

Product datasheet for **RR202546**

Glb1 (NM_001108192) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glb1 (NM_001108192) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Glb1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR202546 representing NM_001108192
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTCCGGGTCCCCTGTGTATGCTGCTCCCGCTCCTGGCGCTCCTGCAGTTGCTGGGCGCTGCGCACA
 GTTCTATAATGTCTCCAGAGGACATTTGAGCTGGACTACAAACGGGACCGCTTCTCAAGGATGGGCA
 GCCATTCCGCTACATCTCGGGAAGCATTCACTACTCCGATACCCCGATTCTACTGGGAGGACCGGCTG
 CTAAGATGAAGATGGCTGGGCTGGATGCAATCCAGACGTACGTGCCCTGGAACCTCCATGAACCCACG
 CAGGACAATATGACTTTTCTGGGACCGTGATGTGGAACATTTCACTCAGCTGGCTCACCAGCTGGGACT
 CCTGGTATCCTGAGGCCTGGGCCCTACATCTGTGCAGAGTGGGACATGGGGGGCTTACCCGCTTGGTTA
 CTAGAGAAAGAATCGATCGTTCTCCGGTCTCCGACCCAGATTACCTGCAGCTGTGGATAAATGGCTGG
 CAGTCTTCTGCCAAGATGAAGCGTCTGCTCTACCAGAACGGAGGCCCATATAACCGTGCAGGTTGA
 GAATGAGTACGGGTCCTACTTCGCTGCGATTATAACTACCTGCGTTTCTGGAGCACCGCTTCCGCTAC
 CATTGGGTAACGACATCATTCTCTCACCAGTACGGAGCAGCTGAAAAATTACTCAAGTGTGGGACCC
 TGCAGGACCTCTACGCCACAGTGGATTTTGAACAACCGCAATATCACACGAGCTTTCTGATCCAGAG
 GAATTTTGAACCCAAAGGACCTTTGATCAATTCTGAGTTCTATACTGGCTGGTTAGACCACTGGGGTCAA
 CCCATTCCAAAGTGAATACTAAGAAGTTGGTGGCCTCCCTCTATAACCTGCTTGCCACGGGGCCAGCG
 TGAAGTGTACATGTTTATAGGTGGGACCAATTTTGCCTATTGGAATGGTCCAACATGCCTATGCCCC
 ACAGCCAAACAGCTATGACTATGACGCCCACTGAGCGAGGCAGGAGACCTCACTGAGAAGTACTTCGCA
 GTACGAGATGTCATTTCGGAAGTTTAAAGAAGTCCAGAAGGCCCTATCCCTCCATCTACACCCAAGTTCCG
 CATATGGAAAAGTTGCTCTGAGAAAAGTTCAAGACGGTGACGGAAGCTCTGGGTATACTGTGTCCCAACGG
 GCCCGTAAAAAGCCTCTACCCCTTGACGTTCACTCAGGTAAAACAGTATTTTGGGTATGTGCTATACCGA
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 GGGCTACGTCTCTGTGGACGGGTCCCCAAGGAATCCTTGATCGAAACCGTATGAACGTTCTGAACAT
 TCGGGGAAGGCCGAGCCACGCTAGACATTCTGGTGGAGAACATGGGGCGTGTGAACATGGCAACTCC
 ATCAAAGACTTTAAGGGTTTGATTTCCAACATGACCCCAACTTCACTGTCTCACCACCTGGACAATGT
 TCCCAGTGACACTGAGGCCCTGGCACGCAGCCATCTGGGAACCTGGGAGCCGCTGATGAGGGTCACT
 CGATGGACACTCGACCTTACGTTCTTCAAATTTACACTCCCCACCTTTTACGTGGGCAACTTCTCCATC
 CCCTCGGGCATCCAGACCTGCCGAGGACACCTTCATCCAGTTTCCCGGATGGGCCAAGGGCCAAGTAT
 GGATCAATGGCTTTAACCTCGGGCGATACTGGCCACAAAGGGCCACAAATGACCTTGTTGTGCCAAG
 GAACATCCTGACCACTTACGCCCAAACAACATCACAGTCTAGAACTGGAGTCGTACCCCTGCAGTAAT
 GGGACCTAGAGCTATGTACAGTAGAGTTTGTGACACTCCGGTTATTGGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR202546 representing NM_001108192
 Red=Cloning site Green=Tags(s)

MFRVPLCMLLPLLALLQLLGAHSFYNVSQRTFELDYKRDRFLKDGQPFRYISGSIHYFRIPRFYWEDRL
 LKMKMAGLDAIQTYVPWNFHEPQPGQYDFSGDRDVEHF IQLAHQLGLLVILRPGPYICAEDWGMGLPAWL
 LEKESIVLRSSDPDYLAADV KWLAVLLPKMKRLLYQNGGP IITVQVENEYGSYFACDYNYLRFLEHRFRY
 HLGNDIILFTTDDGAAEKLLKCGTLQDL YATVDFGTTGNI TRAF LIQRNFEPKGPLINSEFYTGWLDHWGQ
 PHSKVNTKKLVASLYNLLAYGASVNL YMF IGGTNFAYWNGANMPYAPQPTS YDYDAPLSEAGDLTEKYFA
 VRDVIRKFKVEPEGPIPPSTPKFAYGKVALRKFKTVTEALGILCPNGPVKSLYPLTFTQVKQYFGYVLYR
 TTLPQDCSNPKPIFSSPINGVRDRAYVSV DGV PQGILDRNRMNVLNIRGKAGATLDILVENMGRVNYGNS
 IKDFKGLISNMTLNFTVL TNWTFPLDTEALARSHLGNWEEAEGHLDGHSTLRSSNFTLPTFYVGNFSI
 PSGIPDL PQDTFIQFPGWAKGQVWINGFNLGRYWPTKGPQMTLFVPRNILTTSAPNNITVLEESSPCSN
 GTLELCTVEFVDTPIVIG

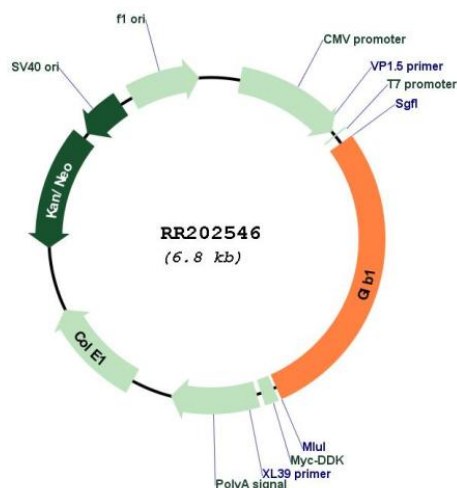
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001108192

ORF Size: 1941 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_001108192.1](#), [NP_001101662.1](#)
RefSeq Size: 2833 bp
RefSeq ORF: 1944 bp
Locus ID: 316033
Cytogenetics: 8q32
MW: 73.2 kDa
Gene Summary: mutation of the human homolog causes GM1 gangliosidosis and Morquio B disease [RGD, Feb 2006]