

**Specifications:**

|                |                  |
|----------------|------------------|
| Gene:          | hB3GAT2          |
| Accession:     | NP_542780        |
| Insert size:   | 985bp            |
| Concentration: | 10µg at 0.2µg/µL |

**hB3GAT2 cDNA  
Plasmid**

**B3GAT2 beta-1,3-  
glucuronyltransferase 2 [ *Homo  
sapiens* (human) ]**

**Also known as:** GLCATS

**Summary:**

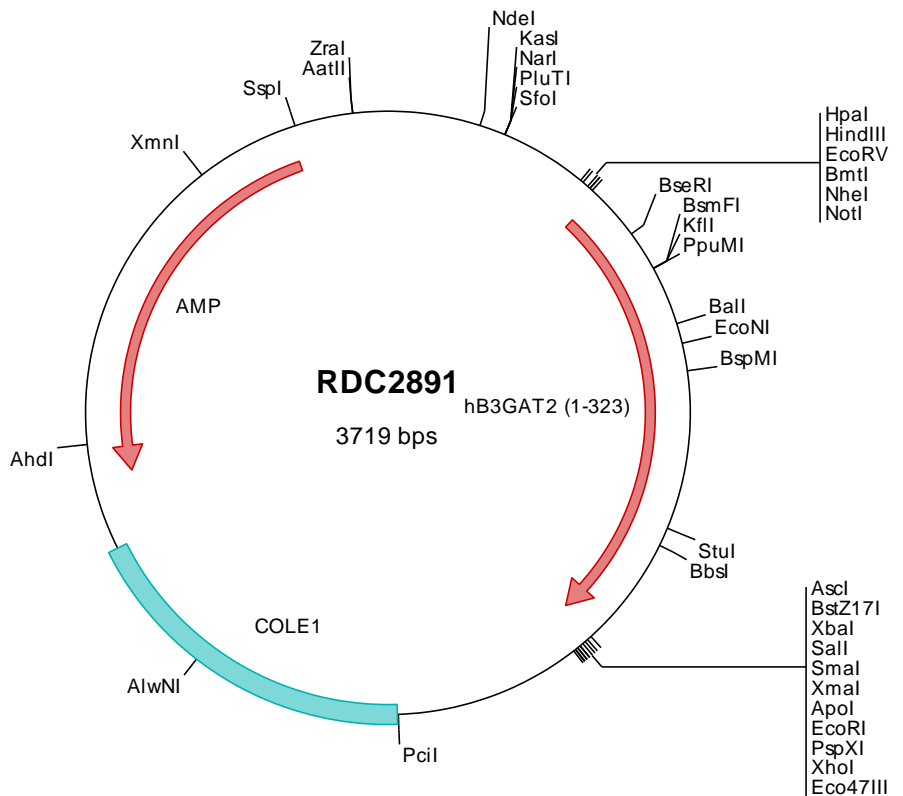
B3GAT2 is a transmembrane protein belonging to the glucuronyltransferase family, and catalyzes the transfer of a beta-1,3 linked glucuronic acid to a terminal galactose in different glycoproteins or glycolipids containing a Gal-beta-1-4GlcNAc or Gal-beta-1-3GlcNAc residue. B3GAT2 is involved in the synthesis of the human natural killer-1 (HNK-1) carbohydrate epitope, a sulfated trisaccharide implicated in cellular migration and adhesion in the nervous system.

**Description**

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

**Preparation and Storage**

**Formulation** cDNA is provided in 10 mM Tris-Cl, pH 8.5  
**Shipping** Ships at ambient temperature  
**Stability** 1 year from date of receipt when stored at -20°C to -80°C  
**Storage** Use a manual defrost freezer and avoid repeated freeze-thaw cycles.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

**> RDC2891 Plasmid DNA Sequence**

```

1 tcgctgcttt cggatgatgac ggtgaaaaacc totgacacat gcagctcccc gagacgggtca cagcttgtct gtaagcggat gccggggagca gacaagcccg
101 tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201 ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attgccatt caggctcgcg aactgttggg aagggcgatc ggtgcgggcc tcttcctat
301 tacgccagct ggcgaaaagg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgatt
401 ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccggccacc atgaagtccg cgtttttcac ccgcttttt atcctcctgc cctggatcct
501 aattgtcacc atcatgctcg acgtggacac tctgtagacca gtgcctccac taactcctcg accatacttc totccatcac cagtaggtcg aggtggagct
601 cgaactccac tccgcagggg cggcccggct caocgggacc aaaagcgcaa ccagtctcgg ccgcagccac agccggagcc gcagctgccc accatctatg
701 coactacgcc cacctacagc cgcocgggtg agaaagcgga gctgaccgcg ctggccaaca cgttcogcca ggtggcgtag ctgcactgga tctgggtgga
801 ggacgcggcg gcgcgacgag agctggtgag ccgcttctca gctcgtgcag gtctgcctag tactcatcta cacgtgccta cgcacgctcg atacaagcgt
901 ccaggtctgc cacgtgcaac tgagcagcgc aacgcggggc togcctggct gcgccagagg caccagcacc agcgcgcgca gccccggcgtg ctctctctcg
1001 ctgacgagca caaacctat agtctggagc tcttccagga gatgcgaacc acccgcaagg tctcctctcg ccctgtgggc ctggttgggt ggcggcgcta
1101 cgaaactcgc ctggtggaac acggcaaaagt tgttggctgg tacaccggct ggagagcaga caggcctttt gccatcgaca tggcaggatt tgctgtaagt
1201 cttcaagtca tttgttccaa tccaaaagct gttatgagc gtctgtgtag ccagccaggg atgcaagaat ctgactttct caaacagata acaacagctg
1301 aagaactgga cccgaaaagc aataactgca ctaaggtctc cgtgtggcac actcggacag agaaggttaa tctagccaac gagccaaagt accacgtgga
1401 cacagtgaac attgaggtat aaaggcggcg cagtatactc tagagtcgac acccggggaa ttcctcgagc gctcgtctct agcttggcgt aatcatggct
1501 atagctgttt cctgtgtgaa attgttatcc gctcacaatt ccacacaaca tacgagccgg aagcataaag tgtaaagcct ggggtgccta atgagtgcgc
1601 taactcacat taattgcggt gcgctcactg ccgcctttcc agtcgggaaa cctgtcgtgc cagctgcatt aatgaatcgg ccaacgcgcg gggagaggcg
1701 gtttgcgcat tgggcgctct tccgcttccct cgcctcactga ctcgtcgcg tcggtcgttc ggctgcggcg agcggatcca gctcactcaa aggcggtaat
1801 acggttatcc acagaatcag gggataacgc agaaagaac atgtgagcaa aaggccagca aaaggccagg aaccgtaaaa aggcggcgtt gctggcgttt
1901 ttccatagcg cagcccccct tgacgagcat cacaaaaatc gacccctgcc gcttaccgga taectgtccg cctttctccc ttcgggaagc gtggcgcttt ctaactgctc
2001 ctggaagctc cctcgtcgcg tctcctgttc cgaccctgcc gcttaccgga taectgtccg cctttctccc ttcgggaagc gtggcgcttt ctaactgctc
2101 acgctgtagg tatctcagtt cgggtgtagt cgttctcctc aagctgggct gtgtgcacga aagccactgt aacaggatta gcagagcgag gtagtaggac ggtgtacag
2201 tatcgtcttg atgtccaaacc cactggcagc agccactggt agccactggt aacaggatta gcagagcgag gtagtaggac ggtgtacag
2301 agttcttgaa gtggtgacct aactacggct acactagaag gacagatatt ggtatctgcg ctctgctgaa gccagttacc ttcggaaaaa gatttggtag
2401 ctcttgatcc ggcaaaacaaa ccaccgctgg tagcgggtgt tttttgttt gcaagcagca gattacgcgc agaaaaaag gatctcaaga agatcctttg
2501 atcttttcta cggggctcga cgctcagttg aacgaaaact cacgttaagg gattttggtc atgagattat caaaaaggat cttcacctag atccttttaa
2601 attaaaaatg aagttttaaa tcaatctaaa gtatatatga gtaaaactgg tctgacagtt accaatgctt aatcagtgag gcacctatct cagcgatctg
2701 tctatttctg tcatccatag ttgocctgact ccccgctcgt tagataacta cgatacggga gggcttacca tctggcccca gctcgtcaat gataccgcca
2801 gaccoacgct caccggctcc agatttatca gcaataaacc agccagccgg aagggccgag cgcagaagtg gtcctgcaac tttatccgcc tccatccagt
2901 ctattaattg ttgcccggaa gctagagtaa gtatgtccgc agttaatagt ttgcccgaac ttggtgccat tgctacaggg atcgtgtgtg cagcctcgtc
3001 gtttggtagt gcttcaattca gctccggctc ccaacgatca agcggagtta catgatcccc catgttgtgc aaaaaagcgg tttagctcct cggctcctcg
3101 atcgttgta gaagtaagtt ggcgcagtg ttatcactca tggttatggc agcactgcac aattctctta ctgtcatgcc atccgtaaga tgcctttctg
3201 tgactggtga gtactcaacc aagtcattct gagaatagtg tatgcccgca ccgagttgct cttgcccggc gtcaatacgg gataataacc cgcacatag
3301 cagaacttta aaagtgtcca tcatgggaaa acgcttctcg gggcgaaaaa tctcaaggat cttaccgctg ttgagatcca gttcogatga accactcgt
3401 gcaccaact gatcttcagc atcttttact ttcaccagcg tttctgggtg agcaaaaaa ggaaggcaaa atgccgcaaa aaagggaata agggcgacac
3501 ggaaatgttg aatactcata ctcttctctt ttoaatatta ttgaagcatt tatcagggtt atgtgtctcat gagcggatcac atatttgaat gtatttagaa
3601 aaataaacia ataggggttc cgcgacatt tcccgaaaa gtgccacctg acgtctaaga aaccattatt atcatgacat taacctataa aaataggcgt
3701 atcacgagcg cctttctgct

```

**> RDC2891 Translated Insert Sequence**

```

1 mksalftrff illpwilivi imldvdtrrp vppltrpyf spyavgrgga rlplrrgpa hgtqkrnqsr pqpqppeqlp tiyaitptys rpvqkaeltr
101 lantfrqvaq lhwilvedaa arselvsrfl araglpsthl hvptprrykr pglprateqr naglawlrqr hqhraqpgv lffaddntys slelfqemrt
201 trkvswwpvv lvggrryerp lvengkvvvg ytgwrdrpf aidmagfavs lqvilsnpka vfkrrgsqpg mqesdfkqi ttveelepka nnctkvlwvh
301 trteknlan epkyhldtvk iev

```