

Product datasheet for MR204731

B3galt6 (BC082998) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B3galt6 (BC082998) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	B3galt6
Synonyms:	BB129894; GalTII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204731 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGGTATTCCGGCGCGCTTGGCGGCACCGGGTGGCGCTGGGCCTAGGCGGCCTGGCGTTCTGCGGCA
CCACTCTGTTGTACCTGGCGCGCTGCGCTTCCGAGGGCGAGACGCCCTCCGTTCCGGAGCCGCTCGGCC
CCGCGCTAAGGCCTTCTGGCGGTGCTGGTGGCCAGTGC GCCCGCGGGTGGAGCGCCGACCGCAGTG
CGCAGCACGTGGCTGGCACCGGAGAGCGTGGCGACCCGAGGACGTGTGGCGCGCTTCGCCGTGGCA
CTGGCGGCTTAGGCTCGGAGGAGCGCGCGCTTGTAGCTCGAGCAGGCGCAGCACGGGGACCTACTGCT
GCTGCCCGCCCTGCGCGACGCCTACGAGAACCTCACGGCCAAGTCTGGCCATGCTGACCTGGCTGGAT
GAGCGCGTGGACTTCGAGTTCGTGCTCAAGGCGGACGACGACTCCTTTGCGCGCCTGGACGCTATCTGG
TGGACCTACGCGCACGGGAGCCCGCACGCCCGCGCGCCTCTACTGGGGCTTCTTTCCGGGCGCGGGCG
CGTCAAGCCGGGAGGTCGCTGGCGAGAAGCAGCCTGGCAACTCTGCGACTACTACCTGCCCTACGCGCTG
GGCGGTGGCTATGTCTTCTGCGGACCTGGTGCATTACCTGCGCCTCAGCCGGAATACCTGCGCGCT
GGCACAGTGAAGACGTATCGCTGGGCACCTGGCTGGCACCAAGTGGATGTGCAACGGGAGCATGACCCACG
CTTCGACACGGAGTACAAATCTCGAGGCTGCAACAATCAGTATCTGGTGACACACAAGCAAAGCCAGAG
GACATGTTGGAGAAGCAACAGATGTTGCTGCATGAGGGCCGTTGTGCAAGCATGAGGTGCAGTTGCGCC
TTTCTATGTCTATGACTGGTCAGCTCCACCCTCCAGTGTGCCAGCGCAAGGAGGGCGTTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >MR204731 protein sequence
Red=Cloning site Green=Tags(s)

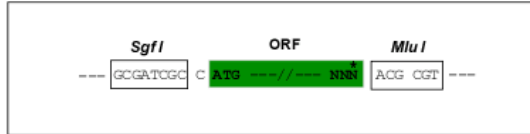
MKVFRRAWRHRVALGLGGLAFCGTTLLYLARCASEGETPSASGAARPRAKAFLAVLVASAPRAVERRTAV
 RSTWLAPERRGGPEDVWARFVAVGTGGLGSEERRALELEQAQHGDL LLLPALRDAYENLTAKVLAMLTWLD
 ERVDFEFVLKADDDSFARLDAI LVDLRAREPARRRRL YWGF SGRGRVKPGGRWREAAWQLCDYYLPYAL
 GGGYVLSADLVHYLR LRSREYLRAWHSEDVSLGTW LAPVDVQREHDPFDTEYKSRGCNNQYL VTHKQSPE
 DMLEKQQMLLHEGRLCKHEVQLRLSYVYDWSAPPSQCCQRKEGVP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC082998

ORF Size: 975 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [BC082998](#), [AAH82998](#)

RefSeq Size: 1599 bp

RefSeq ORF: 977 bp

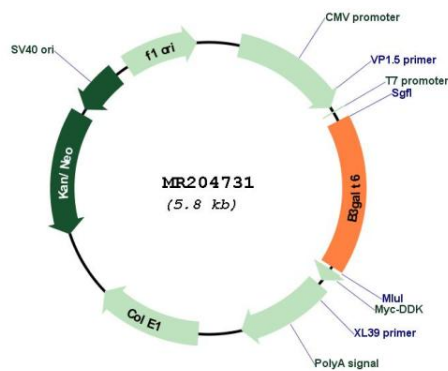
Locus ID: 117592

Cytogenetics: 4 E2

MW: 37 kDa

Gene Summary: Beta-1,3-galactosyltransferase that transfers galactose from UDP-galactose to substrates with a terminal beta-linked galactose residue. Has a preference for galactose-beta-1,4-xylose that is found in the linker region of glycosaminoglycans, such as heparan sulfate and chondroitin sulfate. Has no activity towards substrates with terminal glucosamine or galactosamine residues (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204731