

Specifications:

Gene:	hB4GALNT4
Accession:	NP_848632
Insert size:	3132bp
Concentration:	10µg at 0.2µg/µL

hB4GALNT4 cDNA Plasmid

**B4GALNT4 beta-1,4-N-acetyl-
galactosaminyltransferase 4**
[*Homo sapiens* (human)]

Also known as:

Summary:

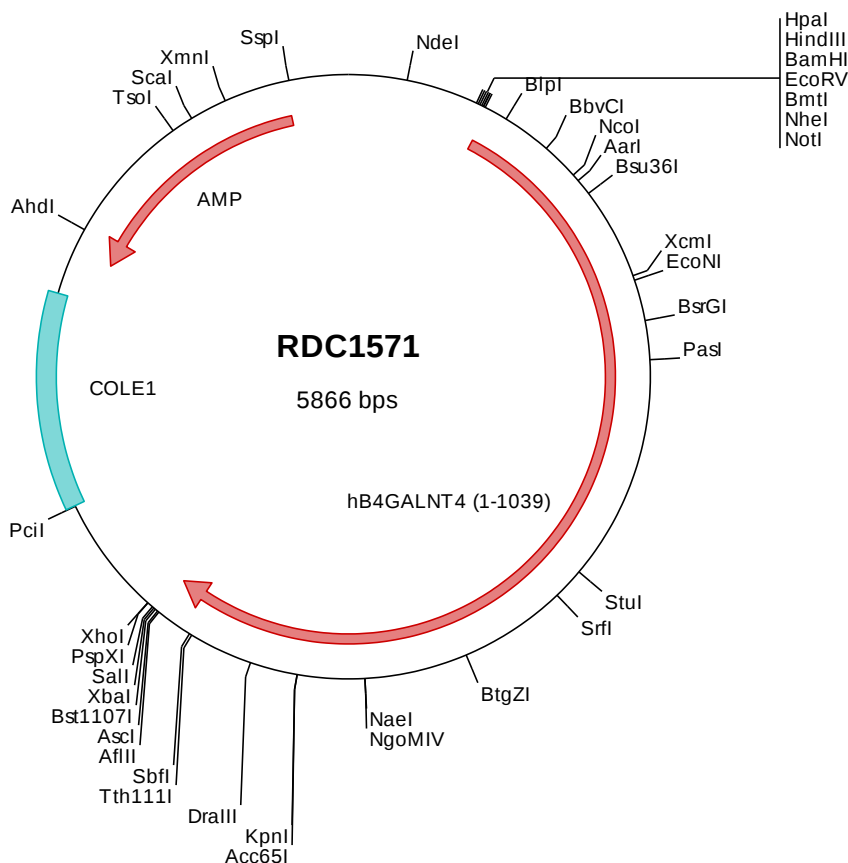
B4GALNT4 belongs to the chondroitin N-acetylgalactosaminyltransferase family. B4GALNT4 transfers N-acetylgalactosamine (GalNAc) from UDP-GalNAc to N-acetylglucosamine-beta-benzyl with a beta-1,4-linkage to form N,N-diacetyllactosamine. It is highly expressed in ovary and adult and fetal brain.

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

> RDC1571 Plasmid DNA Sequence

```

1   tcgcgcgcttt  cggatgatgac  ggtgaaaacc  tctgacacat  gcagctcccc  gagacggtca  cagcttgctc  gtaagcggat  gccgggagca  gacaagcccc
101  tcaggggcgcg  tcagcgggtg  ttggcgggtg  tcggggctgg  cttactatg  cggcatcaga  gcagattgta  ctgagagtgc  accatatgcg  gtgtgaaata
201  ccgcacacgat  gcgtaaggag  aaaataccgc  atcaggcgcc  attcgccatt  caggctcgcg  aactgttggg  aagggcgatc  ggtgcgggcc  tcttcgctat
301  tacgccaagct  ggcgaaaagg  ggatgtgctg  caaggcgatt  aagttgggta  agcccgagg  tttcccgatc  acgacgttgt  aaaacgacgg  ccagtgaatt
401  ggagacgtgt  taacaagctt  ggtaccgata  tcgctagcgc  ggccgcaccc  atgcgcggcg  tcccggtgaa  gaagatccgt  aagcagatga  agctgctgct
501  gctgctgctg  ctgctgagct  gcgcgcgctg  gctcaacctac  gtgcacactgg  gcctggtgcg  ccaggggacgc  gcgctgcgcc  agccctgggg  ctacggggcga
601  gatggttgaga  agctgaccag  tgagaccgac  ggcgcggggg  tccacgctgc  gccatccaca  cagagggctg  aggactccag  tgagagccgt  gaagaggagc
701  aagcgcgcga  aggtccggac  ctagacatgc  tgtttcctgg  gggggctggg  aggtgcccac  tgaacttcac  ccacagaca  ccccatgggc  gggaggagta
801  caaggggcag  gtgaacctgc  acgtgtttga  ggaactggtg  gggggcgccg  tggggccacct  gaggaggaa  ctgcacttcc  cgctgttccc  tcatacgccg
901  accaccgtga  agaagtggc  cgtgtccccc  aagtggaaga  actatggact  cctgtctgtc  cccagcttct  acccggcgag  ggacggagac  gtccagtttt
1001  ctgtggcgct  agcgcacaac  tcggagtctc  ggctgagctc  ggacgagagc  gccagccaca  ggcggtccat  cccagcttgt  ggcaagactg  gctccgagtg
1101  gacagcgctc  ggagaattca  ccaagtccag  ctcccaggtg  ggcctgagtc  tcccaagccc  ggcggtccat  ggccctcccg  ttgagttgct  gcacaagcag
1201  gacgacccgc  cctcggaaca  cgtggaaagt  ggcctggcgag  cttctctgcc  ccacgcccac  cggcgtccac  ttcgaggtta  tcacatctcc  ctgtacacag
1301  atgagtccag  gtcgacgatg  gacacgtggc  cgcactctcc  cttactctca  gccagccacg  tggggggggc  tggcgccgag  tcacatctcc  ctgtacacag
1401  gctcgcgcca  gatcccaagg  ataccttttt  cctcaactca  cgcactgga  cgttccttcc  cccagccacg  cggcgtccac  gccctaccgc  cccacactac
1501  gtggtcaagg  acttcccgat  cgcacgatac  cagggctctc  aaattgtgta  cctgtctctc  gtttatccca  acgactaac  gccctcacc  cacaaggaga
1601  cggacaacaa  gctgctctac  cgcagatctc  cgcagatctc  ggaggtatgt  ggtgtctata  aatacatgaa  gatggacaag  gaggaggggg  atgagatga
1701  agaagacgag  gtgcagcgcc  gagccttctc  cttctcaaac  ccggacgact  tcttggaaca  cgaggacgag  ggggagctgc  togacagct  ggagccaccc
1801  gaggcggccc  cgcacaggag  tgcgccccc  tcccgcgcc  cagcagcccc  gccccagccc  ggagccaccc  tgcgccccc  gacccctccc  cgcccccggg
1901  acggggggc  ccccgacac  tcggggccc  tcggggccc  tgagctgggc  ccccgagccc  agcgccccc  tgcgccccc  cttggggcga  gtcgccccc
2001  agtgagcag  ccccccaca  aggtgtact  gaccaggggt  cggcggggc  agcgggcatc  ccccgggccc  ccacccggc  cccacggcg  cggacccggc
2101  cctggcgct  cctgcaccc  aggcctctg  cccagagtgc  agctgcccgc  agggggccgg  tgcctgcctc  ccacccggc  cccacggcg  cggacccggc
2201  ccacacagcc  gaggccccc  gcccgagccc  agggggccgc  agggggccgc  tttgtccagg  tgctccggcc  ccccgagctc  cccacggcg  cggacccggc
2301  cttgtctctc  gaagcgcggc  cgcgtacccc  cttctcagtc  ttgtccagg  tgctccggcc  ccccgagctc  cccacggcg  cggacccggc  cggacccggc
2401  gacgatgggg  ccccgggcga  cagggccgag  cggagggaga  ggcagggagg  cgcggggccc  tgctccggcc  ccccgagctc  cccacggcg  cggacccggc
2501  gcacgtttgc  cgtggggccc  gtggacttgc  agctgctgag  cctgagctgc  ccccgagccc  aacgagctgc  ccccgagctc  cccacggcg  cggacccggc
2601  ggccgtggac  gtgacggctc  agtacctgga  cggcctgaac  cgcgcgcaac  ggcggggccc  tgctccggcc  ccccgagctc  cccacggcg  cggacccggc
2701  tggcgcgag  ggaagtgcct  cctgctggag  ctggagctgc  agggagcggc  ggcggggccc  tgctccggcc  ccccgagctc  cccacggcg  cggacccggc
2801  ccccgcgag  ggaatgcagc  ggaagaagt  ccccgagccc  ccccgagccc  ccccgagccc  tgctccggcc  ccccgagctc  cccacggcg  cggacccggc
2901  ctggcgccag  gacgtgatgt  cctgactcat  cgtgcccagt  caaaacacag  ccccgagccc  tgctccggcc  ccccgagctc  cccacggcg  cggacccggc
3001  accggggaac  cgcgtttcag  ttgacttctc  cgtgcttctc  gttgacttgc  agagcagaga  tatggacgtg  ggcggggccc  tgctccggcc  ccccgagctc
3101  acctgagacg  aaccgggaac  ttgagcgcct  ccccgagccc  ccccgagccc  ccccgagccc  tgctccggcc  ccccgagctc  cccacggcg  cggacccggc
3201  catcaacttc  ccccccaca  cctctgagcg  cctctgagcg  caatcgcaag  cactcgctgg  agggcaggtg  ggcccttcgc  ccccgagctc  cccacggcg
3301  tcgccccgg  ccccccagg  ttaactggag  ggtgaagact  gggagctcct  ggacagggct  ctgcagcgag  ggctggaggt  ggagcggctc  cgaactgcga
3401  agttccgaga  ccagtggggg  ggtgaagact  ggtgaagact  ggtgaagact  ggtgaagact  ggtgaagact  ggtgaagact  ggtgaagact  ggtgaagact
3501  ccactacac  tccaaaggag  gcatgtggag  cgtccgcagc  aggaagggtc  aggaagggtc  aggaagggtc  aggaagggtc  aggaagggtc  aggaagggtc
3601  cgggggaatt  ctgcagcgt  cgtctctagc  ttggcgtaat  catggctata  gctgtttctc  gttgtgaaat  gttgtgaaat  gttgtgaaat  gttgtgaaat
3701  gagccggaag  cataaagtgt  aaagcctggg  gtgcctaag  agtgagctaa  agtgagctaa  agtgagctaa  agtgagctaa  agtgagctaa  agtgagctaa
3801  gtcgtgcag  ctgcattaat  gaatcgggc  acgcgcgggg  agagggcggt  agagggcggt  agagggcggt  agagggcggt  agagggcggt  agagggcggt
3901  ctgcttcggc  tgcggcgagc  ggtatcagct  cactcaaaag  cggtaaatag  cggtaaatag  cggtaaatag  cggtaaatag  cggtaaatag  cggtaaatag
4001  gccagcaaaa  ggcaggaagc  cgtaaaaagg  ccgcgttgct  ggcgtttttc  ggcgtttttc  ggcgtttttc  ggcgtttttc  ggcgtttttc  ggcgtttttc
4101  gagggtggca  aaccgcagac  gactataaag  ataccagcg  tttccccctg  tttccccctg  tttccccctg  tttccccctg  tttccccctg  tttccccctg
4201  ctgtccgct  ttctcccttc  gggaaagcgt  gcgctttctc  cgtgactcag  cgtgactcag  cgtgactcag  cgtgactcag  cgtgactcag  cgtgactcag
4301  tgcacgaacc  ccccgttcag  cccgacccgt  gcgccttctc  cgttaactat  cgttaactat  cgttaactat  cgttaactat  cgttaactat  cgttaactat
4401  cactggtaac  aggtatagca  gacgagagta  gttaggcgt  gtaggcagct  gtaggcagct  gtaggcagct  gtaggcagct  gtaggcagct  gtaggcagct
4501  atctgcgctc  tgcggaagc  agttactctc  ggaataagag  ctcaagaaga  ctcaagaaga  ctcaagaaga  ctcaagaaga  ctcaagaaga  ctcaagaaga
4601  agcagcagat  tacgcgcaga  aaaaaaggat  caactagatc  cacttagatc  cacttagatc  cacttagatc  cacttagatc  cacttagatc  cacttagatc
4701  ttgtgtcat  agattatcaa  aaggatctct  cacttagatc  cacttagatc  cacttagatc  cacttagatc  cacttagatc  cacttagatc  cacttagatc
4801  gacagttacc  aatgctcaa  cagtaggca  cctatctcag  ccatgtgctc  ccatgtgctc  ccatgtgctc  ccatgtgctc  ccatgtgctc  ccatgtgctc
4901  tacgggaggg  cttaccatct  ggcgccagtg  ctgcaacttt  atccgcctcc  atccgcctcc  atccgcctcc  atccgcctcc  atccgcctcc  atccgcctcc
5001  gccgcagcgc  agaagtggct  ctgcaacttt  ctggtgtcac  gtggtgtcac  gtggtgtcac  gtggtgtcac  gtggtgtcac  gtggtgtcac  gtggtgtcac
5101  cgcaacgct  gttgcatatg  aaagcgggta  gctccttcgg  tctccttcgg  tctccttcgg  tctccttcgg  tctccttcgg  tctccttcgg  tctccttcgg
5201  gatccccc  gttgtgcaaa  aaagcgggta  gctccttcgg  tctccttcgg  tctccttcgg  tctccttcgg  tctccttcgg  tctccttcgg  tctccttcgg
5301  actgcataat  tctcttactg  tcatgcccac  cgtaaagtgc  tttttctgtg  tttttctgtg  tttttctgtg  tttttctgtg  tttttctgtg  tttttctgtg
5401  agttgctctt  gcccgcgctc  aataccggat  cagtaggca  cactcgtgca  cactcgtgca  cactcgtgca  cactcgtgca  cactcgtgca  cactcgtgca
5501  caaggtactt  accgctgttg  agatccagtt  cgtatgaacc  cgcacacgga  cgcacacgga  cgcacacgga  cgcacacgga  cgcacacgga  cgcacacgga
5601  aaaaaacgga  aggcacaaat  ccgcacacgga  ggggaataag  tttgaatgta  tttgaatgta  tttgaatgta  tttgaatgta  tttgaatgta  tttgaatgta
5701  cagggttatt  gtctcatgag  cggatacata  tttgaatgta  tttgaatgta  tttgaatgta  tttgaatgta  tttgaatgta  tttgaatgta  tttgaatgta
5801  tctaagaaac  cattattatc  atgacattaa  cctataaaaa  taggcgtatc  taggcgtatc  taggcgtatc  taggcgtatc  taggcgtatc  taggcgtatc

```

> RDC1571 Translated Insert Sequence

```

1   mprlpvkkir  kqmkllllll  llscawltly  vhlglvrqgr  alrqlrgygr  dgekltsed  grgvhaapst  graedssesr  eeegapegrd  ldmlfpggag
101  rlpnlfthtq  ppwreeykgq  vnlhvfedwc  ggavghlrnn  lhfplfpht  dtvkkklavp  kwknyglrif  gfihpardgd  vqfsvasddn  sefwslsdes
201  paaaglvafv  gktgsewtap  geftkfssqv  skprlmasr  ryyfelhkhq  ddrsgshvev  gwraflpglk  fevissahis  lytdealkm  dhvavpqp
301  ashvgrppq  eetsadmlrp  dprdtfflt  rmessslenv  lepcaaypty  vvkdfpiary  gglqfvylls  vypndytrlt  hmetdnkcfy  resplylerf
401  gfkykymkdk  eegdedeede  vqrraflfln  pddflddede  gelldslept  eaapprrgqp  spapaapagp  gatlapptpp  rprdggtprh  sralswaara
501  arplplflgr  aprrpaveq  pppkvrvtrv  rpgqraspra  paprapwppf  pgvflhrprl  prvqlrapp  prphgrrtg  gpqatqprp  araqtqggr
601  egqartlgpa  aptvdsnlss  earpvtsfls  lsqsvsqplp  gegeeeeee  ddgapgdeaa  sedseaaagp  algrwredai  dwqrtsfsva  vdfellrsdw
701  ndlrcnvsnl  lqlpeaaevd  vtaqymerln  arhggrfall  rivnvckrrd  sargsrflle  lelqergggr  lrlseyvflr  lpgarvgdad  gespepapaa
801  svrpdrpel  crplrlawrg  dmvmhfvipv  knqarwvaqf  ladmaalhar  tgdsrfsvvl  vdfesedmdv  eralraarlp  rpyglrrtgn  fersagllqag
901  vdavedassi  vflcdlihhf  ppnildgirk  hcvegrlafa  pvvmrlscgs  sprdphgywe  vngfglfgiy  ksdfdrvggm  nteefrdqwg  gedwelldrv
1001  lqagleverl  rlrnfyyhyh  skrgmsvrs  rkgstgas

```