

Product datasheet for **SC323811**

GBA2 (NM_020944) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GBA2 (NM_020944) Human Untagged Clone
Tag:	Tag Free
Symbol:	GBA2
Synonyms:	AD035; NLGase; SPG46
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_020944.2
 CTTCCACGGGCTGGCACCTGGGCGCGGCGCTGCCCGGAGCCGGCCGGGACCTGG
 CGCCCAATCCTGGGGACCCGGTGCCGTGGCCAGGGCCGGGCCGAGGTCCCGGGGGC
 GTGCCTTGCGGGCCCGTCCCGGGGCGGTGCCTGTTGGGCTGGCCCGCGGCTCCTCCCT
 CTCTGCGGGCCAGTCGCCCTTTGGCCGGGCGAGCTAATCGTCGGCTCAATGACGACGAG
 GCCCGACCCTTCCGTCCAGGACCTACAGAGACAACCGAAGGAGAGCCAAAGGCGGCTTC
 TTTGCTGTCGCCGCCCCACTGAAGCAAGAGCTCCCGGCTCCACTGAAACACCAGCTCA
 TTTAAGCTTTCCCAACGCCCGCCCTCCGGGACGATACCTAACAAACGACCGGCGCCGC
 ATCTGGAATAGGCTGGCGAGATACTTAGTATCCGAGGGCTCGGGACTTGGCGCCATCGAG
 GTCATGGGACCCAGGATCCAGGAACATGGGAACCGGCGTCCCAGCCTCGGAGCAGATA
 AGCTGTGCCAAAGAGGATCCACAAGTTTATTGCCCTGAAGAGACTGGCGGCACCAAGGAT
 GTGCAGGTTACAGACTGT AAGAGTCCCGAAGACAGCCGACCCCAAAAGAGACGGACTGC
 TGCAATCCGGAGGACTCTGGGCAGCTGATGGTTTCTATGAGGGTAAAGCTATGGGCTAC
 CAGGTGCCTCCCTTTGGCTGGCGCATCTGTCTGGCTCATGAGTTTACAGAGAAGAGGAAA
 CCCTTTCAAGCTAACACGTCTCCCTAAGCAACATGATAAAGCATATAGGCATGGGCTTG
 AGGTACCTGCAGTGGTGGTACCGAAGACCCATGTGAAAAGAAGACACCTTTTCATCGAC
 ATGATCAATTCTGTACCCTAAGACAGATTTATGGTTGTCCTTGGGTGGCATCGGGGA
 GGCACATTAACCGTGGCTGGAGAGGCCAGTTCTGTGTTGGCAGCTTAACCTGGAATG
 TATCAGCACCGGACAGTCATCGCTGACCAATTCACAGTGTGCCTGCGTCGGGAAGGGCAG
 ACTGTGTACCAGCAAGTCTGTCCCTGGAGCGCCCAAGTGTCTCCGACGCTGGAAGTGG
 GGCTGTGTGGGTACTTTGCTTTCTACCATGCCCTCTATCCCGAGCCTGGACTGTCTAT
 CAGCTTCTGGCCAGAATGTCACCCTCACCTGCCGTGAGATCACACCCATCTTGCCCAT
 GACTACCAGGACAGCAGCCTGCCTGTAGGAGTCTTTGTGTGGGATGTGAAAATGAAGGG
 GACGAAGCTCTAGATGTGTCATCATGTTCTCCATGCGGAATGGACTGGTGGTGGAGAC
 GATGCCCCAGGGGTTTGTGGAATGAGCCCTTCTGTCTGGAGCGTAGCGGGAAACTGTC
 CGGGGGTGTCTCTGCATCATCAACCCTTCAAACCCCTACACGATGGCTGTGGCTGCA
 CGAGTCACGGCAGCTACCACGGTAACCCACATCACAGCCTTTGACCTGACAGCACGGGG



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CAGCAGGTGTGGCAGGATCTACTTCAGGATGGACAGCTGGACTCTCCCACTGGCCAAAGC
 ACCCCTACGCAGAAAGGAGTAGGCATTGCTGGAGCTGTGTGTGTTCCAGCAAGTTGCGA
 CCTCGAGGCCAGTGCCGCCTGGAGTTTTCACTGGCTTGGGACATGCCCAGGATCATGTTT
 GGAGCTAAAGGCCAAGTCCACTACAGGCCGTATACAAGTTCTTTGGCCAGGATGGAGAT
 GCAGCACCTGCCCTCAGCCACTATGCACCTGTGCCGATACGCAGAGTGGGAAGAGAGGATC
 TCAGCTTGGCAGAGCCCGTATTGGATGACAGATCACTGCCTGCCTGGTACAAATCTGCC
 CTGTTCAATGAACTATACTTCTGGTGATGGAGGCACAGTGTGGCTGGAAGTTCTTGAG
 GACTCCCTACCAGAGGAGCTGGGCAGAAACATGTGTACCTCCGCCCCACCCTACGGGAC
 TACGGTCGATTTGGCTACCTTGAGGGCCAGGAGTACCGCATGTACAACACATATGATGTC
 CACTTTTATGCTTCTTTGCCCTCATGCTCTGGCCAAACTTGAGCTCAGCCTACAG
 TATGACATGGCTCTGGCCACTCTCAGGGAGGACCTGACACGGCGACGGTACCTGATGAGT
 GGGGTGATGGCACCTGTGAAAAGGAGGAACGTCATCCCCATGATATTGGGGACCCAGAT
 GATGAACCATGGCTCCGCGTCAATGCATATTTAATCCATGATACTGCTGATTGGAAGGAC
 CTGAACCTGAAGTTTGTGCTGCAGGTTTATCGGGACTATTACCTCAGGGTGATCAAAC
 TTCTGAAGGACATGTGGCTGTGTGTCTAGCTGTGATGGAATCTGAAATGAAGTTTGAC
 AAGGACCATGATGGACTATTGAAAATGGAGGCTATGCAGACCAGACCTATGATGGATGG
 GTGACCACAGGCCCAAGTACTGTGGAGGGCTGTGGCTGGCAGCTGTGGCTGTGATG
 GTCCAGATGGCTGCTCTGTGTGGGCACAGGACATCCAGGATAAGTTTTCTTCTATCCTC
 AGCCGGGGCCAAGAAGCCTATGAGAGACTGCTGTGGAATGGCCGCTATTACAACATGAC
 AGCAGCTCTCGGCCTCAGTCTCGTAGTGTATGTCTGACCAGTGTGCTGGACAGTGGTTC
 CTGAAGGCCTGTGGCCTAGGAGAAGGAGACACTGAGGTGTTTCTACCCAACATGTGGTC
 CGTGCTCTCCAACTATCTTTGAGCTGAACGTCAGGCCTTTGCAGGAGGGGCCATGGGG
 GCTGTGAATGGGATGCAGCCCCATGGTGTCCCTGATAAATCCAGTGTGAGTCTGATGAA
 GTCTGGGTGGGTGTGGTCTACGGGCTGGCAGCTACCATGATCCAAGAGGGCCTGACTTGG
 GAGGGCTTCCAGACAGCTGAAGGCTGCTACCGTACCGTGTGGGAGCGCCTGGGTCTGGCC
 TTCCAGACCCCAGAGGCATACTGCCAGCAGCGAGTGTCCGCTCACTGGCCTACATGCGG
 CCACTGAGCATATGGGCCATGCAGCTAGCCCTGCAACAGCAGCAGCACAAAAAGGCCTCC
 TGGCCAAAAGTCAAACAGGGCACAGGACTAAGGACAGGGCCTATGTTTGGACCAAAGGAA
 GCCATGGCAAACCTGAGCCAGAGTGAAGGCTGAACTGTGGGAGGGAAGTGCTAACAG
 CCCAGCCTCCAGCCTGGCCTTCTCCTCCCTCTGAACCTCCTGCAACCTGAGCCAT
 CAGGACAATCATACCCCTCCCTTCTCTCCACCAATTGTGCCAGTAAATGGGGTTGAG
 GGTGACCTAGGCAGCATTAGAATCACTTATTTATTTCTTCTCCTCCTGTTCCCTGACTG
 CGTGAAATGTTTACGGGAGGTCAGTTGATTTCCCCAGGTACATTATGGTGTGACAGACAC
 ATGGGTACAAATAAAGACCCAGAAAGCCATTAATAAAAAAAAAAAAAA

- Restriction Sites:** ECoRI-NOT
- ACCN:** NM_020944
- 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:

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_020944.2](#), [NP_065995.1](#)

RefSeq Size: 3639 bp

RefSeq ORF: 2784 bp

Locus ID: 57704

UniProt ID: [Q9HCG7](#)

Cytogenetics: 9p13.3

Domains: DUF608

Protein Families: Druggable Genome

Gene Summary: This gene encodes a microsomal beta-glucosidase that catalyzes the hydrolysis of bile acid 3-O-glucosides as endogenous compounds. Studies to determine subcellular localization of this protein in the liver indicated that the enzyme was mainly enriched in the microsomal fraction where it appeared to be confined to the endoplasmic reticulum. This putative transmembrane protein is thought to play a role in carbohydrate transport and metabolism. [provided by RefSeq, Jul 2008]