

Product datasheet for MR219337

B3galt6 (NM_080445) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B3galt6 (NM_080445) 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:	>MR219337 representing NM_080445 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAAGGTATTCCGGCGCGCTTGGCGGCACCGGGTGGCGCTGGGCCTAGGCGGCCTGGCGTTCTGCGGCA
CCACTCTGTTGTACCTGGCGCGCTGCGCTTCCGAGGGCGAGACGCCCTCCGTTCCGGAGCCGCTCGGCC
CCGCGCTAAGGCCTTCTGGCGGTGCTGGTGGCCAGTGCGCCCGCGGGTTCGAGCGCCGACCCGACGTG
CGCAGCACGTGGCTGGCACCAGGAGCGTGGCGACCCGAGGACGTGTGGCGCGCTTCGCCGTGGCA
CTGGCGGCTTAGGCTCGGAGGAGCGCGCGCTCTTGAGCTCGAGCAGGCGCAGCACGGGGACCTGCTGCT
GCTGCCCGCCCTGCGCGACGCCTACGAGAACCTCACGGCCAAGTCTGGCCATGCTGACCTGGCTGGAT
GAGCGCGTGGACTTCGAGTTCGTGCTCAAGGCGGACGACGACTCCTTTGCGCGCCTGGACGCTATCCTGG
TGGACCTACGCGCACGGGAGCCCGCACGCCCGCGGCCCTCTACTGGGGCTTCTTTCCGGGCGCGGGCG
CGTCAAGCCGGGAGGTCGCTGGCGAGAAGCAGCCTGGCAACTCTGCGACTACTACCTGCCCTACGCGTTG
GGCGGTGGCTATGTCCTTCTGCGGACCTGGTGCATTACCTGCGCCTCAGCCGCGAGTACCTGCGCGGT
GGCACAGTGAAGACGTATCGCTGGGCACCTGGCTGGCACCAGTGGATGTGCAACGGGAGCAGCACCCACG
CTTCGACACGGAGTACAAATCTCGAGGCTGCAACAATCAGTATCTGGTGACACACAAGCAAAGCCAGAG
GACATGTTGGAGAAGCAACAGATGTTGCTGCATGAGGGCCGTTGTGCAAGCATGAGGTGCAGTTGCGCC
TTTCCTATGCTATGACTGGTCAGCTCCACCCTCCAGTGTGCCAGCGCAAGGAGGGCGTTCC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >MR219337 representing NM_080445
Red=Cloning site Green=Tags(s)

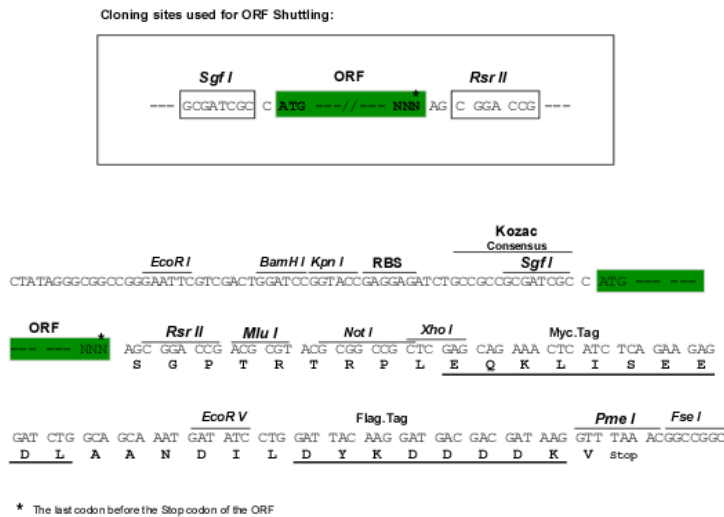
MKVFRRWRHRVALGLGGLAFCGTLLYLARCASEGETPSASGAARPRAKAFVLAVLASAPRAVERRTAV
 RSTWLAPERRGGPEDVWARFVAVGTGGLGSEERRALELEQAQHGDLLLLPALRDAYENLTAKVLAMLTWLD
 ERVDFEFVLKADDDSFARLDAILVDLRAREPARRRRLYWGFFSGRGRVKPGRWRWAAWQLCDYYLPYAL
 GGGYVLSADLVHYLRLSREYLRAWHSEVSLGTWLPVDVQREHDPFRDTEYKSRGCNNQYLVTHKQSPE
 DMLEKQQLLHEGRLCKHEVQLRLSYVYDWSAPPSQCCQRKEGVP

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9029_b10.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_080445

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.

RefSeq: [NM_080445.4](#), [NP_536693.1](#)

RefSeq Size: 3213 bp

RefSeq ORF: 978 bp

Locus ID: 117592

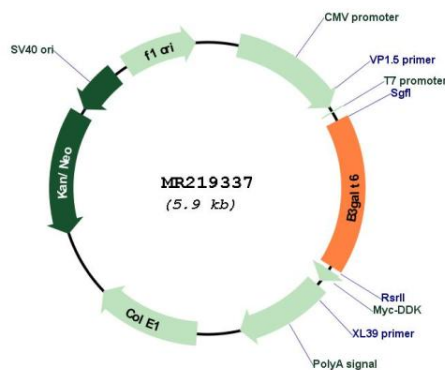
UniProt ID: [Q91Z92](#)

Cytogenetics: 4 E2

MW: 37.5 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 MR219337