

Product datasheet for **MG206220**

B3gnt2 (BC009075) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B3gnt2 (BC009075) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	B3gnt2
Synonyms:	Beta3gnt, beta-3Gnt, B3Galt6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206220 representing BC009075 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTGTGGGGCGTGAAGAGTCAAGTTGCTGGGCATCCTGATGATGGCAAATGTCTTCATTTATTTGA
TTGTGGAAGTCTCAAAAACAGTAGCCAAGACAAAATGGAAAGGGAGGAGTAATAATCCCGAAAGAGAA
GTTCTGGAAGCCACCCAGCACTCCCGGGCATACTGGAACAGGGAACAGGAGAAGCTGAACAGGTGGTAC
AATCCCATCTTGAACAGGGTGGCCAATCAGACAGGGGAGCTAGCCACATCTCAAACACAAGTCACCTGA
GCTATTGTGAACCAGACTCGACGGTCATGACAGCTGTGACAGATTTTAATAATCTGCCGGACAGATTTAA
AGACTTTCTCTTGATTTGAGATGCCGGAATTAAGTCCCTCATTCCACATTTTCCAGAAAGGCAAGCAATTCGGGAGT
AAGCCCTTCTTACTATTGGCGATAAAGTCCCTCATTCCACATTTTCCAGAAAGGCAAGCAATTCGGGAGT
CTTGGGGCCGAGAAACCAACGTAGGGAACCCAGACAGTAGTGAGGGTCTTCTCTGTTGGGCAAGACACCCCC
AGAGGACAACCACCTGACCTTTCGGACATGCTTAAGTTTGAAGTGAACAAGCACCAGGACATCCTCATG
TGGAATATAGAGACACATTTCAACCTGTCCCTGAAGGAAGTGTCTTCTTAGTGGGTGAGCACTT
CCTGTCCAGACGCAGAGTTTGTCTTCAAGGGCGATGATGACGTGTTTGTGAACACCCATCACATCCTTAA
TTACTTGAATAGCTTATCCAAGAGCAAAGCCAAAGACTTGTTTCATAGGTGACGTGATCCACAATGCTGGG
CCTCACCGGATAAGAACTGAAGTACTACATCCAGAAGTCTTACACCGGCGTCTACCCACCGTATG
CCGGGGTGGTGGATTCTGTACTCCGGCCCCCTTGCTTGAAGCTGTACAGTGCGACTAGCCGGGTCCA
TCTCTACCTATTGATGATGTTTATACGGGAATGTGCCTTCAGAACTGGGCCTTGTCCAGAGAAGCAC
AAAGGCTTCAGGACATTTGATATTGAAGAGAAAAATAAGAAAAATATTTGTTCTATATAGACCTAATGT
TAGTACATAGCAGAAAACCTCAAGAGATGATTGATATCTGGTCTCAGTTGCAAAGTCCTAATTTAAATG
C

ACGGTACGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206220 representing BC009075
 Red=Cloning site Green=Tags(s)

```
MSVGRRRVKLLGILMMANVFIYLIVEVSKNSSQDKNGKGGVIIPKEKFWKPPSTPRAYWNREQELNRWY
NPILNRVANQTGELATSPNTSHLSYCEPDSTVMTAVTDFNNLPDRFKDFLLYLRCRNYSLIDQPKKCAK
KPFLLLAIKSLIPHFARRQAIRESWGRETNVGNQTVVRVFLGKTPPEDNHPDLSDMLKFESDKHQDILM
WNYRDTFFNLSLKEVFLRWVSTSCPDAEFVFKGDDDFVNTHHILNLYNSLSKSKAKDLFIGDVIHNAG
PHRDKCLKYYIPEVFYTGYYPPYAGGGFLYSGPLALRLYSATSRVHLYPIDDVYTMCLQKLGLVPEKH
KGFRTFDIEEKNKKNICSYIDLMLVHSRKPQEMIDIWSQLQSPNLKC
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC009075

ORF Size: 1193 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: [BC009075](#), [AAH09075](#)

RefSeq Size: 2468 bp

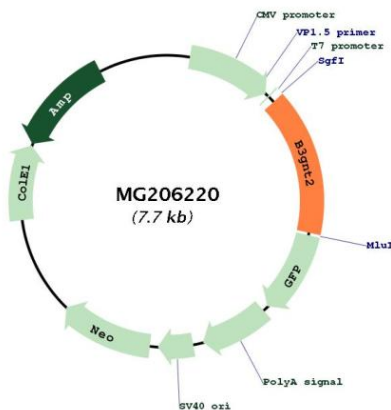
RefSeq ORF: 1193 bp

Locus ID: 53625

Cytogenetics: 11 14.22 cM

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 MG206220