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Product datasheet for RC200256

B4GAT1 (NM_006876) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B4GAT1 (NM_006876) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	B4GAT1
Synonyms:	B3GN-T1; B3GNT1; B3GNT6; BETA3GNTI; iGAT; iGNT; MDDGA13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

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>RC200256 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAGATGTCCTACGCCATCCGGTGCGCCTTCTACCAGCTGCTGCTGGCCGCGCTCATGCTGGTGGCGA
TGCTGCAGCTGCTCTACCTGTCGCTGCTGTCCGGACTGCACGGGCAGGAGGAGCAAGACCAATATTTTGA
GTTCTTTCCCCCGTCCCCACGGTCCGTGGACCAGGTCAAGGCGCAGCTCCGCACCGCGCTGGCCTCTGGA
GGCGTCCTGGACGCTAGCGGCGATTACCGCGTCTACAGGGGCCTGCTGAAGACCACCATGGACCCCAACG
ATGTGATCCTGGCCACGCACGCCAGCGTGGACAACCTGCTGCACCTGTCGGGTCTGCTGGAGCGCTGGGA
GGGCCCGCTGTCCGTGTCGGTGTTCGCGGCCACCAAGGAGGAGGCGCAGCTGGCCACGGTGCTGGCCTAC
GCGCTGAGCAGCCACTGCCCCGACATGCGCGCCAGGGTCGCCATGCACCTCGTGTGCCCCTCGCGTTACG
AGGCAGCCGTGCCCGACCCCCGGGAGCCGGGGGAGTTTGCCCTGCTGCGGTCCTGCCAGGAGGTCTTTGA
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CTGCTGAGGAATCTGGCTCGTGAGGGGGCCAACTATGCCCTGGTGATCGATGTGGACATGGTGCCCAGCG
AGGGGCTGTGGAGAGGCCTGCGGGAAATGCTGGATCAGAGCAACCAGTGGGGAGGCACCGCGCTGGTGGT
GCCTGCCTTCGAAATCCGAAGAGCCCGCCGCATGCCCATGAACAAAAACGAGCTGGTGCAGCTCTACCAG
GTTGGCGAGGTGCGGCCCTTCTATTATGGGTTGTGCACCCCCTGCCAGGCACCCACCAACTATTCCCGCT
GGGTCAACCTGCCGGAAGAGAGCTTGCTGCGGCCCGCCTACGTGGTACCTTGGCAGGACCCCTGGGAGCC
ATTCTACGTGGCAGGAGGCAAGGTGCCCACCTTCGACGAGCGCTTTCGGCAGTACGGCTTCAACCGAATC
AGCCAGGCCTGCGAGCTGCATGTGGCGGGGTTTGATTTTGAGGTCCTGAACGAAGGTTTCTTGGTTCATA
AGGGCTTCAAAGAAGCGTTGAAGTTCCATCCCCAAAAGGAGGCTGAAAATCAGCACAATAAGATCCTATA
TCGCCAGTTCAAACAGGAGTTGAAGGCCAAGTACCCCAACTCTCCCCGACGCTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Protein Sequence:

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>RC200256 protein sequence
Red=Cloning site Green=Tags(s)

MQMSYAIRCAFYQLLLAALMLVAMLQLLYLSLLSGLHGQEEQDQYFEFFPPSPRSVDQVKAQLRTALASG
GVLDASGDYRVYRGLLKTTMDPNDVILATHASVDNLLHLSGLLERWEGPLSVSVFAATKEEAQLATVLAY
ALSSHCPDMRARVAMHLVCPSRYEAAVPDPREPGEFALLRSCQEVFDKLARVAQPGINYALGTNVSYPNN
LLRNLAREGANYALVIDVDMVPSEGLWRGLREMLDQSNQWGGTALVVPAFEIRRARRMPMNKNELVQLYQ
VGEVRPFYYGLCTPCQAPTNYSRWVNLPEESLLRPAYVVPWQDPWEPFYVAGGKVPTFDERFRQYGFNRI
SQACELHVAGFDFEVLNEGFLVHKGFKEALKFHPQKEAENQHNKILYRQFKQELKAKYPNSPRRC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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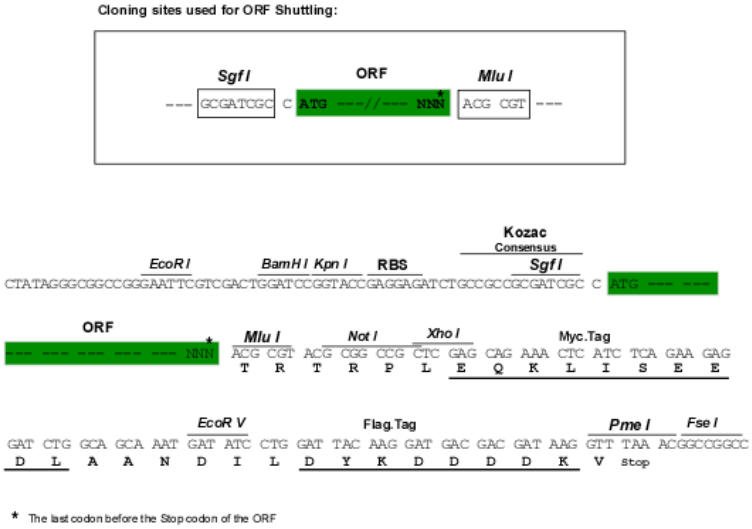
Chromatograms: https://cdn.origene.com/chromatograms/mk6577_f05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006876

ORF Size: 1245 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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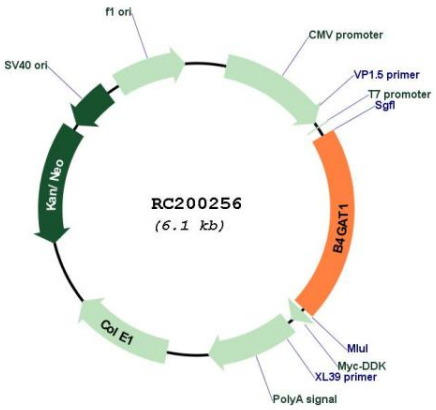
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_006876.3
RefSeq Size:	2077 bp
RefSeq ORF:	1248 bp
Locus ID:	11041
UniProt ID:	O43505
Cytogenetics:	11q13.2
Protein Families:	Transmembrane
Protein Pathways:	Glycosphingolipid biosynthesis - lacto and neolacto series, Keratan sulfate biosynthesis, Metabolic pathways
MW:	47.1 kDa
Gene Summary:	This gene encodes a member of the beta-1,3-N-acetylglucosaminyltransferase family. This enzyme is a type II transmembrane protein. It is essential for the synthesis of poly-N-acetyllactosamine, a determinant for the blood group i antigen. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC200256

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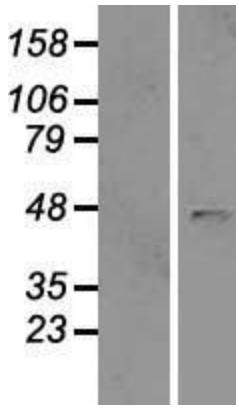
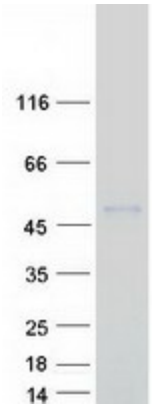


Western blot validation of overexpression lysate (Cat# [LY416356]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200256 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified B4GAT1 protein (Cat# [TP300256]). The protein was produced from HEK293T cells transfected with B4GAT1 cDNA clone (Cat# RC200256) using MegaTran 2.0 (Cat# [TT210002]).

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