

Product datasheet for MR205739

B3gnt3 (NM_028189) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B3gnt3 (NM_028189) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	B3gnt3
Synonyms:	2210008L19Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205739 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCGGCTGCCAAGGCAGAGCCCTACGAGATCCTCCTGGTCTTGGTCGCCTTGTGGTGCTGCTGC
TGCTCCTGACCAGCAAGTACCGCCAGCTGCTCCGCCCTGAGAGGTCCAAGGAGCCTGAAGACAACCC
CGGGTGGCCACGGCCACCCACGCACACACCCCGCCGGTGCCGAGCTAATCTATCCGTGCTCCTCGCAC
CCCGACTTCGCGGGGCTGCCCTGCACGTGCGGACTTCTTGTCTACCGCCACTGCCGCGACTTCCAG
TGCTCCGAGAGCCGGGTTACCAAGTGC GCGGAGCCCGTGTTCCTGCTGCTCGCCATCAAGTCTCGCC
TGCAAATATGGGCGCCGCCAGATGCTGCGCACGACGTGGGCGCGGAGAGACGGGTGCGTGGGGGCCCA
CTGCGCCGCTTCTTCTTGTGGGCTCAGACCGGACCCACAACAAGCACGAAATACAACCGACTGCTGG
AGCTGGAAGCGCAGAAATACGGGACATTTCTCCAGTGGGATTTCCATGACTCCTTCTTTAACCTGACGCT
TAAGCAGGTCCTTTCTGGAGTGGCAGCTAACCTACTGTACCAACGCCAGCTTCGTGCTCAATGGGGAC
GACGATGTGTTTCGACACACGGACAACATGGTCACCTACCTGCAGGACCAGACCCGGACCAACACCTCT
TCGTGGGGCACCTGATCCAGAACGTGGGTCCCATCCGGGTGCCCTGGAGCAAGTACTTATCCCCACTCT
GGTGATGGCGGAGGACAGATACCCGCCCTACTGTGGTGGCGCGGCTTCTGCTGTCGCGTTTTACCGTG
GCCGCCCTACGTGCGCCGCGCGCTCCTCCCCATGTTCCAATCGACGACGTGTTCTGGGCATGTGTC
TGCAGCAGCAGGGGCTGGCTCCCGGACGCACAGCGGAGTGC GCACTGCGGGGTTTTCCCCCTAGCCC
ACGTGTGTCATCCTTCGACCCCTGCTTCTACCGGACCTGCTCCTCGTGACCGCTTCTGCCCTTCGAG
ATGCTGCTGATGTGGATGCGCTGAACCGCCAGCTCCTCTGCGGCAGGCAGAGCCCCGCTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR205739 protein sequence
Red=Cloning site Green=Tags(s)

MRLPRQSPYEIILLVLLVALLVLLLLLTSKSPSPSCSAPERSKEPEDNPGWATGHPRTHPARCRANLSVSSH
 PDFAGLPLHVRDFLFYRHCDFPVLREPRVTKCAEPVFLLLAIKSSPANYGRRQMLRTTWARERRVRGAP
 LRRFLVGSDDRPQQARKYNRLLELEAQKYGDILQWDFHDSFFNLTLKQVLFLEWQLTYCTNASFVLNGD
 DDVFAHTDNMVTYLQDHDPDQHLFVGHLIQNVGPIRVPWSKYFIPTLVMAEDRYPPYCGGGGFLLSRFTV
 AALRRAARVLPMPFIDDVFLGMCLQQQLAPGTHSGVRTAGVFPSPRVSSFDPCFYRDLVLRFLPFE
 MLLMWDALNQPQLLCGRQSPAY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_028189

ORF Size: 1119 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_028189.2](#), [NP_082465.2](#)

RefSeq Size: 2103 bp

RefSeq ORF: 1119 bp

Locus ID: 72297

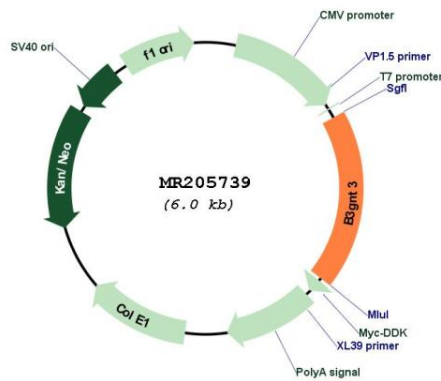
UniProt ID: [Q5JCS9](#)

Cytogenetics: 8 B3.3

MW: 42.6 kDa

Gene Summary: Beta-1,3-N-acetylglucosaminyltransferase involved in the synthesis of poly-N-acetylactosamine. Has activity for type 2 oligosaccharides. Also acts as a core1-1,3-N-acetylglucosaminyltransferase (Core1-beta3GlcNAcT) to form the 6-sulfo sialyl Lewis x on extended core1 O-glycans.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205739