

Product datasheet for MR223069

B3gnt4 (NM_198611) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B3gnt4 (NM_198611) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	B3gnt4
Synonyms:	1010001G17Rik; BGnT-4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR223069 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGTCCAGGTTGGGCTGTGTGCTGTTCTGCAGTCTTGTGGTACTACTGCTCAGCTGCCTGCTCCTTC
TGAAGGAGCGCATACCAGCAGGCAGCTCCAAGGCCACCAGCAGTTCTTGGCACTGCCAAGGTCCCACCA
TAGCCAGTGCTCACCCAACCTAACAGTTGTTAACACCTCCCTGTCCTGCCAGCCGTATCGCCTCTTC
TTAACCTATCGACTGCCGAACTTCTCCATCTTGTGGAGCCTTCGGAGTGCCAGGGACACCTTCC
TGCTCCTGGTCATCAAGTCACAGCCTGCTCATATTGAACAGCGTTCAGCCATTGAAGCACTTGGGGCCG
GGCTGGGAGCTGGGCTAGGGGTCGGCAGCTGAAGCTGGTGTTCCTCCTGGGGTGGCAGGACCTGTGCC
CCGGCCAGCTGTTGGTCTATGAGAGCTGGCAGTTTATGACATCTTACAGTGGGACTTTGCTGAGGACT
TCTTTAACCTGACTCTCAAGGAGCTGCAGTGCAGCGCTGGATCGCAGCTGCCTGCACACAGGCCCACTT
CATACTAAAGGGAGACGATGACGTCTTTATCCATGTTCCCAATGTGCTCGAGTCTTGGAGGGCTGGGAT
CCGGCCAGGACTTCTAGTGGGAGATGTCATCCGCTTGGCCCGGCCAACAGGAACACCAAAGTTAAAT
ATTTATCCCCTTTCCATGTACAGGGCCCGCCACTACCCACTTATGCAGGAGGCGGGCTACGTCAT
GTCCCAGGCTACTGTGAGGCATCTCACACGGCCATGGAGGAGGCAGAGCTTTTCTATTGACGATGTC
TTGTGGGATGTGCTGAGGAAGCTGGGGTGACTCCCATACCCATGCTGGCTCAAGACATTTGGAA
TCCAACAGCCCCTCAATCCAGGGACCCTTGTCTGTACAAGGGCTCCTGCTGGTGACCCGCTCAGCCC
CCTGGAGATGTGGACCATGTGGCGCTGGTGACAGATGAGAGGCTTAAGTGTGCAGCTACCCACAAGCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR223069 protein sequence
Red=Cloning site Green=Tags(s)

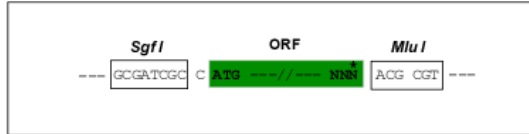
MLSRLGCVLFCSLVVLLLSCLLLLKERIPAGSSKAHQFLALPRSHHSQCSPNLTVVNTSLSLPSRHRLF
 LTYRHCNFSILLEPSECARDTFLLLVIKSQPAHIEQRSAIRSTWGRAGSWARGRQLKLVFLLGVAGPVP
 PAQLLVYESWQFDDILQWDAEDFFNLTLKELHVQRWIAAACTQAHFILKGDDDVFHVPNVLEFLEGWD
 PAQDFLVGDVIRLARNRNTKVKYFIPFSMYRARHYPPYAGGGYVMSQATVVRHLHTAMEEAELFPIDDV
 FVGMCLRKLGVTPIIHAGFKTFGIQQPLNRPDCLYKGLLLVHRLSPLEMMWTMWALVTDERLKAATHKP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_198611

ORF Size: 1053 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_198611.1](#), [NM_198611.2](#), [NP_941013.2](#)

RefSeq Size: 1423 bp

RefSeq ORF: 1053 bp

Locus ID: 231727

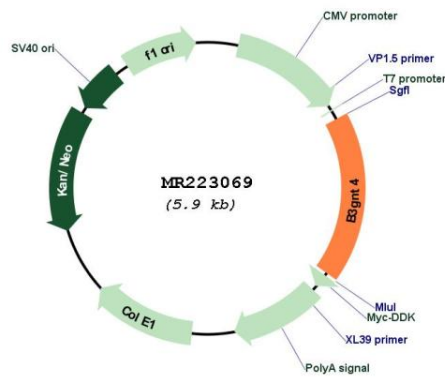
UniProt ID: [Q1RLK6](#)

Cytogenetics: 5 F

MW: 39.8 kDa

Gene Summary: Beta-1,3-N-acetylglucosaminyltransferase involved in the synthesis of poly-N-acetyllactosamine. Has activity for type 2 oligosaccharides.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR223069