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Product datasheet for RC218503

B3GNT7 (NM_145236) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B3GNT7 (NM_145236) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	B3GNT7
Synonyms:	beta3GnT7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC218503 representing NM_145236
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCGCTGTGGAAGAAAACCGTCTACCGGAGTCTGTGCCTGGCCCTGGCCCTGCTCGTGGCCGTGACGG
TGTTCCAACGCAGTCTCACCCCTGGTCAGTTTCTGCAGGAGCCTCCGCCACCCACCCTGGAGCCACAGAA
GGCCCAGAAGCCAAATGGACAGCTGGTGAACCCCAACAACTTCTGGAAGAACCCGAAAGATGTGGCTGCG
CCCACGCCCATGGCCTCTCAGGGGCCCCAGGCCTGGGACGTGACCACCACTAACTGCTCAGCCAATATCA
ACTTGACCCACCAGCCCTGGTTCCAGGTCCTGGAGCCGCAGTTCCGGCAGTTTCTCTTCTACCGCCACTG
CCGCTACTTCCCCATGCTGCTGAACCACCCGGAGAAGTGCAGGGGCGATGTCTACCTGCTGGTGGTTGTC
AAGTCGGTCATCACGCAGCACGACCGCCGCGAGGCCATCCGCCAGACCTGGGGCCGCGAGCGGCAGTCCG
CGGGTGGGGGCCGAGGCGCCGTGCGCACCCTCTTCCTGCTGGGCACGGCCTCCAAGCAGGAGGAGCGCAC
GCACTACCAGCAGCTGCTGGCCTACGAAGACCGCCTCTACGGCGACATCCTGCAGTGGGGCTTTCTCGAC
ACCTTCTTCAACCTGACCCTCAAGGAGATCCACTTCCTCAAGTGGCTGGACATCTACTGCCCCCACGTCC
CCTTCATTTTCAAAGGCGACGATGACGTCTTCGTCAACCCCACCAACCTGCTAGAATTTCTGGCTGACCG
GCAGCCACAGGAAAACCTGTTCGTGGGCGATGTCCTGCAGCACGCTCGGCCCATTCGCAGGAAAGACAAC
AAATACTACATCCCGGGGGGCCCTGTACGGCAAGGCCAGCTATCCGCCGTATGCAGGCGGCGGTGGCTTCC
TCATGGCCGGCAGCCTGGCCCGGCGCCTGCACCATGCCTGCGACACCCTGGAGCTCTACCCGATCGACGA
CGTCTTTCTGGGCATGTGCCTGGAGGTGCTGGGCGTGCAGCCCACGGCCCACGAGGGCTTCAAGACTTTC
GGCATCTCCCGGAACCGCAACAGCCGCATGAACAAGGAGCCGTGCTTTTTCCGCGCCATGCTCGTGGTGC
ACAAGCTGCTGCCCCCTGAGCTGCTCGCCATGTGGGGGCTGGTGCACAGCAATCTCACCTGCTCCCGCAA
GCTCCAGGTGCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>RC218503 representing NM_145236
Red=Cloning site Green=Tags(s)

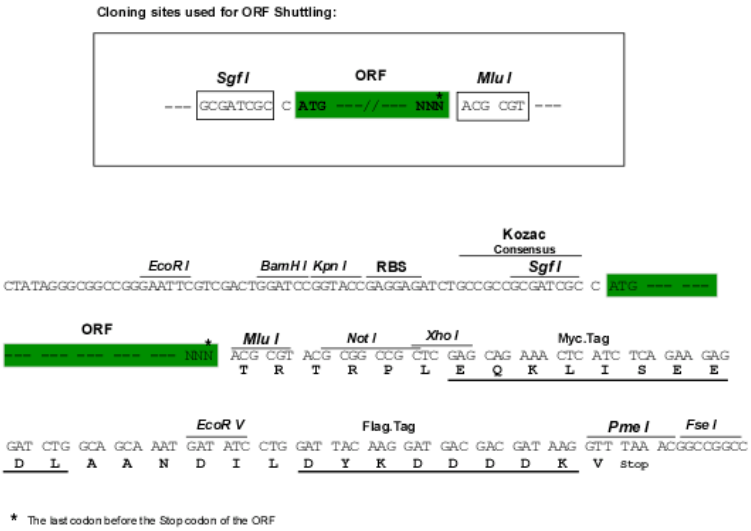
MSLWKKTVYRSLCLALALLVAVTVFQRSLTPGQFLQEPPPPTLEPQKAQKPNGQLVNPNNFWKNPKDVAA
PTPMASQGPQAWDVTTTNCSANINLTHQPWFQVLEPQFRQFLFYRHCRYFPMLLNHPEKCRGDVYLLVVV
KSVITQHDRREAIRQTWGRERQSAGGGRGAVRTLFLLGTASKQEERTHYQQLLAYEDRLYGDILQWGFLD
TFFNLTLKEIHFLKWLDIYCPHVPFIFKGDDDVFVNPTNLLEFLADRQPQENLFVGDVLQHARPIRRKDN
KYYIPGALYGKASYPPYAGGGGFLMAGSLARRLHHACDTLELYPIDDVFLGMCLEVLGVQPTAHEGFKTF
GISRNRNSRMNKEPCFFRAMLVVHKLLPPELLAMWGLVHSNLTCSRKLQVL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8115_h07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145236

ORF Size: 1203 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

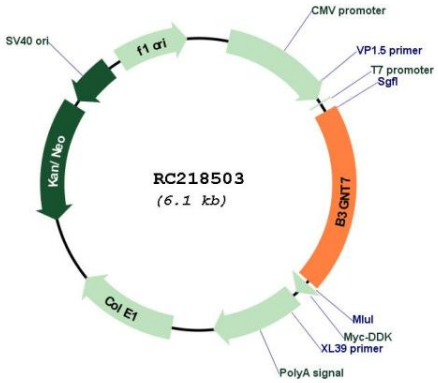
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_145236.3
RefSeq Size:	3641 bp
RefSeq ORF:	1206 bp
Locus ID:	93010
UniProt ID:	Q8NFL0
Cytogenetics:	2q37.1
Domains:	Galactosyl_T
Protein Families:	Transmembrane
Protein Pathways:	Keratan sulfate biosynthesis, Metabolic pathways
MW:	46 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.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC218503