

Product datasheet for **RG237475**

B3GAT3 (NM_001288721) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B3GAT3 (NM_001288721) 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:	>RG237475 representing NM_001288721. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTGTAAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGATCGAACCCCTGCCCTTATGCAAAGATTTAGGGACAGTGCCACTGCGTTATCCTCAGGCCAGCCA
TGTGACTGCCTTCTCCCTGCGGGCAGCAGCCGAGCAGCTACGGCAGAAGGATCTGAGGATTTCCAG
CTGCAAGCGGAACTCCGACGGCCACCCCTGCCCTGCCAGCCCTGAACCCGAGGCCCTGCCTACT
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CTGAGCCTGGTGCCTCGCTGCATTGGCTGCTGGTGGAGGATGCTGAGGGTCCCACCCGCTGGTCTCA
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TGGCATACTCGGACAGAGAAGCCCAAGATGAAGCAGGAGGAGCAGCTGCAGCGCCAGGGCCGGGGCTCA
GACCCAGCAATTGAGGTG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237475
 Blue=ORF Red=Cloning site Green=Tag(s)

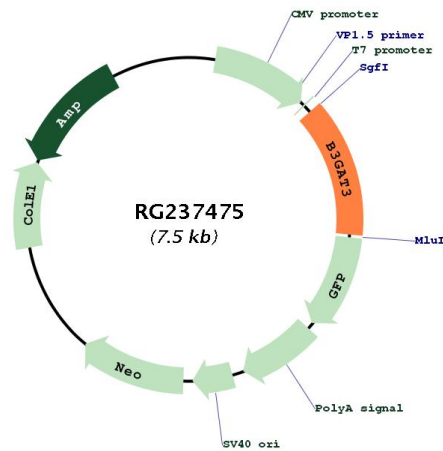
MDRTLPLMQFRDTSATALSSGQPCDCLPPLRAAAEQLRQKDLRISQLQAE LRRPPPAQPPEALPT
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 REGEPGWVHPRGVEQRNKALDWLRGRGGAVGGEKDPPTPGTQGVVYFADDNTYSRELFEMRWTRGVS
 VWPVGLVGLRFEGPQVQDGRVVGVFHTAWEPSRPFVDMAGFAVALPLLLDKPNAQFDSTAPRGHLESS
 LLSHLVDPKDLPRAA NCTRVLVWHTRTEKPKMKQEEQLQRQGRGSDPAIEV
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001288721

ORF Size:	984 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).
RefSeq:	NM_001288721.2
RefSeq Size:	1896 bp
RefSeq ORF:	987 bp
Locus ID:	26229
Cytogenetics:	11q12.3
Protein Families:	Transmembrane
Protein Pathways:	Chondroitin sulfate biosynthesis, Heparan sulfate biosynthesis, Metabolic pathways
MW:	36.8 kDa
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]