

Product datasheet for **MG223069**

B3gnt4 (NM_198611) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B3gnt4 (NM_198611) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	B3gnt4
Synonyms:	1010001G17Rik; BGnT-4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG223069 representing NM_198611 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGTCCAGGTTGGGCTGTGTGCTGTTCTGCAGTCTTGTGGTACTACTGCTCAGCTGCCTGCTCCTTC
TGAAGGAGCGCATACCAGCAGGCAGCTCCAAGGCCACCAGCAGTTCTTGGCACTGCCAAGGTCCCACCA
TAGCCAGTGCTCACCCAACTAACAGTTGTTAACACCTCCCTGTCCTGCCAGCCGTATCGCCTCTTC
TTAACCTATCGACTGCCGAACTTCTCCATCTTGTGGAGCCTTCGGAGTGCCAGGGACACCTTCC
TGCTCCTGGTCATCAAGTCACAGCCTGCTCATATTGAACAGCGTTCAGCCATTGAAGCACTTGGGGCCG
GGCTGGGAGCTGGGCTAGGGGTCGGCAGCTGAAGCTGGTGTTCCTCCTGGGGTGGCAGGACCTGTGCC
CCGGCCAGCTGTTGGTCTATGAGAGCTGGCAGTTTATGACATCTTACAGTGGGACTTTGCTGAGGACT
TCTTTAACCTGACTCTCAAGGAGCTGCAGTGCAGCGCTGGATCGCAGCTGCCTGCACACAGGCCCACTT
CATACTAAAGGGAGACGATGACGTCTTTATCCATGTTCCCAATGTGCTCGAGTCTTGGAGGGCTGGGAT
CCGGCCAGGACTTCTAGTGGGAGATGTCATCCGCTTGGCCCGCCCAACAGGAACACCAAAGTTAAAT
ATTTATCCCCTTTCCATGTACAGGGCCCGCCACTACCCACTTATGCAGGAGGCGGGCTACGTCAT
GTCCCAGGCTACTGTGAGGCATCTTACACGGCCATGGAGGAGGCAGAGCTCTTCTTATTGACGATGTC
TTTGTGGGATGTGCTGAGGAAGCTGGGGTGACTCCCATACCCATGCTGGCTCAAGACATTTGGAA
TCCAACAGCCCCTCAATCCAGGGACCCTTGTCTGTACAAGGGCTCCTGCTGGTGACCCGTCTCAGCCC
CCTGGAGATGTGACCATGTGGGCGCTGGTGACAGATGAGAGGCTTAAGTGTGCAGCTACCCACAAGCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG223069 representing NM_198611
 Red=Cloning site Green=Tags(s)

MLSRLGCVLFCSLVLLLLSCLLLLKERIPAGSSKAHQFLALPRSHHSQCSPNLTVVNTSLSLPSRHRLF
 LTYRHCNRFSSILLEPSECARDTFLLLVIKSQPAHIEQRSARSTWGRAGSWARGRQLKLVFLGAGPVP
 PAQLLVYESWQFDDILQWDAEDFFNLTLKELHVQRWIAAACTQAHFILKGDVVFIHVPNVLEFLEGWD
 PAQDFLVGDVIRLARPNRNTKVKYFIPFSMYRARHYPPYAGGGYVMSQATVVRHLHTAMEEAELFPIDDV
 FVGMCLRKLGVTPIIHAGFKTFGIQQPLNRPDCLYKGLLLVHRLSPLEMWMTMWALVTDRLKCAATHKP

TRTRPLE - GFP Tag - V

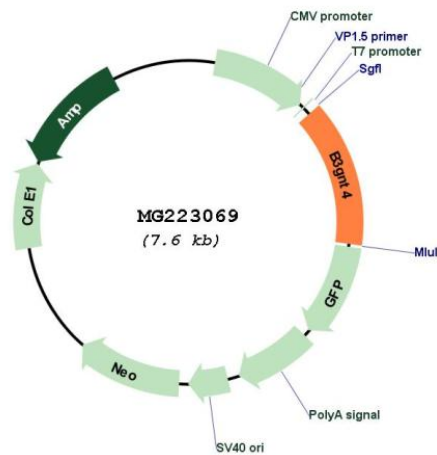
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_198611

ORF Size: 1050 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:	<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:	NM_198611.2 , NP_941013.2
RefSeq Size:	1423 bp
RefSeq ORF:	1053 bp
Locus ID:	231727
UniProt ID:	Q1RLK6
Cytogenetics:	5 F
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]