

## Product datasheet for **RC237393**

### **B3GAT3 (NM\_001288723) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** B3GAT3 (NM\_001288723) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** B3GAT3  
**Synonyms:** GLCATI; glcUAT-I; JDSCD  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC237393 representing NM\_001288723  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAAGCTGAAGCTGAAGAACGTGTTTCTCGCCTACTTCTGGTGTGCGATCGCCGGCCTCCTCTACGGC  
 TGGTACAGCTCGCCAGCCATGTGACTGCCTTCTCCCTGCGGGCAGCAGCCGAGCAGTACGGCAGAA  
 GGATCTGAGGATTTCCAGCTGCAAGCGGAACCCGACGGCCACCCCTGCCCTGCCAGCCCCCTGAA  
 CCCGAGGCCCTGCCTACTATCTATGTTGTTACCCACCTATGCCAGGCTGGTACAGAAGGCAGAGCTGG  
 TACGACTGTCCCAGACACTGAGCCTGGTGCCCGGCTGCATTGGCTGCTGGTGGAGGATGCTGAGGGTCC  
 CACCCCGTGGTCTCAGGGCTGCTGGCTGCCTCTGGCCTCCTCTTACACACCTGGTGGTCTCACGCCC  
 AAAGCCCAGCGGCTTCGGGAGGGCGAGCCTGGCTGGGTTTCATCCCGTGGTGTGAGCAGCGGAACAAGG  
 CCCTGGACTGGCTCCGGGGCAGAGGGGTGCTGTGGTGGGAGAAGGACCCACCACCAGGGACCCA  
 AGGAGTCGTCTACTTTGCTGACGATGACAACACCTACAGCCGGGAGCTGTTTGAGGAGATGCGCTGGACC  
 CGTGGTGTCTCAGTGTGGCTGTGGGGCTGGTGGGCGCCTGCGATTGAGGGCCCTCAGGTACAGGACG  
 GCCGGTAGTGGGCTTCCACACAGCATGGGAGCCAGCAGGCCCTCCCTGTGGATATGGCTGGATTGCG  
 CGTGGCCCTGCCCTTGTGTTAGATAAGCCAATGCCCAATTTGATTCCACCGCTCCCGGGGCCACCTG  
 GAGAGCAGTCTTCTGAGCCACCTTGTGGATCCCAAGGACCTGGAGCCACGGGCTGCCAACTGCACTCGGA  
 CAGAGTCTCGCTGTGTCACCCAGGCTGGAGTGACG

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC237393 representing NM\_001288723  
 Red=Cloning site Green=Tags(s)

MKLKLNKVFAYFLVSIAGLLYALVQLGQPCDCLPPLRAAAEQLRQKDLRISQLQAE LRRPPAPAPQPE  
 PEALPTIYVVTPTYARLVQKAELVRLSQTLSLVPRLHWLLVEDAEGPTPLVSGLLAASGLLFTHLVVLTP  
 KAQRLREGEPGWVHPRGVEQRNKALDWLRGRGGAVGGEKDPPTGQGVVYFADDNTYSRELFEE MRWT  
 RGVSVWPVGLVGGLRFEGPQVQDGRVVGFHTAWEPSRPFVDMAGFAVALPLLLDKPNAQFDSTAPRGHL  
 ESSLLSHLVDPKDLEPRAANCTRTE SRCTVQAGVQ

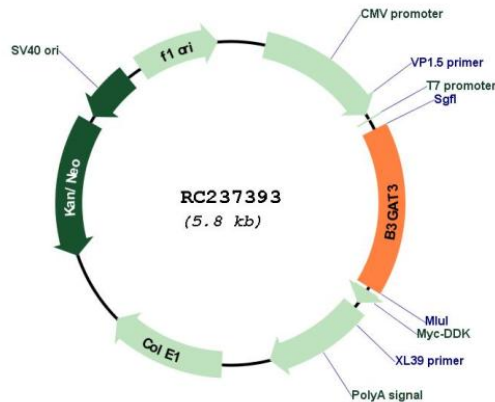
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001288723

**ORF Size:** 945 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_001288723.2</a>
<b>RefSeq Size:</b>	2098 bp
<b>RefSeq ORF:</b>	948 bp
<b>Locus ID:</b>	26229
<b>UniProt ID:</b>	<a href="#">O94766</a>
<b>Cytogenetics:</b>	11q12.3
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Chondroitin sulfate biosynthesis, Heparan sulfate biosynthesis, Metabolic pathways
<b>MW:</b>	35.1 kDa
<b>Gene Summary:</b>	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]