

## Product datasheet for **MG205739**

### **B3gnt3 (NM\_028189) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** B3gnt3 (NM\_028189) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** B3gnt3  
**Synonyms:** 2210008L19Rik  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG205739 representing NM\_028189  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCGGCTGCCAAGGCAGAGCCCTACGAGATCCTCCTGGTCTTGGTCGCCTTGTGGTGCTGCTGC  
 TGCTCCTGACCAGCAAGTACCGCCAGCTGCTCCGCCCTGAGAGGTCCAAGGAGCCTGAAGACAACCC  
 CGGGTGGCCACGGGCCACCCACGCACACCCCGCCGGTGCCGAGCTAATCTATCCGTGCTCTGCAC  
 CCCGACTTCGCGGGGCTGCCCTGCACGTGCGGACTTCTTGTCTACCGCCACTGCCGCGACTCCAG  
 TGCTCCGAGAGCCGGGTTACCAAGTGCAGCGGAGCCCGTGTTCCTGCTGCTCGCCATCAAGTCTCGCC  
 TGCAAATATGGGCGCCGCCAGATGCTGCGCACGACGTGGGCGCGGAGAGACGGGTGCGTGGGGGCCA  
 CTGCGCCGCTCTTCTTGTGGGCTCAGACCGCACCCACAACAAGCACGAAATACAACCGACTGCTGG  
 AGCTGGAAGCGCAGAAATACGGGACATTTCTCCAGTGGGATTTCCATGACTCCTTCTTTAACCTGACGCT  
 TAAGCAGGTCCTTTCTGGAGTGGCAGCTAACCTACTGTACCAACGCCAGCTTCGTGCTCAATGGGGAC  
 GACGATGTGTTTCGACACACGGACAACATGGTCACCTACCTGCAGGACCAGACCCGGACCAACACCTCT  
 TCGTGGGGCACCTGATCCAGAACGTGGGTCCCATCCGGGTGCCCTGGAGCAAGTACTTATCCCCACTCT  
 GGTGATGGCGGAGGACAGATACCCGCCCTACTGTGGTGGCGCGGCTTCTGCTGTCGCGTTTTACCGTG  
 GCCGCCCTACGTGCGCCGCGCGCTCCTCCCCATGTTCCAATCGACGACGTGTTCTGGGCATGTGC  
 TGCAGCAGCAGGGGCTGGCTCCCGGACGCACAGCGGAGTGCACACTGCGGGGTTTTCCCCCTAGCCC  
 ACGTGTGTCATCCTTCGACCCCTGCTTCTACCGGACCTGCTCCTCGTGACCGCTTCTGCCCTTCGAG  
 ATGCTGCTGATGTGGATGCGCTGAACCGCCAGCTCCTCTGCGGCAGGCAGACCCCGCCTAC

**ACCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >MG205739 representing NM\_028189  
 Red=Cloning site Green=Tags(s)

MRLPRQSPYEILLVLLVALLVLLLLLTSKSPSPSCSAPERSKEPEDNPGWATGHPRTHPARCRANLSVSSH  
 PDFAGLPLHVRDFLFYRHCDFPVLREPRVTKCAEPVFLLLAIKSSPANYGRRQMLRTTWARERRVRGAP  
 LRRFLVGSDDRPQQARKYNRLLELEAQKYGDILQWDFHDSFFNLTLKQVLFLEWQLTYCTNASFVNLGD  
 DDVFAHTDNMVTYLQDHDPDQHLFVGHLIQNVGPIRVPWSKYFIPTLVMAEDRYPPYCGGGFLLSRFTV  
 AALRRAARVLPMPFIDDFVFLGMCLQQQLAPGTHSGVRTAGVFPSPRVSSFDPFCFYRDLVHFRFLPFE  
 MLLMWDALNQPQLLCGRQSPAY

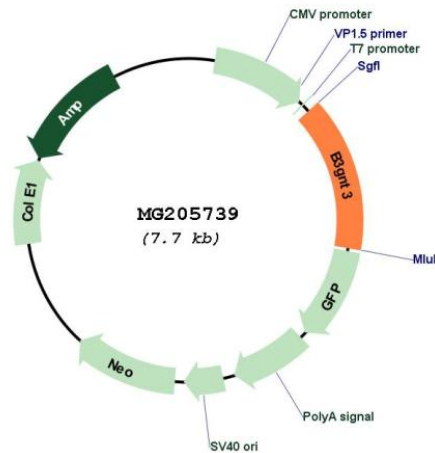
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_028189

<b>ORF Size:</b>	1116 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_028189.2</a> , <a href="#">NP_082465.2</a>
<b>RefSeq Size:</b>	2126 bp
<b>RefSeq ORF:</b>	1119 bp
<b>Locus ID:</b>	72297
<b>UniProt ID:</b>	<a href="#">Q5JCS9</a>
<b>Cytogenetics:</b>	8 B3.3
<b>Gene Summary:</b>	Beta-1,3-N-acetylglucosaminyltransferase involved in the synthesis of poly-N-acetyllactosamine. 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]