

Product datasheet for **RR205628**

B3galnt1 (NM_001013158) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B3galnt1 (NM_001013158) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	B3galnt1
Synonyms:	B3galt3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR205628 representing NM_001013158 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCCCCGGCTGTCTTGACTGCCATCCCAATAGGATGTCAGTCCCTCAAATGGAGCCTCCTGC
TGCTGTCCCTGCTGAGCTTCTGGTGATCTGGTACCTCAGCCTTCCCCTACAATGTGATTGAGCGTGT
GAACTGGATGACTTCTATGAGTATGAGCCAATTTACAGACAAGACTTTCAATTCACACTCAGGGAACAT
TCGAACTGCTCTCAACAAAACCCATTCTGGTCACTCTGGTGACCTCTCGTCCCTCAGATGTGAAAGCCA
GACAAGCCATTAGAGTTACTTGGGGCGAGAAAAAACCTGGTGGGGACACGAGGTTCTTACATTTTTCTT
ACTTGGCCAGGAGGCTGAAAGGGAAGACAAGGTATTAGCATTGTCCTTGGAGGATGAACATGCTCTCTAT
GGCGACATTATACGGCAAGACTTTTTAGATACCTACAATAACTTGACCTTGAAAACCATTTATGGCTTTCA
GGTGGTAATTGAATTTGCCCAATGCCAAGTATGTCATGAAAACAGACACCGATGTTTTTCATCAACAC
GGGCAATTTAGTCAAGTATCTTTAAACCTAAACCACTCAGAGAAGTTTTTCACAGGCTATCCTCTAATT
GAAAACCTATTCTATAGAGGGTTTTCCATAAAAACCATTTTCATACCAAGAATACCCGTTCAAGGTGT
TCCCTCCCTACTGCAGTGGGCTGGGCTACATCATGTCGGCGACCTGGTGCCGAAGATCTACGAGATGAT
GGGCCACGTGAAACCCATCAAGTTTGAGGATGTCTATGTCGGCATCTGTCTGAATTTGTTAAAAGTGGAC
ATTCATATTCCAGAAGACACAAATCTTTTCTTCTGTTTCCAGAATACACTTGGACGTGTGTGAGCTGAGAC
GGGTGATTGCAGCCCATGGCTTTTCTCCAAGGAGATCATCACCTTCTGGCAGGTCATGCTGAGGAACAC
CACCTGCCACTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR205628 representing NM_001013158
Red=Cloning site Green=Tags(s)

MAPAVLTAIPNRMSLRSLKWSLLLLSLLSFLVIWYLSLPHYNVIERNWWMYFYEYEPYRQDFQFTLREH
 SNCSQQNPFLVILVTSRPSDVKARQAIRVTWGEKKTWWGHEVLTFLLGQEAEREDKVLALSLEDEHALY
 GDIIHQDFLDYNNLTLKTIMAFRWVIEFCPNAKYVMKTDVDFINTGNLVKYLNLNHSEKFFTYPLI
 ENYSYRGFFHKNHISYQEYPFKVFPPYCSGLGYIMSGDLVPKIYEMMGHVKPIKFEDVYVVICLNLLKVD
 IHIPEDTNLFFLFRIHLDVQCQLRRVIAAHGFSSEIITFWQVMLRNTTCHY

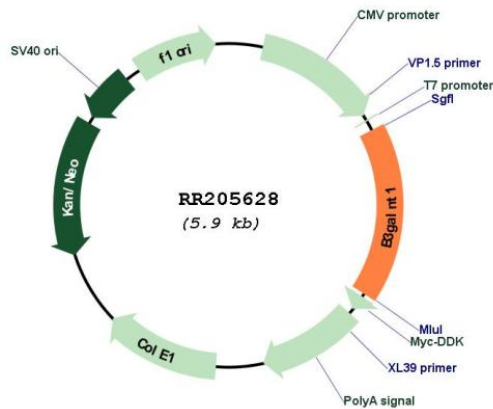
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001013158

ORF Size: 993 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_001013158.1 , NP_001013176.1
RefSeq Size:	1928 bp
RefSeq ORF:	996 bp
Locus ID:	310508
UniProt ID:	Q6AY39
Cytogenetics:	2q32
MW:	39.2 kDa
Gene Summary:	Transfers N-acetylgalactosamine onto globotriaosylceramide. Plays a critical role in preimplantation stage embryonic development.[UniProtKB/Swiss-Prot Function]