

## Product datasheet for **SC328803**

### GBA (NM\_001171812) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GBA (NM_001171812) Human Untagged Clone
Tag:	Tag Free
Symbol:	GBA
Synonyms:	GBA1; GCB; GLUC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC328803 representing NM\_001171812.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGAGTTTTCAAGTCCTTCCAGAGAGGAATGTCCAAGCCTTTGAGTAGGGTAAGCATCATGGCTGGC
AGCCTCACAGGATTGCTTCTACTTCAGGCAGTGTCTGGGCATCAGGTGCCCGCCCTGCATCCCTAAA
AGCTTCGGCTACAGCTCGGTGGTGTGTCTGCAATGCCACATACTGTGACTCCTTTGACCCCCGACC
TTTCTGCCCTTGGTACCTTCAGCCGCTATGAGAGTACACGCAGTGGGCGACGGATGGAGCTGAGTATG
GGGCCATCCAGGCTAATCACACGGGCACAGGAATCGGATATAACATCATCCGGTACCCATGGCCAGC
TGTGACTTCTCCATCCGCACCTACACCTATGCAGACACCCCTGATGATTTCCAGTTGCACAACTTCAGC
CTCCAGAGGAAGATACCAAGCTCAAGTACCCCTGATTCACCGAGCCCTGCAGTTGGCCAGCGTCCC
GTTTCACTCCTTGCCAGCCCTGGACATCACCCACTTGGCTCAAGACCAATGGAGCGGTGAATGGGAAG
GGGTCCTCAAGGACAGCCCGGAGACATCTACCACCAGACCTGGCCAGATACTTTGTGAAGTTCCTG
GATGCCTATGCTGAGCACAAGTTACAGTTCTGGGCAGTGACAGCTGAAAAAGAGCCTTCTGTGGGCTG
TTGAGTGGATACCCCTTCCAGTGCCTGGGCTTACCCCTGAACATCAGCGAGACTTCATTGCCCGTGAC
CTAGGTCCTACCCCTCGCCAACAGTACTCACCAATGTCCGCCTACTCATGCTGGATGACCAACGCTTG
CTGCTGCCCACTGGGCAAAGGTGGTACTGACAGACCCAGAAGCAGCTAAATATGTTTATGGCATTGCT
GTACATTTGGTACCTGGACTTTCTGGCTCCAGCCAAAGCCACCCTAGGGGAGACACACCGCCTGTTCCCC
AACACCATGCTCTTTGCCTCAGAGGCCTGTGTGGGCTCCAAGTTCTGGGAGCAGAGTGTGCGGCTAGGC
TCCTGGGATCGAGGGATGCAGTACAGCCACAGCATCATCACGAACCTCCTGTACCATGTGGTCCGGCTGG
ACCGACTGGAACCTTGCCTGAACCCGAAGGAGACCCAATTGGGTGCGTAACCTTGTGACAGTCCC
ATCATTGTAGACATCACCAAGGACAGTTTTACAACAGCCCATGTTCTACCACCTTGGCCACTTCAGC
AAGTTTCACTTCTGAGGGCTCCCAGAGAGTGGGGCTGGTTGCCAGTCAGAAGAACGACCTGGACGCAGTG
GCACTGATGCATCCCGATGGCTCTGCTGTTGTGGTCTGCTAAACCGCTCCTCTAAGGATGTGCCTCTT
ACCATCAAGGATCCTGCTGTGGGCTTCTGGAGACAATCTCACCTGGCTACTCCATTACACCTACCTG
TGGCGTCGCCAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001171812

**Insert Size:** 1464 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).

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001171812.1</a>
<b>RefSeq Size:</b>	2174 bp
<b>RefSeq ORF:</b>	1464 bp
<b>Locus ID:</b>	2629
<b>UniProt ID:</b>	<a href="#">P04062</a>
<b>Cytogenetics:</b>	1q22
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Lysosome, Metabolic pathways, Other glycan degradation, Sphingolipid metabolism
<b>MW:</b>	54.5 kDa
<b>Gene Summary:</b>	<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 (5) lacks an in-frame exon in the coding region, compared to variant 1. The encoded isoform (3) is shorter than isoform 1.</p>