

Product datasheet for **MC204622**

Aph1a (NM_146104) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aph1a (NM_146104) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Aph1a
Synonyms:	6530402N02Rik; APH-1a
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC057865
 CCGTAGACGAGGTGGGCGGACCTTCGTCCGGGGTTTCGGCACCCCCCTTCCCCTTCCCCGGGGTCCGG
 GGGTGACATTGCACCGCGCCCCTCCTGGGGTTGCGTCCTCGCCCCACGCGGACTCCCCCTCGGCGCGCAG
 CTCCTTTTCGCCTTCTTGGCCGGGGTTCCCTCCCTTCCCAGCTGCCAGTCATGGGGGCTGCTGTGTT
 TTTCCGATGCACCTTCGTGCGGTTGGCCAGCCTTCTCCCTTTTCTGATCACTGTAGCTGGAGACCCA
 CTTCGGGTTATCATCCTGGTGGCGGGAGCCTTTTCTGGCTGGTCTCCCTGCTCTTGGCTCTGTGGTCT
 GGTTTCATCTTGGTCCATGTGACAGACCGATCAGATGCACGGCTCCAGTATGGCCTCCTGATTTTTGGTGC
 TGCTGTCTGTCTTCTACAGGAAGTGTCCGTTTTGCTTACTACAAGCTCCTTAAGAAGGCAGATGAG
 GGCTTAGCATCACTGAGTGAGGACGGAAGATCACCCATCTCCATCCGACAGATGGCCTATGTTTCTGGTC
 TGTCTTCGGTATCATCAGTGGTGTCTTCTGTATCAATATTTTGGCTGATGCACTTGGGCCAGGTGT
 GGTGGGATCCATGGAGACTCACCTATTACTTCTGACTTCAGCCTTTCTGACAGCAGCCATTATCCTG
 CTCACACCTTTTGGGAGTTGTGTTCTTTGATGCCTGTGAGAGGAGACGGTACTGGGCTTTGGGCTGG
 TAGTTGGGAGTCACCTTCTGACATCGGGACTGACATTCTGAACCCCTGGTATGAGGCTAGCCTGCTGCC
 CATCTATGCAGTCACCGTTTCCATGGGGCTCTGGGCGTTCATCACAGCCGAGGCTCCCTCCGAAGTATC
 CAGCGCAGCCTTTCGTGTAAGGACTGACTACCTGGACTGATCGCCCGACAGATCCCATCTGCCTATCCAC
 TGCCCATGACTGAACCCAGCCCCAGCCCGGTCCATTGCCCTCATCTCCGTCTCCTCGCTGATGTGCC
 CGTTCCTTCCGGGTTTGGCGTTGTCCATTTGTGACCTGTAGTCTCTAAGCTTCTCAGGAGCAGCCTGG
 GTGCAGCCAGTCAGGACTGGTGGGTTTGAATCTGCATCTCTCCCACCACCTGGGGACCCCTTGTGT
 CCAGGTCTCCCCATGTGTGAGTGTCCACCCTCACCTGCCCATGACTCACCCCGCTTCCCCTCTGCAGG
 CCGCCGGCAGGAGGACAGTCGGGTGATGGTGTACTCTGCCCTGCGCATCCCACCCGAGGACTGAGGGAAC
 ATGGGGGGGCCCTGGGCTGGGGTGCCTCCCGATCTCCTCGTCCCGTATTTCTCCATCTCCAGTCTG
 GACAGTGCAGGTTGCCAAGAAAAGGACCTAGCTTAGCCATGGCCCTGGAGATGAAGTTACTGAGGCTGA
 GGTAGATGGGTTCAAGTTCAGTGTCTCTGCCAGACTGGACATCTTGGTCTTTTTCTCAGGTCTGAAAG
 GAACCATTTTTTGGTATGATAAAGACCCAAAATGCCTTTTTTTTTAAAGTGGGGAGAGGGAGGTACG
 CCGGGAGCCTCTTAACTCCATAGGCTGTGTTTGTCCCAAATCTGCTGATGGTGGCTCATTTCTATCC
 TGTTCCTTTTGGTCCCAGGCCCTGGGGAAAGGAAGGAAGTGCATGCTTGGGACTGGTCCCCTGGA
 TCTCTATCCTAACGTCCATGGCCGTGAGCACCCTCCTTTCCCAAGGTGAAATGGAGGGTGTGTGGGG
 GCCTGCCACTCCATGGCAGTGCCTGAAGGAGTCAAGTACCATGGCATCGCAGGCCAGAGGGCAGAC
 ATTTTTCTAGTTTTTAATTGGGGTGTGGGAGGGTTTGGGAGGTTTTCTATCACTGTGTGTTTTTCTG
 CTGAGGGTGAATATTCTGTCTTTAATCAAGGTGATTGTGATTTTACTAATAAAAAAGGACTTTATAA
 TTGTGGGGGAAA AAAA

- Restriction Sites:** RsrII-NotI
- ACCN:** NM_146104
- Insert Size:** 744 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: [BC057865](#), [AAH57865](#)

RefSeq Size: 2104 bp

RefSeq ORF: 744 bp

Locus ID: 226548

UniProt ID: [Q8BVF7](#)

Cytogenetics: 3 F2.1

Gene Summary: This gene encodes a subunit of the gamma-secretase complex, which is localized to the endoplasmic reticulum and golgi apparatus. Gamma-secretase is a multi-protein enzyme that catalyzes intramembraneous proteolysis of type I transmembrane proteins and is essential for many signaling pathways, including the Notch signaling pathway. Studies suggest that the protein encoded by this locus binds directly to substrates of the gamma-secretase complex, including the beta-amyloid precursor protein which is associated with Alzheimer disease progression. This gene is required for normal embryonic development and survival, and disruption is associated with defects in the yolk sack angiogenesis, neural tube formation, and somitogenesis. A pseudogene of this gene is located on chromosome 1. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2013]

Transcript Variant: This variant (1) differs in the 3' coding region and 3' UTR, compared to variant 2. The resulting isoform (1, also known as isoform S) is shorter and has a distinct C-terminus, compared to isoform 2. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript from the same strain was available for the full length of the gene. The extent of this transcript is supported by transcript alignments and orthologous data. The genomic coordinates used for the transcript record were based on alignments.