*m*ST6GalNAc1 VersaClone cDNA

Catalog Number: RDC1366

Specifications:

Gene:	*m*St6galnac1
Accession:	NP_035501
Insert size:	1593bp
Concentration:	10µg at 0.2µg/µL

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

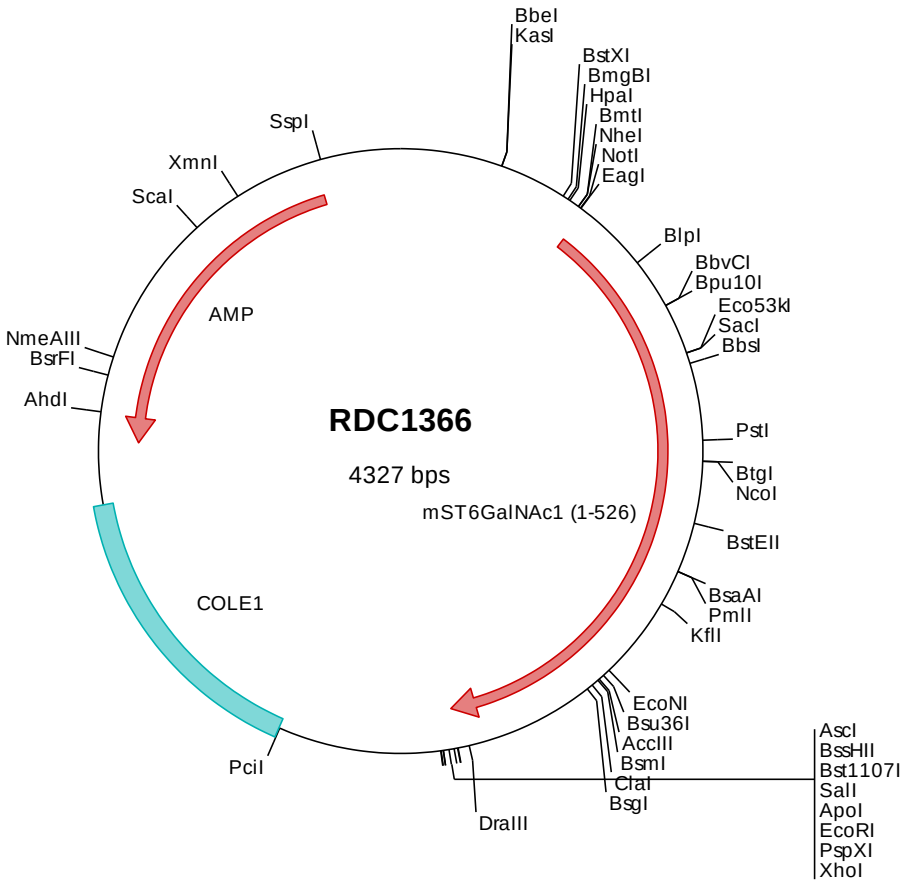
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*m*ST6GalNAc1 cDNA Plasmid

St6galnac1 ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 1 [*Mus musculus* (house mouse)]

Also known as: Siat7a

Summary:
Glycosylation of proteins affects cell-cell interaction, interactions with the matrix, and the functions of intracellular molecules.
ST6GALNAC1 transfers a sialic acid, N-acetylneuraminic acid (NeuAc), in an alpha-2,6 linkage to O-linked GalNAc residues. The cancer-associated sialyl-Tn (sTn) antigen is formed by ST6GALNAC1-catalyzed sialylation of GalNAc residues on mucins.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

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> RDC1366 Plasmid DNA Sequence

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 101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
 201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
 301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
 401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atgacgagat attgcagagg actttcccag aggcaagctt tcctgcttct
 501  gactgtgttg gcattgctct ttattctgct cttcgttgtt aaggatccaa gggcaaaaga ttccaggtgc cagttcatat ggaagaatga cgcaagtgcc
 601  caggagaatc aacaaaaggc tgagccccaa gtacccatca tgacactgtc acccagagtt cacaacaagg agacaacctc tgtcagttca aaggacctga
 701  agaaacagga gagagaggca gtccaaggag agcaagctga ggggaaggag aagaggaagt tggagaccat aaggccagca ccagagaatc ctcagagcaa
 801  ggcagagcct gctgcaaaga cgcctgtgtc agaacacctg gacaaactac ccagagctcc aggagcactg tcaacaagga agacaccaat ggccacagga
 901  gctgtcccag ctaagaagaa agtggtccag gctaccaaat cccctgcctc ttccccacac cccaccacac gaagaaggca aaggctgaag gcctctgagt
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1601  ctatgttttt gaatcagacc ttggcaaaaa cccacctttc ctggttcagg cataggcctc aggaagcctt ccggaatgcc ttggacttgg atcgatactt
1701  gctgctgcac ccagactttc tccgttacat gaagaacagg tttctgaggt caaagaccct ggacactgcc cattggagaa tataccgccc caccactggt
1801  gccctcctgc tgctcacagc ccttcatctc tgtgacaagg tcagcgccta tggcttcatc accgagggcc accagcgctt ctctgaccac tactatgata
1901  catcgtggaa aaggttgatc ttttatatca accatgactt caggttagag agaatggtgt ggaagcggtt gcatgatgaa ggcatcatct ggctctacca
2001  gcgtccacaa agtgacaaag caaagaacta aggcgcgcca gtatactcta gagtcgacac ccggggaatt cctcgagcgc tcgtctctag cttggcgtaa
2101  tcatggtcat agctgtttcc tgtgtgaaat tgttatccgc tcacaattcc acacaacata cgagccggaa gcataaagtg taaagcctgg ggtgcctaat
2201  gagtgagcta actcacatta attgcgttgc gctcactgcc cgctttccag tcgggaaacc tgtcgtgcca gctgcattaa tgaatcggcc aacgcgcggg
2301  gagaggcggt ttgcgtattg ggcgctcttc cgcttcctcg ctcactgact cgctgcgctc ggtcgttcgg ctgcggcgag cggtatcagc tcactcaaag
2401  gcggtaatac ggttatccac agaatcaggg gataacgcag gaaagaacat gtgagcaaaa ggccagcaaa aggccaggaa ccgtaaaaag gccgcgttgc
2501  tggcgttttt ccataggctc cgccccctg acgagcatca caaaaatcga cgctcaagtc agaggtggcg aaacccgaca ggactataaa gataccaggc
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2701  caatgctcac gctgtaggta tctcagttcg gtgtaggtcg ttcgctccaa gctgggctgt gtgcacgaac ccccgttca gcccgaccgc tgcgccttat
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3001  gttggtagct cttgatccgg caaacaaacc accgctggta gcggtggttt ttttgtttgc aagcagcaga ttacgcgcag aaaaaaagga tctcaagaag
3101  atcctttgat cttttctacg gggtctgacg ctcagtggaa cgaaaactca cgttaaggga ttttggtcat gagattatca aaaaggatct tcacctagat
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3601  cgctcgtcgt ttggtatggc ttcattcagc tccggttccc aacgatcaag gcgagttaca tgatccccca tgttgtgcaa aaaagcggtt agctccttcg
3701  gtcctccgat cgttgtcaga agtaagttgg ccgcagtgtt atcactcatg gttatggcag cactgcataa ttctcttact gtcatgccat ccgtaagatg
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4001  ccactcgtgc acccaactga tcttcagcat cttttacttt caccagcgtt tctgggtgag caaaaacagg aaggcaaaat gccgcaaaaa agggaataag
4101  ggcgacacgg aaatgttgaa tactcatact cttccttttt caatattatt gaagcattta tcagggttat tgtctcatga gcggatacat atttgaatgt
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4301  ataggcgtat cacgaggccc tttcgtc
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> RDC1366 Translated Insert Sequence

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101  krkletirpa penpqskaep aaktpvsehl dklprapgal strktpmatg avpakkkvvq atkspassph pttrrrqrlk asefkseprw dfeeeysldm
201  sslqtncsas vkikaskspw lqniflpnit lfldsgrftq sewnrlehfa ppfgfmelnq slvqkvvtrf ppvrqqqlll aslptgyskc itcavvgngg
301  ilndsrvgre idshdyvfrl sgavikgyeq dvgtrtsfyg ftafsltqsi lilgrrgfqh vplgkdvryl hflegtrdye wleamflnqt lakthlswfr
401  hrpqeafrna ldldrylllh pdflrymknr flrsktldta hwriyrpttg allltalhl cdkvsaygfi teghqrfsdh yydtswkrli fyinhdfrle
501  rmvwkrlhde giiwlyqrpq sdkakn
```