

Product datasheet for **RG227658**

GLB1 (NM_001135602) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GLB1 (NM_001135602) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GLB1
Synonyms:	EBP; ELNR1; MPS4B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG227658 representing NM_001135602
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCGGGTTCTCTGGTTCGCATCCTCCCTCTGTTGCTGGTTCTGCTGCTTCTGGGCCCTACGCGCGGCT
 TGCGCAATGCCACCCAGAGGATGTTTAAAATTGACTATAGCCGGGACTCCTTCTCAAGGATGGCCAGCC
 ATTTTCGCTACATCTCAGGAAGCATTCACTACTCCCGTGTGCCCGCTTCTACTGGAAGGACCGGCTGCTG
 AAGATGAAGATGGCTGGGCTGAACGCCATCCAGACATTACCTGGCAGCTGTGGACAAGTGGTTGGGAGTC
 CTTCTGCCAAGATGAAGCCTCTCCTCTATCAGAATGGAGGGCCAGTTATAACAGTGCAGGCAGCAACAT
 CACAGATGCTTTCCTAAGCCAGAGGAAGTGTGAGCCCAAAGGACCCTTGATCAATTCTGAATTCTATACT
 GGCTGGCTAGATCACTGGGGCCAACTCACTCCACAATCAAGACCGAAGCAGTGGCTTCTCCCTCTATG
 ATATACTTGCCCGTGGGCGAGTGTGAACCTGTACATGTTTATAGGTGGGACCAATTTTGCCTATTGGAA
 TGGGGCCAACTCACCTATGCAGCACAGCCACCAGCTACGACTATGATGCCCCACTGAGTGAGGCTGGG
 GACCTCACTGAGAAGTATTTTGCCTCGCGAAACATCATCCAGAAGTTTAAAAAGTACCAGAAGGTCCTA
 TCCTCCATCTACACAAAGTTTGCATATGGAAAAGTCACTTTGAAAAGTTAAAGACAGTGGGAGCAGC
 TCTGGACATTCTGTGCCCTCTGGGCCATCAAAGCCTTTATCCCTTGACATTTATCCAGTGAAACAG
 CATTATGGGTTTGTGCTGTACCGGACAACACTTCTCAAGATTGCAGCAACCCAGCACCTCTCTTTCAC
 CCCTCAATGGAGTCCACGATCGAGCATATGTTGCTGTGGATGGGATCCCCAGGGAGTCTTGAGCGAAA
 CAATGTGATCACTCTGAACATAACAGGGAAAGCTGGAGCCACTCTGGACCTTCTGGTAGAGAACATGGGA
 CGTGTGAACATGGTGCATATATCAACGATTTTAAAGGTTTGGTTTCTAACCTGACTCTCAGTCCAAATA
 TCCTCACGGACTGGACGATCTTCCACTGGACACTGAGGATGCAGTGGCAGCCACTGGGGGGCTGGGG
 ACACCGTGACAGTGGCCACCATGATGAAGCCTGGGCCCAACTCATCCAACACACGCTCCCGGCCCTT
 TATATGGGAACTTCTCCATTCCAGTGGGATCCAGACTTGCCCCAGGACACCTTTATCCAGTTTCTG
 GATGGACCAAGGGCCAGGCTGGATTAATGGCTTAACTTGGCCGCTATTGGCCAGCCCGGGGCCCTCA
 GTTGACCTTGTGTTGCCCCAGCACATCCTGATGACCTCGGCCCAACACCATCACCGTCTGGAACCTG
 GAGTGGGCACCCTGCAGCAGTGTGATCCAGAACTATGTGCTGTGACGTTCTGGACAGGCCAGTTATTG
 GCTCATCTGTGACCTACGATCATCCCTCCAAACCTGTTGAAAAAGACTCATGCCCCACCCCGCAAAA
 AAACAAAGATTCATGGCTGGACCATGTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG227658 representing NM_001135602
 Red=Cloning site Green=Tags(s)

MPGFLVRIPLLLVLLLLLPTRGLRNATQRMFEIDYSRDSFLKDGQPFRIYISGSIHYSRVPRFYWKDRLL
 KMKMAGLNAIQTLPGSCQVVGSPSAQDEASPLSEWRASYNAGSNIITDAFLSQRKCEPKGPLINSEFYT
 GWLDHWGQPHSTIKTEAVASSLYDILARGASVNL YMF IGGTNFAYWNGANSPYAAQPTS YDYDAPLSEAG
 DLTEKYFALRNIIQKFEKVPEGP IPPSTPKFAYGKVTLEKLT VGAALDILCPSGPIKSLYPLTFIQVKQ
 HYGFVLYRRTLPQDCSNPAPLSSPLNGVHDRAYVAVDGI PQGLERNVITL NITGKAGATLDLLVENMG
 RVNYGAYINDFKGLVSNLTLSSNILTDWTIFPLDTEDAVRSHLGGWHRDSGHHDEAWAHNSSNYTLPAF
 YMGNFSIPSGIPDLPQDTFIQFPGWTKQVWINGFNLGRYWPARGPQLTLFVPQHILMTSAPNTITVLEL
 EWAPCSSDPELCAVTFVDRPVI GSSVTYDHPSKPV EKRLMPPPPQKNKDSWLDHV

TRTRPLE - GFP Tag - V

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 Size: 2195 bp

RefSeq ORF: 1641 bp

Locus ID: 2720

UniProt ID: [P16278](#)

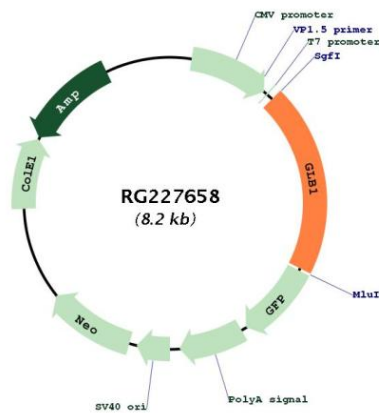
Cytogenetics: 3p22.3

Protein Families: Druggable Genome

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

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 RG227658