

Product datasheet for MR202733

Gpihbp1 (NM_026730) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Gpihbp1 (NM_026730) Mouse Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Gpihbp1
 Synonyms: 1110002J19Rik; GPI-HBP1
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >MR202733 representing NM_026730
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGGATCGCC

ATGAAGGCTCTCAGGGCTGTCCTCCTGATCTTGCTACTAAGTGGACAGCCAGGGAGTGGCTGGGCACAAG
 AAGATGGTGATGCGGACCCGGAGCCAGAGAACAACAACACTACGATGATGACGATGATGAAGAGGAAGAGGA
 GGAGACCAACATGATCCCTGGAAGCAGGGACAGAGCACCTCTACAATGCTACTTCTGTCAAGTGCTTCAC
 AGCGGGGAGAGCTGCAATCAGACACAGAGCTGCTCCAGCAGCAAACCTTCTGCATCACGCTCGTCTCCC
 ACAGCGGAACCGACAAAGTTACCTGACTACCTACTCCATGTGGTGTACTGATACCTGCCAGCCCATCAT
 CAAGACAGTGGGAGGCACCCAGATGACTCAGACCTGTTGCCAGTCCACACTGTGCAATATCCACCCCTGG
 CAGAACCCTCAAGTCCAGAACCCTCTGGGTGGCCGGGCAGACAGCCCCCTGAAAAGTGGGACTAGACATC
 CTCAGGGTGGCAAGTTTAGCCACCCCAAGTTGTCAAGGCTGCTCATCCTCAGAGCGATGGGGCTAACTT
 GCCTAAGAGTGGCAAGGCTAACCAGCCCCAGGGAAGTGGGGCAGGATACCTTCAGGCTGGACAAATTT
 GGTAATATAGCCCTCTGCTCAGCTTCTCACTTGCTGTGGCGTCAGGGGCC

ACGCGTACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR202733 representing NM_026730
Red=Cloning site Green=Tags(s)

MKALRAVLLILLLSGQPGSGWAQEDGDADPEPENYNYYDDDDDEEEEEETNMIPGSRDRAPLQCYFCQVLH
 SGESCNQTQSCSSSKPFCITLVSHSGTDKGYLTTYSMWC TDTCCQPIIKTVGGTQMTQTCCQSTLCNIPPW
 QNPQVQNPLGGRADSPLESGTRHPQGGKF SHPQVVKAAHPQSDGANLPKSGKANPQGGSGAGYPSGWTKF
 GNIALLLSFFTCLWASGA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9039_g06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_026730

ORF Size: 684 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_026730.2](#)

RefSeq Size: 826 bp

RefSeq ORF: 687 bp

Locus ID: 68453

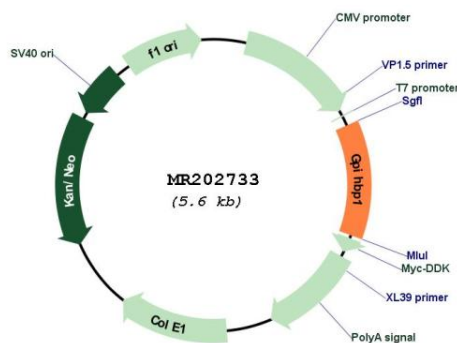
UniProt ID: [Q9D1N2](#)

Cytogenetics: 15 D3

MW: 25 kDa

Gene Summary: Mediates the transport of lipoprotein lipase LPL from the basolateral to the apical surface of endothelial cells in capillaries (PubMed:20620994). Anchors LPL on the surface of endothelial cells in the lumen of blood capillaries (PubMed:20620994, PubMed:24726386, PubMed:27811232). Thereby, plays an important role in lipolytic processing of chylomicrons by LPL, triglyceride metabolism and lipid homeostasis (PubMed:17403372). Binds chylomicrons and phospholipid particles that contain APOA5 (PubMed:18340083). Binds high-density lipoprotein (HDL) and plays a role in the uptake of lipids from HDL (PubMed:12496272).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202733