

## Product datasheet for **RC227658**

### **GLB1 (NM\_001135602) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GLB1 (NM_001135602) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GLB1
Synonyms:	EBP; ELNR1; MPS4B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC227658 representing NM\_001135602  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCCGGGTTCTCTGGTTCGCATCCTCCCTCTGTTGCTGGTTCTGCTGCTTCTGGGCCCTACGCGCGGCT  
 TGCGCAATGCCACCCAGAGGATGTTTAAAATTGACTATAGCCGGGACTCCTTCTCAAGGATGGCCAGCC  
 ATTTTCGTACATCTCAGGAAGCATTCACTACTCCCGTGTGCCCGCTTCTACTGGAAGGACCGGCTGCTG  
 AAGATGAAGATGGCTGGGCTGAACGCCATCCAGACATTACCTGGCAGCTGTGGACAAGTGGTTGGGAGTC  
 CTTCTGCCAAGATGAAGCCTCCTCTATCAGAATGGAGGGCCAGTTATAACAGTGCAGGCAGCAACAT  
 CACAGATGCTTTCCTAAGCCAGAGGAAGTGTGAGCCCAAAGGACCCTTGATCAATTCTGAATTCTATACT  
 GGCTGGCTAGACTACTGGGGCCAACTCACTCCACAATCAAGACCGAAGCAGTGGCTTCTCCCTCTATG  
 ATATACTTGCCCGTGGGCGAGTGTGAACCTGTACATGTTTATAGGTGGGACCAATTTTGCCTATTGGAA  
 TGGGGCCAACTACCCTATGCAGCACAGCCACCAGCTACGACTATGATGCCCCACTGAGTGAGGCTGGG  
 GACCTCACTGAGAAGTATTTTGCTCTGCGAAACATCATCCAGAAGTTTAAAAAGTACCAGAAGGTCCTA  
 TCCTCCATCTACACAAAGTTTGCATATGGAAAAGTCACTTTGGAAAAGTAAAGACAGTGGGAGCAGC  
 TCTGGACATTCTGTGCCCTCTGGGCCATCAAAGCCTTTATCCCTTGACATTTATCCAGTGAAACAG  
 CATTATGGGTTTGTGCTGTACCGGACAACACTTCTCAAGATTGCAGCAACCCAGCACCTCTCTTTCAC  
 CCCTCAATGGAGTCCACGATCGAGCATATGTTGCTGTGGATGGGATCCCCAGGGAGTCTTGAGCGAAA  
 CAATGTGATCACTCTGAACATAACAGGGAAAGCTGGAGCCACTCTGGACCTTCTGGTAGAGAACATGGGA  
 CGTGTGAACATGGTGCATATATCAACGATTTAAGGGTTTGGTTTCTAACCTGACTCTCAGTCCAATA  
 TCCTCACGGACTGGACGATCTTCCACTGGACACTGAGGATGCAGTGGCAGCCACTGGGGGGCTGGGG  
 ACACCGTGACAGTGGCCACCATGATGAAGCCTGGGCCACAACACTCATCCAACACACGCTCCCGCCCTT  
 TATATGGGGAACCTCTCCATTCCAGTGGGATCCAGACTTGCCCCAGGACACCTTTATCCAGTTTCTG  
 GATGGACCAAGGGCCAGGCTGGATTAATGGCTTAACTTGCCGCTATTGGCCAGCCCGGGGCCCTCA  
 GTTGACCTTGTGTTGCCCCAGCACATCCTGATGACCTCGGCCCAAACACCATCACCGTCTGGAACCTG  
 GAGTGGGCACCCTGCAGCAGTATGATCCAGAACTATGTGCTGTGACGTTCTGGACAGGCCAGTTATTG  
 GCTCATCTGTGACCTACGATCATCCCTCAAACCTGTTGAAAAAGACTCATGCCCCACCCCGCAAAA  
 AAACAAAGATTTCATGGCTGGACCATGTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC227658 representing NM\_001135602  
 Red=Cloning site Green=Tags(s)

MPGFLVRLPLLLVLLLLGPTRGLRNATQRMFEIDYSRDSFLKDGQPFYISGSIHYSRVPRFYWKDRLL  
 KMKMAGLNAIQTLPGSCQVVGSPSAQDEASPLSEWRASYNSAGSNI TDAFLSQRKCEPKGPLINSEFYT  
 GWLDHWGQPHSTIKTEAVASSLYDILARGASVNL YMFIGGTNFAYWNGANSPYAAQPTS YDYDAPLSEAG  
 DLTEKYFALRNIIQKFEKVPEGP IPPSTPKFAYGKVTLEKLVGAALDILCPSGPIKSL YPLTFIQVKQ  
 HYGFVLYRTTLPQDCSNPAPLSSPLNGVHDRAYVAVDGIPQGLERNVITL NITGKAGATDLLVENMG  
 RVNYGAYINDFKGLVSNLTLSSNILTDWTFIPLDTEDAVRSHLGGWGHRS GHHDEAWAHNSSNYTLPAF  
 YMGNFSIPSGIPDL PQDTFIQFPGWTKGQVWINGFNLGRYWPARGPQL TLFVPQHILM TSAPNTITVLEL  
 EWAPCSSDDPELCAVTFVDRPVI GSSVTYDHPSKPVEKRLMPPPPQKNKDSWLDHV

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8066\\_f06.zip](https://cdn.origene.com/chromatograms/mk8066_f06.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001135602

**ORF Size:** 1638 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\\_001135602.2](#)

**RefSeq ORF:** 1641 bp

**Locus ID:** 2720

**UniProt ID:** [P16278](#)

**Cytogenetics:** 3p22.3

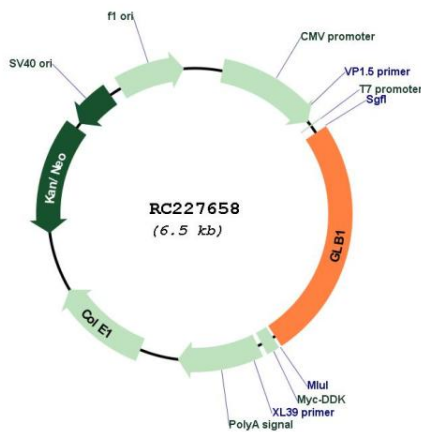
**Protein Families:** Druggable Genome

**Protein Pathways:** Galactose metabolism, Glycosaminoglycan degradation, Glycosphingolipid biosynthesis - ganglio series, Lysosome, Metabolic pathways, Other glycan degradation, Sphingolipid metabolism

**MW:** 60.54 kDa

**Gene Summary:** This gene encodes a member of the glycosyl hydrolase 35 family of proteins. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the mature lysosomal enzyme. This enzyme catalyzes the hydrolysis of a terminal beta-linked galactose residue from ganglioside substrates and other glycoconjugates. Mutations in this gene may result in GM1-gangliosidosis and Morquio B syndrome. [provided by RefSeq, Nov 2015]

**Product images:**



Circular map for RC227658