

Product datasheet for **MR228967**

B4galnt1 (NM_001244618) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B4galnt1 (NM_001244618) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	B4galnt1
Synonyms:	4933429D13Rik; Gal-NAc-T; Galgt1; GalNAc-T; GalNAcT; Ggm-2; Ggm2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR228967 representing NM_001244618 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTGGCCTTGGGTACCTGCGCGAGCCTCGGAGGCGGGGGTCCAGAGTCCCGGCCCTCACGTTCTC
TGAGAGCCTGGTCACCTCTCACCTCCCCATATCAGGATGCGGCTAGACCGCCGGGCCCTCTATGCGCT
AGTCTTGCTGCTCGCCTGCGCCTCGCTGGGTCTCCTGTACTCCAGCACCCGAAACGCGCCAAGTCTCCCC
AACCTCTGGCATTGTGGTGCAGCCACAAAGTCCCGGAGACTCGATCTGCTAGACCTGCCCCCTGAGC
CTCGCTACGCACACATCCCGGTCAAGGATCAAGGAGCAAGTGGTGGGGCTGCTGGCTCAGAACAACCTGCAG
TTGTGAATCCAAGGGAGGAAGCCTTCCCTTGCCTTTCTGAGACAGGTTCCGGCGGTTGACCTACTAAA
GCCTTTGACGCTGAGGAGCTGAGGGCTGTTTCTGTGCGCCAGGGAGCAGGAATACCAGGCCTTCTTGCAA
GGAGCCGGTCCCTGGCTGACCAGCTGCTGATAGCTCCCGCAACTCCCCCTTACAGTACCCCTGCAGGG
TGTGGAGGTTAGCCCCCTCAGGAGCATCCTGGTCCAGGGCTAAGTCTGCAGGAAGCTTCTGTCCAGGAG
ATATACCAGGTGAACCTGAGTGTCTCTAGGCACCTGGGACGTGGCAGGGGAAGTAACAGGAGTGACTC
TCACGGGAGAGGGCAACCGGATCTCACCTTGCCAGCCAGTTCTGGATAAACTCAACCGGCAGCTGCA
ACTGGTGACTTACAGCAGCCGGAGCTACCAGGCCAACACAGCAGACACAGGTGGGAGCCCGAGGAGGGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR228967 representing NM_001244618
 Red=Cloning site Green=Tags(s)

MAGLGYLREPRRRRGPE SRPSRSLRAWSP LTLPHIRMRLDRRAL YALVLLACASLGLLYSSTRNAPSLP
 NPLALWSP PQPPRLDLLDLAPEPRYA HIPVRIKEQVVG LLAQNNCSCESKGGSLP PFLRQVRAVDLTK
 AFDAEELRAVSVAREQEYQAFLARSRLADQLLIAPANSPLQYPLQGVVQPLRSILV PGLSLQEASVQE
 IYQVNL SASLGTWDVAGEVTG VTLTGEGQ PDLTLASPVL DKLNRQLQLVTYSSRSYQANTADTGGRPEEG

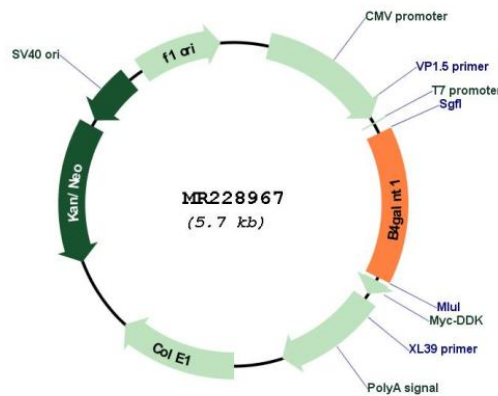
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001244618
ORF Size: 840 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_001244618.1 , NP_001231547.1
RefSeq Size:	1528 bp
RefSeq ORF:	843 bp
Locus ID:	14421
Cytogenetics:	10 74.5 cM
MW:	31.1 kDa
Gene Summary:	Involved in the biosynthesis of gangliosides GM2, GD2 and GA2.[UniProtKB/Swiss-Prot Function]