

Product datasheet for **SC120080**

GBA (NM_000157) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GBA (NM_000157) 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)



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Fully Sequenced ORF: >OriGene ORF within SC120080 sequence for NM_000157 edited (data generated by NextGen Sequencing)

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ATGGAGTTTTCAAGTCCTTCCAGAGAGGAATGTCCAAGCCTTTGAGTAGGGTAAGCATC
ATGGCTGGCAGCCTCACAGGATTGCTTCTACTTCAGGCAGTGTCTGGGCATCAGGTGCC
CGCCCCGTCATCCCTAAAAGCTTCGGCTACAGCTCGGTGGTGTGTGTCTGCAATGCCACA
TACTGTGACTCCTTTGACCCCCGACCTTCTGCCCTTGGTACCTTCAGCCGCTATGAG
AGTACACGCAGTGGCCGACGGATGGAGCTGAGTATGGGGCCCATCCAGGCTAATCACACC
GGCACAGGCCTGCTACTGACCTGCAGCCAGAACAAGTTCAGAAAAGTGAAGGGATTT
GGAGGGGCCATGACAGATGCTGCTGCTCTCAACATCCTTGCCCTGTCACCCCTGCCCAA
AATTTGCTACTTAAATCGTACTTCTCTGAAGAAGGAATCGGATATAACATCATCCGGGTA
CCCATGGCCAGCTGTGACTTCTCCATCCGCACCTACACCTATGCAGACACCCCTGATGAT
TTCCAGTTGCACAACCTCAGCCTCCAGAGGAAGATACCAAGCTCAAGATACCCCTGATT
CACCGAGCCCTGCAGTTGGCCAGCGTCCCGTTTCACTCCTTGCCAGCCCTGGACATCA
CCCCTTGGCTCAAGACCAATGGAGCGGTGAATGGGAAGGGTCACTCAAGGGACAGCCC
GGAGACATCTACCACCAGACCTGGGCCAGATACTTTGTGAAGTTCCTGGATGCCTATGCT
GAGCACAAGTTACAGTTCTGGGCAGTGACAGCTGAAAATGAGCCTTCTGCTGGGCTGTTG
AGTGGATACCCCTTCCAGTGCCTGGGCTTACCCCTGAACATCAGCGAGACTTCATTGCC
CGTGACCTAGGTCTACCTCGCCAACAGTACTCACCACAATGTCCGCTACTCATGCTG
GATGACCAACGCTTGCTGCTGCCCACTGGGCAAAGGTGGTACTGACAGACCCAGAAGCA
GCTAAATATGTTTCATGGCATTGCTGTACATTGGTACCTGGACTTTCTGGCTCCAGCCAAA
GCCACCCTAGGGGAGACACCCGCTGTCCCCAACACCATGCTTTGCCTCAGAGGCC
TGTGTGGGCTCCAAGTTCTGGGAGCAGAGTGTGGGCTAGGCTCCTGGGATCGAGGGATG
CAGTACAGCCACAGCATCATCACGAACCTCCTGTACCATGTGGTGGCTGGACCGACTGG
AACCTTGGCCTGAACCCGAAGGAGGACCAATTGGGTGCGTAACCTTTGTCGACAGTCCC
ATCATTGTAGACATCACCAAGGACACGTTTTACAACAGCCCATGTTCTACCACCTTGGC
CACTTCAGCAAGTTCACTTCTGAGGGCTCCAGAGAGTGGGGCTGGTTGCCAGTCAGAAG
AACGACCTGGACGCAGTGGCACTGATGCATCCCGATGGCTCTGCTGTTGTGGTGTGCTA
AACCGCTCCTCAAGGATGTGCCTTACCATCAAGGATCCTGCTGTGGGCTTCTGGAG
ACAATCTACCTGGCTACTCCATTACACCTACCTGTGGCGTCGCCAGTGA
    
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Clone variation with respect to NM_000157.3

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_000157 unedited
AACATTTTGTAAATACGACTTACTATAGGGCGCTCNCGGAATTCGCACGAGGCTAGTGCC
TATAGCTAAGGCAGGTACCTGCATCCTTGTGTTTTGTTTAGTGGATCCTCTATCCTCAGA
GACTCTGGAACCCCTGTGGTCTTCTCTTCACTAATGACCCTGAGGGGATGGAGTTTTCA
AGTCCTTCCAGAGAGGAATGTCCCAAGCCTTTGAGTAGGGTAAGCATCATGGCTGGCAGC
CTCACAGGATTGCTTCTACTTTCAGGCAGTGTCTGGGCATCAGGTGCCCGCCCTGCATC
CCTAAAAGCTTTCGGCTACAGCTCGGTGGTGTGTGTCTGCAATGCCACATACTGTGACTCC
TTTGACCCCCGACCTTCTGCTTGGTACCTTCAGCCGCTATGAGAGTACACGCAGT
GGGCGACGGATGGAGCTGAGTATGGGGCCCATCCAGGCTAATCACACGGGCACAGGCCTG
CTACTGACCTGCAGCCAGAACAAGTTCAGAAAAGTGAAGGGATTTGGAGGGGCCATG
ACAGATGCTGCTCTCAACATCCTTGCCCTGTACCCCTGCCAAAATTTGCTACTT
AAATCGTACTTCTCTGAAGAAGGAATCGGATATAACATCATCCGGGTACCCATGGCCAGC
TGTGACTTCTCCATCCGCACCTACACCTATGCAGACACCCCTGATGATTTCCAGTTGCAC
AACTTCAGCCTCCAGAGGAAGATACCAAGCTCAAGATACCCCTGATTCACCGAGCCCTG
CANGTGGCCAGCGTCCCGTTCACTCCTTGCCAGCCCTGGACATCACCCACTTGGNCT
CAAGACCATGGAGCGGTGAATGGGAAGGGTCACTNACAGGGACAGNCCGNAGACATCTAC
ACCAGACCTGNGCCAGAACTTTGTGAAGTCTGGATGCTATGCTGAGCCAGTTACANGTC
TGGGCN
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_000157 unedited AACCTAGCTCAACTTTTCTTTAACTGCCTTTTCTGGCTGGTGCATAGGAATCA TCTGGGTGCTGGGCACACCCGCTGCTGCTTTAAGGCTCCGCCCTGATGCTGACTGC TGCTCCACGGGCCAGTTCTGCATCTCCAGGAAAGACAAACAGTCTCCAGTTTTGGGCC AGTTTTCTAGTCTTTCTTTTCTTACCCTCAGCCCTGATCTTGTGTTGTACGGACAG TGAGCTCACCCTAGCCCTGGACCCAGGCCAGTTTCCAAAGCAAGCAGCACACAGCGCAT GTTACATAAGCATGGGGCTGGGGGACACTGGGGCTTACTGATCTTTTCTAGGGGCC TCCAGCCCTGGCACCACCTAGAGGGGAAAGTGAGTCACCCAAACCATTGCCCTGGGCT TACGTCGCTGTAAGCTCACACTGCCCTGCTGTGCCCTTTAGTCACAGACAGCGTGTG AGTGACTCTGTCCCTTAAATGCCAGGCTGAGCCAGTGCCTCCTTGAGTATCTGCTCC ATCACTGGCGACGCCACAGGTAGGTGTAATGGAGTAGCCAGGTGAGATTGTCTCCAGGA AGCCACAGCAGGATCCTTGATGGTAAGAGGCACATTCTTAGAGGAGCGGTTTAGCACGA CCACAACAGCAGGCCATCGGGATGCATCAGTGCCACTGCGTCCAGGTCGTTCTTCTGAC TGGCAACCAGCCCACTCTCTGGGAGCCCTCAGGAATGAACTTGCTGAAGTGGCCAAGGT GGTAGAACATGGGCTGTTNTGTAACGTGTCCTTGGTGATGTCTACAATGATGGGACTGT CGACNAATTACGCCCCATTGGGTCCTCCTCGGGTTCAGGGCAGGTTTCNAGTCGNTCA GCCGACCCATGTACAGGAGTTCCGG
Restriction Sites:	NotI-NotI
ACCN:	NM_000157
Insert Size:	1611 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_000157.2 , NP_000148.2
RefSeq Size:	2324 bp
RefSeq ORF:	1611 bp
Locus ID:	2629
UniProt ID:	P04062
Cytogenetics:	1q22
Domains:	Glyco_hydro_30
Protein Families:	Druggable Genome

Protein Pathways: Lysosome, Metabolic pathways, Other glycan degradation, Sphingolipid metabolism

Gene Summary: 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]

Transcript Variant: This variant (1) encodes isoform 1. Variants 1, 2 and 3 encode the same isoform 1.