

Product datasheet for RC216090

ST3GAL4 (NM_006278) Human Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | ST3GAL4 (NM_006278) 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: | >RC216090 representing NM_006278 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTCAGCAAGTCCCGCTGGAAGCTCCTGGCCATGTTGGCTCTGGTCTGGTCGTCATGGTGTGGTATT
CCATCTCCCGGAAGACAGTTTTTATTTCCCATCCCAGAGAAGAAGGAGCCGTGCCTCCAGGGTGAGGC
AGAGAGCAAGGCCTAAGCTCTTTGGCACTACTCCCGGATCAGCCCATCTTCTCGCGCTTGAGGAT
TATTTCTGGGTCAAGACGCCATCTGCTTACGAGCTGCCATGGGACCAAGGGGAGTGAGGATCTGTCC
TCCGGGTGCTAGCCATCACCAGCTCCTCCATCCCAAGAACATCCAGAGCCTCAGGTGCCGCGCTGTGT
GGTCGTGGGAACGGGCACCGGCTGCGGAACAGCTCACTGGGAGATGCCATCAACAAGTACGATGTGGTC
ATCAGATTGAACAATGCCCCAGTGGCTGGCTATGAGGGTGACGTGGGCTCCAAGACCACCATGCGTCTCT
TCTACCCTGAATCTGCCCACTTCGACCCCAAAGTAGAAAACAACCCAGACACACTCCTCGTCTGGTAGC
TTTCAAGGCAATGGACTTCCACTGGATTGAGACCATCCTGAGTGATAAGAAGCGGGTGCGAAAGGGTTTC
TGGAAACAGCCTCCCCTCATCTGGGATGTCAATCCTAACAGATTCGGATTCTCAACCCCTTCTTCATGG
AGATTGCAGCTGACAACTGCTGAGCCTGCCAATGCAACAGCCACGGAAGATTAAGCAGAAGCCCACCAC
GGCCTGTTGGCCATCACGCTGGCCCTCCACCTCTGTGACTTGGTGCACATTGCCGGCTTTGGCTACCCA
GACGCCTACAACAAGAAGCAGACCATTCACTACTATGAGCAGATCAGCTCAAGTCCATGGCGGGTCCAG
GCCATAATGTCTCCAAGAGGCCCTGGCCATTAAGCGGATGCTGGAGATGGGAGCTATCAAGAACCTCAC
GTCTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC216090 representing NM_006278
Red=Cloning site Green=Tags(s)

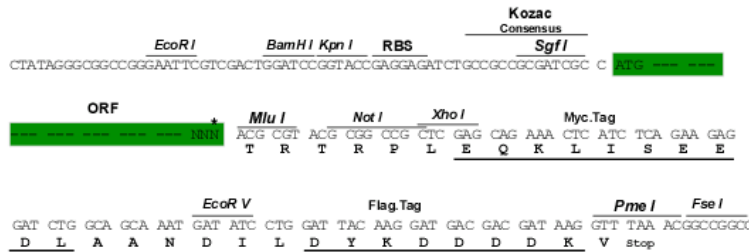
MVSKSRWKL LAMLALVLVVMVWYSISREDSFYFPIPEKKEPCLQGEAESKASKLFGNYSRDQPIFLRLED
 YFWVKTPSAYELPYGKGSDDLRLRLAITSSSIPKNIQSLRCRRCVVGVNGHRLRNSSLGDAINKYDVV
 IRLNNA PVAGYEGDVGSKTTMR LFPESA HFDPKVENNPD TLLVLVAFKAMD FHWIETILSDKKRVRKGF
 WKQPPLIWDVNP KQIRILNPF FMEIAADKLLSLPMQQPRKIKQKPTTGLLAITLALHLCDLVH IAGFGYP
 DAYNKKQTIHYEQITL KSMAGSGHNVSQEALAIKRMLEMGA IKNLTSF

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_006278

ORF Size: 987 bp

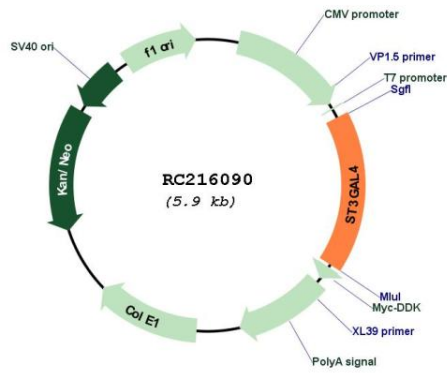
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

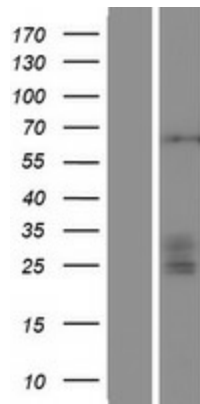
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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| 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: | <ol style="list-style-type: none">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: | <u>NM_006278.3</u> |
| RefSeq Size: | 1766 bp |
| RefSeq ORF: | 990 bp |
| Locus ID: | 6484 |
| UniProt ID: | <u>Q11206</u> |
| Cytogenetics: | 11q24.2 |
| Domains: | Glyco_transf_29 |
| Protein Families: | Secreted Protein, Transmembrane |
| Protein Pathways: | Glycosphingolipid biosynthesis - lacto and neolacto series, Metabolic pathways |
| MW: | 37.3 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 RC216090



Western blot validation of overexpression lysate (Cat# [LY416756]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216090 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).