

## Product datasheet for **TP506563**

### **B4gat1 (NM\_175383) Mouse Recombinant Protein**

#### Product data:

**Product Type:** Recombinant Proteins  
**Description:** Purified recombinant protein of Mouse beta-1,4-glucuronyltransferase 1 (B4gat1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug  
**Species:** Mouse  
**Expression Host:** HEK293T  
**Expression cDNA Clone or AA Sequence:** >MR206563 protein sequence  
**Red**=Cloning site **Green**=Tags(s)

MQMSYAIRCAFYQLLLAALMLVAMLQLLYLSLLSGLHGQEEQEYFEFFPPSPRSVDQVKSQRLTALASG  
GVLASGDYRVYRGLLKTMDPNDVILATHASVDNLLHLSGLLERWEGPLSVSVFAATKEEAQLATVLAY  
ALSSHCPEMRARVAMHLVCPSTRYEA AVDPREPGEFALLRSCQEVFDKLARVAQPGINYALGTNTSYPN  
LLRNLAREEANYALVIDVDMVPSEGLWRGLREMLDQSNHWDGTALVVPFAFEIRRSRRMPMNKNELVQLYQ  
VGEVRPFYGLCTPCHAPTNYSRWVNLPEESLLRPAYVVPWRDPWEPFYVAGGKVPTFDERFRQYGFNRI  
SQACELHVAGFNFEVLNEGFLVHKGFKEALKFHPQKEAENQRNKILYRQFKQLKARYPNSPHR

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-MYC/DDK  
**Predicted MW:** 47.4 kDa  
**Concentration:** >0.05 µg/µL as determined by microplate BCA method  
**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining  
**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol  
**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.  
**Storage:** Store at -80°C after receiving vials.  
**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.  
**RefSeq:** [NP\\_780592](#)  
**Locus ID:** 108902  
**UniProt ID:** [Q8BWP8](#)



[View online »](#)

RefSeq Size: 2035

Cytogenetics: 19 A

RefSeq ORF: 1248

Synonyms: 1500032M01Rik; B3gnt1; B3gnt6; BETA3GNT1; iGAT; iGNT

**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]