

## Product datasheet for **RC235834**

### **GPIHBP1 (NM\_001301772) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** GPIHBP1 (NM\_001301772) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** GPIHBP1  
**Synonyms:** GPI-HBP1; HYPL1D  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC235834 representing NM\_001301772  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGAAGGCCTCGGGCTGTCCTGCTTGCCTCTTGCTGTTCGGCGGCCAGGGAGAGGGCAGACACAGC  
AGGAGGAAGAGGAAGAGGACGAGGACCACGGCCAGATGACTACGACGAGGAAGATGAGGATGAGGTGGA  
AGAGGAGGAGACCAACAGGCTCCCTGGTGGCAGGAGCAGAGTGTCTGCTGCGGTGCTACACCTGCAAGTCC  
CTGCCAGGGACGAGCGCTGCAACCTGACGCAGAACTGCTCACATGGCCAGACCTGCACAACCTCATTG  
CCCACGGGAACCGAGTCAGGCCTCTGACCACCCACTCCACGTGGTGCACAGACAGCTGCCAGCCAT  
CACCAAGACGGTGGAGGGGACCCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC235834 representing NM\_001301772  
**Red=Cloning site Green=Tags(s)**  
MKALGAVLLALLLFGRPGRGQTQQEEEEDEDHGPDDYDEEDEVEVEEETNRLPGGRSRVLLRCYTCKS  
LPRDERCNLTQNC SHGQTCTTLIAHGNTESGLL TTHSTWCTDSCQPITKTVEGTQ

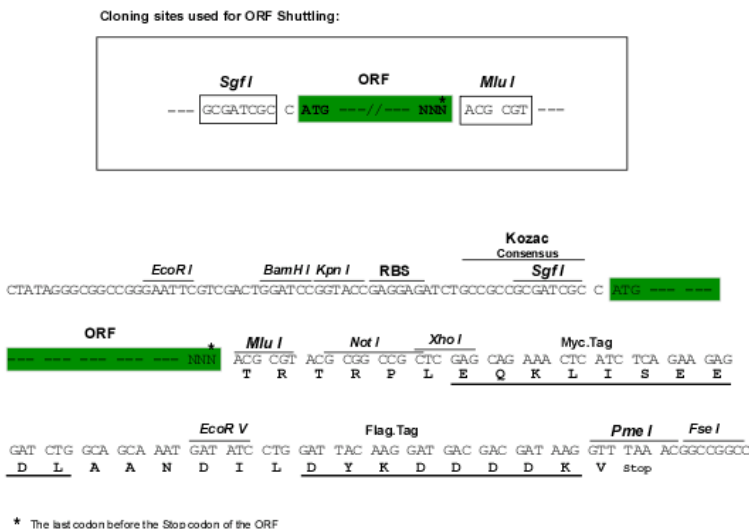
**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

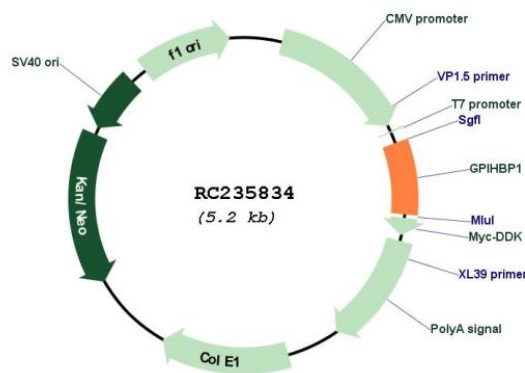


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Cloning Scheme:



Plasmid Map:



ACCN:

NM\_001301772

ORF Size:

375 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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001301772.2</a>
<b>RefSeq Size:</b>	625 bp
<b>RefSeq ORF:</b>	378 bp
<b>Locus ID:</b>	338328
<b>UniProt ID:</b>	<a href="#">Q8IV16</a>
<b>Cytogenetics:</b>	8q24.3
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	14.4 kDa
<b>Gene Summary:</b>	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]