

## Product datasheet for **MC203386**

### **B4gat1 (NM\_175383) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	B4gat1 (NM_175383) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	B4gat1
Synonyms:	1500032M01Rik; B3gnt1; B3gnt6; BETA3GNT1; iGAT; iGNT
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC069927  
 GCGGTAATCCGGGCTTGC GG TGGCTGGCAGAGGCTACGGCCCGGTGGTCCCTGCTTCGTGCCGGGATCC  
 CCGAGAGCCATGCAAAATGCCTACGCCATCCGATGCGCCTTCTACCAGCTGCTGCTGGCCGCGCTCATGT  
 TGGTGGCAATGCTGCAGCTGCTACCTATCGTGCTCTCCGGACTGCACGGCCAGGAGGAGCAGGAACA  
 GTATTTTCGAGTTCTTCCCGCGTCTCCGCGATCCGTAGACCAGGTAAGTCTCAACTCCGCACCGCACTG  
 GCCTCCGGAGGCGTTCTGGATGCCAGCGCGGATTATCGCGTCTACAGGGTCTATTGAAGACCACCATGG  
 ACCCAACGATGTCATCTTAGCTACGCATGCCAGTGTGGACAACCTACTACACCTGTCGGACTTCTGGA  
 GCCTGGGAGGGTCCGCTGTCCGTTTCAGTGTTTCGCGGCCACCAAGAGGAGGCGCAGCTGGCCACGGTG  
 CTGGCCTACGCGCTGAGTAGCCACTGCCCCGAGATGCGCGCTAGGGTCGCCATGCACCTCGTGTGCCCT  
 CGCGCTATGAGGCTGCTGTGCCGACCCCGAGAACCTGGGGAGTTTGCCTGCTGCGGTCTGCCAAGA  
 GGTCTTTGACAAGCTAGCCAGGGTGGCCAGCCCGGGATTAATTATGCACTAGGGACCAACACCTCTAT  
 CCCAATAACCTGTTAAGGAATCTGGCTCGGGAAGAGGCCAACTACGCCCTGGTGATTGATGTGGACATGG  
 TGCCACGGAAGGGCTGTGGAGAGGCTGAGGAAATGTTGGATCAGAGCAATCACTGGGATGGCACAGC  
 CCTGGTGGTGCATTTGAAATCCGCCGGTCCCGCGAATGCCGATGAACAAGAACGAGCTGGTGCAG  
 CTCTATCAGTGGGCGAAGTCCGCCCTTCTATTATGGGCTGTGCACGCCTTGCCATGCGCCCACTAACT  
 ACTCCCGCTGGGTCAACCTGCCAGAGGAGAGCTTGTGAGACCTGCCTAGTGGTGCCTGGAGGGACCC  
 CTGGGAACCATTTTATGTGGCTGGAGGAAAGGTGCCACATTTGACGAACGCTTTCGGCAGTATGGTTTC  
 AATCGAATCAGCCAGGCTTGTGAGCTGCACGTGGCAGGGTTAATTTTGGGTGCTGAATGAAGGTTTTC  
 TGGTTCATAAGGGATTCAAGGAGCATTGAAGTCCATCCCCAAAAGGAGGCTGAAAACAGCGCAATAA  
 GATCCTTTACCGCCAGTTCAAACAGGAGTTGAAGGCTAGTACCCCAACTCTCCCACCGATGCTGAGTC  
 CTTGCTTCCATGGTCTGAGAATTGTAGTATCTGGCTCCAGGCTGACTGGGGTAAGAAACATGCCTCC  
 ACTTTACAGAGGTAGCTATGGGTTTGAACACTGGACTGACTATGGGGTCTGGGAGCCAAGTCTCAGC  
 TTTACCCTAACTAGCTGTGTGGCCTTGAGCAAATACTATTACTTCTCTGAGCCTCCGTTACGCCGCTG  
 TAAAAAGGGAGGTGAAAATACCTACCTACAGAACTGTTGGCTCAGATGAGACGCTGTATGTGTAACAT  
 CCTGTAACCTTCTGACAAATGTGAAGTATTATTAATATTGCTACAGTGTATTATGATATTGTTACTATT  
 AACCATGTTGGGTGGATAGCGGCAGAGCAAAAAGTTTGAATGGGCTAGAGGTGGGAAGCTTGAGTGTATA  
 ATAAAAAGAGGCTTTTGGAAAGAAAGATGAAAACGTAGAATGTAGTGCTCAGAACGTTTCCCGTTCTCTC  
 ATGCCCTTCCGCTTCCGCTCCGCCCTCCGCCCTCCGAGATCCCTGAAGGAGGAAAGAGATAAAGGTTAA  
 AGTCCCAGATCTGTGCCCTCCAGTAGGTTGGGCTGCTCATTTGCCTTCGGATGACATTATGTAATAAAC  
 GAATGTCACACCCAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_175383

**Insert Size:** 1248 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: [BC069927](#), [AAH69927](#)

RefSeq Size: 1993 bp

RefSeq ORF: 1248 bp

Locus ID: 108902

UniProt ID: [Q8BWP8](#)

Cytogenetics: 19 A

**Gene Summary:** Beta-1,4-glucuronyltransferase involved in O-mannosylation of alpha-dystroglycan (DAG1). Transfers a glucuronic acid (GlcA) residue onto a xylose (Xyl) acceptor to produce the glucuronyl-beta-1,4-xylose-beta disaccharide primer, which is further elongated by LARGE1, during synthesis of phosphorylated O-mannosyl glycan. Phosphorylated O-mannosyl glycan is a carbohydrate structure present in alpha-dystroglycan (DAG1), which is required for binding laminin G-like domain-containing extracellular proteins with high affinity (PubMed:25279699). Required for axon guidance; via its function in O-mannosylation of alpha-dystroglycan (DAG1) (PubMed:23217742).[UniProtKB/Swiss-Prot Function]