

## Product datasheet for **RG200256**

### **B4GAT1 (NM\_006876) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	B4GAT1 (NM_006876) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	B4GAT1
Synonyms:	B3GN-T1; B3GNT1; B3GNT6; BETA3GNTI; iGAT; iGNT; MDDGA13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200256 representing NM_006876 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGCAGATGTCCTACGCCATCCGGTGGCCTTCTACCAGCTGCTGCTGGCCGCGCTCATGCTGGTGGCGA  
TGCTGCAGCTGCTCTACCTGTGCTGCTGTCCGGACTGCACGGGCAGGAGGAGCAAGACCAATATTTTGA  
GTTCTTTCCCGCTCCACGGTCCGTGGACCAGGTCAAGGCGCAGCTCCGCACCGCGTGGCCTCTGGA  
GGCGTCTGGACGCTAGCGGCGATTACCGCTCTACAGGGGCTGCTGAAGACCACCATGGACCCCAACG  
ATGTGATCCTGGCCACGCACGCCAGCGTGGACAACCTGCTGCACCTGTCGGGTCTGCTGGAGCGCTGGGA  
GGGCCCGCTGTCCGTGTCCGGTGTTCGCGGCCACCAAGGAGGAGGCGCAGCTGGCCACGGTCTGGCCTAC  
GCGCTGAGCAGCCACTGCCCCGACATGCGCGCCAGGGTCCCATGCACCTCGTGTGCCCTCGCGTTACG  
AGGCAGCCGTGCCGACCCCGGGAGCCGGGGAGTTTGCCTGCTGCGGTCTGCCAGGAGGTCTTTGA  
CAAGCTAGCCAGGGTGGCCAGCCCGGATTAATTATGCGCTGGGACCAATGTCTCTACCCCAATAAC  
CTGCTGAGGAATCTGGCTCGTGAGGGGGCAACTATGCCCTGGTATCGATGTGGACATGGTGCCACGC  
AGGGGCTGTGGAGAGCCTGCGGAAATGCTGGATCAGAGCAACCAGTGGGAGGCACCGCGCTGGTGGT  
GCCTGCCTTCGAAATCCGAAGAGCCCGCGCATGCCATGAACAAAAACGAGCTGGTGCAGCTCTACCAG  
GTTGGCAGGTGCGGCCCTTCTATTATGGTTGTGACCCCTGCCAGGCACCCCAACTATCCCGCT  
GGGTCAACCTGCCGGAAGAGAGCTTGTGCGGCCCGCCTACGTGGTACCTTGGCAGGACCCCTGGGAGCC  
ATTCTACGTGGCAGGAGGCAAGGTGCCACCTTCGACGAGCGCTTTCGGCAGTACGGCTTCAACCGAATC  
AGCCAGGCCTGCGAGCTGCATGTGGCGGGTTTGAATTTGAGGTCTGAACGAAGTTTCTTGGTTCATA  
AGGGCTTCAAAGAAGCGTTGAAGTTCCATCCCCAAAAGGAGGCTGAAAATCAGCACATAAAGATCTATA  
TCGCCAGTTCAAACAGGAGTTGAAGGCCAAGTACCCCAACTCTCCCCGACGCTGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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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\\_006876.3](#)

**RefSeq Size:** 2077 bp

**RefSeq ORF:** 1248 bp

**Locus ID:** 11041

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

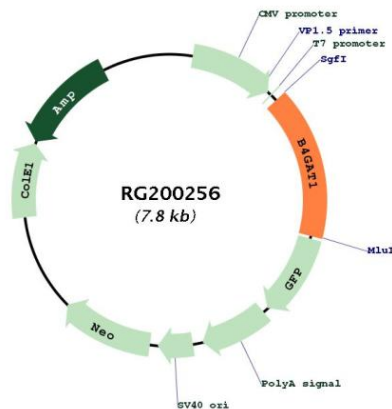
**Cytogenetics:** 11q13.2

**Protein Families:** Transmembrane

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

**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 RG200256