

Product datasheet for **MR206563L4V**

B4gat1 (NM_175383) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	B4gat1 (NM_175383) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	B4gat1
Synonyms:	1500032M01Rik; B3gnt1; B3gnt6; BETA3GNT1; iGAT; iGNT
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_175383
ORF Size:	1248 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR206563).
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.
RefSeq:	NM_175383.2 , NP_780592.1
RefSeq Size:	2035 bp
RefSeq ORF:	1248 bp
Locus ID:	108902
UniProt ID:	Q8BWP8
Cytogenetics:	19 A



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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]