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Product datasheet for MC217188

B3galnt2 (NM_178640) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B3galnt2 (NM_178640) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	B3galnt2
Synonyms:	A930105D20Rik; C80633; D230016N13Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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Fully Sequenced ORF:

>MC217188 representing NM_178640
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGAAACTGGCTGGTGCTGCTGTGCCCTTGCGTGCTCGGGGCCGCGCTGCACCTCTGGCACCTCTGGC
TCCGTTCCCCGCCGGACCCCCACAACACCGGGCCCAGCGCGGCAGATCAATCAGCCTTATTTCCTCACTG
GAAATTTAGCCACTATGATGTGGTAGTTGGTGTGTTATCAGCTCGAAATAACCACGAACTTCGAAATGTG
ATAAGGAACACCTGGCTGAAGAATTTGCTGCATCATCCTACATTAAGTCAACGTGTGCTTGTGAAGTTCA
TAATAGGTGCCCGTGGCTGTGAAGTGCCTGTGGAAGACAGGGAGGATCCTTACTCCTGCCGACTGCTCAA
CATCACCAATCCAGTTTTGAATCAAGAAATTGAGGCATTCAGCTTTCCTGAAGATGCCTCCTCATCTAGA
CTCTCTGAAGACCGAGTTGTCAGCGTGAGCTTCAGAGTTCTCTACCCAATCGTGATTACCAGTCTTGGAG
TGTTCTACGATGCCAGTGATGTTGGTTTTCAAAGGAACATCACAGTCAAGTTGTATCAGACAGAGCAGGA
GGAGGCCCTTTTCATCGCCCGATTCAGTCCTCCAAGTTGTGGCGTACAAGTGAACAAGCTCTGGTATAAG
CCCGTGGAACAGTTCATCTTACCAGAGAGCTTTGAAGGTACAATCGTGTGGGAAAGCCAAGATCTCCATG
GCCTCGTGTCCAGAAACCTGCACAGAGTGACAGTGAATGATGGAGGGGGTGTTCTCAGAGTCCTTGCAGC
TGGGGAAGGGGCACTGCCTCATGAATTCATGGAAGGTGTGGAGGGAGTTGCGGGTGGCTTTATCTACACT
GTTCAGGAAGGTGATGCACTATTAAGAAGCCTTTATTCTCGGCCCCAGAGACTTGCAGATCACATACAGG
ATCTGCAGGTGGAAGATGCCTTACTGCAGGAGGAAAGCAGTGTCCATGACGACATTGTCTTCGTGGATGT
TGTGGATACTTACCGGAATGTTCCTGCAAAATTACTGAACTTCTATAGATGGACTGTGGAATCCACCAGC
TTCGATTTGCTGCTCAAGACAGATGACGACTGTTATATAGACTTAGAAGCTGTGTTTAATAGAATTGCTC
AGAAGAATCTAGATGGGCCTAATTTTTGGTGGGGAAATTTCAGGTTGAATTGGGCAGTGGACAGAACCGG
AAAATGGCAGGAGCTGGAATACCCGAGCCCGGCTTACCCTGCCTTTGCATGTGGGTCAGGGTATGTGATC
TCCAAGGATATCGTTGACTGGCTGGCAGGCAACTCCAGAAGGTTAAAGACCTATCAGGGTGAAGATGTCA
GCATGGGCATTTGGATGGCAGCCATAGGACCTAAAAGACACCAGGACAGCCTGTGGCTGTGTGAGAAAAC
CTGTGAGACAGGAATGCTGTCTTCTCCTCAGTACTCACCAGAAGAGCTGAGCAAACTCTGGGAACTGAAG
GAGCTGTGTGGGGATCCTTGTCAGTGTGAAGCAAAAGTACGATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_178640

Insert Size: 1515 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_178640.2, NP_848755.1
RefSeq Size:	3681 bp
RefSeq ORF:	1515 bp
Locus ID:	97884
UniProt ID:	Q8BG28
Cytogenetics:	13 A1
Gene Summary:	Beta-1,3-N-acetylgalactosaminyltransferase that synthesizes a unique carbohydrate structure, GalNAc-beta-1-3GlcNAc, on N- and O-glycans. Has no galactose nor galactosaminyl transferase activity toward any acceptor substrate. Involved in alpha-dystroglycan (DAG1) glycosylation: acts coordinately with GTDC2/POMGnT2 to synthesize a GalNAc-beta3-GlcNAc-beta-terminus at the 4-position of protein O-mannose in the biosynthesis of the phosphorylated O-mannosyl trisaccharide (N-acetylgalactosamine-beta-3-N-acetylglucosamine-beta-4-(phosphate-6-)mannose), a carbohydrate structure present in alpha-dystroglycan, which is required for binding laminin G-like domain-containing extracellular proteins with high affinity (By similarity).[UniProtKB/Swiss-Prot Function]