

## Product datasheet for **MG204731**

### **B3galt6 (BC082998) Mouse Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	B3galt6 (BC082998) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	B3galt6
Synonyms:	BB129894; GalTII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204731 representing BC082998 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGGTATTCCGGCGCGCTTGGCGGCACCGGGTGGCGCTGGGCCTAGGCGGCCTGGCGTTCTGCGGCA  
CCACTCTGTTGTACCTGGCGCGCTGCGCTTCCGAGGGCGAGACGCCCTCCGCTTCCGGAGCCGCTCGGCC  
CCGCGCTAAGGCCTTCTGGCGGTGCTGGTGGCCAGTGC GCCCGCGCGGTGAGCGCCGACCCGACGTG  
CGCAGCACGTGGCTGGCACCAGGAGGCGTGGCGACCCGAGGACGTGTGGCGCGCTTCCCGTGGCA  
CTGGCGGCTTAGGCTCGGAGGAGCGCGCGCTTGTAGCTCGAGCAGGCGCAGCACGGGGACCTACTGCT  
GCTGCCCGCCCTGCGCGACGCCTACGAGAACCTCACGGCCAAGGTCTGGCCATGCTGACCTGGCTGGAT  
GAGCGCGTGGACTTCGAGTTCGTGCTCAAGCGGACGACGACTCCTTTGCGCGCCTGGACGCTATCTGG  
TGGACCTACGCGCACGGGAGCCCGCACGCCCGCGCGCCTCTACTGGGGCTTCTTTCCGGGCGCGGGCG  
CGTCAAGCCGGGAGGTCGCTGGCGAGAAGCAGCCTGGCAACTCTGCGACTACTACCTGCCCTACGCGCTG  
GGCGGTGGCTATGTCCTTCTGCGGACCTGGTGCATTACCTGCGCCTCAGCCGGAATACCTGCGCGCT  
GGCACAGTGAAGACGTATCGCTGGGCACCTGGCTGGCACCAGTGGATGTGCAACGGGAGCATGACCCACG  
CTTCGACACGGAGTACAAATCTCGAGGCTGCAACAATCAGTATCTGGTGACACACAAGCAAAGCCAGAG  
GACATGTTGGAGAAGCAACAGATGTTGCTGCATGAGGGCCGTTGTGCAAGCATGAGGTGCAGTTGCGCC  
TTTCTATGCTATGACTGGTCAGCTCCACCCTCCAGTGCTGCCAGCGCAAGGAGGGCGTTCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG204731 representing BC082998  
 Red=Cloning site Green=Tags(s)

MKVFRRARHRVALGLGGLAFCGTTLLYLARCASEGETPSASGAARPRAKAFLAVLVASAPRAVERRTAV  
 RSTWLAPEERRGGPEDVWARFAVGTGGLGSEERRALELEQAQHGDLLLLPALRDAYENLTAKVLAMLWLD  
 ERVDFEFVLKADDDSFARLDAIILVDLRAREPARRRRLYWGFFSGRGRVKPGRWRWAAWQLCDYYLPYAL  
 GGGYVLSADLVHYLRLSREYLRWHSESDVSLGTWLAPOVDVQREHDPFRDTEYKSRGCNNQYLVTHKQSPE  
 DMLEKQQMLLHEGRLCKHEVQLRLSYVYDWSAPPSQCCQRKEGVP

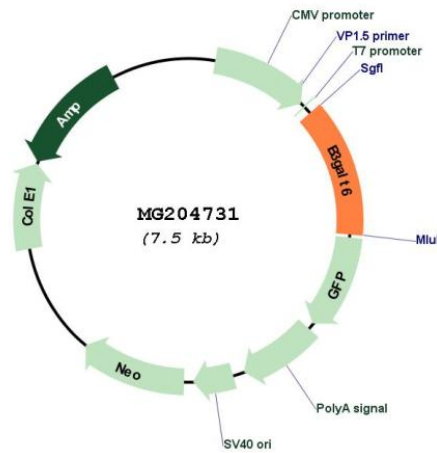
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** BC082998

**ORF Size:** 977 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="#">BC082998</a> , <a href="#">AAH82998</a>
<b>RefSeq Size:</b>	1599 bp
<b>RefSeq ORF:</b>	977 bp
<b>Locus ID:</b>	117592
<b>Cytogenetics:</b>	4 E2
<b>Gene Summary:</b>	Beta-1,3-galactosyltransferase that transfers galactose from UDP-galactose to substrates with a terminal beta-linked galactose residue. Has a preference for galactose-beta-1,4-xylose that is found in the linker region of glycosaminoglycans, such as heparan sulfate and chondroitin sulfate. Has no activity towards substrates with terminal glucosamine or galactosamine residues (By similarity).[UniProtKB/Swiss-Prot Function]