

## Product datasheet for SC115826

### B4GAT1 (NM\_006876) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	B4GAT1 (NM_006876) Human Untagged Clone
Tag:	Tag Free
Symbol:	B4GAT1
Synonyms:	B3GN-T1; B3GNT1; B3GNT6; BETA3GNTI; iGAT; iGNT; MDDGA13
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115826 sequence for NM_006876 edited (data generated by NextGen Sequencing)

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ATGCAGATGTCCTACGCCATCCGGTGCCTTCTACCAGTGCTGCTGGCCGCGCTCATG
CTGGTGGCGATGCTGCAGCTGCTTACCTGTCGCTGCTGTCCGGACTGCACGGGCAGGAG
GAGCAAGACCAATATTTTGGATTCTTTCCCGTCCCCACGGTCCGTGGACCAGGTCAAG
GCGCAGCTCCGCACCGCCTGGCTCTGGAGGCGTCTGGACGCTAGCGGCGATTACCGC
GTCTACAGGGGCTGCTGAAGACCACCATGGACCCCAACGATGTGATCCTGGCCACGCAC
GCCAGCGTGGACAACCTGCTGCACCTGTCGGGTCTGCTGGAGCGCTGGGAGGGCCCGCTG
TCCGTGTCGGTGTTCGCGGCCACCAAGGAGGAGGCGCAGCTGGCCACGGTCTGGCTAC
GCGCTGAGCAGCCACTGCCCGACATGCGCGCCAGGGTCCCATGCACCTCGTGTGCCCC
TCGCGTTACGAGGCAGCCGTGCCCGACCCCGGGAGCCGGGGAGTTTGCCTGTGCGG
TCCTGCCAGGAGGTCTTTGACAAGCTAGCCAGGGTGGCCAGCCCGGATTAATTAATGCG
CTGGGCACCAATGTCTCTACCCCAATAACCTGCTGAGGAATCTGGCTCGTGAGGGGGCC
AACTATGCCCTGGTGATCGATGTGGACATGGTGGCCAGCGAGGGGCTGTGGAGAGGCCTG
CGGAAATGCTGGATCAGAGCAACCAAGTGGGAGGCACCGCGCTGGTGGTGCCTGCCTTC
GAAATCCGAAGAGCCCGCCGATGCCCATGAACAAAAACGAGCTGGTGCAGCTCTACCAG
GTTGGCGAGGTGCGGCCCTTCTATTATGGGTGTGCACCCCTGCCAGGCACCCACCAAC
TATTCGCGCTGGTCAACCTGCCGAAGAGCTTGTGCGGCCCGCCTACGTGGTACCT
TGGCAGGACCCCTGGGAGCCATTCTACGTGGCAGGAGGCAAGGTGCCACCTTCGACGAG
CGCTTTCGCGAGTACGGCTTCAACCGAATCAGCCAGGCCTGCGAGCTGCATGTGGCGGGG
TTTGATTTTGGAGTCTGAACGAAGTTTCTTGGTTCATAAGGGCTTCAAAGAAGCGTTG
AAGTTCCATCCCCAAAAGGAGGCTGAAAATCAGCACAATAAGATCCTATATCGCCAGTTC
AAACAGGAGTTGAAGGCCAAGTACCCCAACTCTCCCCGACGCTGCTGA

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Clone variation with respect to NM\_006876.2



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_006876 unedited  
 NNGGGTCAAAATTTGTATACGACTACTATAGGCGGCCGGAATTCGCACGAGGGTAAAT  
 CCGGGCTTGCGGCCGCTGGCGTAGTCTGTGGCCGGGTGGTCGTTGCTGCGCGCCCCGAGC  
 CCCGAGAGCCATGCAGATGTCCTACGCCATCCGGTGCGCCTTCTACCAGCTGCTGCTGGC  
 CGCGCTCATGCTGGTGGCGATGCTGCAGCTGCTACCTGTCGCTGCTGCCGACTGCA  
 CGGGCAGGAGGAGCAAGACCAATATTTTGTAGTTCTTCCCCCGTCCCCACGGTCCGTGGA  
 CCAGGTC AAGGCGCAGCTCCGCACCGCGCTGGCCTCTGGAGGCGTCTGGACGCTAGCGG  
 CGATTACCGCTTACAGGGGCTGCTGAAGACCACCATGGACCCCAACGATGTGATCCT  
 GGCCACGCACGCCAGCGTGGACAACCTGCTGCACCTGTCGGGTCTGCTGGAGCGCTGGGA  
 GGGCCCGCTGTCGCTGTCGGTGTTCGCGGCCACCAAGGAGGAGGCGCAGCTGGCCACGGT  
 GCTGGCTACGCGCTGAGCAGCCACTGCCCGACATGCGCGCCAGGGTCGCCATGCACCT  
 CGTGTGCCCTCGCGTTACGAGGCGCCGTCGCCGACCCCGGGAGCCGGGGGAGTTTGC  
 CCTGCTGCGGTCTGCCAGGAGGCTTTGACAAGCTAGCCAGGGTGGCCAGCCCGGAT  
 TAATTATGCGCTGGGCACCAATGTCTCCTACCCCAATAACCTGCTGAGGAATCTGGCTCG  
 NTGAGGGGGCCAACTATGCCCTGGTGATCGATGTGGACATGGTGCANCGAGGGGGGC  
 TGTGGAAAGGCCTGCNGGAAATGCTGGNATCANAGCACAGTGGGGGGGAGCACCGGCCT  
 CTGGTGTG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_006876 unedited  
 TGGACCGCGGCACGCATNCTAGTATCGAGTTTTTTTTTTTTTTTTTTTTTTGGGTGTGAACA  
 CGCATTTATTTACACATTGTCATCGGTAGGCACATACCCAGCCCAGCCCGTTGAAGGGAC  
 AGATCTCAGGCTGTCACCATGGAACCTGCAGACCCTTCCCTCCTCCAGAACCCTTGAAG  
 GCGAAGCCCTGAGAGAACCAGGAATTTTAGGCTTCTGTTCAAGAGCTAAGAACTAAATTT  
 TATGCCTTCATCTGATTTCTTCCAAAAAGTCCATTTTATTAAAGTATTACAGACTTCTTAG  
 CTCCATCCCATTCATACTTTTTGCTCTCCTACTACCCACCCAAGATTGGTAATAATAACA  
 ATAATAATAACAACAATAATACTGCGATAATTAATACTTCACATTTGTACGAAGCTTA  
 CAGAAATGGTTTACATATAGCATCTCATCTGAGCCTCCCAACAGTTCCGTGAGGTAGGTA  
 TTCTCACCTCCCTTTTTACAGACAGGGTAACCGAGGCTCAGAGAGGTAACGGGATTTACT  
 CAAGGCCACACAGCTAGTTAGTGGTAAAGCTAGGAATCGATCCCAGCACCCCATATCCAA  
 GTCCAGTGTTTCAACACCACAGCTACCTCTGTAAGTGGAGCGACATTTCTTACCCAGT  
 CAGGCCTAAATGGTGGCCCTGAGAGCCAAGAAGCTGACTTCTCACATTACGGGAGGGCAA  
 GGGCTCAACAGCCCGGGAAAGATGGGGTTCTGGCCCTCCACTCCTGTGTGAACCGCC  
 GCACTAGATCCTCTCGTGCCGATTTTACCCTCTCTGGGGTACGGAACCTCCAGGTTTTTT  
 TATACCCTCATGACCCACAACCCTTGTCCCGACCCCAATCACACCGCCCACTCCCCC  
 CCAAGGCTGGTTATTTTGTGTAACCCTGTTTTAATTCTTTCTCACCCGCCCTGTTT  
 TCCGCCTACAATCTCCCCGCTCTTTTAT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_006876

**Insert Size:**

1950 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_006876.1, NP_006867.1</u>
<b>RefSeq Size:</b>	2011 bp
<b>RefSeq ORF:</b>	1248 bp
<b>Locus ID:</b>	11041
<b>UniProt ID:</b>	<u>O43505</u>
<b>Cytogenetics:</b>	11q13.2
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Glycosphingolipid biosynthesis - lacto and neolacto series, Keratan sulfate biosynthesis, Metabolic pathways
<b>Gene Summary:</b>	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]