

Product datasheet for **RR213244**

B3gnt7 (NM_001012134) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: B3gnt7 (NM_001012134) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: B3gnt7
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >RR213244 representing NM_001012134
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCTCTGTGGAAGAAAACCCCTACAAGAGTGTATGCCTGGCTCTGGCCCTCCTGTGGCTGTACCG
 TATTCAGCGCAGTGTGACCCCTGGTCAATTCCTCAGGATCCTCTACCACCCACGCTAGGGCCACCCAA
 AACTGGAAGTCTGGTCAACCCCAACAGCTTCTGGAAGAGTTCAAAGGATGTAGTGGCTCCACCCACAG
 GTTCTCGGGGACCCAGGTCTGGGATGTGGTTACCACTAACTGCTCTATCAATGTCAACCTGACCCATC
 AGCCCTGGTTCCAGAATCTCGAGCCACACTTCCGGCAGTTCTAGCCTATCAGCATTGTCGATATTTCCC
 CATGTTGCTAAACCACCCGAGAGGTGTCGCGGATGTCTATCTGCTTGTGGTGTCAAGTCAGTCATC
 ACACAGCATGACCGCGAGAGGTCATTCGTCAGACCTGGGGCCACGAATGGGAGTCAGCAGGTCCAGACA
 GGGGGGCCGTGCGGACTCTTCTGCTCGGCACAGCCTCAAGCAAGAGGAGCGAACCCTATCAGCA
 GCTGCTGGCTATGAGGACCGTCTCTATGGCGACATCCTACAGTGGGACTTCTTGACAGCTTCTCAAC
 CTGACTCTCAAGGAGATCCAATTCCTCAAGTGGCTTGACATTTACTGTCCAATGTCCCCTCATTTTCA
 AAGGTGATGATGATGTCTTTGTCAACCCACCAACCTGCTCGAGTTTCTGTCTGACCGGCAGCCCCAGGA
 AAACCTATTCGTAGGTGATGTTCTGAAACATGCTCGACCCATCCGAAAAAGATAACAAATACTACATC
 CCCGCCGTATGTACAGCAAGGCCACCTACCCACCTATGCCGGCGCGGGGTTTCTCATGTCTGGCA
 GCCTGGCTCGGCAACTCCACCACGCCTGTGACACACTGGAACCTTCCCTATTGATGACGTCTTCTGGG
 CATGTGCTTGGAGGTGCTGGGAGTGAAGCCACAGGCCACGAGGGCTTCAAGACCTTCGGTATCTCTCGG
 GTCCGAGGCAGCCGAATGAACAAGGAGCCATGCTTCTACCGATCCATGCTCGTGGTTACAAGCTGCTGC
 CTGCCGAGCTGCTGGCCATGTGGGATCTGGTACATAGCAATCTTACCTGTTCTCTCAAGTCCAGGTGCT
 C

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR213244 representing NM_001012134
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MSLWKKTLYKSVCLALALLVAVTVFQRSVTPGQFLQDPLPPTLGPPKTGSLVNPNSFWKSSKDVAAPTPT
 VPRGPQVWDVVTNCSINVNLTHQPFQNLPHFRQFLAYQHCRYFPMLLNHPEKACGDVYLLVVVKSVI
 TOHDRREVIRQTWGHEWESAGPDRGAVRTLFLLLGTASKQEERTHYQQLLAYEDRLYGDILQWDFLDSFFN
 LTLKEIHFLKWLDIYCPNVVPIFKGDDDFVNPNTNLEFLSDRQPQENLFGVDVLKHARPIRKKDNKYI
 PAVMYSKATYPPYAGGGGFLMSGSLARQLHHACDTLELFPIDDFVFLGMCLEVLGVKPTGHEGFKTFGISR
 VRGSRMNKEPCFYRSM LVVHKLPAELLAMWDLVHSNLTCSLKFQVL

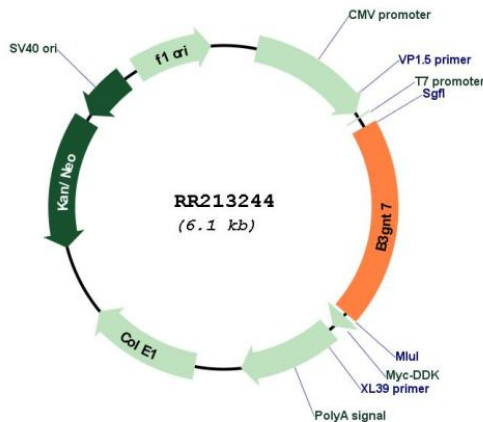
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001012134

ORF Size:	1191 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_001012134.1 , NP_001012134.1
RefSeq Size:	2555 bp
RefSeq ORF:	1194 bp
Locus ID:	316583
UniProt ID:	Q66H69
Cytogenetics:	9q35
MW:	45.4 kDa
Gene Summary:	May be involved in keratane sulfate biosynthesis. Transfers N-acetylgalactosamine on to keratan sulfate-related glycans. May play a role in preventing cells from migrating out of the original tissues and invading surrounding tissues (By similarity).[UniProtKB/Swiss-Prot Function]