

## Product datasheet for **MR204769**

### **B3galt1 (NM\_020283) Mouse Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	B3galt1 (NM_020283) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	B3galt1
Synonyms:	beta3Gal-T1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204769 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCTTCAAAGGTCTCCTGCCTCTATGTATTGACCGTTGTGTGCTGGCCAGCGCTCTCTGGTACTTGA  
GCATAACCAGACCTACTTCATCCTACACTGGCTCCAAGCCGTTTCAGTCACCTAACAGTTGCCAGGAAAA  
CTTCACCTTTGGCAACATAAGAAGCTCGACCTATAAACCCACATTCTTTGAAATTTCTGATAAATGAGCCC  
AACAAAGTGGGAGAAAAACATTCTTTCTCGTGATCCTCATTAGCACCACACACAAGGAATTTGATGCC  
GCCAGGCAATCCGGGAGACATGGGGGATGAAAACAACCTCAAAGGGATCAAGATAGCCACACTTTTCT  
CCTGGGCAAAAATGCTGATCCTGTTCTGAACCAGATGGTGGAGCAAGAGAGCCAGATCTTCCATGACATC  
ATCGTGGAGGACTTCATTGACTCCTACCACAATCTCACCCCTAAAACCTTAATGGGGATGAGATGGGTTG  
CCACTTTCTGTTCAAAGCCAAGTACGTCATGAAAACCGACAGTGACATTTTGTGAACATGGACAACCT  
TATTTATAAACTCCTGAAACCTCTACCAAGCCAAGAAGAAGGTATTTCACTGGTTACGTCATCAACGGC  
GGGCAATCAGGGATGTCCGCAGTAAGTGGTATATGCCTAGAGATTTGTACCCTGACAGCAACTACCCAC  
CGTTCTGTTCAAGGACTGGCTATATCTTTCCGCTGATGTGGCTGAACCTATTTACAAGACCTCGCTCCA  
CACCAGGCTGCTTCATCTTGAAGATGTGACGTGGGACTGTGTCTCGAAAGCTTGGCATCCATCCTTTC  
CAGAATAGTGGCTCAATCACTGAAAAATGGCCTACAGTTTGTGTCCGTCACCGCCGCTCATCACTGTCC  
ACCAGATCTCTCAGAAGAAATGCACAGAATCTGGAATGACATGTCAAGCAAGAAGCATCTGAGATGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204769 protein sequence  
Red=Cloning site Green=Tags(s)

MASKVSLVYLVVVCWASALWYLSITRPTSSYTGSKPFSHLTVARKNFTFGNIRTRPINPHSFEFLINEP  
 NKCEKNIPFLVILISTTHKEFDARQAIRETWGDENNFKGIKIATLFLGKNADPVLNQMVESQIFHDI  
 IVEFDIDSYHNLTKTLMGMRWVATFCSKAKYVMKTDSDIFVNMDNLIYKLLKPSTKPRRRYFTGYVING  
 GPIRDVRSKWYMPRDLYPDSNYPPFCSGTGYIFSADVAELIYKTSLHTRLLHLEDVYVGLCLRKLGHPF  
 QNSGFNHWKMAYSLCRYRRVITVHQISPEEMHRIWNDMSSKKHLRC

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\_020283

**ORF Size:** 981 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\\_020283.4](#), [NP\\_064679.2](#)

**RefSeq Size:** 5222 bp

**RefSeq ORF:** 981 bp

**Locus ID:** 26877

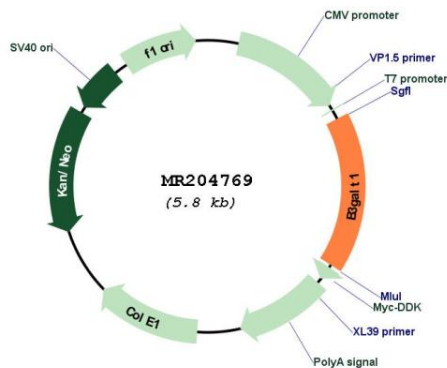
**UniProt ID:** [O54904](#)

**Cytogenetics:** 2 C1.3

**MW:** 38 kDa

**Gene Summary:** Beta-1,3-galactosyltransferase that transfers galactose from UDP-alpha-D-galactose to substrates with a terminal beta-N-acetylglucosamine (beta-GlcNAc) residue. Involved in the biosynthesis of the carbohydrate moieties of glycolipids and glycoproteins.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR204769