

Product datasheet for MR206722

B3galt2 (NM_020025) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B3galt2 (NM_020025) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	B3galt2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206722 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC

ATGCTTCAGTGGAGAAGACGACACTGCTGCTTTGCAAAAATGACCTGGAGCCCTAAGAGGTCTCTGCTCCGGACTCCCCTTACGGGTGTGCTTTCTCTAGTGTCTCTTTGCTATGTTCTTGTTTTTCAATCATCATGACTGGTTACCAGGTAGACCAGGATTCAAAGAAAATCCTGTGACATACACTTCCGAGGATTCGTTCTACAAAAGTGGAGACAAACCATAGCTCCCTTCGGACCATCTGGAAAGAAGTAGCTCCTCAGACTCGAGGCCTCACACAGCAACTCCAGTAACACCGAGCTATCACCACAGGGAGTACAGGGCTGCAGAACAATTCAGTGCCAATGGCAGCATTTATAATGAAAAAGAACTGGACATCCAAACTCTTACCATTTCAAATATATTATCAATGAGCCTGAAAAATGCCAAGAGAAAAGTCCATTTTTAATACTATTAATAGCTGCAGAACCTGGACAAATCGAAGCAAGAAGAGCTATACGGCAAATTTGGGCAATGAACTTTGGCACCTGGCATCCAAATCATACGGTTTTTTTGTGGGCATAAGTATTAAGCTAAATGGCTATCTTCAACATGCAATTCAGAAGAAAAGCAGACAGTATCATGATAAATTCAGCAGGAATATTTAGATACATACTATAATCTGACCATTAACACTAATGGTATGAACTGGGTGCAACATACTGTCCACATACTCCCTATGTTATGAAAACGGACAGTGACATGTTTGTCAACACAGAATACTTAATACACAAGTTACTAAAGCCAGACCTGCCTCCTAGACATAACTATTTACTGGCTATCTAATGAGAGGATATGCACCGAACAGAAACAAGACAGTAAGTGGTACATGCCACCAGACCTTTACC CAAGTGAGCGCTACCCTGTCTTCTGCTCAGGAACTGGTTATGTGTTTTCTGGGGATCTGGCAGAGAAGATATTTAAGGTTTTCTTAGGTATCCGTCGTTTGCCTTGGAAAGATGTATGTAGGGATCTGTCTTGCCAAGTTGAGAGTTGATCCTGTGCCCTCCCAATGAGTTCGTGTTCAATCACTGGCGAGTTTCTTATTCAAGCTGTAATAACAGCCACCTAATTACCTCTCATCAGTTCCAACCTAGTGAAGTATAAAATACTGGAACCATTTACAACAAAATAAGCACACGCCTGTGCCAATGCAGCAAAGGAAAAGGCAGGCAGGTATCGACACCGCAAACTACAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATTACAAGGATGACGACGATAAGGTTTAA



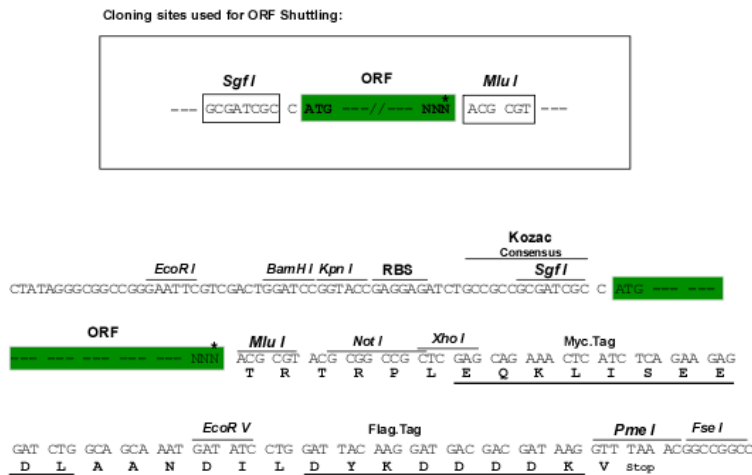
Protein Sequence: >MR206722 protein sequence
Red=Cloning site Green=Tags(s)

MLQWRRRHCCFAKMTWSPKRSLLRTPLTGVL SLVFLFAMFLFFNHHDWLPGRPGFKENPVTYTFRGFRST
 KSETNHSSLRTIWKEVAPQTLRPHTASNSNTELS PQQVTGLQNTLSANGSIYNEKGTGHPNSYHFKYII
 NEPEKCEKSPFLILLIAAEPGQIEARRAIRQTWGNETLAPGIQIRVFLLLGISIKLNGYLQHAIQEESR
 QYHDIIQQEYLDYYNLTIKTLMGMNWWATYCPHTPYVMKTDSDMFVNTEYL IHKLLKPDLP PRHNYFTG
 YLMRGYAPNRNKDSKWYMPDLYPSERYPVFCSGTGYVFSGDLAEKIFKVSLGIRRLHLEDVYVIGICLAK
 LRVDPPVPPNEFVFNHWRVSYSSCKYSHLITSHQFQPSSELIKYWNLQQNKHNACANA AKEKAGRYRHRK
 LH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_020025

ORF Size: 1269 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_020025.4](#)

RefSeq Size: 4578 bp

RefSeq ORF: 1269 bp

Locus ID: 26878

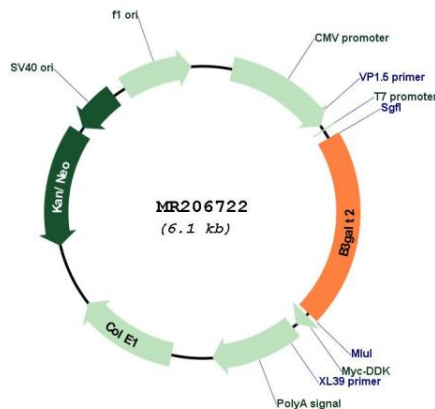
UniProt ID: [O54905](#)

Cytogenetics: 1 F

MW: 49.1 kDa

Gene Summary: Beta-1,3-galactosyltransferase that transfers galactose from UDP-galactose to substrates with a terminal beta-N-acetylglucosamine (beta-GlcNAc) residue. Can also utilize substrates with a terminal galactose residue, albeit with lower efficiency. Involved in the biosynthesis of the carbohydrate moieties of glycolipids and glycoproteins.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206722