

Product datasheet for **RG201268**

PAFAH1B3 (NM_002573) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PAFAH1B3 (NM_002573) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PAFAH1B3
Synonyms:	PAFAHG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201268 representing NM_002573 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTGGAGAGGAGAACCAGCCAGCAAGCCACGCCGGTGCAGGACGTACAGGGCGACGGGCGCTGGA
TGTCCCTGCACCATCGGTTCTGGCTGACAGCAAAGATAAGGAACCCGAAGTCGTCTTCATCGGGGACTC
CTTGGTCCAGCTCATGCACCAAGTGCAGATCTGGCGGAGCTCTTCTCCTCTGCATGCACTTAACTTT
GGCATTGGTGGTACGGCACACAGCATGTACTGTGGCGGCTGGAGAATGGGGAGCTGGAACACATCCGGC
CCAAGATTGTGGTGGTCTGGGTGGGCACCAACAACCACGGACACACAGCAGAGCAGGTGACTGGTGGCAT
CAAGGCCATTGTGCAACTGGTGAATGAGCGACAGCCCCAGGCCCGGGTTGTGGTGCCTGGGCTGCTCCG
CGAGGCCAACATCCCAACCCACTTCGGGAGAAGAACCACAGGTGAACGAGCTGGTACGGCGGCGACTGG
CTGGCCACCCTCGGGCCCACTTCCTAGATGCCGACCCTGGCTTTGTGCACTCAGATGGCACCATCAGCCA
TCATGACATGTATGATTACCTGCATCTGAGCCGCTGGGCTACACACCTGTTTGCCGGGCTCTGCACTCC
CTGCTTCTGCGTCTGCTGGCCAAAGACCAGGGCCAAGGTGCTCCCTGCTGGAGCCCGCACCC

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201268 representing NM_002573
 Red=Cloning site Green=Tags(s)

MSGREENPASKPTPVQDVQDGRWMSLHHRFVADSKDKEPEVVF IGDSL VQLMHQCEIWRELF SPLHALNF
 GIGGDGTQHVLRLENGELEHIRPKIVVWVGTNNHGHTAEQVTGGIKAI VQLVNERQPQARVVVLGLLP
 RGQHPNPLREKNRQVNELVRAALAGHPRAHFLDADPGFVHSDGTISHHDMYDYLHLSRLGYTPVCRALHS
 LLLRLLAQDQGGAPLLEPAP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002573

ORF Size: 693 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_002573.4](#)

RefSeq Size: 1021 bp

RefSeq ORF: 696 bp

Locus ID: 5050

UniProt ID: [Q15102](#)

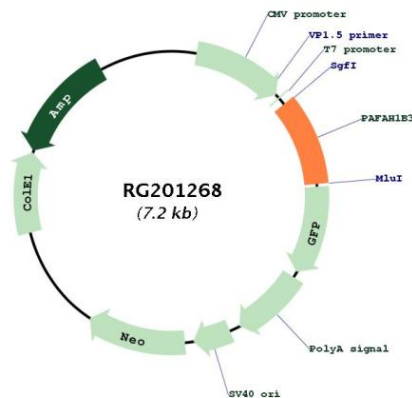
Cytogenetics: 19q13.2

Protein Families: Druggable Genome

Protein Pathways: Ether lipid metabolism, Metabolic pathways

Gene Summary: This gene encodes an acetylhydrolase that catalyzes the removal of an acetyl group from the glycerol backbone of platelet-activating factor. The encoded enzyme is a subunit of the platelet-activating factor acetylhydrolase isoform 1B complex, which consists of the catalytic beta and gamma subunits and the regulatory alpha subunit. This complex functions in brain development. A translocation between this gene on chromosome 19 and the CDC-like kinase 2 gene on chromosome 1 has been observed, and was associated with cognitive disability, ataxia, and atrophy of the brain. Alternatively spliced transcript variants have been described. [provided by RefSeq, Mar 2009]

Product images:



Circular map for RG201268