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Product datasheet for RG237420

B3GAT3 (NM_001288722) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B3GAT3 (NM_001288722) 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:

>RG237420 representing NM_001288722.
Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAAGCTGAAGCTGAAGAACGTGTTTCTCGCCTACTTCCTGGTGTCGATCGCCGGCCTCCTCTACGCG
CTGGTACAGCTCGGCCAGCCATGTGACTGCCTTCCTCCCCTGCGGGCAGCAGCCGAGCAGCTACGGCAG
AAGGATCTGAGGATTTCCCAGCTGCAAGCGGAACTCCGACGGCCACCCCCTGCCCCTGCCCAGCCCCCT
GAACCCGAGGCCCTGCCTACTATCTATGTTGTTACCCCCACCTATGCCAGGCTGGTACAGAAGGCAGAG
CTGGTACGACTGTCCCAGACACTGAGCCTGGTGCCCCGGCTGCATTGGCTGCTGGTGGAGGATGCTGAG
GGTCCCACCCCGCTGGTCTCAGGGCTGCTGGCTGCCTCTGGCCTCCTCTTCACACACCTGGTGGTCCTC
ACGCCCAAAGCCCAGCGGCTTCGGGAGGGCGAGCCTGGCTGGGTTCATCCCCGTGGTGTCGAGCAGCGG
AACAAGGCCCTGGACTGGCTCCGGGGCAGAGGGGGTGCTGTGGGTGGGGAGAAGGACCCACCACCACCA
GGGACCCAAGGAGTCGTCTACTTTGCTGACGATGACAACACCTACAGCCGGGAGCTGTTTGAGGAGATG
CGCTGGACCCGTGGTGTCTCAGTGTGGCCTGTGGGGCTGGTGGGCGGCCTGCGATTCGAGGGCCCTCAG
GTACAGGACGGCCGGGTAGTGGGCTTCCACACAGCATGGGAGCCCAGCAGGCCCTTCCCTGTGGATATG
GCTGGATTTGCCGTGGCCCTGCCCTTGCTGTTAGATAAGCCCAATGCCCAATTTGATTCCACCGCTCCC
CGGGGCCACCTGGAGAGCAGTCTTCTGAGCCACCTTGTGGATCCCAAGGACCTGGAGCCACGGGCTGCC
AACTGCACTCGGAGTCTCGCTGTGTCACCCAGGCTGGAGTGCAGTAGCGCAATCTTGGCT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

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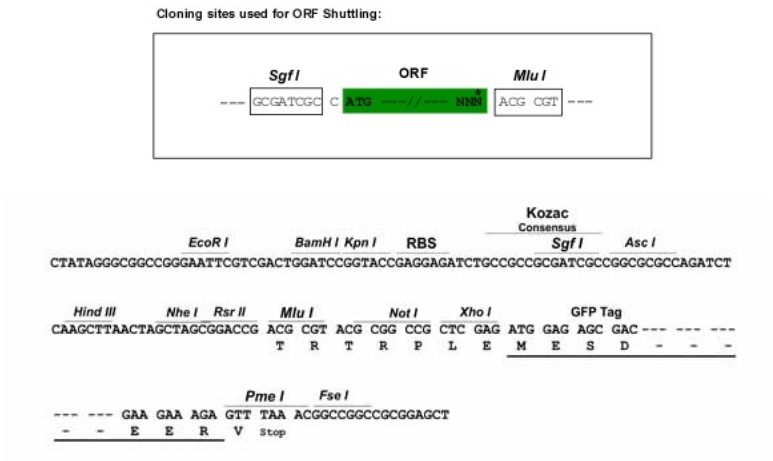
Protein Sequence:

>Peptide sequence encoded by RG237420
Blue=ORF Red=Cloning site Green=Tag(s)

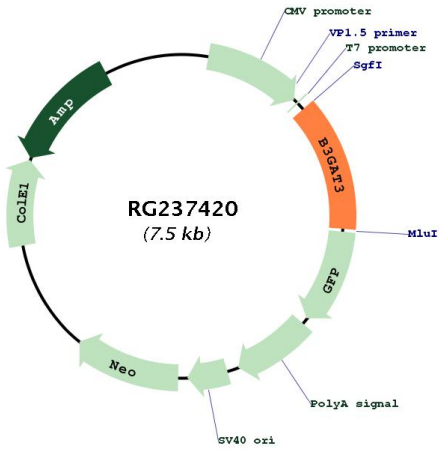
MKLKLKNVFLAYFLVSIAGLLYALVQLGQPCDCLPPLRAAAEQLRQKDLRISQLQAELRRPPPAPAQPP
EPEALPTIYVVTPTYARLVQKAELVRLSQTLSLVPRLHWLLVEDAEGPTPLVSGLLAASGLLFTHLVVL
TPKAQRLREGEPGWVHPRGVEQRNKALDWLRGRGGAVGGEKDPPPPGTQGVVYFADDDNTYSRELFEEM
RWTRGVSVWPVGLVGGLRFEGPQVQDGRVVGFHTAWEPSRPFPVDMAGFAVALPLLLDKPNAQFDSTAP
RGHLESSLLSHLVDPKDLEPRAANCTRSLAVSPRLECSSAILA
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001288722

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ORF Size:	957 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_001288722.2
RefSeq Size:	2094 bp
RefSeq ORF:	960 bp
Locus ID:	26229
Cytogenetics:	11q12.3
Protein Families:	Transmembrane
Protein Pathways:	Chondroitin sulfate biosynthesis, Heparan sulfate biosynthesis, Metabolic pathways
MW:	35.4 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]

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