

Product datasheet for MC212170

B3gnt5 (NM_054052) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
 Product Name: B3gnt5 (NM_054052) Mouse Untagged Clone
 Tag: Tag Free
 Symbol: B3gnt5
 Synonyms: beta3GnT5
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 Fully Sequenced ORF: >MC212170 representing NM_054052
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGACTGTTTGTAGCAGAAGAGTCAAAGATGGAAAATTTTCACTTTTTTGTCACTTGTATAT
 TAAGCTTCATGGTTTTTGGAGCCCAATCAATAATTACATCATGAGCCATATGAAGTCTACTCCTACAG
 ATACCTCGTAAATAGCTATGGCTTTGTAACAATTCCCTGTCTCTCAAGCACAGCTCTGTGCAGCCTCAC
 TACCCATACTTGATCAACCACAGAGAGAAGTGTCAGGCTCAAGATGTCCTCCTTACTGTTATAAAGA
 CTGCCCTGAAAACATGAGCCGACGTTCTGCAATCAGAAAAACGTGGGGCAATGAGAACTATGTTCACT
 TCAACTCAATGCCAACATCAAAATCTGTTTGCATTAGGAACTCCTGGTCCACTGAAGGGAAAAGAACTG
 CAAAAAGACTAATCGGGGAAGATCAAGTGTACAAGGATATAATTCAGCAAGATTCATTGATTCTTTCC
 ACAATCTTACTTCTAAATTCCTTCTTCAAGTTCAGCTGGGCAAATACCTTTTGTCCACATGCCAAATCCT
 GATGACTGCTGATGATGATATTTATCCACATGCCAAATCTCATTGAATATCTCAAGGGCTAGAGCAG
 ATTGGAGTTCGAGACTTTTGGATTGGTCACGTTTCATCGAGGTGGCCCTCCTGTTAGGGATAAAAGCAGCA
 AATACTATGTTCCCTATGAAATGTACAAGTGGCCAGCCTACCCTGACTATACAGCTGGTGCCTATGT
 TGTCTCCAGAGATGTAGCTGCCAAAATCTATGAGGCATCGCAGACTGAATTCAGTATGTACATAGAT
 GATGTATTCATGGGCCTCTGTGCCAATAAAGTGGGAATCTTGCCACAGGACCATGTATTTTCTCTGGGG
 AAGGGAAAATTCCTTATCACCCCTGCATCTATGAAAAGATGATGACATCTCACGGACACTTACAAGATCT
 GCAGGACCTCTGGATAGAGGCTACACATCCTAAAGTAAAGAACATTTCAAAGGGTTTTTGGTCAAATA
 TACTGCAGGTTAATTAAGATAGTTCTTCTCTGCAGACTGACTTACAGGAATTCATACCCTTGTGGGCTG
 CATTGCT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI



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ACCN:	NM_054052
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:	<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:	<u>NM_054052.3</u> , <u>NP_473393.2</u>
RefSeq Size:	4548 bp
RefSeq ORF:	1131 bp
Locus ID:	108105
UniProt ID:	<u>Q8BGY6</u>
Cytogenetics:	16 A3
Gene Summary:	<p>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.</p> <p>[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. All three variants encode the same protein.</p>