

## Product datasheet for **RG203223**

### **B3GAT3 (NM\_012200) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** B3GAT3 (NM\_012200) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** B3GAT3  
**Synonyms:** GLCATI; glcUAT-I; JDSCD  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG203223 representing NM\_012200  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAAGCTGAAGCTGAAGAACGTGTTTCTCGCCTACTTCCTGGTGTGATCGCCGGCCTCCTCTACGCGC  
 TGGTACAGCTCGGCCAGCCATGTGACTGCCTTCTCCCTGCGGGCAGCAGCCGAGCAGCTACGGCAGAA  
 GGATCTGAGGATTTCCAGCTGCAAGCGGAACCTCCGACGGCCACCCCTGCCCTGCCAGCCCCCTGAA  
 CCCGAGGCCCTGCCTACTATCTATGTTGTTACCCACCTATGCCAGGCTGGTACAGAAGGCAGAGCTGG  
 TAGACTGTCCCAGACTGAGCCTGGTCCCGGCTGCATTGGCTGCTGGTGGAGGATGCTGAGGGTCC  
 CACCCCGCTGGTCTCAGGGCTGCTGGCTGCCTCTGGCCTCCTTTCACACACTGGTGGTCTCACGCC  
 AAAGCCCAGCGGCTTCGGGAGGGCGAGCCTGGTGGGTTTCATCCCGTGGTGTGAGCAGCGGAACAAGG  
 CCCTGGACTGGCTCCGGGCAGAGGGGGTGTGTGGTGGGAGAGGACCCACCACCAGGGACCCA  
 AGGAGTCGTCTACTTTGCTGACGATGACAACACCTACAGCCGGGAGCTGTTTGAGGAGATGCGCTGGACC  
 CGTGGTGTCTCAGTGTGGCCTGTGGGCTGGTGGGCGCCTGCGATTGAGGGCCCTCAGGTACAGGACG  
 GCCGGTAGTGGGCTCCACACAGCATGGGAGCCAGCAGGCCCTCCCTGTGGATATGGCTGGATTTGC  
 CGTGGCCCTGCCCTTGTGTTAGATAAGCCCAATGCCAATTTGATTCCACCGCTCCCGGGGCCACCTG  
 GAGAGCAGTCTTCTGAGCCACCTTGTGGATCCCAAGGACCTGGAGCCACGGGCTGCCAATGCACTCGGG  
 TACTGGTGTGGCATACTCGGACAGAGAAGCCCAAGATGAAGCAGGAGGAGCAGCTGCAGCGGCAGGGCCG  
 GGGCTCAGACCCAGCAATTGAGGTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_012200

**ORF Size:** 1005 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\\_012200.4](#)

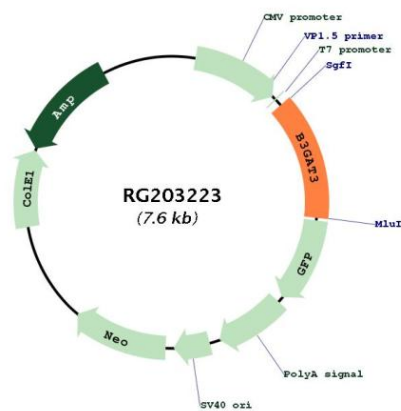
**RefSeq Size:** 1456 bp

**RefSeq ORF:** 1008 bp

**Locus ID:** 26229

UniProt ID:	<a href="#">O94766</a>
Cytogenetics:	11q12.3
Domains:	Glyco_transf_43
Protein Families:	Transmembrane
Protein Pathways:	Chondroitin sulfate biosynthesis, Heparan sulfate biosynthesis, Metabolic pathways
Gene Summary:	The protein encoded by this gene is a member of the glucuronyltransferase gene family, enzymes that exhibit strict acceptor specificity, recognizing nonreducing terminal sugars and their anomeric linkages. This gene product catalyzes the formation of the glycosaminoglycan-protein linkage by way of a glucuronyl transfer reaction in the final step of the biosynthesis of the linkage region of proteoglycans. A pseudogene of this gene has been identified on chromosome 3. [provided by RefSeq, Dec 2013]

### Product images:



Circular map for RG203223