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# Product datasheet for MR206563L4

## B4gat1 (NM_175383) Mouse Tagged Lenti ORF Clone

### Product data:

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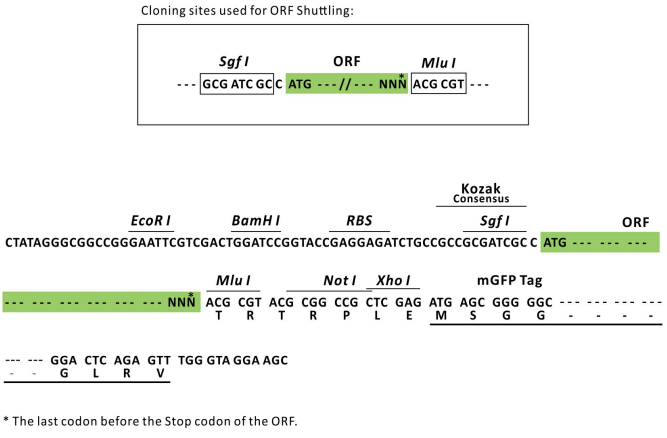
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | B4gat1 (NM_175383) Mouse Tagged Lenti ORF Clone |
| **Tag:** | mGFP |
| **Symbol:** | B4gat1 |
| **Synonyms:** | 1500032M01Rik; B3gnt1; B3gnt6; BETA3GNT1; iGAT; iGNT |
| **Mammalian Cell Selection:** | Puromycin |
| **Vector:** | pLenti-C-mGFP-P2A-Puro (PS100093) |
| **E. coli Selection:** | Chloramphenicol (34 ug/mL) |
| **ORF Nucleotide Sequence:** | The ORF insert of this clone is exactly the same as(MR206563). |
| **Restriction Sites:** | SgfI-MluI |
| **Cloning Scheme:** | |

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| **ACCN:** | NM_175383 |
| **ORF Size:** | 1248 bp |

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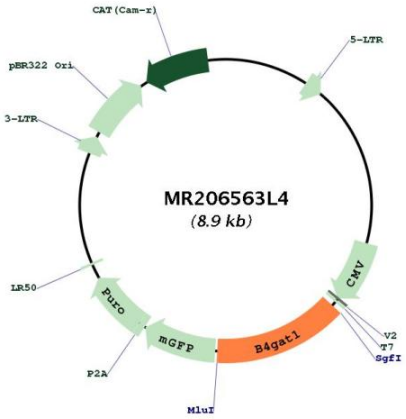
|---|---|
| **OTI Disclaimer:** | The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. 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. |
| **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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_175383.2, NP_780592.1 |
| **RefSeq Size:** | 2035 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 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] |

## Product images:




Circular map for MR206563L4