

Product datasheet for RC203223

B3GAT3 (NM_012200) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B3GAT3 (NM_012200) 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:	>RC203223 representing NM_012200 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGCTGAAGCTGAAGAACGTGTTTCTCGCCTACTTCCTGGTGTGATCGCCGGCCTCCTCTACGCGC
TGGTACAGCTCGGCCAGCCATGTGACTGCCTTCTCCCTGCGGGCAGCAGCCGAGCAGCTACGGCAGAA
GGATCTGAGGATTTCCAGCTGCAAGCGGAACCTCCGACGGCCACCCCTGCCCTGCCAGCCCCCTGAA
CCCGAGGCCCTGCCTACTATCTATGTTGTTACCCACCTATGCCAGGCTGGTACAGAAGGCAGAGCTGG
TACGACTGTCCAGACTGAGCCTGGTCCCGGCTGCATTGGCTGCTGGTGGAGGATGCTGAGGGTCC
CACCCCGCTGGTCTCAGGGCTGCTGGCTGCCTCTGGCCTCCTTTCACACACTGGTGGTCTCACGCC
AAAGCCCAGCGGCTTCGGGAGGGCGAGCCTGGTGGGTTCCATCCCGTGGTGTGAGCAGCGGAACAAGG
CCCTGGACTGGCTCCGGGCAGAGGGGGTGTGTGGTGGGGAGAAGGCCACCACCACCAGGGACCCA
AGGAGTCGTCTACTTTGCTGACGATGACAACACCTACAGCCGGGAGCTGTTTGAGGAGATGCGCTGGACC
CGTGGTGTCTCAGTGTGGCCTGTGGGCTGGTGGGCGCCTGCGATTGAGGGCCCTCAGGTACAGGACG
GCCGGTAGTGGGCTCCACACAGCATGGGAGCCAGCAGGCCCTCCCTGTGGATATGGCTGGATTTGC
CGTGGCCCTGCCCTTGTGTTAGATAAGCCCAATGCCAATTTGATTCCACCGCTCCCGGGGCCACCTG
GAGAGCAGTCTTCTGAGCCACCTTGTGGATCCCAAGGACCTGGAGCCACGGGCTGCCAACTGCACTCGGG
TACTGGTGTGGCATACTCGGACAGAGAAGCCCAAGATGAAGCAGGAGGAGCAGCTGCAGCGGCAGGGCCG
GGGCTCAGACCCAGCAATTGAGGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC203223 representing NM_012200
Red=Cloning site Green=Tags(s)

MKLKLNKVFLLAYFLVSIAGLLYALVQLGQPCDCLPPLRAAAEQLRQKDLRISQLQAE LRRPPPPAPAQPPE
 PEALPTIYVVTPYARLVQKAELVRLSQTLSLVPRLHWLLVEDAEGPTPLVSGLLAASGLLFTHLVVLTP
 KAQRLREGEPGWVHPRGVEQRNKALDWLRGRGGAVGGEKDP PPPGTQGVVYFADDNDTYSRELFEE MRWT
 RGVSVWPVGLVGGLRFEGPQVQDGRVVGFHTAWEPSRPFVDMAGFAVALPLLLDKPNAQFDSTAPRGHL
 ESSLLSHLVDPKDLEPRAANCTRVLVWHTRTEKPKMKQEEQLRQGRGSDPAIEV

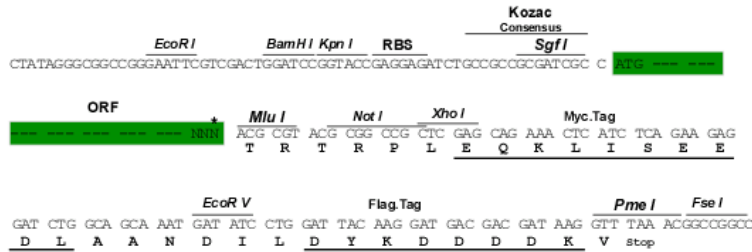
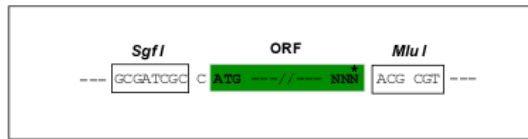
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1518_h07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_012200

ORF Size: 1005 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).

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_012200.4](#)

RefSeq Size: 1456 bp

RefSeq ORF: 1008 bp

Locus ID: 26229

UniProt ID: [O94766](#)

Cytogenetics: 11q12.3

Domains: Glyco_transf_43

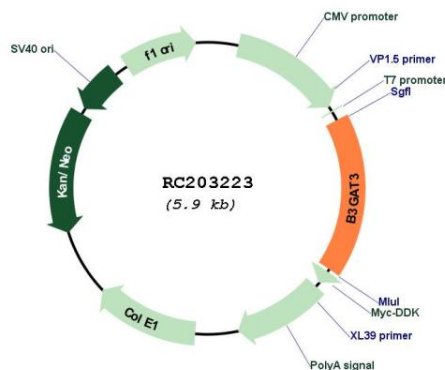
Protein Families: Transmembrane

Protein Pathways: Chondroitin sulfate biosynthesis, Heparan sulfate biosynthesis, Metabolic pathways

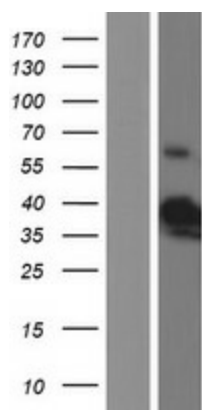
MW: 36.9 kDa

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]

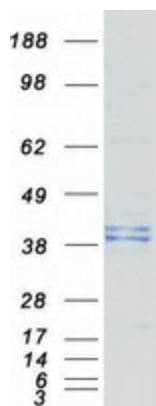
Product images:



Circular map for RC203223



Western blot validation of overexpression lysate (Cat# [LY402164]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203223 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified B3GAT3 protein (Cat# [TP303223]). The protein was produced from HEK293T cells transfected with B3GAT3 cDNA clone (Cat# RC203223) using MegaTran 2.0 (Cat# [TT210002]).