCCAGGCTGCAGTACCAAGACATTCAGCTGCAGCTTCTGTCTCTCAGCAGC
 AGCGTTGTCCCAGCCTTTAATACAGGGACCATCACACAAGTCATTAAGTTCTGAATCCACAGAAGCAAC
 AGCTGCGAATGCGGATCAAGCTCACATATAATCAAGGGCTCGGCAATGCAAGATCTAGCAGAAGTGAA
 CAATTTCCCCCTCAGTCTGGCAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210836 representing NM_009677
Red=Cloning site Green=Tags(s)

MPAPIRLRELIRTIRTARTQAEEREMIQKECAAIRSSFREEDNTYRCRNVAKLLYMHMLGYPAHFGQLEC
LKLIASQKFTDKRIGYLGAMLLDERQDVHLLMTNCIKNDLNHSTQFVQGLALCTLGCMGSSEMCRDLA
EVEKLLKTSNSYLKKAALCAVHVIRKVPPELMEFLPATKNLLNEKNHGVLTHTSVLLTEMCERSPDMLA
HFRKNEKLVLPQLVRILKNLIMSGYSPEHDVSGISDPFLQVRILRLLRILGRNDDDSSEAMNDILAQVATN
TETSKNVGNAILYETVLTIMDIKSEGLRVLAINILGRFLLNNDKNIRYVALTSLKTVQTDHNAVQRHR
STIVDCLKDLVSIKRRAMELSFALVNGNIRGMMKELLYFLDSCEPEFKADCASGIFLAAEKYAPSKRW
HIDTIMRVLTAGSYVRDDAVPNLIQLITNSVEMHAYTVQRLYKAILGDYSQQPLVQVAAWCIGEYGDLL
VSGQCEEEPIQVTEDEVLDILESVLISNMSTSVTRGYALTAIMKLSTRFTCTVNRKVVSIYSSIDV
ELQQRAVEYNALFKKYDHMRSALLERMPVMEKVTNNGPSEIVQTNGETEPAPLETKPPPSGPQPTSQAND
LLDLLGGNDITPVIPTAPTSKPASAGGELLDLLGDITLTGAPAAAPTASVPQISQPPFLLDGLSSQPLF
NDIAPGIPSITAYSKNGLKIEFTFERSNTNPSVTVITIQASNSTELDMTDFVFQAAVPKTFQLQLLSPSS
SVVPAFNTGTITQVIKVLNPQKQLRMRIKLTYNHKGSAQDLAEVNNFPPQSWQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9047_e05.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



ACCN: NM_009677

ORF Size: 2475 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_009677.6](#), [NP_033807.2](#)

RefSeq Size: 6817 bp

RefSeq ORF: 2478 bp

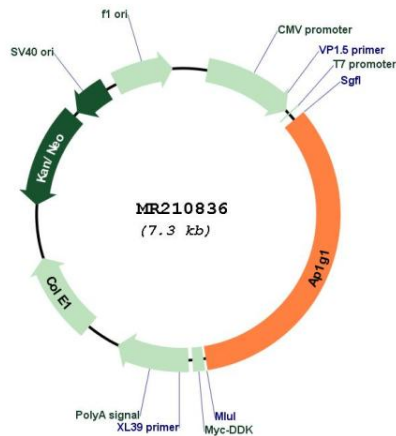
Locus ID: 11765

Cytogenetics: 8 57.26 cM

MW: 92.2 kDa

Gene Summary: Subunit of clathrin-associated adaptor protein complex 1 that plays a role in protein sorting in the late-Golgi/trans-Golgi network (TGN) and/or endosomes. The AP complexes mediate both the recruitment of clathrin to membranes and the recognition of sorting signals within the cytosolic tails of transmembrane cargo molecules.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210836