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Product datasheet for RC237475

B3GAT3 (NM_001288721) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B3GAT3 (NM_001288721) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	B3GAT3
Synonyms:	GLCATI; glcUAT-I; JDSCD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

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>RC237475 representing NM_001288721
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATCGAACCCTGCCCCTTATGCAAAGATTTAGGGACAGTGCCACTGCGTTATCCTCAGGCCAGCCAT
GTGACTGCCTTCCTCCCCTGCGGGCAGCAGCCGAGCAGCTACGGCAGAAGGATCTGAGGATTTCCCAGCT
GCAAGCGGAACTCCGACGGCCACCCCCTGCCCCTGCCCAGCCCCCTGAACCCGAGGCCCTGCCTACTATC
TATGTTGTTACCCCCACCTATGCCAGGCTGGTACAGAAGGCAGAGCTGGTACGACTGTCCCAGACACTGA
GCCTGGTGCCCCGGCTGCATTGGCTGCTGGTGGAGGATGCTGAGGGTCCCACCCCGCTGGTCTCAGGGCT
GCTGGCTGCCTCTGGCCTCCTCTTCACACACCTGGTGGTCCTCACGCCCAAAGCCCAGCGGCTTCGGGAG
GGCGAGCCTGGCTGGGTTCATCCCCGTGGTGTCGAGCAGCGGAACAAGGCCCTGGACTGGCTCCGGGGCA
GAGGGGGTGCTGTGGGTGGGGAGAAGGACCCACCACCACCAGGGACCCAAGGAGTCGTCTACTTTGCTGA
CGATGACAACACCTACAGCCGGGAGCTGTTTGAGGAGATGCGCTGGACCCGTGGTGTCTCAGTGTGGCCT
GTGGGGCTGGTGGGCGGCCTGCGATTCGAGGGCCCTCAGGTACAGGACGGCCGGGTAGTGGGCTTCCACA
CAGCATGGGAGCCCAGCAGGCCCTTCCCTGTGGATATGGCTGGATTTGCCGTGGCCCTGCCCTTGCTGTT
AGATAAGCCCAATGCCCAATTTGATTCCACCGCTCCCCGGGGCCACCTGGAGAGCAGTCTTCTGAGCCAC
CTTGTGGATCCCAAGGACCTGGAGCCACGGGCTGCCAACTGCACTCGGGTACTGGTGTGGCATACTCGGA
CAGAGAAGCCCAAGATGAAGCAGGAGGAGCAGCTGCAGCGGCAGGGCCGGGGCTCAGACCCAGCAATTGA
GGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Protein Sequence:

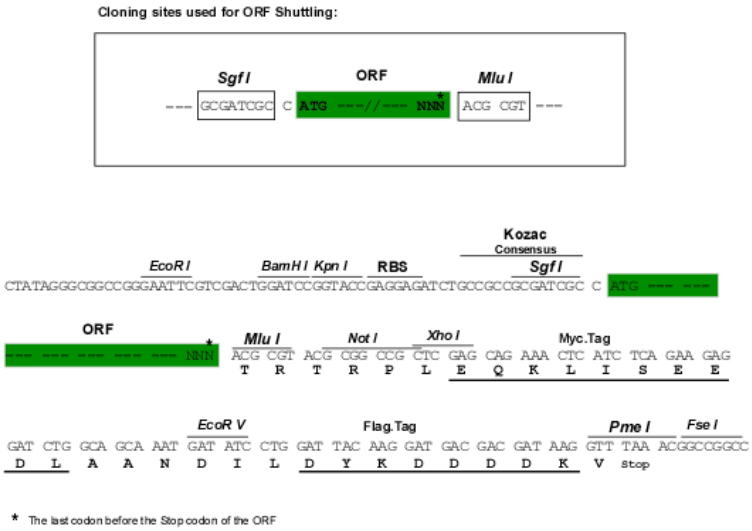
>RC237475 representing NM_001288721
Red=Cloning site Green=Tags(s)

MDRTLPLMQRFRDSATALSSGQPCDCLPPLRAAAEQLRQKDLRISQLQAELRRPPPAPAQPPEPEALPTI
YVVTPTYARLVQKAELVRLSQTLSLVPRLHWLLVEDAEGPTPLVSGLLAASGLLFTHLVVLTPKAQRLRE
GEPGWVHPRGVEQRNKALDWLRGRGGAVGGEKDPPPPGTQGVVYFADDDNTYSRELFEEMRWTRGVSVWP
VGLVGGLRFEGPQVQDGRVVGFHTAWEPSRPFPVDMAGFAVALPLLLDKPNAQFDSTAPRGHLESSLLSH
LVDPKDLEPRAANCTRVLVWHTRTEKPKMKQEEQLQRQGRGSDPAIEV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



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).

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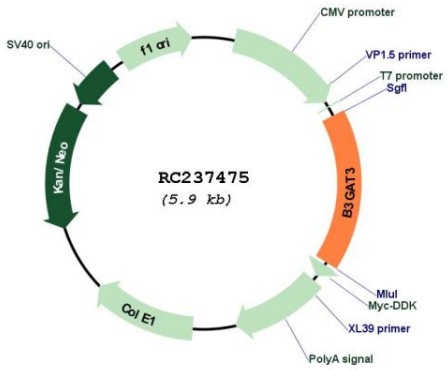
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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_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]

Product images:



Circular map for RC237475

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