

Product datasheet for **SC108133**

B3GALNT2 (NM_152490) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | B3GALNT2 (NM_152490) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | B3GALNT2 |
| Synonyms: | B3GalNAc-T2; MDDGA11 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL4</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF: >OriGene ORF within SC108133 sequence for NM_152490 edited (data generated by NextGen Sequencing)

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ATGCGAACTGGTGGTGTGCTGTGCCCGTGTGTGCTCGGGGCCGCGCTGCACCTCTGG
CTGCGGCTGCGCTCCCCGCCGCCCGCTGCGCCTCCGGGGCCGGCCCTGCAGATCAGTTG
GCCTTATTTCTCAGTGGAAATCTACTACTATGATGTGGTAGTTGGCGTGTGTGACAGT
CGCAATAACCATGAACTTCGAAACGTGATAAGAAGCACCTGGATGAGACATTTGTACAG
CATCCCACATTAAGTCAACGTGTGCTTGTGAAGTTCATAATAGGTGCTCATGGCTGTGAA
GTGCTGTGGAAGACAGGGAGGATCCTTATTCTGTAACTACTCAACATCACAATCCA
GTTTTGAATCAGGAAATTGAAGCGTTTCAGTCTGTCCGAAGACACTTCATCGGGGCTGCC
GAGGATCGAGTTGTCAGCGTGAGTTTCCGAGTTCTCTACCCCATCGTTATTACCAGTCTT
GGAGTGTCTACGATGCCAATGATGTGGGTTTCCAGAGGAACATCACTGTCAAATTTAT
CAGGCAGAACAAGAGGAGGCCCTTTCATTGCTCGCTTCAGTCTCCAAGCTGTGGTGTG
CAGGTGAACAAGCTGTGGTACAAGCCCGTGAACAATTCATCTTACCAGAGAGCTTTGAA
GGTACAATCGTGTGGGAGAGCCAAGACCTCCACGGCCTTGTGCAAGAAATCTCCACAAA
GTGACAGTGAATGATGGAGGGGAGTTCTCAGAGTCATTACAGCTGGGGAGGGTGCATTG
CCTCATGAATCTTGAAGGTGTGGAGGGAGTTGCAGGTGGTTTTATATACTATTTCAG
GAAGGTGATGCTCTTACACAACCTTCATTCTCGCCCTCAAAGACTTATTGATCATATA
AGGAATCTCCATGAGGAAGATGCCTTACTGAAGGAGGAAAGCAGCATCTATGATGATATT
GTTTTGTGGATGTTGTCGACACTTATCGTAATGTTTCTGCAAAAATTATTGAACTTCTAT
AGATGGACTGTGGAAACAACGAGCTTCAATTTGTTGCTGAAGACAGATGATGACTGTTAC
ATAGACCTCGAAGCTGTATTTAATAGGATTGTCCAAAAGAATCTGGATGGGCCTAATTTT
TGGTGGGAAAATTCAGACTGAATTTGGCAGTTGACCGAACCGGAAAGTGGCAGGAGTTG
GAGTACCCGAGCCCGCTTACCCTGCCTTTCATGTGGGTCAGGATATGTGATCTCCAAG
GACATCCGTCAAGTGGCTGGCAAGCAACTCGGGGAGGTTAAAGACCTATCAGGGTGAAGAT
GTAAGCATGGGCATCTGGATGGCTGCCATAGGACCTAAAAGATACCAGGACAGTCTGTGG
CTGTGTGAGAAGACCTGTGAGACAGGAATGCTGTCTTCTCCTCAGTATTCTCCGTGGGAA
CTGACGGAACGTGGAACTGAAGGAACGGTGCAGTATCCTTGTGATGTCAAGCAAGA
TAA
    
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Clone variation with respect to NM_152490.2
321 a=>g

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_152490 unedited

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GTCAAAATTTGTAATACGACTCACTATAGGGCGGGCCGCTCCCTCTCCGCCGGGACGG
GGAGAGCCCGGCTCGCGGGGGGGCGGCAATGCGAACTGGCTGGTGTGCTGTGCCCG
TGTGTGCTCGGGCCCGCTGCACCTCTGGCTGCGGCTGCGCTCCCCGCCGCCCGCTGC
GCCTCCGGGGCCCGCCCTGCAGATCAGTTGGCCTTATTTCTCAGTGGAAATCTACTAC
TATGATGTGGTAGTTGGCGTGTGTGAGCTCGCAATAACCATGAACTTCGAAACGTGATA
AGAAGCACCTGGATGAGACATTTGCTACAGCATCCACATTAAGTCAACGTGTGCTTGTG
AAGTTCATAATAGGTGCTCATGGCTGTGAAGTGCCTGTGGAAGACAGGGAGGATCCTTAT
TCCTGTAACTACTCAACATCACAATCCAGTTTTGAATCAGGAAATTGAAGCGTTCAGT
CTGTCCGAAGACACTTCATCGGGGCTGCCTGAGGATCGAGTTGTCAGCGTGAGTTCCGA
GTTCTCTACCCCATCGTTATTACCAGTCTTGGAGTGTCTACGATGCCAATGATGTGGGT
TTCCAGAGGAACATCACTGTCAAATTTATCAGGCAGAACAAGAGGAGGCCCTTTCATT
GCTCGCTTCAGTCTCCAAGCTGTGGTGTGAGGTGAACAAGCTGTGGTACAAGCCCGTG
GAACAATTCATCTTACCAGAGAGCTTTGAAGGTACAATCGTGTGGGAGAGCCAAGACCTN
CACGGCCTTGTGTCAAGAAATCTCCACAAGTGACAGTGAATGATGGGAGGGGGAGTTCTC
AGAGTCATTACAGCTGGNNGAGGGGTGCATTNGCTCATGAATCTNNGAANGTGTGNAN
GANTNCCAAGGTGGTTNTATAATACTATTTCAAGAAAGTGTGCTCTCTTAAACAACCTTC
ATTCTTGCCCTCAAGACTTTATGANCATATAAA
    
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| 3' Read Nucleotide Sequence: | >OriGene 3' read for NM_152490 unedited ATCTCTGAAGTCTTCCAATAGATAATTA AAAA ACTTTTCTTATGCTACAGTACACGTTGAT TTTTAAGGAAATTTGTGCAAACATTAAGAAACACCGCATTGGTTCTGGGTGAAAGTGCCA GTCTGGA ACTCTTTGAAAGACCATACAGTCTACTGCTAAACCTGGGACTCCTTAGATT GCTCTCAGATTATCGTTTGCCTGCCCTGATTTTAGACTCTGCTAATTCAAGTCCCTGTTA TCTTGCTTGACATCGACAAGGATCACCGCACCGTTCCTTCAGTTTCCACAGTTCGGTCAG TTCCCACGGAGAATACTGAGGAGAAGACAGCATTCTGTCTCACAGGTCTTCTCACACAG CCACAGACTGTCTGGTATCTTTTAGGTCTATGGCAGCCATCCAGATGCCCATGCTTAC ATCTTCACCTGATAGGTCTTTAACCTCCCGAGTTGCTTGCCAGCCACTTGACGATGTC CTTGGAGATCACATATCCTGACCCACATGCAAAGGCAGGGTAAGCGGGGCTCGGGTACTC CAACTCCTGCCACTTCCGGTTCGGTCAACTGCCCAATTCAGTCTGAAATTTCCCACCA AAAATTAGGCCCATCCAGATTCTTTGGACAATCTATTAATACAGCTTCGAGGTCTAT GTAACAGTCAATCTGTCTTCAGCAACAATTGAAGCTGTTGTTTCCACAGTCCATCT ATAAGAGTTCAATATTTGCAGGAACATAACCATTAGTGTGACACATCCCCAAAAACAA TATCATCATAGATGCTGCCTTTCTCCTTGTGTAAGGCATCTCCTCATGGAGATTCCTAAA TGATCAATAAGTCTTGAGGGCCAAGATGGAGGTTGTGTC |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_152490 |
| Insert Size: | 2000 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_152490.1 , NP_689703.1 |
| RefSeq Size: | 2022 bp |
| RefSeq ORF: | 1503 bp |
| Locus ID: | 148789 |
| UniProt ID: | Q8NCR0 |
| Cytogenetics: | 1q42.3 |
| Domains: | Galactosyl_T |

Gene Summary:

This gene encodes a member of the glycosyltransferase 31 family. The encoded protein synthesizes GalNAc:beta-1,3GlcNAc, a novel carbohydrate structure, on N- and O-glycans. Alternatively spliced transcript variants that encode different isoforms have been described. [provided by RefSeq, Mar 2013]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer protein (isoform 1).