

Product datasheet for **MG220287**

B4galnt4 (NM_177897) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: B4galnt4 (NM_177897) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: B4galnt4
Synonyms: BC038881; beta4GalNAcT4; Gm1095
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG220287 representing NM_177897
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCGTGGTTCCCGGTGAAGAAGGTCCGCAAGCAGATGAAGCTGCTGCTGTTGCTGCTCACCT
 GCGCCCGTGGCTCAGTATGTGCACCGGAGCCTGGTGCGCCCGGCCGCGCTACGCCAGCGGTGG
 CTACGGGCGAGATGGGAGAAGCTGACCGGTGTGACCGATAGCCGCGAGTCCGAGTGCCATCGTCCACA
 CAGAGGTCGGAGGACTCGAGTAAAAGTCATGAAGAGGAGCAGGCCGCCGAGGGGGCCCAAACATGC
 TGTTTCTGGAGGACCTAGGAAGCCACCCCACTGAACCTCACCCACCAGACACCCCATGGCGGAAGA
 GTCAAAGGACAGGTGAACCTGCACGTGTTTGGAGACTGGTGTGGAGGTGCTGTGGGCCACCTGAGACGG
 AATCTGCACTTCCCACTCTTCCCTCACACTCGTACTACGGTGACAAAGTTAGCTGTGTCCCTAAGTGGA
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 TTCGGATGACAACTCTGAGTTCTGGCTGAGTTTGGATGAGAGCCAGCAGCCGCCAGCTTGTAGCCTTT
 GTGGGCAAGACTGGCTCCGAGTGGACCGCACCTGGAGAATTCACCAAGTTCAGCTCCAGGTGTCTAAGC
 CACGTCCGCTCATGGCTCCCGGAGATACTACTTTGAAGTGTCCACAAGCAAGATGACAAGGGTTTCA
 CCATGTGGAAGTGGTTGGCGAGCTTCTCCTGCCTGGAAGTTCGAGATCATTGATTCTGCTCACATT
 TCCCTGTACACAGATGAGTCATCTCTGAAGATGGACCATGTGGCCATGTCCCTCAGTCTCCAGCCAGCC
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 CTTCTCACTCCTCGGATGGAACCTTTGAGCCTGGAGAATGTTCTGGAGCCCTGTGCCTATGCCCCACC
 TATATCTCAAGGATTTCCCATAGCCAGATACCAAGGACTACAGTTTGTGTACCTGTCTTCTATCTACC
 CCAATGACCATAACCCGTCTCACTCACATGGAGACAGACAACAAGTGTCTTACCCTGAGTCCCACTATA
 CCTGAAAGGTTTGGTTCTATAAATACATGAAAATGGACAAGGAGGAGGAGGAAGATGAGGAGGAA
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 CACTGAAACGACAGCCAGCCGACCCACCTACAAGTCTGCTGACGAGCAGACCTCAGACACTCC



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CGGGCACTGAATTGGGCCCCACGCCCTGCCCTCTTCTTGGGGCGAGCTCCACCTCCCCGAACCTGTGG
 AGAAGTCGCCTTCAAAGGTGTACGTGACCAGGGTCCGACCTGGACAGCGGGCTTCCCCGAGGGCATTGCG
 AGACTCACCTGGCCACCCTTCCCTGGCGTCTTCTGCGCCCCAAGCCTCTGCCAGAGTACAGTGC GG
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 TAAATGCAAAGCATGGCGGGCGCTTCTCGTCTACGCATCGTGAACGTGGAGAAGCGCCGCGACTCTGC
 ACGCGGGAGCCGCTTCTCCTGGAAGTGAATTGCAAGAGCGGGAGGGAGCCGCCAGCGCTATCCGAA
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 TCGCCCCGTGGTTCATGCGTCTGGGCTGTGGAAGCTCACCGTGGGACCCACATGGTTACTGGGAAGTGA
 TGGATTTGGCCTCTTGGGATCTACAAATCAGACTTTGACAGAGTAGGAGGCATGAACACTGAGGAGTTC
 CGTGACCAGTGGGAGGGCAGGACTGGGAATCTTTCAGAGGTCCTGCAGGCAGGGCTGGAGGTGGAGA
 GGCTTCGACTGCGACACTTCTACCACACTATCACTCGAAGCGAGGCATGTGGCCACACGCAGCCGCAA
 AGGTGCCCGCGCACAGCGATCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG220287 representing NM_177897
 Red=Cloning site Green=Tags(s)

MPWFPVKVVRKQMKLLLLLLLLLTCAAWLT YVHRS LVRPGRALRQRLGYGRDGEKLTGVTD S RGV RVPSS T
 QRSEDSSESHEEEQAPEGRGNMLFPGGPRKPPPLNLTHQTPPWREEFKGQVNLHVFEDWCGGAVGHLRR
 NLHFPLFPHTRTTVTKLAVSPKWKNYGLRIFGF IHPARDGDIQFSVASDDNSEFWLSLDESPAAAQLVAF
 VGKTGSEWTAPGEFTKFSQVSKPRRLMASRRYFELLHKQDDKGS DHVEVGWRAFLPGLKFEI IDSAHI
 SLYTDESSLKMDHVAHVPQSPASHIGGFPPQGEPSADMLHPDPRDTFFLTPRMEPLSLENVLEPCAYAPT
 YILKDFPIARYQGLQFVYLSFIYPNDHTRLTHMETDNKCFYRESPLYLERFGFYKYMMDKEEGEEDEEE
 EVQRRAFLLNPDFFLDEEDEQDLLDSLEPTDASVQQSHRTPPAASTGTTASPTPPTTSPLDEQTLRHS
 RALNWAPRPLPLFLGRAPPRPTVEKSPSKVYVTRVVRPQRASPRALRDSPPFPFVFLRPKPLPRVQLR
 VPPHPPRTQGYRTSGPKVTELKPPVRAQTSQGGREGQLHGQGLMVPTVDLNSSVETQPVTSFLSLSQVSR
 PQLPGEEGEEGEDGAPGDEATSEDESEEEPEAAGRPLGRWREDAINWQRTFSVGAMDFELLRSDWDLRC
 NVSGNLQLPEAEAVDVVAQYMERLNAKHGGRFSLLRIVNVEKRRDSARGSRFLLELELQERGGSRQRLSE
 YVFLRPLGARVGEDGEDGESPEPPPAASIHPSRPELCPRLHLAWRQDVMVHFIVPVKNQARVWVQFLADMT
 ALHVHTGDSYFNILVDFESEDMDVERALRAAQLPRYQYLKRTGNFERSAGLQTVDAVEDPSSIVFLCD
 LHIHFPPNILDSIRKHCEVEKLAFAFVVMRLGCGSSPWPDPHGYWEVNGFGLFGIYKSDFD R VGGMNT EEF
 RDQWGGEDWELLD RVLQAGLEVERLRLRHFYHHYHYSKRGMWATRSRK GARAQRS

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

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:	<ol style="list-style-type: none">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_177897.4
RefSeq Size:	3105 bp
RefSeq ORF:	3105 bp
Locus ID:	330671
UniProt ID:	Q766D5
Cytogenetics:	7 F5
Gene Summary:	Transfers N-acetylgalactosamine (GalNAc) from UDP-GalNAc to N-acetylglucosamine-beta-benzyl with a beta-1,4-linkage to form N,N'-diacetyllactosediimine, GalNAc-beta-1,4-GlcNAc structures in N-linked glycans and probably O-linked glycans.[UniProtKB/Swiss-Prot Function]