

## Product datasheet for MR204972

### B3gat3 (NM\_024256) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	B3gat3 (NM_024256) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	B3gat3
Synonyms:	2810405M13Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204972 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAAGCTGAAGCTGAAGAACGTGTTTCTTGCCTACTTCCTGGTGTGATCGCCGGCCTCCTCTACGCTC  
TGGTGCAGCTCGGCCAGCCTTGCAGCTGCCTCCCTCCGCTTCGAGCTGCAGCTGAGCAGCTTCGGCAGAA  
GGACCTGAGGATATCCCAGTTGCAAGCTGATCTCCGTCGCCACCCCTGTCCAGCCCAGCCCCCTGAA  
CCTGAGGCCCTGCCTACTATCTATGTATTACCCACCTACGCCAGGCTGGTACAAAAGGCAGAGCTGG  
TTCGGCTGTCCCAGACCCTGAGCTTGGTGCCCGTCTACTGGCTGCTAGTGGAGGACGCTGAGAGCCC  
TACCCCGCTGGTCTCGGGGCTGTTGGCCGCTCTGGTCTCCTCTTACACACCTGGCTGTCTTACCCCC  
AAGGCTCAACGGCTTAGGGAAGGTGAGCCAGGCTGGGTCCGGCCCCGAGGAGTGGAACAGCGCAATAAGG  
CCCTCGACTGGCTCCGAGGAAAAGGGGGTGTGTTGGGGGGGAGAAGGATCCACCGCCACCAGGGACCCA  
AGGAGTCGTGATTTTGTGACGATGACAACACCTACAGCCGGGAGCTCTTAAGGAGATGCGTTGGACT  
CGCGGTGTCTCAGTGTGGCCTGTGGGCTGGTGGGTGGCTGCGATTTGAAGTCTCAGGTACAGGATG  
GCCGCTGTGGGTTCCACACAGCATGGGAACCAACAGGCCCTTCCCTTGGACATGGCGGGATTTC  
GGTTGCCCTGCCCTTGTATTGGCTAAGCCCAATGCCAGTTTGTGCTACTGCACCCCGGGGCCACCTG  
GAAAGTAGTCTCCTGAGCCACCTTGTAGATCCCAAGGACCTGGAGCCACGGGCTGCCAATTGTAATCAGG  
TACTGGTATGGCACACCCGGACAGAGAAACCTAAGATGAAGCAGGAGGAGCAGCTACAACGGCAGGGCCA  
GGGCTCAGACCCAGCCATTGAGGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204972 protein sequence  
 Red=Cloning site Green=Tags(s)

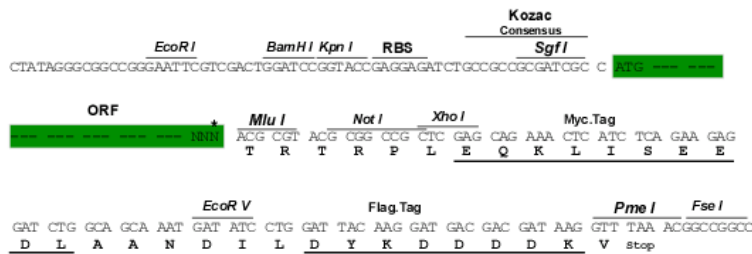
MKLKLNKVFAYFLVSIAGLLYALVQLGQPCDCLPPLRAAAEQLRQKDLRISQLQADLRPPVPVPAQPPE  
 PEALPTIYVITPTYARLVQKAELVRLSQTLSLVPRLHWLLVEDAESPTPLVSGLLAASGLLFTHLAVLTP  
 KAQRLREGEPGWVRPRGVEQRNKALDWLRGKGGAVGGEKDPPTGQGVVYFADDNTYSRELFKEMRWT  
 RGVSVWPVGLVGGLRFEGPQVQDGRVVFHTAWEPNRPFLDMAGFAVALPPLLAKPNAQFDATAPRGHL  
 ESSLLSHLVDPKDLEPRAANCTQVLVWHTRTEKPKMKQEEQLQRQGQSDPAIEV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_024256

**ORF Size:** 1008 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:**

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:** [NM\\_024256.2](#), [NP\\_077218.1](#)

**RefSeq Size:** 1599 bp

**RefSeq ORF:** 1008 bp

**Locus ID:** 72727

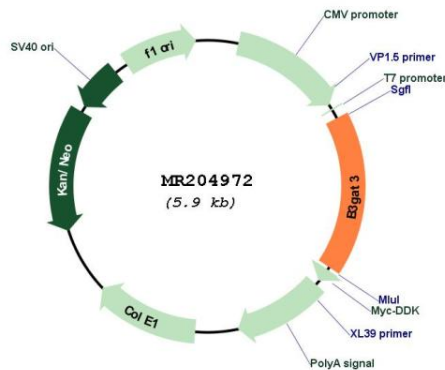
**UniProt ID:** [P58158](#)

**Cytogenetics:** 19 A

**MW:** 37.1 kDa

**Gene Summary:** Glycosaminoglycans biosynthesis. Involved in forming the linkage tetrasaccharide present in heparan sulfate and chondroitin sulfate. Transfers a glucuronic acid moiety from the uridine diphosphate-glucuronic acid (UDP-GlcUA) to the common linkage region trisaccharide Gal-beta-1,3-Gal-beta-1,4-Xyl covalently bound to a Ser residue at the glycosaminylglycan attachment site of proteoglycans. Can also play a role in the biosynthesis of I2/HNK-1 carbohydrate epitope on glycoproteins. Stimulates 2-phosphoxylose phosphatase activity of PXYLP1 in presence of uridine diphosphate-glucuronic acid (UDP-GlcUA) during completion of linkage region formation.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR204972