

## Product datasheet for **RG237393**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	B3GAT3 (NM_001288723) 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:	>RG237393 representing NM_001288723. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC CGGATCGCC
ATGAAGCTGAAGCTGAAGAACGTGTTTCTCGCCTACTTCCTGGTGTGATCGCCGGCCTCCTCTACGGC
CTGGTACAGCTCGCCAGCCATGTGACTGCCTTCTCCCTGCGGGCAGCAGCCGAGCAGCTACGGCAG
AAGGATCTGAGGATTTCCAGCTGCAAGCGGAACCCGACGGCCACCCCTGCCCTGCCAGCCCCCT
GAACCCGAGGCCCTGCCTACTATCTATGTTGTTACCCCCACCTATGCCAGGCTGGTACAGAAGGCAGAG
CTGGTACGACTGTCCAGACACTGAGCCTGGTGCCCGGCTGCATTGGCTGCTGGTGAGGATGCTGAG
GGTCCCACCCGCTGGTCTCAGGGCTGTGGCTGCCTCTGGCCTCCTTACACACCTGGTGGTCTCTC
ACGCCAAAGCCAGCGGCTTCGGGAGGGCAGCCTGGCTGGGTTTCATCCCGTGGTGTGAGCAGCGG
AACAAGGCCCTGGACTGGCTCCGGGGCAGAGGGGGTGTGTGGGTGGGGAGAAGGACCCACCACCA
GGGACCAAGGAGTCGTCTACTTTGCTGACGATGACAACCTACAGCCGGGAGCTGTTTGAGGAGATG
CGCTGGACCCGTGGTGTCTCAGTGTGGCCTGTGGGGCTGGTGGGCGGCCCTGCGATTGAGGGCCCTCAG
GTACAGGACGGCCGGTAGTGGGCTTCCACACAGCATGGGAGCCAGCAGGCCCTTCCCTGTGGATG
GCTGGATTTGCCGTGGCCCTGCCCTTGTGTTAGATAAGCCCAATGCCCAATTTGATTCCACCGCTCCC
CGGGGCCACCTGGAGAGCAGTCTTCTGAGCCACCTTGTGGATCCCAAGGACCTGGAGCCACGGGCTGCC
AACTGCACCTCGGACAGAGTCTCGTGTGTCAACCAGGCTGGAGTGCAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG237393  
 Blue=ORF Red=Cloning site Green=Tag(s)

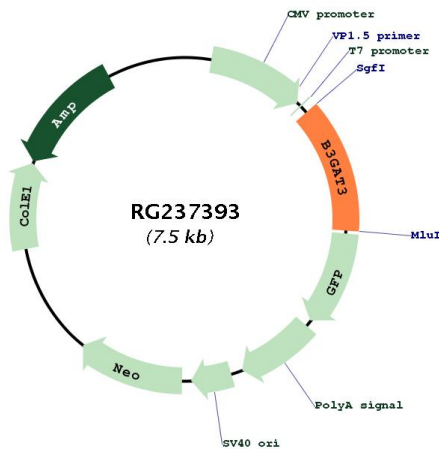
MKLKLNKVFAYFLVSIAGLLYALVQLGQPCDCLPPLRAAAEQLRQKDLRISQLQAE LRRPPPAPAQPP  
 EPEALPTIYVVVTPYARLVQKAE LVR LSQLSLV PRLHWLLVEDAEGPTPLVSGLLAASGLLFTHLVV L  
 TPKAQRLREGE PGWVHPRGVEQRNKALDWLRGRGAVGGEKDP PPPGTQGVVYFADDNTYSRELFEEM  
 RWTRGVSVWPVGLVGLRFE GPVQDGRVVGFHTAWEPSRPFVPDMAGFAVALPLLLDKPNAQFDSTAP  
 RGHLESSLLSHL VDPKDL EPRANCTRTE SRCVTQAGVQ  
 TRTRPLEME SDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV  
 MGYGFYHFGTYP SGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEM  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001288723

<b>ORF Size:</b>	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>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]