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# Product datasheet for MC212171

## B3gnt5 (NM_001159407) Mouse Untagged Clone

## Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | B3gnt5 (NM_001159407) Mouse Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | B3gnt5 |
| **Synonyms:** | beta3GnT5 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

**Fully Sequenced ORF:**

```
>MC212171 representing NM_001159407
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGACTGTTTGTTAGCAGAAGAGTCAAAAGATGGAAAATTTTTCACTTTTTTGTCACTTGTTTTATAT
TAAGCTTCATGGTTTTTTGGAGCCCAATCAATAATTACATCATGAGCCATATGAAGTCCTACTCCTACAG
ATACCTCGTAAATAGCTATGGCTTTGTAAACAATTCCCTGTCTCTCAAGCACAGCTCTGTGCAGCCTCAC
TACCCATACTTGATCAACCACAGAGAGAAGTGTCAGGCTCAAGATGTCCTCCTCTTACTGTTTATAAAGA
CTGCCCCTGAAAACTATGGCCGACGTTCTGCAATCAGAAAAACGTGGGGCAATGAGAACTATGTTCAGTC
TCAACTCAATGCCAACATCAAAATTCTGTTTGCATTAGGAACTCCTGGTCCACTGAAGGGAAAAGAACTG
CAAAAAAGACTAATCGGGGAAGATCAAGTGTACAAGGATATAATTCAGCAAGATTTCATTGATTCTTTCC
ACAATCTTACTTCTAAATTCCTTCTTCAGTTCAGCTGGGCAAATACCTTTTGTCCACATGCCAAATTCCT
GATGACTGCTGATGATGATATATTTATCCACATGCCAAATCTCATTGAATATCTTCAAGGGCTAGAGCAG
ATTGGAGTTCGAGACTTTTGGATTGGTCACGTTCATCGAGGTGGCCCTCCTGTTAGGGATAAAAGCAGCA
AATACTATGTTCCCTATGAAATGTACAAGTGGCCAGCCTACCCTGACTATACAGCTGGTGCTGCCTATGT
TGTCTCCAGAGATGTAGCTGCCAAAATCTATGAGGCATCGCAGACACTGAATTCCAGTATGTACATAGAT
GATGTATTCATGGGCCTCTGTGCCAATAAAGTGGGAATCTTGCCACAGGACCATGTATTTTTCTCTGGGG
AAGGGAAAATTCCTTATCACCCCTGCATCTATGAAAAGATGATGACATCTCACGGACACTTACAAGATCT
GCAGGACCTCTGGATAGAGGCTACACATCCTAAAGTAAAGAACATTTCAAAAGGGTTTTTTGGTCAAATA
TACTGCAGGTTAATTAAGATAGTTCTTCTCTGCAGACTGACTTACAGGAATTCATACCCTTGTTGGGCTG
CATTTGCTTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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| | |
|---|---|
| **Restriction Sites:** | SgfI-MluI |
| **ACCN:** | NM_001159407 |
| **Insert Size:** | 1131 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:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_001159407.1, NP_001152879.1 |
| **RefSeq Size:** | 4872 bp |
| **RefSeq ORF:** | 1131 bp |
| **Locus ID:** | 108105 |
| **UniProt ID:** | Q8BGY6 |
| **Cytogenetics:** | 16 A3 |
| **Gene Summary:** | Beta-1,3-N-acetylglucosaminyltransferase that plays a key role in the synthesis of lacto- or neolacto-series carbohydrate chains on glycolipids, notably by participating in biosynthesis of HNK-1 and Lewis X carbohydrate structures. Has strong activity toward lactosylceramide (LacCer) and neolactotetraosylceramide (nLc(4)Cer; paragloboside), resulting in the synthesis of Lc(3)Cer and neolactopentaosylceramide (nLc(5)Cer), respectively. Plays a central role in regulating neolacto-series glycolipid synthesis during embryonic development. [UniProtKB/Swiss-Prot Function]<br>Transcript Variant: This variant (1) represents the longest transcript. All three variants encode the same protein. |

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