

Product datasheet for MC217917

B3gat1 (BC023052) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
 Product Name: B3gat1 (BC023052) Mouse Untagged Clone
 Tag: Tag Free
 Symbol: B3gat1
 Synonyms: GlcAT-P, HNK-1
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 Fully Sequenced ORF: >BC023052
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCCGACCGTGACATCGTGAAGTGGTGCACAGAGTACGTGTACACGAGGCCGCCACCCTGGTCCG
 ACACGCTGCCACCATCCATGTGGTGACGCCACCTACAGTAGACCGGTGCAGAAGGCAGAGCTGACGCG
 AATGGCCAACACACTACTGCATGTGCCAACCTTCACTGGCTAGTGGTGGAGGATGCTCCACGCAGGACG
 CCCCTCACGCGCGCTTGTGCGCGACACTGGCCTCAACTACACACACCTGCACGTAGAGACACCACGCA
 ACTATAAGCTGCGAGGTGATGCCGAGACCCTCGCATCCACGTGGCACCATGCAGCGCAACCTGGCACT
 GCGCTGGCTGCGGGAGACCTTCCCACGGAACCTACTCAGCCAGGCGTAGTGTACTTCGCGGATGATGAC
 AACACGTACAGTCTGGAGCTCTTTGAAGAGATGCGCAGCACAAGAAGGGTGTCCGTGTGGCCTGTGGCCT
 TTGTTGGTGGCCTTCGGTATGAGGCCCCACGGGTGAATGGGGCAGGAAAGTGGTTGGCTGGAAGACAGT
 CTTGACCCCCACCGCCCTTTGCAATAGACATGGCTGGATTTGCTGTCAACCTCCGGCTCATCTTCGAG
 CGAAGTCAAGCCTACTTTAAGCTACGTGGTGTGAAGGGAGGCTACCAGGAAAGCAGTCTCCTTCGAGAAC
 TTGTCACCCTCAATGACCTGGAGCCCAAGGCAGCAAAGTGTACCAAGATCTTGGTCTGGCATAACACGAAC
 AGAGAAGCCAGTGTGGTCAATGAGGGGAAGAAGGGCTTACCAGCCCTCAGTGGAGATCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
 ACCN: BC023052
 Insert Size: 834 bp



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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:	<ol style="list-style-type: none">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:	BC023052 , AAH23052
RefSeq Size:	1709 bp
RefSeq ORF:	833 bp
Locus ID:	76898
Cytogenetics:	9 A4
Gene Summary:	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]