

Product datasheet for **MG203727**

B3gat1 (BC023052) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: B3gat1 (BC023052) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: B3gat1
Synonyms: GlcAT-P, HNK-1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG203727 representing BC023052
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCCGACCGTGACATCGTGAAGTGGTGCGCACAGGTACGTGTACACGAGGCCGCCACCCTGGTCCG
 ACACGCTGCCACCATCCATGTGGTGACGCCACCTACAGTAGACCGGTGCAGAAGGCAGAGCTGACGCG
 AATGGCCAACACACTACTGCATGTGCCAACCTTCACTGGCTAGTGGTGGAGGATGCTCCACGCAGGACG
 CCCCTCACGCGCGCTTGTGCGGACACTGGCCTCAACTACACACCTGCACGTAGAGACACCACGCA
 ACTATAAGCTGCGAGGTGATGCCGAGACCCTCGCATCCACGTGGCACCATGCAGCGCAACCTGGCACT
 GCGCTGGCTGCGGAGACCTTCCACGGAACCTACTCAGCCAGGCGTAGTGTACTTCGCGGATGATGAC
 AACACGTACAGTCTGGAGCTCTTTGAAGAGATGCGCAGCAAGAAGGGTGTCCGTGTGGCTGTGGCCT
 TTGTTGGTGGCCTTCGGTATGAGGCCCCACGGTGAATGGGGCAGGAAAGTGGTTGGCTGGAAGACAGT
 CTTGACCCCCACCGCCCTTTGCAATAGACATGGCTGGATTTGCTGTCAACCTCCGGCTCATCTTGACG
 CGAAGTCAAGCCTACTTTAAGCTACGTGGTGTGAAGGGAGGCTACCAGGAAAGCAGTCTCCTTCGAGAAC
 TTGTCACCCTCAATGACCTGGAGCCCAAGGCAGCAAATGTACCAAGATCTTGGTCTGGCATAACAGAAC
 AGAGAAGCCAGTGTGGTCAATGAGGGGAAGAAGGGCTTCACCGACCCCTCAGTGGAGATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >MG203727 representing BC023052
 Red=Cloning site Green=Tags(s)

MSDRDIVEVVRTEYVYTRPPPWSDTLPTIHVVTPYSRPVQKAELTRMANTLLHVPNLHWLVVEDAPRRT
 PLTARLLRDTGLNYTHLHVETPRNYKLRGDARDPRIPRGTMQRNLALRWLRETFPRNSTQPGVVYFADDD
 NTYSLELFEEMRSTRRVSVWPVAFVGGRLRYEAPRVNGAGKVVGWKTVFDPHRPFAIDMAGFAVNLRLILQ
 RSQAYFKLRGVKGGYQESSLLRELVTLNDLEPKAANCTKILVWHTRTEKPVLVNEGKKGFTDPSVEI

TRTRPLE - GFP Tag - V

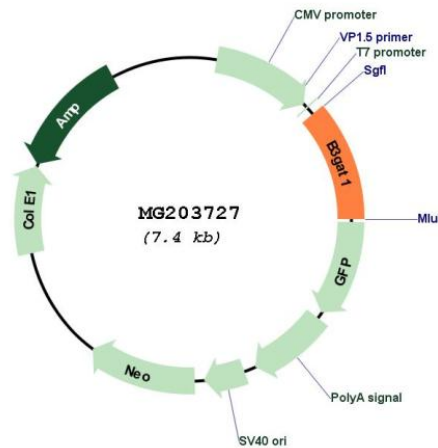
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: BC023052

ORF Size: 833 bp

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:	<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-orosomuroid (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]