

Product datasheet for **MG220937**

Aph1a (NM_146134) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Aph1a (NM_146134) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Aph1a
Synonyms: 6530402N02Rik; APH-1a
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG220937 representing NM_146134
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGGCTGCTGTGTTTTTCGGATGCACCTTCGTCGCGTTCGGCCAGCCTTCTCCTTTTCTGATCA
CTGTAGCTGGAGACCCACTTCGGGTTATCATCCTGGTGGCGGGAGCCTTTTTCTGGCTGGTCTCCCTGCT
CTTGGCTTCTGTGGTCTGGTTCATCTTGGTCCATGTGACAGACCGATCAGATGCACGGCTCCAGTATGGC
CTCCTGATTTTTGGTGTGCTGTCTCTGTCTTCTACAGGAAGTGTCCGTTTTGCTTACTACAAGTCC
TTAAGAAGGCAGATGAGGGCTTAGCATCACTGAGTGAGGACGGAAGATCACCCATCTCCATCCGACAGAT
GGCCTATGTTTCTGGTCTGTCTTCGGTATCATCAGTGGTGTCTTCTCTGTTATCAATATTTGGCTGAT
GCACTTGGGCCAGGTGTGGTTGGATCCATGGAGACTCACCTATTACTTCTGACTTCAGCCTTTCTGA
CAGCAGCCATTATCCTGCTCCACACCTTTTGGGGAGTTGTGTTCTTTGATGCCTGTGAGAGGAGACGGTA
CTGGGCTTTGGGCTGGTAGTTGGGAGTCACCTTCTGACATCGGGACTGACATTCCTGAACCCCTGGTAT
GAGGCTAGCCTGCTGCCATCTATGCAGTACCGTTTTCCATGGGGCTCTGGGCGTTCATCACAGCCGGAG
GCTCCCTCCGAAGTATCCAGCGCAGCCTTTCGTGCCCGCCGAGGAGGACAGTCCGGTGATGGTGTACTC
TGCCCTGCGCATCCCACCCGAGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG220937 representing NM_146134
 Red=Cloning site Green=Tags(s)

MGAAVFFGCTFVAFGPAFSLFLITVAGDPLRVIIIVAGAFFWLVSLLLASVWVWILVHVHTDRSDARLQYG
 LLIFGAAVSVLLQEVRFAYYKLLKKADEGLASLSEDRSPISIRQMAYVSGLSFGIISGVFVSVINILAD
 ALGPGVVIHGDSPIYFLTSAFLTAAIILLHTFWGVVFFDACERRRYWALGLVVGSHLLTSGLTFLNPWY
 EASLLPIYAVTVSMGLWAFITAGGSLRSIQRSLSCRRQEDSRVMVYSALRIPPED

TRTRPLE - GFP Tag - V

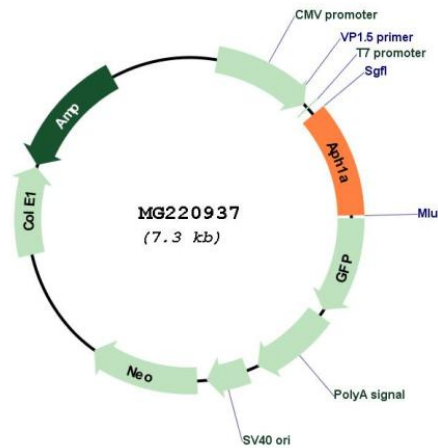
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_146134

ORF Size: 2879 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.
RefSeq:	NM_146134.2 , NP_666246.1
RefSeq ORF:	798 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]