

Product datasheet for RC232502

ST3GAL4 (NM_001254759) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ST3GAL4 (NM_001254759) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ST3GAL4
Synonyms:	CGS23; gal-NAc6S; NANTA3; SAT3; SIAT4; SIAT4C; ST-4; ST3GalA.2; ST3GalIV; STZ
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC232502 representing NM_001254759 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGCTCAGGCTGGAAGCTCCTGGCCATGTTGGCTCTGGTCTGGTCGTCATGGTGTGGTATTCCA
TCTCCCGGAAGACAGGTACATCGAGCTTTTTATTTCCCATCCCAGAGAAGAAGGAGCCGTGCCTCCA
GGGTGAGGCAGAGCAAGGCCTCTAAGCTCTTTGGCACTACTCCCGGATCAGCCATCTTCCTGCGG
CTTGAGGATTATTCTGGGTCAAGACGCCATCTGCTTACGAGCTGCCCTATGGACCAAGGGGAGTGAGG
ATCTGCTCCTCCGGTGTAGCCATCACCAGCTCCTCCATCCCCAAGAACATCCAGAGCCTCAGGTGCCG
CCGCTGTGTGGTCTGGGAACGGGCACCGGCTGCGGAACAGCTCACTGGGAGATGCCATCAACAAGTAC
GATGTGGTCATCAGATTGAACAATGCCCAAGTGGCTGGCTATGAGGGTGACGTGGGCTCCAAGACCACA
TGCGTCTCTTCTACCCCTGAATCTGCCCACTTCGACCCAAAGTAGAAAACAACCCAGACACACTCCTCGT
CCTGGTAGCTTTCAAGGCAATGGACTTCCACTGGATTGAGACCATCCTGAGTGATAAGAAGCGGGTGCGA
AAGGGTTTCTGGAACAGCCTCCCCTCATCTGGGATGTCAATCCTAAACAGATTCGGATTCTCAACCCCT
TCTTATGGAGATTGCAGCTGACAACTGCTGAGCCTGCCAATGCAACAGCCACGGAAGATTAAGCAGAA
GCCACCACGGGCTGTGGCCATCACGCTGGCCCTCCACCTCTGTGACTTGGTGACATTGCCGGCTTT
GGCTACCCAGACGCCTACAACAAGAAGCAGACCATTCACTACTAGAGCAGATCACGCTCAAGTCCATGG
CGGGTACAGCCATAATGTCTCCAAGAGGCCCTGGCCATTAAGCGGATGCTGGAGATGGGAGCTATCAA
GAACCTCACGTCCTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC232502 representing NM_001254759
Red=Cloning site Green=Tags(s)

MCPAGWKL LAMLALVLVVMVWYISREDRYIELFYFPIPEKKEPCLQGEAESKASKLFGNYSRDQPIFLR
 LEDYFVWKTPSAYELPYGKGSDDLRLVLAITSSSIPKNIQSLRCRRCVVVGNHRLRNSSLGDAINKY
 DVVIRLNNAPVAGYEGDVGSKTMRFLYPESAHFDPKVENNPDLLVLVAFKAMDFHWIETILSDKKRVR
 KGFWKQPPLIWDVNPQIRILNPFMEIAADKLLSLPMQQPRKIKQKPTTGLLAITLALHLCDLVHIAGF
 GYPDAYNKKQTIHYEQITLKS MAGSGHNVSQEALAIKRMLEMGAIKNLT SF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001254759

ORF Size: 996 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_001254759.2](#)

RefSeq Size: 1871 bp

RefSeq ORF: 999 bp

Locus ID: 6484

UniProt ID: [Q11206](#)

Cytogenetics: 11q24.2

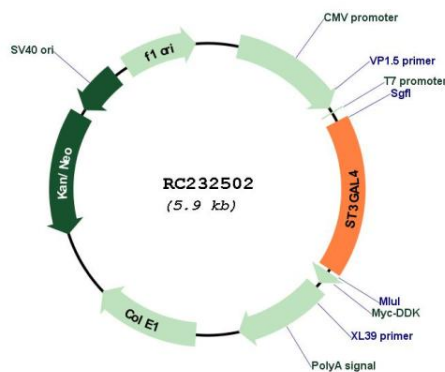
Protein Families: Secreted Protein, Transmembrane

Protein Pathways: Glycosphingolipid biosynthesis - lacto and neolacto series, Metabolic pathways

MW: 38.3 kDa

Gene Summary: This gene encodes a member of the glycosyltransferase 29 family, a group of enzymes involved in protein glycosylation. The encoded protein is targeted to Golgi membranes but may be proteolytically processed and secreted. The gene product may also be involved in the increased expression of sialyl Lewis X antigen seen in inflammatory responses. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]

Product images:



Circular map for RC232502