

Product datasheet for **SC328742**

GBA (NM_001171811) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GBA (NM_001171811) Human Untagged Clone
Tag:	Tag Free
Symbol:	GBA
Synonyms:	GBA1; GCB; GLUC
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001171811, the custom clone sequence may differ by one or more nucleotides

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ATGGAGCTGAGTATGGGGCCATCCAGGCTAATCACACGGGCACAGGCCCTGCTACTGACC
CTGCAGCCAGAACAAGTTCCAGAAAGTGAAGGGATTTGGAGGGCCATGACAGATGCT
GCTGCTCTCAACATCCTTGCCCTGTCACCCCTGCCAAAATTTGCTACTTAAATCGTAC
TTCTCTGAAGAAGGAATCGGATATAACATCATCCGGGTACCCATGGCCAGCTGTGACTTC
TCCATCCGCACCTACACCTATGCAGACACCCCTGATGATTTCCAGTTGCACAACCTCAGC
CTCCCAGAGGAAGATACCAAGCTCAAGATACCCCTGATTCACCGAGCCCTGCAGTTGGCC
CAGCGTCCCGTTTCACTCCTTGCCAGCCCTGGACATCACCCACTTGGCTCAAGACCAAT
GGAGCGGTGAATGGGAAGGGTCACTCAAGGGACAGCCCGGAGACATCTACCACCAGACC
TGGGCCAGATACTTTGTGAAGTTCCTGGATGCCTATGCTGAGCACAAAGTTACAGTTCTGG
GCAGTGACAGCTGAAAATGAGCCTTCTGCTGGGCTGTTGAGTGGATACCCCTTCCAGTGC
CTGGGCTTCAACCCTGAACATCAGCGAGACTTCATTGCCCGTGACCTAGGTCTACCCCTC
GCCAACAGTACTACCACAATGTCCGCCTACTCATGCTGGATGACCAACGCTTGCTGCTG
CCCCACTGGGCAAAGGTGGTACTGACAGACCCAGAAGCAGCTAAATATGTTTCATGGCATT
GCTGTACATTGGTACCTGGACTTTCTGGCTCCAGCCAAAGCCACCCTAGGGGAGACACAC
CGCCTGTCCCAACACCATGCTCTTTGCCTCAGAGGCCCTGTGTGGGCTCCAAGTTCTGG
GAGCAGAGTGTGCGGCTAGGCTCCTGGGATCGAGGGATGCAGTACAGCCACAGCATCATC
ACGAACCTCCTGTACCATGTGGTGGCTGGACCGACTGGAACCTTGCCCTGAACCCCGAA
GGAGGACCCAATTGGGTGCGTAACTTTGTGCGACAGTCCCATCATTGTAGACATCACCAAG
GACACGTTTTTACAACAGCCCATGTTCTACCACCTTGGCCACTTCAGCAAGTTTATTCTT
GAGGGCTCCCAGAGAGTGGGGCTGGTTGCCAGTCAGAAGAACGACCTGGACGCAGTGGCA
CTGATGCATCCCAGTGGCTCTGCTGTTGTGGTCTGCTAAACCGCTCCTCTAAGGATGTG
CCTCTTACCATCAAGGATCCTGCTGTGGGCTTCTGGAGACAATCTCACCTGGCTACTCC
ATTCACACCTACCTGTGGCGTCGCCAGTGA

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Restriction Sites: Please inquire



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ACCN:	NM_001171811
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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_001171811.1</u> , <u>NP_001165282.1</u>
RefSeq Size:	2400 bp
RefSeq ORF:	1350 bp
Locus ID:	2629
UniProt ID:	<u>P04062</u>
Cytogenetics:	1q22
Protein Families:	Druggable Genome
Protein Pathways:	Lysosome, Metabolic pathways, Other glycan degradation, Sphingolipid metabolism
Gene Summary:	<p>This gene encodes a lysosomal membrane protein that cleaves the beta-glucosidic linkage of glycosylceramide, an intermediate in glycolipid metabolism. Mutations in this gene cause Gaucher disease, a lysosomal storage disease characterized by an accumulation of glucocerebrosides. A related pseudogene is approximately 12 kb downstream of this gene on chromosome 1. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2010]</p> <p>Transcript Variant: This variant (4) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus than isoform 1.</p>