

Product datasheet for **RG205070**

Aph 1b (APH1B) (NM_031301) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aph 1b (APH1B) (NM_031301) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Aph 1b
Synonyms:	APH-1B; PRO1328; PSFL; TAAV688
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205070 representing NM_031301 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTGCGGCCGTGTTCTTCGGCTGCGCCTTCATTGCCTTCGGGCTGCGCTCGCCCTTATGCTTCA
CCATCGCCACCGAGCCGTTGCGTATCATCTTCCTCATCGCCGGAGCTTCTTCTGGTTGGTGTCTCTACT
GATTCGTCCTTGTGGTTCATGGCAAGAGTCATTATTGACAACAAAGATGGACCAACACAGAAATAT
CTGCTGATCTTTGGAGCGTTTGTCTCTGTCTATATCCAAGAAATGTTCCGATTTGCATATTATAAATCT
TAAAAAAGCCAGTGAAGTTTGAAGAGTATAAACCAGGTGAGACAGCACCCCTCTATGCGACTGCTGGC
CTATGTTTCTGGCTTGGGCTTGGGAATCATGAGTGGAGTATTTTCTTTGTGAATACCCTATCTGACTCC
TTGGGGCCAGGCACAGTGGCATTTCATGGAGATTCTCCTCAATTCCTTTTATTAGCTTTTCATGACGC
TGGTCATTATCTTGTGCATGTATTCTGGGGCATTGTATTTTTGATGGCTGTGAGAAGAAAAAGTGGGG
CATCCTCCTTATCGTTCTCCTGACCCACCTGCTGGTGTGACGCCAGACCTTCATAAGTTCCTATTATGGA
ATAAACCTGGCGTCAGCATTTATAATCCTGGTGTCTATGGGCACCTGGGCATTCTTAGCTGCGGGAGGCA
GCTGCCGAAGCCTGAAACTCTGCCTGCTCTGCCAAGACAAGAACCTTCTTCTTTACAACCGCGCTCCAG
A

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG205070 representing NM_031301
Red=Cloning site Green=Tags(s)

MTAAVFFGCAFIAFGPALALYVFTIATEPLRIIFLIAGAFFWLVSLLISSLVWFMARVIIDNKDGPTQKY
 LLIFGAFVSVYIQEMFRFAYYKLLKKASEGLKSINPGETAPSMRLLAYVSGLGFGIMSGVFSFVNTLSDS
 LGPGTVGIHGDSPPQFFLYSAFMTLVIILLHVFWGIVFFFDGCEKKKWGILLIVLLTHLLVSAQTFISSYYG
 INLASAFIILVLMGTWAFLAAGGSCRSLKLCLLCQDKNFLLYNQRSR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_031301

ORF Size: 771 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_031301.4](#)

RefSeq Size: 939 bp

RefSeq ORF: 774 bp

Locus ID: 83464

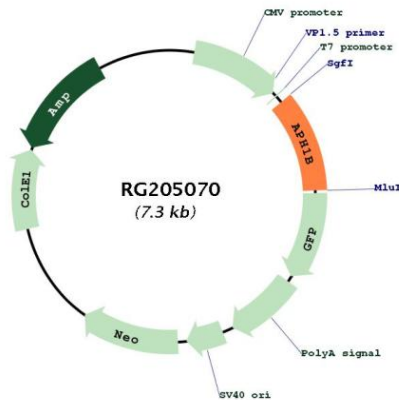
UniProt ID: [Q8WW43](#)

Cytogenetics: 15q22.2

Protein Families: Transmembrane

Gene Summary: This gene encodes a multi-pass transmembrane protein that is a functional component of the gamma-secretase complex, which also contains presenilin and nicastrin. This protein represents a stabilizing cofactor for the presenilin holoprotein in the complex. The gamma-secretase complex catalyzes the cleavage of integral proteins such as notch receptors and beta-amyloid precursor protein. [provided by RefSeq, Sep 2011]

Product images:



Circular map for RG205070