

Product datasheet for **RG200355**

PAFAH2 (NM_000437) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PAFAH2 (NM_000437) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PAFAH2
Synonyms:	HSD-PLA2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200355 representing NM_000437 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGTCAACCACTGTGGGCTTCCACCTGTCACAGGACCCACCTCGTAGGCTGTGGGATGTGA
TGGAGGTCAGAATCTCCAGGGAGCTTCTTCGACTCTTCTACCCCTGCCAAAAGGCAGAGGAGACCAT
GGAGCAGCCCTGTGGATTCCCCGCTATGAGTACTGCACTGGCCTGGCCGAGTACCTGCAGTTAATAAG
CGCTGCGGGGCTTGTCTTCAACCTGGCGGTGGGATCTTGTGCGCTGCCTGTTAGCTGGAATGGCCCT
TTAAGACAAAGGACTCTGGATACCCCTTGATCATCTTCTCCCATGGCCTAGGAGCCTTCAGGACTTTGTA
TTCAGCCTTCTGCATGGAGCTGGCCTCACGTGGCTTTGTGGTTGCTGTGCCAGAGCACAGGGACCGGTCA
GCGGCAACCACCTATTTCTGCAAGCAGGCCCCAGAAGAGAACCAGCCACCAATGAATCGCTGCAGGAGG
AATGGATCCCTTCCGTCGAGTTGAGGAAGGGGAGAAGGAATTTTCATGTTTCGGAATCCCAAGGTGCATCA
GCGGGTAAAGCAGTGTTCACGGGTGTTGAAGATCCTGCAAGAGGTCAGTCTGGGAGACTGTCTTCAAC
ATCTTGCCTGGTGGCTTGGATCTGATGACTTTGAAGGGCAACATTGACATGAGCCGTGTGGCTGTGATGG
GACATTCATTTGGAGGGCCACAGCTATTCTGGCTTTGGCCAAGGAGACCCAATTTCCGTTGTGGCTGGC
TCTGGATGCTTGGATGTTTCTCTGGAACGTGACTTTTACCCCAAGGCCGAGGACCTGTGTTCTTTATC
AATACTGAGAAATCCAGACAATGGAGAGTGTCAATTTGATGAAGAAGATATGTGCCAGCATGAACAGT
CTAGGATCATAACCGTTCTTGGTTCTGTTTCATCGGAGTCAAAGTACTTTGCTTTTGTGACTGGCAACTT
GATTGGTAAATCTTCTCCACTGAAACCGTGGGAGCCTGGACCCCTATGAAGGGCAGGAGTTATGGTA
CGGGCCATGTTGGCCTTCTGCAGAAGCACCTCGACCTGAAAGAAGACTATAATCAATGGAACAACCTTA
TTGAAGGCATTGGACCGTCTCACCCAGGGGCCCCACCATCTGTCCAGCCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200355 representing NM_000437
 Red=Cloning site Green=Tags(s)

MGVNQSVGFPPVTGPHLVGCGDVMGQNLQGSFFRLFYPCQKAEETMEQPLWIPRYEYCTGLAEYLQFNK
 RCGLLFNLA VGSCRLPVS WNGPFKTKDSGYPLIIFSHGLGAFRTLYSAFCMELASRGFVVAVPEHRDRS
 AATTYFCKQAPEENQPTNESLQEEWIPFRRVVEEGEKEFHVRNPQVHQRVSECLRVLKILQEVTAGQTVFN
 ILPGGLDLMTLKGNI DMSRVAVMGHSFGGATAILALAKETQFCAVALDAMFPLERDFYPKARGPVFFI
 NTEKFQTMESVNL MKKICAQHEQSRIITVLG SVHRSQTDFAFVTGNLIGKFFSTETRGSLDPYEGQEVVMY
 RAMLAF LQKHLDLKEDYNQWNNLIEGIGPSLTPGAPHHLSSL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000437

ORF Size: 1176 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_000437.4](#)

RefSeq Size: 2547 bp

RefSeq ORF: 1179 bp

Locus ID: 5051

UniProt ID: [Q99487](#)

Cytogenetics: 1p36.11

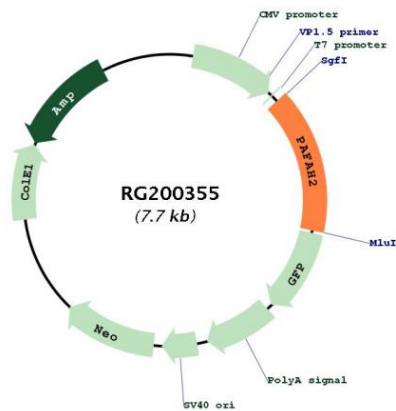
Domains: PAF-AH_p_II

Protein Families: Druggable Genome

Protein Pathways: Ether lipid metabolism, Metabolic pathways

Gene Summary: This gene encodes platelet-activating factor acetylhydrolase isoform 2, a single-subunit intracellular enzyme that catalyzes the removal of the acetyl group at the SN-2 position of platelet-activating factor (identified as 1-O-alkyl-2-acetyl-sn-glycerol-3-phosphorylcholine). However, this lipase exhibits a broader substrate specificity than simply platelet activating factor. Two other isoforms of intracellular platelet-activating factor acetylhydrolase exist, and both are multi-subunit enzymes. Additionally, there is a single-subunit serum isoform of this enzyme. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG200355