

## Product datasheet for RC224329

### B3GAT2 (NM\_080742) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	B3GAT2 (NM_080742) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	B3GAT2
Synonyms:	GLCATS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC224329 representing NM_080742 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGTCCGCGCTTTTCACCCGCTTTTATCCTCCTGCCCTGGATCCTAATTGTCATCATCATGCTCG  
ACGTGGACACGCGCAGGCCAGTGCCTCCGCTCACCCCGCGCCCTACTTCTCTCCCTACGCGGTGGGCCG  
CGGGGGCGCCGACTCCCGCTCCGACGGGGCGGCCGGCTCACGGGACCCAAAAGCGCAACCAGTCTCGG  
CCGCAGCCACAGCCGGAGCCGACGCTGCCACCATCTATGCCATCACGCCACCTACAGCCGCCCGGTGC  
AGAAAGCGGAGCTGACCCGCCTGGCCAACAGTTCGGCCAGGTGGCGCAGCTGCACTGGATCCTGGTGGA  
GGACGCGCGGCGCGCAGCGAGCTGGTGGCCGCTTCTGGCGCGGGCCGGCTGCCAGCACTACCTG  
CACGTGCCACGCGCGCGCTACAAGCGGCCCGGGCTGCCGCGGCCACTGAGCAGCGCAACGCGGGCC  
TCGCTGGCTGCGCCAGAGGCCACCAGCACCAGCGCGCGCAGCCCGGCGTCTCTTCTCGCTGACGACGA  
CAACACCTATAGTCTGGAGCTCTCCAGGAGATGCGAACCACCCGCAAGGTCTCCGTCTGGCCTGTGGGC  
CTGGTTGGTGGGCGCGCTACGAACGTCGCTGGTGGAAAACGGCAAAGTTGTTGGCTGGTACACCCGGCT  
GGAGAGCAGACAGGCCTTTTGCCATCGACATGGCAGGATTTGCTGTAAGTCTTCAAGTCATTTTGTCCAA  
TCCAAAAGCTGTATTTAAGCGTCGTGGATCCCAGCCAGGGATGCAAGAATCTGACTTTCTCAAACAGATA  
ACAACAGTCGAAGAACTGGAACCGAAAGCAAATAACTGCACTAAGGTTCTCGTGTGCACACTCGGACAG  
AGAAGGTTAATCTAGCCAACGAGCCAAAGTACCACCTGGACACAGTGAAAATTGAGGTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC224329 representing NM\_080742  
Red=Cloning site Green=Tags(s)

MKSALFTRFFILLPWILIVIIMLDVDTRRPVPLTPRPYFSPYAVGRGGARLPLRRGGPAHGTQKRNQR  
 PQPQPEPQLPTIYAITPTYSRPVQKAELTRLANTFRQVAQLHWILVEDAAARSELVSRFLARAGLPSTHL  
 HVPTPRRYKRPLPRATEQRNAGLAWLRQRHQHQRAQPGVLFADDNTYSLELFQEMRTRRKVSVWPVG  
 LVGRRRYERPLVENGKVVGWYTGWRADRPFAIDMAGFAVSLQVILSNPKAVFKRRGSQPGMQESDFLKQI  
 TTVEELEPKANNCTKVLVWHTRTEKVNLANEPKYHLDTVKIEV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8012\\_a03.zip](https://cdn.origene.com/chromatograms/mk8012_a03.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_080742

**ORF Size:** 969 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\\_080742.3](#)

**RefSeq Size:** 972 bp

**RefSeq ORF:** 972 bp

**Locus ID:** 135152

**UniProt ID:** [Q9NPZ5](#)

**Cytogenetics:** 6q13

**Domains:** Glyco\_transf\_43

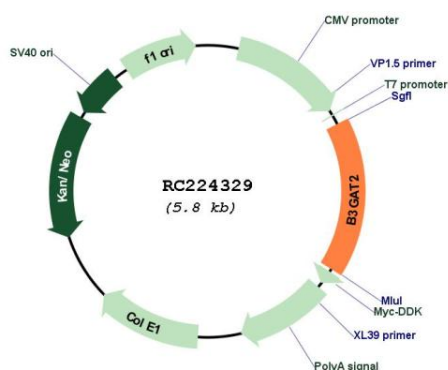
**Protein Families:** Transmembrane

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

**MW:** 36.7 kDa

**Gene Summary:** The product of this gene is a transmembrane protein belonging to the glucuronyltransferase family, and catalyzes the transfer of a beta-1,3 linked glucuronic acid to a terminal galactose in different glycoproteins or glycolipids containing a Gal-beta-1-4GlcNAc or Gal-beta-1-3GlcNAc residue. The encoded protein is involved in the synthesis of the human natural killer-1 (HNK-1) carbohydrate epitope, a sulfated trisaccharide implicated in cellular migration and adhesion in the nervous system. [provided by RefSeq, Jul 2008]

## Product images:



Circular map for RC224329