

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

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCAGATGTCCTACGCCATCCGGTGCGCTTCTACCAGCTGCTGCTGGCCGCGCTCATGCTGGTGGCGA  
TGCTGCAGCTGCTCTACCTGTGCTGCTGTCGGACTGCACGGGCAGGAGGAGCAAGACCAATATTTTGA  
GTTCTTTCCCGTCCCCACGGTCCGTGGACCAGGTCAAGGCGCAGCTCCGCACCCGCTGGCCTCTGGA  
GGCGTCTGGACGCTAGCGGCGATTACCGCTCTACAGGGGCTGCTGAAGACCACCATGGACCCCAACG  
ATGTGATCCTGGCCACGCACGCCAGCGTGGACAACCTGCTGCACCTGTCGGGTCTGCTGGAGCGCTGGGA  
GGGCCCGCTGTCCGTGTCGGTGTTCGCGGCCACCAAGGAGGAGGCGCAGCTGGCCACGGTCTGGCCTAC  
GCGCTGAGCAGCCACTGCCCCGACATGCGCGCCAGGGTCCCATGCACCTCGTGTGCCCTCGCGTTACG  
AGGCAGCCGTGCCGACCCCGGGAGCCGGGGAGTTTGCCTGCTGCGGTCTGCCAGGAGGTCTTTGA  
CAAGCTAGCCAGGGTGGCCAGCCCGGATTAATTATGCGCTGGGACCAATGTCTCTACCCCAATAAC  
CTGCTGAGGAATCTGGCTCGTGAGGGGGCAACTATGCCTGGTATCGATGTGGACATGGTGCCAGCG  
AGGGGCTGTGGAGAGGCTGCGGAAATGCTGGATCAGAGCAACCAGTGGGAGGCACCCGCTGGTGGT  
GCCTGCCTTCGAAATCCGAAGAGCCCGCGCATGCCATGAACAAAAACGAGCTGGTGCAGCTCTACCAG  
GTTGGCAGGTGCGGCCCTTCTATTATGGTTGTGACCCCTGCCAGGCACCCCAACTATTTCCCGT  
GGGTCAACCTGCCGGAAGAGAGCTTGTGCGGCCCGCTACGTGGTACCTTGGCAGGACCCCTGGGAGCC  
ATTCTACGTGGCAGGAGGCAAGGTGCCACCTTCGACGAGCGCTTTCGGCAGTACGGCTTCAACCGAATC  
AGCCAGGCTGCGAGCTGCATGTGGCGGGTTTGATTTGAGGTCTGAACGAAGTTTCTTGTTTCATA  
AGGGCTTCAAAGAAGCGTTGAAGTTCCATCCCCAAAAGGAGGCTGAAAATCAGCACAATAAGATCTATA  
TCGCCAGTTCAAACAGGAGTTGAAGGCCAAGTACCCCAACTCTCCCCGACGCTGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA





**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\\_006876.3](#)

**RefSeq Size:** 2077 bp

**RefSeq ORF:** 1248 bp

**Locus ID:** 11041

**UniProt ID:** [O43505](#)

**Cytogenetics:** 11q13.2

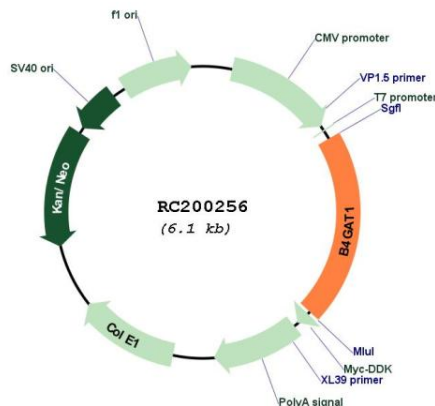
**Protein Families:** Transmembrane

**Protein Pathways:** Glycosphingolipid biosynthesis - lacto and neolacto series, Keratan sulfate biosynthesis, Metabolic pathways

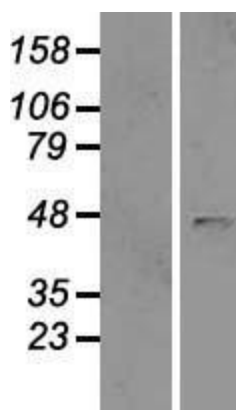
**MW:** 47.1 kDa

**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-acetylglucosamine, a determinant for the blood group i antigen. [provided by RefSeq, Jul 2008]

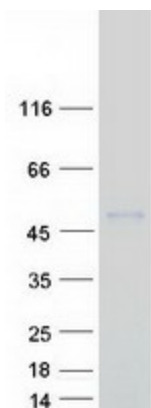
### Product images:



Circular map for RC200256



Western blot validation of overexpression lysate (Cat# [LY416356]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected 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]).