

Product datasheet for **MG204769**

B3galt1 (NM_020283) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B3galt1 (NM_020283) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	B3galt1
Synonyms:	beta3Gal-T1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204769 representing NM_020283 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCAAAGGTCTCCTGCCTCTATGTATTGACCGTTGTGTGCTGGCCAGCGCTCTCTGGTACTTGA
GCATAACCAGACCTACTTCATCCTACACTGGCTCCAAGCCGTTTCAGTCACCTAACAGTTGCCAGGAAAA
CTTCACCTTTGGCAACATAAGAAGCTCGACCTATAAACCCACATTCTTTGAATTTCTGATAAATGAGCCC
AACAGTGGGAGAAAAACATTCTTTCTCGTGATCCTCATTAGCACCACACACAAGGAATTTGATGCC
GCCAGGCAATCCGGGAGACATGGGGGATGAAAACAACCTCAAAGGGATCAAGATAGCCACACTTTTCT
CCTGGGCAAAAATGCTGATCCTGTTCTGAACCAGATGGTGGAGCAAGAGAGCCAGATCTTCCATGACATC
ATCGTGGAGGACTTCATTGACTCCTACCACAATCTCACCCCTAAAACCTTAATGGGGATGAGATGGGTTG
CCACTTTCTGTTCAAAGCCAAGTACGTCATGAAAACCGACAGTGACATTTTGTGAACATGGACAACCT
TATTTATAAACTCCTGAAACCTCTACCAAGCCAAGAAGAAGGTATTTCACTGGTTACGTCATCAACGGC
GGGCAATCAGGGATGTCCGAGTAAGTGGTATATGCCTAGAGATTTGTACCCTGACAGCAACTACCCAC
CGTTCTGTTCAAGGACTGGCTATATCTTTCCGCTGATGTGGCTGAACCTATTTACAAGACCTCGCTCCA
CACCAGGCTGCTTCATCTTGAAGATGTGACGTGGGACTGTGTCTCGAAAGCTTGGCATCCATCCTTTC
CAGAATAGTGGCTCAATCACTGAAAAATGGCCTACAGTTTGTGTCCGTCACCGCCGCTCATCACTGTCC
ACCAGATCTCTCAGAAGAAATGCACAGAATCTGGAATGACATGTCAAGCAAGAAGCATCTGAGATGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204769 representing NM_020283
 Red=Cloning site Green=Tags(s)

MASKVSLYVLTVVCWASALWYLSITRPTSSYTGSKPFSHLTVARKNFTFGNIRTRPINPHSFEFLINEP
 NKCEKNIPFLVILISTTHKEFDARQAIRETWGDENNFKGIKIATLFLGKNADPVLNQMVESQIFHDI
 IVEFDIDSYHNLTKTLMGMRWVATFCSKAKYVMKTDSDFVNMDNLIYKLLKPSTKPRRRYFTGYVING
 GPIRDVRSKWYMPRDLYPDSNYPPFCSGTGYIFSADVAELIYKTSLHTRLLHLEDVYVGLCLRKLGIHPF
 QNSGFNHWKMAYSLCRYRRVITVHQISPEEMHRIWDMSSKKHLRC

TRTRPLE - GFP Tag - V

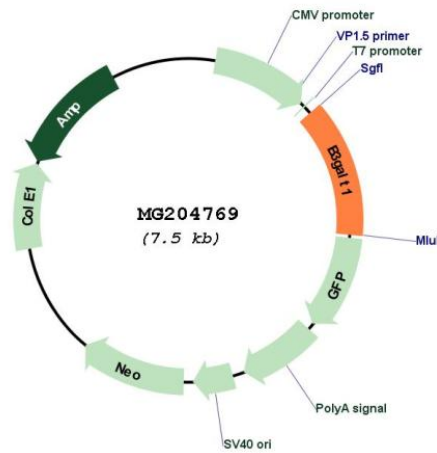
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_020283

ORF Size: 978 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_020283.4 , NP_064679.2
RefSeq Size:	4981 bp
RefSeq ORF:	981 bp
Locus ID:	26877
UniProt ID:	O54904
Cytogenetics:	2 C1.3
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]