

Product datasheet for RN216518

B3gnt5 (NM_053932) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
 Product Name: B3gnt5 (NM_053932) Rat Untagged Clone
 Tag: Tag Free
 Symbol: B3gnt5
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 Fully Sequenced ORF: >RN216518 representing NM_053932
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGGATCGCC

ATGAGAGTATTCGTGAGCAGCAGAAGAGTCAAAGATGGCAGTTTTTTCACCTATTTGCCATTTGTTTTA
 TATTAAGCTTTATGGTTTTTTGGGGCCCGTAAATAATTACATCATGAGCCACATGAAGTCTACTCCTA
 CAGATACCTTATAAATAGCTATGACTTTGTGAACGATTCCCTGTCTCTCAAGCACAGCTCTGTGCAGCT
 CACCACCATACTTGATCAACCACAGAGAGAAGTGTGAGGCCAAGATGTCCTCCTTACTCTTTATAA
 AGACTGCCCTGAAAACACGAGCGACGTTCTGCCATCAGAAAAGACGTGGGGCAACGAGAATTACGTCCA
 GTCTCAGCTCAACGCCAACATCAAAATTCTGTTGCGGTTAGGAACTCCTCATCCACTGAAGGGAAAAGAG
 CTGCAAAAAGACTGATTTGGGAAGATCAAGTGTACCACGACATAATTCAGCAAGATTTCACTGATTCTT
 TCCACAATCTTACTTTAAATTTCTTCTCAGTTCGGCTGGGCAACACCTTTTGCCACATGCCAGATT
 CCTGATGACTGCTGATGATGACATATTTATCCACATGCCAAATCTCATTGAATACCTTCAAGGGCTGGAG
 CAGGTTGGAGTTCGAGACTTTTGGATTGGTACGTTACCGAGGGGGCCCTCCTGTTAGAGACAAAAGTA
 GCAAGTACTATGTTCCCTATGAAATGTACAAGTGGCCAGCCTACCCTGACTATACCGCCGGTGTGCCTA
 TGTCGTCTCCAACGATGTAGCTGCCAAAATCTATGAGGCATCACAGACGCTGAATTCAGCATGTACATA
 GACGATGTGTTCTGCGCCTCTGCGCCAATAAAGTGGGGTCTGCCACAGGACCATGATTTTTCTCTG
 GGGAAAGGAAGATTCCCTTACCATCCCTGCATCTATGAAAAGATGATAACGTCTCATGGCACTCACAAAG
 CCTACAGGACCTCTGGTGGAGGCCACAGATCCTAAAGTGAAGGACATTCGAAAGGGTTTTTGGTTCAG
 ATCTACTGCAGGTTAATTAAGATAGTCTTCTCTGCACTGACTTACAGGAACTCATACCTTGTAGGG
 CTGCATTTGCTTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
 ACCN: NM_053932



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Insert Size:	1134 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_053932.1</u> , <u>NP_446384.1</u>
RefSeq Size:	4209 bp
RefSeq ORF:	1134 bp
Locus ID:	116740
UniProt ID:	<u>Q99NB2</u>
Cytogenetics:	11q23
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 (By similarity). [UniProtKB/Swiss-Prot Function]