

Specifications:

Gene:	<i>hGPIHBP1</i>
Accession:	AAH35810
Insert size:	568bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

hGPIHBP1 cDNA Plasmid

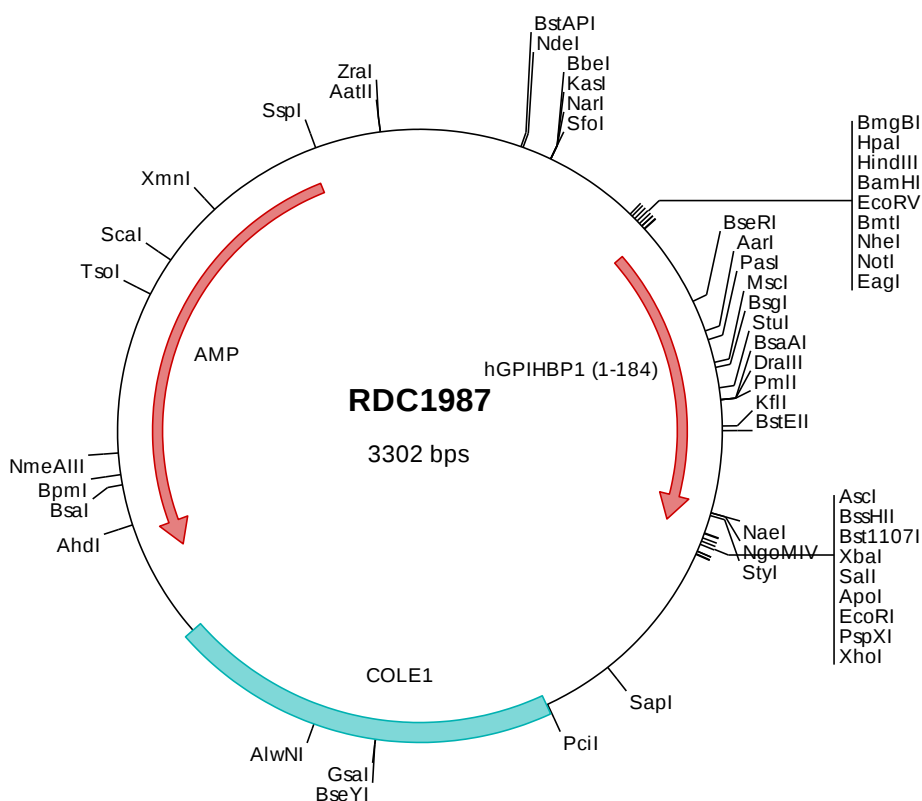
GPIHBP1

**glycosylphosphatidylinositol
anchored high density
lipoprotein binding protein 1
[*Homo sapiens* (human)]**

Also known as: HYPL1D; GPI-HBP1

Summary:

GPIHBP1 is a glycosylphosphatidylinositol-anchored protein that is a member of the lymphocyte antigen 6 (Ly6) family. It is a capillary endothelial cell protein that facilitates the lipolytic processing of triglyceride-rich lipoproteins. It plays a major role in transporting lipoprotein lipase (LPL) from the subendothelial spaces to the capillary lumen. Mutations in GPIHBP1 are the cause of hyperlipoproteinemia, type 1D. Alternatively spliced transcripts encoding different proteins have been described.



> RDC1987 Plasmid DNA Sequence

```

1   tcgcgcgttt  cggatgatgac  ggtgaaaaac  tctgacacat  gcagctcccc  gagacggtca  cagcttgctc  gtaagcggat  gccgggagca  gacaagcccc
101  tcagggcgcg  tcagcgggtg  ttggcgggtg  tcggggctgg  ctttaactatg  cggcatcaga  gcagattgta  ctgagagtgc  accatatgcg  gtgtgaaata
201  ccgcacacgat  gcgtaaggag  aaaataccgc  atcaggcgcc  attcgccatt  caggctgcgc  aactgttggg  aagggcgatc  ggtgcgggcc  tcttcgctat
301  tacgccagct  ggcgaaagg  ggatgtgctg  caaggcgatt  aagttgggta  acgccagggt  tttcccagtc  acgacgttgt  aaaacgacgg  ccagtgatt
401  ggagacgtgt  taacaagctt  ggatccgata  tcgctagcgc  ggccgcacc  atgaaggcgc  tcggggctgt  cctgcttgcc  ctcttgctgt  gccggcgccc
501  agggagaggg  cagacacagc  aggaggaaga  ggaagaggac  gaggaccacg  ggccagatga  ctacgacgag  gaagatgagg  atgagggtga  agaggaggaa
601  accaacaggg  tccttggtgg  caggagcaga  gtgctgtgct  ggtgctacac  ctgcaagtcc  ctgcccagg  acgagcgtg  caacctgacg  cagaactgct
701  cacatggcca  gacctgcaca  accctcattg  cccacgggaa  caccgagtca  ggctctctga  ccacccactc  cactgtgtgc  acagacagct  gccagcccat
801  caccaagacg  gtggagggga  ccagggtgac  catgacctgc  tgccagtgca  gcctgtgcaa  tgtcccaccc  tggcaaaagt  cccgagtcca  ggaccacaac
901  ggcaaggggg  caggcgggcc  ccggggcagc  tccgaaactg  tgggcgcagc  cctcctgtct  aacctccttg  ccggccttgg  agcaatgggg  gccaggaggg
1001 cetaaaggcg  cgccagata  ctctagatc  gacacccggg  gaattcctcg  agcgctcgct  tctagcttgg  cgtaatcatg  gtcatagctg  tttcctgtgt
1101 gaaattgtta  tccgctcaca  attccacaca  acatacgagc  cggaagcata  aagtgtaaa  cctgggggtg  ctaatgagtg  agctaactca  cattaattgc
1201 gttgcgctca  ctgcccgtt  tccagtcggg  aaacctgtcg  tgccagctgc  attaatgaat  cggccaacgc  gcggggagag  gcggtttgcg  tattggggcg
1301 tcttcgctt  cctcgctcac  tgactcgctg  cgctcggtcg  ttccggctgc  gcgagcggt  tcagctcact  caaaggcggt  aatacggtta  tccacagaat
1401 caggggataa  cgcaggaaag  aacatgtgag  caaaaggcca  gcaaaaggcc  aggaaccgta  aaaaggccgc  gttgctggcg  tttttccata  ggtccgccc
1501 ccctgacgag  catcacaaaa  atcgacgtc  aagtcagagg  tggcgaaacc  cgacaggact  ataaagatac  caggcgcttc  ccctggaag  ctccctcgctg
1601 cgctctcctg  ttccgacct  gcgcgttacc  ggatacctgt  ccgcctttct  cccttcggga  agcgtggcgc  tttctcaatg  ctacacgtgt  aggtatctca
1701 gttcgggtga  ggtcgctcgc  tccaagctgg  gctgtgtgca  cgaaccccc  gttcagcccg  accgctgcgc  cttatccggt  aactatcgct  ttgagtccaa
1801 cccgtaaga  cagcacttat  cgccactggc  agcagccact  ggtaacagga  ttagcagagc  gaggtatgta  ggcggtgcta  cagagtctct  gaagtgggtg
1901 cctaactacg  gctacactag  aaggacagta  tttggtatct  gcgctctgct  gaagccagtt  accttcggaa  aaagagttgg  tagctcttga  tccggcaaac
2001 aaaccaccgc  tggtagcgg  ggttttttt  tttgcaagca  gcagattacg  cgcaaaaaa  aaggatctca  agaagatcct  ttgatctttt  ctacgggggt
2101 tgacgctcag  tggaaacgaaa  actcacgtta  agggattttg  gtcattagat  tatcaaaaa  gatcttcacc  tagatccttt  taaattaaaa  atgaagtttt
2201 aaatcaatct  aaagtatata  tgagtaaaact  tggcttgaca  gttaccaatg  cttaatcagt  gaggcaccta  tctcagcgat  ctgtctatct  cgttcatcca
2301 tagttgctcg  actccccgtc  gtgtagataa  ctacgatacg  ggaggggtta  ccactctggc  ccagtgtctg  aatgataccg  cgagaccac  gctcacccgc
2401 tccagattta  tcagcaataa  accagccagc  cggaaaggcc  gagcgacaga  gtggtcctgc  cattgtctca  ggcacgtctg  tgtcacgctc  gtcgtttggt
2501 gaagctagag  taagtagttc  gccagttaat  agtttgcgca  acgttggtg  cgttgctaca  cggttagctc  cttcggtcct  ccgatcgttg  tcagaagtaa
2601 tcagctccgg  ttcccaacga  tcaaggcgag  ttacatgac  ccccatgttg  tgcaaaaaa  gccatccgta  agatgctttt  ctgtgactgg  tgagtactca
2701 gttggccgca  gtgttatcac  tcatgtttat  ggcagcactg  cataattctc  ttactgtcat  gccatccgta  agatgctttt  ctgtgactgg  tgagtactca
2801 accaagtcat  tctgagaata  gtgtatgcgg  cgaccgagtt  gctcttgccc  ggcgtcaata  cgggataata  ccgcccaca  tagcagaact  ttaaaagtgc
2901 tcatcattgg  aaaacgttct  tcggggcgaa  aactctcaag  gatcttaccg  ctgttgagat  ccagttcgat  gtaacccact  cgtgcacca  actgatcttc
3001 agcatctttt  actttcacca  gcgtttctgg  gtgagcaaaa  acaggaaggc  aaaaaggcgc  aaaaaggcgc  ataaggcgca  caaggaaatg  ttgaatactc
3101 atactcttcc  tttttcaata  ttattgaagc  atttatcagg  gttattgtct  catgagcgga  tacatatattg  aatgtattta  gaaaaataaa  caaatagggg
3201 ttccgcgcac  atttcccga  aaagtgccac  ctgacgtcta  agaaaccatt  attatcatga  cattaaccta  taaaaatagg  cgtatcacga  gcccttttcg
3301 tc

```

> RDC1987 Translated Insert Sequence

```

1   mkalgavlla lllcgrprgr qtgqeeeee edhgppddyde ededeveeee tnrlpggrsr vllrcyctcks lprdercnlt qncshggtct tliahgntes
101  gltthstwc tdsccpikt vegtqvtmtc cqsslnvpp wqssrvqdpt gkgaggprgs setvgaalll nllaglgamg arrp

```