

## Product datasheet for MC207764

### B3gat1 (NM\_029792) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** B3gat1 (NM\_029792) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** B3gat1  
**Synonyms:** 0710007K08Rik; AI846286; GlcAT-P; Glcatp; Hnk1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC207764 representing NM\_029792  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCCGAAGAGACGGGACATCCTTGCATTGTCCTCATCGTGCTTCCTGGACACTGCTCATCACCGTCT  
 GGCACCAGAGCAGCCTCGCACCTCTGCTTGTGTGCACAAGGATGAGGGAAGTGACCCCCGCATGAGGC  
 ACCACCTGGTGGGACCCTAGGGAGTACTGCATGTCCGACCGTGACATCGTGGAAGTGGTGGCAGAGAG  
 TACGTGTACACGAGGCCGCCACCCTGGTCCGACACGCTGCCACCATCCATGTGGTGACGCCACCTACA  
 GTAGACCGGTGCAGAAGGCAGAGCTGACGCGAATGGCCAACACACTACTGCATGTGCCAACCTTCACTG  
 GCTAGTGGTGGAGGATGCTCCACGCAGGACGCCCTCACCGCGCGCTTGTGCGGACACTGGCCTCAAC  
 TACACACACCTGCACGTAGAGACACCACGCAACTATAAGCTGCGAGGTGATGCCCGAGACCTCGCATCC  
 CACGTGGCACCATGCAGCGCAACCTGGCACTGCGCTGGCTGCGGGAGACCTTCCCACGGAACCTACTCA  
 GCCAGGCGTAGTGTACTTCGCGGATGATGACAACACGTACAGTCTGGAGCTCTTTGAAGAGATGCGCAGC  
 ACAAGAAGGGTGTCCGTGTGGCCTGTGGCCTTTGTTGGTGGCCTTCGGTATGAGGCCACCGGTGAATG  
 GGGCAGGGAAGTGGTTGGCTGGAAGACAGTCTTCGACCCACCGGCCCTTTCGAATAGACATGGCTGG  
 ATTTGCTGTCAACCTCCGGCTCATCTTGCAGCGAAGTCAAGCCTACTTTAAGCTACGTGGTGTGAAGGGA  
 GGCTACCAGGAAAAGCAGTCTCCTTCGAGAACTTGTACCCTCAATGACCTGGAGCCCAAGGCAGAAACT  
 GTACCAAGATCTTGGTCTGGCATAACGAAACAGAGAAGCCAGTGTGGTCAATGAGGGGAAGAAGGGCTT  
 CACCGACCCCTCAGTGGAGAT**TGA**

**ACGGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_029792



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<b>Insert Size:</b>	1005 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_029792.1</a> , <a href="#">NP_084068.1</a>
<b>RefSeq Size:</b>	3474 bp
<b>RefSeq ORF:</b>	1005 bp
<b>Locus ID:</b>	76898
<b>UniProt ID:</b>	<a href="#">Q9CW73</a>
<b>Cytogenetics:</b>	9 A4
<b>Gene Summary:</b>	<p>Involved in the biosynthesis of L2/HNK-1 carbohydrate epitope on glycoproteins. Can also play a role in glycosaminoglycan biosynthesis. Substrates include asialo-orosomucoid (ASOR), asialo-fetuin, and asialo-neural cell adhesion molecule. Requires sphingomyelin for activity: stearyl-sphingomyelin was the most effective, followed by palmitoyl-sphingomyelin and lignoceroyl-sphingomyelin. Activity was demonstrated only for sphingomyelin with a saturated fatty acid and not for that with an unsaturated fatty acid, regardless of the length of the acyl group.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and uses a downstream start codon compared to variant 1. It encodes isoform 2, which has a shorter N-terminus compared to isoform 1.</p>