

Product datasheet for **SC119908**

GLB1 (NM_000404) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GLB1 (NM_000404) Human Untagged Clone
Tag:	Tag Free
Symbol:	GLB1
Synonyms:	EBP; ELNR1; MPS4B
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC119908 sequence for NM_000404 edited (data generated by NextGen Sequencing)

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ATGCCGGGGTTCCTGGTTCGCATCCTCCCTCTGCTGCTGGTTCTGCTGCTTCTGGGCCCT
ACGCGCGGCTTGCGCAATGCCACCCAGAGGATGTTTAAAATTGACTATAGCCGGGACTCC
TTCCTCAAGGATGGCCAGCCATTTGCTACATCTCAGGAAGCATTCACTACTCCCGTGTG
CCCCGCTTCTACTGGAAGGACCCGGCTGCTGAAGATGAAGATGGCTGGGCTGAACGCCATC
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GAGAAAGAGTCTATTCTTCTCCGCTCCTCCGACCCAGATTACCTGGCAGCTGTGGACAAG
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TTGTTTGTGCCCCAGCACATCCTGATGACCTCGGCCCAAACACCATCACCGTGTGGAA
CTGGAGTGGGCACCTGCAGCAGTGTGATCCAGAACTATGTGCTGTGACGTTCTGTGGAC
AGGCCAGTTATTGGCTCATCTGTGACCTACGATCATCCCTCCAAACCTGTTGAAAAAAGA
CTCATGCCCCACCCCGCAAAAAAACAAGATTATGGCTGGACCATGTATGA

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Clone variation with respect to NM_000404.2
 34 t=>c

5' Read Nucleotide Sequence: >OriGene 5' read for NM_000404 unedited
 ATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGCCTCGTGCCGAATTCGGCAC
 GAGGGTCAAGTGACGCGAAGCGGCCGGCCTGGGCGCCGACTGCAGAGCCGGGAGGCTGGT
 GGTGATGCCGGGGTTCTGGTTCGCATCCTCCCTCTGCTGCTGGTTCTGCTGTTCTGGG
 CCCTACGCGCGGCTTGCACAATGCCACCCAGAGGATGTTTGAATTGACTATAGCCGGGA
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 CTGCGCTTCTGCAGAAGCGCTTTCGNCACCATCTGGNGGATGGATGTGGGTCTGTTTAC
 CACTGATGGAGCACATAAAACATTCTGAATGTGGGGCCCTGCAGGGCCTTACACCACGT
 GGACTTTTGAACCAGCAGCAACATACAGATGCTTTCCTAGGCAGAGAAGTGGGAGCCCAA
 GCACCTGGAACATTCTGATCTATACTGCTGCTAGACATTGGGGCANCTTACTCCAATCAG
 ACCAAGAAGGTTCCCTC

3' Read Nucleotide Sequence: >OriGene 3' read for NM_000404 unedited
 GCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTGAGTACAAATTTTATTTAACAAAAAG
 GTAACATGATTCTTCCAAAATAAAAATCACTACCACCTTTAAAGCTTCCATTCCAGCCCT
 GCAGATATGTATGCACGTTACTGTGCTGTGAGCCCTCACACATTCCAGGTGGTCCCTGA
 AGGTGGGGCTTTGGCACTGCAGGGATGCAGGAAACCTCAGGTGAAAATGCACATCCTAA
 ATTCCTTTTCCATTTCCACATTTCCAATCAGTGAATGTGGCATGACAGGGAGGATCTGTG
 AGGTATGTTTCAGGGTAGAATCCCTCAAAGACACAGGCTTTCATCATCATATGTTCCAG
 CCATGAATCTTTGTTTTTTTGGCGGGGTGGGGCATGAGTCTTTTTTCAACAGGTTTGGG
 GGGATGATCGTAGGTACAGATGAGCCAATAACTGGCCTGTCCACGAACGTCACAGCACA
 TAGTTCTGGATCATCACTGCTGCAGGGTCCCACTCCAGTCCAGCACGGTGATGGTGTT
 TGGGGCCGACGTATCAGGATGTGCTGGGGCACAACAAGGTCAACTGAGGGCCCCGGGC
 TGGCCAATAGCGCCAAGGTTAAAGCCATTAATCCAGACCTGGCCCTTGGTCCATGCCAGG
 AAAGTGGATAAAGGTGTCTGGGGCAAGTCTGGGATCCCCTGGGAATGGAGAAGTTCCC
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 ACGGTGGCCACCCCCAGGTGCTGCCCTGATTCTACTGTCCCAGGAAGATTTCCCATC
 CTGAGATATTGGACTGAAATAACGTAAAACCAACCCTTAAATCTTGATATATGCCCTATT
 CACCCGTCATGTTCTACAAAAGCCAAAGGTTTCAGTTTCTTTTCCCGAGGAACACTGG
 TTGCTAAGCTCCCTGGATACCCCCG

Restriction Sites: NotI-NotI

ACCN: NM_000404

Insert Size: 2500 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:	<ol style="list-style-type: none">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_000404.1 , NP_000395.1
RefSeq Size:	2409 bp
RefSeq ORF:	2034 bp
Locus ID:	2720
UniProt ID:	P16278
Cytogenetics:	3p22.3
Domains:	Glyco_hydro_35
Protein Families:	Druggable Genome
Protein Pathways:	Galactose metabolism, Glycosaminoglycan degradation, Glycosphingolipid biosynthesis - ganglio series, Lysosome, Metabolic pathways, Other glycan degradation, Sphingolipid metabolism
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) encodes the predominant isoform (a).</p>