

Product datasheet for MR223657

B3gnt2 (NM_016888) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B3gnt2 (NM_016888) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	B3gnt2
Synonyms:	AA408337; AA409404; AW260308; B3Galt6; B3gnt1; Beta3gnt; BGnT-1; BGnT-2; BGnT1; BGnT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR223657 representing NM_016888 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTGTGGGGCGTCAAGAGTCAAGTTGCTGGGCATCCTGATGATGGCAAATGTCTTCATTTATTTGA
TTGTGGAAGTCTCAAAAACAGTAGCCAAGACAAAATGGAAAGGGAGGAGTAATAATCCCGAAAGAGAA
GTTCTGGAAGCCACCCAGCACTCCCGGGCATACTGGAACAGGGAACAGGAGAAGCTGAACAGGTGGTAC
AATCCCATCTTGAACAGGGTGGCCAATCAGACAGGGGAGCTAGCCACATCTCAAACACAAGTCACCTGA
GCTATTGTGAACCAGACTCGACGGTCATGACAGCTGTGACAGATTTTAATAATCTGCCGGACAGATTTAA
AGACTTTCTCTTGATTTGAGATGCCGGAATTAAGTCTGCTTATAGATCAACCGAAGAAATGTGCAAAG
AAGCCCTTCTTACTATTGGCGATAAAGTCCCTCATTCCACATTTTCCAGAAAGGCAAGCAATTCGGGAGT
CTTGGGGCCGAGAAACCAACGTAGGGAACCCAGACAGTAGTGAGGGTCTTCTCTGTTGGGCAAGACACCCCC
AGAGGACAACCACCTGACCTTTCGGACATGCTTAAGTTTGAAGTGAAGCAAGCACCAGGACATCCTCATG
TGGAATATAGAGACACATCTTCAACCTGTCCCTGAAGGAAGTGTCTGTTTCTTAGTGGGTGAGCACTT
CCTGTCCAGACGCAGAGTTTGTCTTCAAGGGCGATGATGACGTGTTTGTGAACACCCATCACATCCTTAA
TTACTTGAATAGCTTATCCAAGAGCAAAGCCAAAGACTTGTTTCATAGGTGACGTGATCCACAATGCTGGG
CCTCACCGGATAAAGAACTGAAGTACTACATCCAGAAGTCTTACACCGGCGTCAACCACCGTATG
CCGGGGTGGTGGATTCTGTACTCCGGCCCCCTTGCTTGAAGGCTGTACAGTGCAGTACCGGGTCCA
TCTCTACCTATTGATGATGTTTATACGGGAATGTGCCTTCAGAACTGGGCCTTGTCCAGAGAAGCAC
AAAGGCTTCAGGACATTTGATATTGAAGAGAAAAATAAGAAAAATATTTGTTCTATATAGACCTAATGT
TAGTACATAGCAGAAAACCTCAAGAGATGATTGATATCTGGTCTCAGTTGCAAAGTCTAATTTAAATG
C

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR223657 representing NM_016888
Red=Cloning site Green=Tags(s)

MSVGRRRVKLLGILMMANVFIYLLIVEVSKNSSQDKNGKGGVIIPKEKFWKPPSTPRAYWNREQEKLNRWY
 NPILNRVANQTGELATSPNTSHLSYCEPDSTVMTAVTDFNNLPDRFKDFLLYLRCRNYSLIDQPKKCAK
 KPFLLLAIKSLIPHFARRQAIRESWGRETNVGNQTVVRVFLGKTPPEDNHPDLSMDLKFESDKHQDILM
 WNYRDTFFNLSLKEVFLRWVSTSCPDAEFVFKGDDDDVFVNTHHILNLYNSLSKSKAKDLFIGDVIHNAG
 PHRDKKLYIPEVFTYGVYPPYAGGGFLYSGPLALRLYSATSRVHLYPIDDDVYTMCLQKLGLVPEKH
 KGFRTFDIEEKNKKNICSYIDLMLVHSRKPQEMIDIWSQLQSPNLKC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9030_c08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_016888

ORF Size: 1191 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_016888.5](#), [NP_058584.3](#)

RefSeq Size: 2699 bp

RefSeq ORF: 1194 bp

Locus ID: 53625

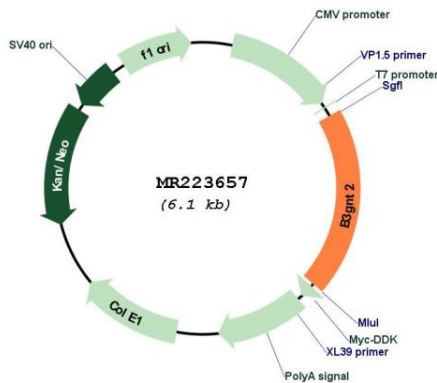
UniProt ID: [Q9Z222](#)

Cytogenetics: 11 14.22 cM

MW: 46.3 kDa

Gene Summary: Beta-1,3-N-acetylglucosaminyltransferase involved in the synthesis of poly-N-acetyllactosamine. Catalyzes the initiation and elongation of poly-N-acetyllactosamine chains (PubMed:9892646). Probably constitutes the main polylactosamine synthase (PubMed:17890318).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR223657