

Product datasheet for **MC202893**

Glb1 (NM_009752) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glb1 (NM_009752) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Glb1
Synonyms:	AW125515; Bg; Bge; Bgl; Bgl-; Bgl-e; Bgl-s; Bgl-t; Bgs; Bgt; C130097A14Rik
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >BC028875 sequence for NM_009752
 CTGCCTAACGGAGAGACCCCATCGTGGCGCATCATGCTCCGGGTCCCCCTGTGTACGCCGCTCCCGCTC
 CTGGCACTGCTGCAACTGCTGGGCGCTGCGCACGGCATCTATAATGTCACCCAGAGGACATTTAAGCTCG
 ACTACAGCCGGGACCGCTTCTCAAGGATGGACAGCCATTCGATACATCTCGGGAAGCATTCACTACTT
 CCGGATACCCCGCTTCTACTGGGAGGACCGGCTGCTGAAGATGAAGATGGCTGGGCTGAATGCTATCCAG
 ATGTACGTGCCCTGGAACCTCCATGAACCCCAACCAGGACAATATGAGTTTTCTGGGACCGTGATGTGG
 AGCATTTTCATCCAGCTGGCTCATGAGCTGGGACTCCTGGTGATCCTGAGGCCTGGGCCCTACATCTGTGC
 AGAGTGGGACATGGGGGGCTTACCTGCTTGGCTACTAGAGAAACAATCTATCGTTTCCGGTCTTCTGAC
 CCAGACTACCTTTAGCTGTGGATAAATGGCTGGCAGTCTTCTGCCAAGATGAAGCCCTGCTCTACC
 AGAACGGAGGACCGATCATAACCGTGCAGGTTGAGAATGAGTACGGGCTCTACTTTGCTGCGATTACGA
 CTACCTACGCTTCTGGTGCACCGCTTCCGCTACCATCTGGGTAATGACGTCATTCTCTTACCACCGAC
 GGAGCAAGTGAAAAATGCTGAAGTGTGGGACCTGCAGGACCTGTACGCCACAGTGATTTTGGAAACAG
 GCAACAATATCACACAAGCTTCTGGTCCAGAGGAAGTTTGAACCTAAAGGACCTTTGATCAATTCTGA
 GTTCTATACTGGCTGGCTAGACCACTGGGGTAAACCCATTCCACGGTAAAACTAAAACACTGGCTACC
 TCCCTCTATAACCTGCTTCCCCGTGGGGCAACGTGAACCTGTACATGTTTATAGGTGGGACCAATTTTG
 CCTATTGGAATGGTGCCAACACGCCCTATGAGCCACAGCCACCAGCTATGACTACGACGCCCCACTGAG
 CGAGGCTGGGGACCTCACTAAGAAGTATTTTGCTCTTCGAGAAGTCATTAGATGTTTAAAGAAGTCCCA
 GAAGGCCCTATCCCTCCGTCTACACCCAAATTTGCATATGAAAAAGTTGCTCTGAGAAAAGTTCAAGACAG
 TGGCTGAAGCTCTGGGTATCCTGTGTCCCAATGGGCCAGTAAAAAGCCTCTATCCCTGACATTCACCTCA
 GGTAAAACAGTATTTTGGGTATGTGCTGTACCGAACACGCTTCTCAAGATTGCAGTAACCCGAAACCC
 ATTTTCTCTTACCCTTCAATGGCGTCCGTGATCGGGCTTACGTCTCTGTGGACGGGGTCCCCAAGGAA
 TCCTTGATCGAAACCTCATGACAGCTCTGAACATACAGGGGAAGGCTGGAGCCACGCTGGACATCCTGGT
 GGAGAACATGGGGCGTGAACATGAGCAGATTCAATGACTTCAAGGTTTTGATTTCAACATGACT
 ATCAACTCCACTGCTCACCACCTGGACGGTCTTCCCACTGGACACTGAGGCCATGGTACGCAACCATC
 TCTGGGGCCGGGAGGCCAGTGTGGGGTACCTTGACGGACGGTCCGACCTCCAATTTCTCGACCTCAT
 ACTCCCCACCTTTTACGTGGGCAACTTCTCCATCCCCTCGGGCATCCCAGACCTGCCACAGGACACCTTC
 ATCCAGTTTCTGGGTGGTCCAAGGTTCAAGTATGGATCAATGGCTTTAACCTCGGCCGATACTGGCCCA
 CAATGGGGCCACAAAAGACCTTGTTCGTGCCAAGGAACATCCTGACCACTTACAGCCCAAAACAACATCAC
 AGTGTGGAGCTAGAGTTTGCACCCTGCAGCGAGGGGACCCAGAGCTGTGTACAGTAGAGTTTGTGAC
 ACTCCGGTCATTTCTGACCTGACTTGACCATCGGTGGCCATTTTCCAAGCCAGTCTGGTCAAGACTCAT
 GGCTGAACCTCTGAGACTGAGCCTTGGGGAGCACAGCTCTACTCTGGTTACACGGATCACCTTTGTTGTG
 CTAGAATGGAAGCTACATTTCTGGAATGTGTGTACCCTGCTGGTACTTTGCAGCCCGCCTTGCCTGAC
 CTCCCACCTAGTGGCCACCGGGAAGGCTGAAGGGAGTGGACACCACAGGAAGACACAGGTTGGAGCAAA
 ACTTGAATAATGCTCTTATCCTGATTTGAAATAATCACGTCATCTTTCTGCTGAATAAAATTGGTTTGC
 AAGTTGAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_009752

Insert Size: 1944 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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: [BC028875](#), [AAH28875](#)

RefSeq Size: 2338 bp

RefSeq ORF: 1944 bp

Locus ID: 12091

UniProt ID: [P23780](#)

Cytogenetics: 9 64.4 cM

Gene Summary: This gene encodes a preproprotein that is proteolytically cleaved to yield a signal peptide and a proprotein 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]

Transcript Variant: This variant (1) represents the longest transcript and encodes the functional protein.