

## Product datasheet for **MR204357**

### **B3galt5 (NM\_033149) Mouse Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	B3galt5 (NM_033149) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	B3galt5
Synonyms:	1190002B21Rik; AU045265; b3Galt-V
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204357 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTCACATGAAGACAAGGCTAGTTTACGCCTCCATTCTCATGATGGGCGCACTCTGCTTGTACTTCA  
GCATGGATTCTTTCAGAGAACTCCCGTTTGTGTTTTAAGAAAAGTCACGGGAAGTTCCTTCAGATCCGGA  
TATAGACTGCAAGCAGAAGCCGCTTTCCTGGTGTCTGGTGACGTCTCACAAGCAGCTGGCCGCT  
CGCATGGCCATCCGCAAGACGTGGGTAGAGAGACATCTGTGCAGGGCCAACAGGTGAGGACCTTCTTCC  
TTCTGGGGACCTCCGACAGCACCAGGAGATGGACGCCACAACCCTGGAGAGCGAGCAGCACCGCGACAT  
TATCCAGAAGGACTTCAAGGATGCCTACTTCAACCTGACCTGAAGACCATGATGGGTATGGAATGGGTC  
TACCACCTTTGTCTCAGACAGTTACGTGATGAAAACGGACTCTGACATGTTTGTGAATGTTGGCTATC  
TGACGGAAGTGTGCTAAAGAAAAACAAAACGACCAGGTTCTTCACAGGCTACATAAAGCCCCACGACTT  
TCCCATCCGGCAGAAGTTCAACAAGTGGTTTGTGAGTAAGTTTCAATATCCCTGGGACAGGTACCCACCT  
TTTTGCTCCGGTACTGTTATGTCTTTCCAGCGACGTGGCGATCCAAGTATAACAACGTCTCAGAGAGCG  
TTCCGTTTCATCAAGCTGGAGGATGTGTTTGTGGGCTCTGCTTGCCAAGCTAAAGATCCGGCCGGAGGA  
GCTGCACACCAACAGACCTTCTCCCTGGCGGTTTACGCTTTCCGTTGCGCGCTTTCAGAAAATTGTG  
GCATGCCATTTTATGAAGCCCCAGGACCTGCTCACTTACTGGCAAGCACTGGAGAAGCTCGAAAGAACAGG  
ACTGTCCTGCTGTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204357 protein sequence  
Red=Cloning site Green=Tags(s)

MAHMKTRLVYASILMMGALCLYFSMDSFRELPFVFKKSHGKFLQIPDIDCKQKPPFLVLLVTSSHKQLAA  
 RMAIRKTWGRETSVQGGQVRTFFLLGTSDSTEEMDATTLESEQHRDIIQKDFKDAYFNLTLKTMGMWV  
 YHFCPQTAYVMKTDSDMFVNVGYL TELLKKNKTTRFFTG YIKPHDFPIRQKFNKWFVSKFEYPWDRYPP  
 FCSGTGYVVFSSDVAIQVYNVSESVPF IKLEDVFVGLCLAKL KIRPEELHTKQTFPPGGLRF SVCRFQKIV  
 ACHFMPQDLLTYWQALENSKEQDCPAV

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\_033149

**ORF Size:** 927 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\\_033149.2](#), [NP\\_149161.1](#)

**RefSeq Size:** 4914 bp

**RefSeq ORF:** 927 bp

**Locus ID:** 93961

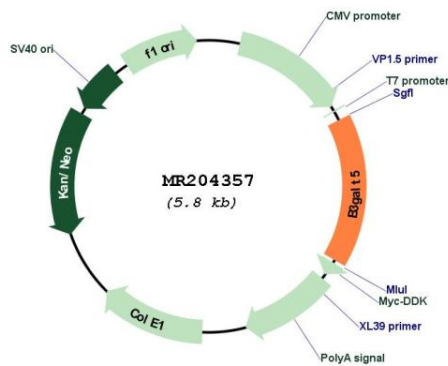
**UniProt ID:** [Q9J167](#)

**Cytogenetics:** 16 C4

**MW:** 36 kDa

**Gene Summary:** Catalyzes the transfer of Gal to GlcNAc-based acceptors with a preference for the core3 O-linked glycan GlcNAc(beta1,3)GalNAc structure. Can use glycolipid LC3Cer as an efficient acceptor. Also catalyzes the transfer of Gal to the terminal GalNAc unit of the globoside GB4, thereby synthesizing the glycolipid GB5, also known as the stage-specific embryonic antigen-3 (SSEA-3).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR204357