

Product datasheet for **MR209735**

Glb1 (NM_009752) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glb1 (NM_009752) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Glb1
Synonyms:	AW125515; Bg; Bge; Bgl; Bgl-; Bgl-e; Bgl-s; Bgl-t; Bgs; Bgt; C130097A14Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR209735 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTCCGGGTCCCCTGTGTACGCCGCTCCCGCTCCTGGCACTGCTGCAACTGCTGGGCGCTGCGCAGC
 GCATCTATAATGTCACCCAGAGGACATTTAAGCTCGACTACAGCCGGGACCGCTTCTCAAGGATGGACA
 GCCATTCCGATACATCTCGGAAGCATTACTTCCGGATACCCCGCTTCTACTGGGAGGACCGGCTG
 CTGAAGATGAAGATGGCTGGGCTGAATGCTATCCAGATGTACGTGCCCTGGAACCTCCATGAACCCCAAC
 CAGGACAATATGAGTTTTCTGGGACCGTGATGTGGAGCATTTCCATCCAGCTGGCTCATGAGCTGGGACT
 CCTGGTATCCTGAGGCCTGGGCCCTACATCTGTGCAGAGTGGGACATGGGGGGCTTACCTGCTTGCTA
 CTAGAGAAACAATCTATCGTTCTCCGGTCTTCTGACCCAGACTACCTTGTAGCTGTGGATAAATGGCTGG
 CAGTCTTCTGCCAAGATGAAGCCCTGCTCTACCAGAACGGAGACCGATCATAACCGTGCAGGTTGA
 GAATGAGTACGGGTCCTACTTTGCTGCGATTACGACTACCTACGCTTCTGGTGCACCGCTTCCGCTAC
 CATCTGGGTAATGACGTACTTCTTACCACCGACGGAGCAAGTGAAAAAATGCTGAAGTGTGGGACCC
 TGCAGGACCTGTACGCCACAGTGGATTTTGAACAGGCAACAATATCACACAAGCTTTTCTGGTCCAGAG
 GAAGTTTGAACCTAAAGGACCTTTGATCAATTCTGAGTTCTATACTGGCTGGCTAGACCACTGGGGTAAA
 CCCCATTCACGGTGAAGAACTAAACACTGGCTACCTCCCTCTATAACCTGCTTGCCCGTGGGGCCAACG
 TGAACCTGTACATGTTTATAGGTGGGACCAATTTTGCCTATTGGAATGGTGCCAACACGCCCTATGAGCC
 ACAGCCCACAGCTATGACTACGACGCCCACTGAGCGAGGCTGGGGACCTCACTAAGAAGTATTTTGTCT
 CTTGAGAAGTCATTGAGATGTTTAAAGAAGTCCAGAAGGCCCTATCCCTCCGTCTACACCCAAATTTG
 CATATGGAAAAGTTGCTCTGAGAAAGTTCAAGACAGTGGCTGAAGCTCTGGGTATCCTGTGTCCCAATGG
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 ACAACGCTTCTCAAGATTGCAGTAACCCGAAACCCATTTTCTTTCACCTTCAATGGCGTCCGTGATC
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 ACAGGGGAAGGCTGGAGCCACGCTGGACATCCTGGTGGAGAACATGGGGCGTGTAACTATGGCAGATTC
 ATCAATGACTTCAAGGGTTTGATTTCCAACATGACTATCAACTCCACTGCTCCTACCAACTGGACGGTCT
 TCCCACTGGACACTGAGGCCATGGTACGCAACCATCTCTGGGGCCGGGAGGCCAGTGATGGGGTCACT
 TGACGGACGGTCGACCTCAATTCTTCGGACCTCATACTCCCACCTTTTACGTGGGCAACTTCTCCATC
 CCCTCGGGCATCCAGACCTGCCACAGGACACCTTCATCCAGTTTCTGGGTGGTCCAAGGGTCAAGTAT
 GGATCAATGGCTTTAACCTCGGCCGATACTGGCCACAATGGGGCCACAAAAGACCTTGTTCGTGCCAAG
 GAACATCCTGACCACTTCAGCCCCAAACAACATCACAGTGTGGAGCTAGAGTTTGCACCTGCAGCGAG
 GGGACCCAGAGCTGTGTACAGTAGAGTTTGTGACACTCCGGTCATTTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR209735 protein sequence
Red=Cloning site Green=Tags(s)

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MLRVPLCTPLPLLALLQLLGAAHGIYNVTQRTFKLDYSRDRFLKDGQPFYISGSIHYFRIPRFYWEDRL
LKMKMAGLNAIQMYVPWNFHEPQPGQYEFSGDRDVEHF IQLAHELGLLVILRPGPYICAEDWDMGGLPAWL
LEKQSIVLRSSDPDYLVAVDKWLAVLLPKMKPLLYQNGGPITVQVENEYGSYFACDYDYLRFVHRFRY
HLGNDVILFTTDGASEKMLKCGTLQDL YATVDFGTGNNITQAFLVQRKFEPKGPLINSEFYTGWLDHWGK
PHSTVKTKTLATSLYNLLARGANVNYMF IGGTNFAYWNGANTPYEPQPTSYPDAPLSEAGDLTKKYFA
LREVIQMFKEVPEGPIPPSTPKFAYGKVALRKFKTVAEALGILCPNGPVKSLYPLTFTQVKQYFGYVLYR
TTLPQDCSNPKPIFSSPFNGVRDRAYVSV DGV PQGILDRNLMTALNIQ GKAGATLDILVENMGRVNYGRF
INDFKGLISNMTINSTVL TNWTVFLDTEAMVRNHLWG REASDGGHLDGRSTSNSSDLILPTFYVGNFSI
PSGIPDLQDTFIQFPGWSKGQVWINGFNLGRY WPTMGPQKTLFVPRNILTTSAPNNITVLELEFAPCSE
GTPELCTVEFVDTPVIS
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_009752

ORF Size: 1944 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_009752.1](#), [NM_009752.2](#), [NP_033882.1](#)

RefSeq Size: 2396 bp

RefSeq ORF: 1944 bp

Locus ID: 12091

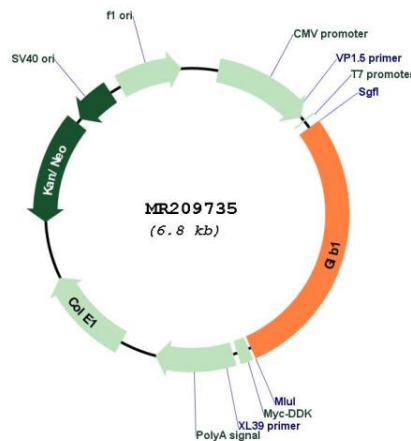
UniProt ID: [P23780](#)

Cytogenetics: 9 64.4 cM

MW: 73 kDa

Gene Summary: This gene encodes a preproprotein that is proteolytically cleaved to yield a signal peptide and a propropein that is subsequently processed to generate the active mature peptide. The encoded protein is a lysosomal enzyme that catalyzes the hydrolysis of terminal beta-D-galactose residues in various substrates like lactose, ganglioside GM1 and other glycoproteins. Mutations in the human gene are associated with GM1-gangliosidosis and Morquio B syndrome. Disruption of the mouse gene mirrors the symptoms of human gangliosidosis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2013]

Product images:



Circular map for MR209735