

Product datasheet for **MR223505**

Aph1a (NM_146104) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aph1a (NM_146104) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aph1a
Synonyms:	6530402N02Rik; APH-1a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR223505 representing NM_146104 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGGGGCTGCTGTGTTTTTCGGATGCACCTTCGTCGCGTTTCGGCCAGCCTTCTCCCTTTCTGATCA
 CTGTAGCTGGAGACCACTTCGGGTTATCATCCTGGTGGCGGAGCCTTTTTCTGGCTGGTCTCCCTGCT
 CTTGGCTTCTGTGGTCTGGTTCATCTTGGTCCATGTGACAGACCGATCAGATGCACGGCTCCAGTATGGC
 CTCCTGATTTTTGGTGCTGCTGTCTCTGTCCTTCTACAGGAAGTGTTCCGTTTTGCTTACTACAAGCTCC
 TTAAGAAGGCAGATGAGGGCTTAGCATCACTGAGTGAGGACGGAAGATCACCATCTCCATCCGACAGAT
 GGCTATGTTTCTGGTCTGTCTTCGGTATCATCAGTGGTGTCTTCTCTGTTATCAATATTTGGCTGAT
 GCACTTGGGCCAGGTGTGGTTGGATCCATGGAGACTCACCTATTACTTCTGACTTCAGCCTTTCTGA
 CAGCAGCATTATCCTGCTCCACACCTTTTGGGAGTTGTGTTCTTTGATGCCTGTGAGAGGAGACGGTA
 CTGGGCTTTGGGCTGGTAGTTGGGAGTACCTTCTGACATCGGGACTGACATTCCTGAACCCCTGGTAT
 GAGGCTAGCCTGCTGCCATCTATGCAGTACCGTTTCCATGGGGCTCTGGGCTTCATCACAGCCGGAG
 GCTCCCTCCGAAGTATCCAGCGCAGCCTTTCGTGAAGGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >MR223505 representing NM_146104

Red=Cloning site Green=Tags(s)

MGAAVFFGCTFVAFGPAFLSLFLITVAGDPLRVIILVAGAFFWLVSLLLASVVFILVHVTDRSDARLQYGL
LLIFGAASVLLQEVFRFAYYKLLKKADEGLASLSEDGRSPISIRQMAYVSGLSFGIISGVFSVINILAD
ALGPGVVGIGHGSPYYFLTSAFLTAIIILLHTFWGVVFFDACERRRYWALGLVVGSHLLTSGLTFLNPWY
EASLLPIYAVTYSMGLWAFITAGGSLRSIORSLCKD

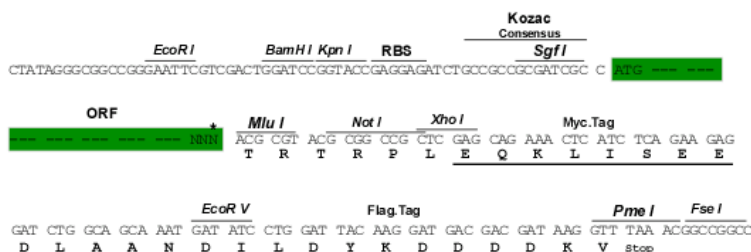
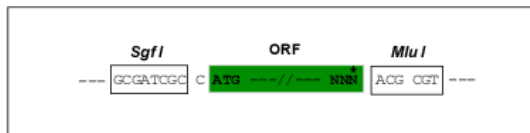
TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9030_c03.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 146104

ORF Size: 741 bp

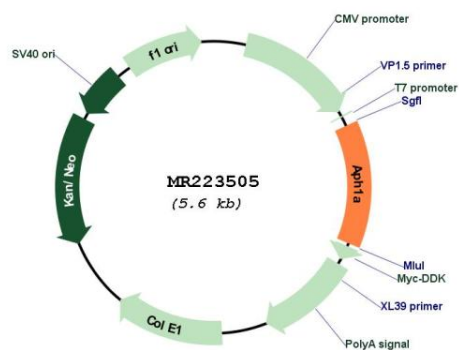
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<ol style="list-style-type: none"> 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_146104.3, NP_666216.1</u>
RefSeq Size:	3215 bp
RefSeq ORF:	744 bp
Locus ID:	226548
UniProt ID:	<u>Q8BVF7</u>
Cytogenetics:	3 F2.1
MW:	27.3 kDa
Gene Summary:	<p>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]</p>

Product images:



Circular map for MR223505