

Product datasheet for **RG207820**

GPIHBP1 (NM_178172) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: GPIHBP1 (NM_178172) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: GPIHBP1
Synonyms: GPI-HBP1; HYPL1D
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG207820 representing NM_178172
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGGCGCTCGGGCTGTCCTGCTTGCCTCTTGCTGTGCGGGCGGCCAGGGAGAGGGCAGACACAGC
 AGGAGGAAGAGGAAGAGGACGAGGACCAGGGCCAGATGACTACGACGAGGAAGATGAGGATGAGGTTGA
 AGAGGAGGAGACCAACAGGCTCCCTGGTGGCAGGAGCAGAGTGTCTGCGGTGCTACACCTGCAAGTCC
 CTGCCAGGGACGAGCGCTGCAACCTGACGCAGAACTGCTCACATGGCCAGACCTGCACAACCTCATTG
 CCCACGGGAACACCGAGTCAGGCTCCTGACCACCCACTCCACGTGGTGCACAGACAGCTGCCAGCCAT
 CACCAAGACGGTGGAGGGAGCCAGGTGACCATGACCTGCTGCCAGTCCAGCCTGTGCAATGTCCCACCC
 TGGCAAAGCTCCCGAGTCCAGGACCCAACAGGCAAGGGGGCAGGCGGCCCGGGGAGCTCCGAAACTG
 TGGGCGCAGCCCTCTGCTCAACCTCCTTGCCGCCTTGGAGCAATGGGGCCAGGAGACCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG207820 representing NM_178172
 Red=Cloning site Green=Tags(s)

MKALGAVLLALLLCGRPGRGQTQQEEEEDEDHGPDYDEEDEDVEEEEEENRLLPGRSRVLLRCYTCKS
 LPRDERCNLTQNC SHGQTCTTLIAHGNTESGLL TTHSTWCTDSCQPITKTVEGTQVTMTCCQSSLCNVPP
 WQSSRVQDPTGKAGGPRGSSETVGAALLLNLLAGLGAMGARRP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:


ACCN: NM_178172

ORF Size: 552 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_178172.2](#), [NP_835466.1](#)

RefSeq Size: 2281 bp

RefSeq ORF: 555 bp

Locus ID: 338328

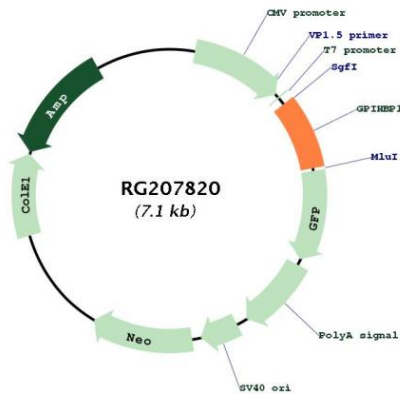
UniProt ID: [Q8IV16](#)

Cytogenetics: 8q24.3

Protein Families: Druggable Genome

Gene Summary: This gene encodes a capillary endothelial cell protein that facilitates the lipolytic processing of triglyceride-rich lipoproteins. The encoded protein is a glycosylphosphatidylinositol-anchored protein that is a member of the lymphocyte antigen 6 (Ly6) family. This protein plays a major role in transporting lipoprotein lipase (LPL) from the subendothelial spaces to the capillary lumen. Mutations in this gene are the cause of hyperlipoproteinemia, type 1D. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2014]

Product images:



Circular map for RG207820