

Product datasheet for **MG206722**

B3galt2 (NM_020025) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B3galt2 (NM_020025) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	B3galt2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206722 representing NM_020025 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTTCAGTGGAGAAGACGACACTGCTGCTTTGCAAAAATGACCTGGAGCCCTAAGAGGTCTCTGCTCC
GGACTCCCCTTACGGGTGTGCTTTCTCTAGTGTTCCTTTGCTATGTTCTTGTTTTTCAATCATCATGA
CTGGTTACCAGGTAGACCAGGATTCAAAGAAAATCCTGTGACATACACTTCCGAGGATTCGTTCTACA
AAAAGTGAGACAAACCATAGCTCCCTTCGGACCATCTGGAAAGAAGTAGCTCCTCAGACTGAGGCCTC
ACACAGCAAGCAACTCCAGTAACACCGAGCTATCACCACAGGGAGTCACAGGGCTGCAGAACACTCAG
TGCCAATGGCAGCATTTATAATGAAAAAGAACTGGACATCCAAACTCTTACCATTTCAAATATATTATC
AATGAGCCTGAAAAATGCCAAGAGAAAAGTCCATTTTTAATACTATTAATAGCTGCAGAACCTGGACAAA
TCGAAGCAAGAAGAGCTATACGGCAAATTTGGGCAATGAACTTTGGCACCTGGCATCCAAATCATACG
GGTTTTTTTGTGGGCATAAGTATTAAGCTAAATGGCTATCTTCAACATGCAATTCAAGAAGAAAGCAGA
CAGTATCATGATATAATTCAGCAGGAATATTTAGATACATACTATAATCTGACCATTAACACTAATGG
GTATGAACTGGGTTGCAACATACTGTCCACATACTCCCTATGTTATGAAAACGGACAGTGACATGTTTGT
CAACACAGAATACTTAATACACAAGTTACTAAAGCCAGACCTGCCTCCTAGACATAACTATTTTACTGGC
TATCTAATGAGAGGATATGCACCGAACAGAAACAAGACAGTAAGTGGTACATGCCACCAGACCTTTACC
CAAGTGAGCGCTACCCTGTCTTCTGCTCAGGAACTGGTTATGTGTTTTCTGGGGATCTGGCAGAGAAGAT
ATTTAAGGTTTCTTTAGGTATCCGTCGTTTGCCTTGGAAAGATGTATATGTAGGGATCTGTCTTGCCAAG
TTGAGAGTTGATCCTGTGCCCTCCCAATGAGTTCGTGTTCAATCACTGGCGAGTTTCTTATTCAAGCT
GTAATAACAGCCACCTAATTACCTCTCATCAGTTCCAACCTAGTGAAGTATAAAATACTGGAACCATTT
ACAACAAAATAAGCACACGCCTGTGCCAATGCAGCAAAGGAAAGGCAGGCAGGTATCGACACCGCAAA
CTACAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206722 representing NM_020025
 Red=Cloning site Green=Tags(s)

MLQWRRRHCCFAKMTWSPKRSLLRTPLTGVL SLVFLFAMFLFFNHHDWLPGRPGFKENPVTYTFRGFRST
 KSETNHSSLRTIWKEVAPQTLRPHTASNSNTELSPOQVTGLQNTLSANGSIYNEKGTGHPNSYHFYII
 NEPEKQCEKSPFLILLIAAEPGQIEARRAIRQWTGNETLAPGIQIRVFLLLGISIKLNGYLQHAIQEESR
 QYHDIIQQEYLDYYNLTIKTLMGMNWWATYCPHTPYVMKTDSDMFVNTEYLIHKLLKPDLPPTHNYFTG
 YLMRGYAPNRNKDSKWYMPDLYPSERYPVFCSGTGYVFSGLAEKIFKVS LGIRRLHLEDVYVVICLAK
 LRVDPPVPPNEFVFNHWRVSYSSCKYSHLITSHQFQPSSELIKYWNHLQQNKHNACANA AKEKAGRYRHRK
 LH

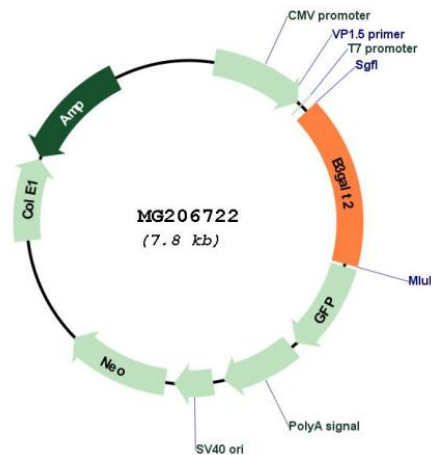
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_020025
ORF Size:	1266 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_020025.4
RefSeq Size:	4427 bp
RefSeq ORF:	1269 bp
Locus ID:	26878
UniProt ID:	Q54905
Cytogenetics:	1 F
Gene Summary:	Beta-1,3-galactosyltransferase that transfers galactose from UDP-galactose to substrates with a terminal beta-N-acetylglucosamine (beta-GlcNAc) residue. Can also utilize substrates with a terminal galactose residue, albeit with lower efficiency. Involved in the biosynthesis of the carbohydrate moieties of glycolipids and glycoproteins.[UniProtKB/Swiss-Prot Function]