

Product datasheet for MR205814

St3gal3 (NM_001161774) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	St3gal3 (NM_001161774) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	St3gal3
Synonyms:	Siat3; Siat6; ST3GalIII; ST3N
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205814 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGACTCTTGGTATTTGTGCGCAATCTGCTGCTAGCCCTCTGCCTCTTCTGGTCTGGGATTTTGT
ATTATTCTGCCTGGAAGCTACACTTACTCCAATGGGAAGACTCCAATTCATTGCTCTTTCCCTTGACTC
CGCTGGACAAACCCTAGGCACAGAGTATGATAGGCTGGGCTTCTCCTGAAGCTGGACTCTAACTGCCT
GCCGAGCTAGCCACCAAGTACGCAAACCTTTCCGAGGGAGCTTCAAACCCGGCTACGCTTCAGCTATGA
TGACTGCCATCTCCCCAGGTTCTCCAAGCCAGCACCCATGTTCTCGGATGACTCCTTTCGCAAGTGGC
TAGGATCCGGGAGTTTGTGCCACCTTTGGGATCAAAGGTCAAGACAATCTGATCAAAGCCATCTTGTC
GTCACCAAAGAATACCGCTGACCCCTGCCTTGGACAGCCTCCACTGCCGCCGCTGCATCATTGTAGGCA
ATGGAGGGGTCTCGCCAACAAGTCTCTGGGGTACCGATTGACGACTATGACATTGTGATCAGACTGAA
CTCAGCACCTGTGAAGGGCTTTGAGAGGGACGTGGGCAGCAAGACCCTACGCATCACCTACCCTGAG
GGGCCATGCAGCGACCTGAGCAATATGAACGAGACTCTCTTTGTCTCGTGGCTTCAAGTGGCAGG
ACTTCAAGTGGCTGAAGTACATCGTCTACAAGGAGAGAGTGAGTGCATCTGATGGCTTCTGGAAGTCCGT
GGCCACCCGAGTGCCCAAGGAGCCCCCTGAGATCCGCATCCTCAACCCATACTTCATCCAGGAGGCTGCC
TTCACTCTATTGGACTGCCCTTCAACAACGGCCTCATGGGCAGAGGGAACATCCAACCCCTTGGCAGT
TGGCAGTGACCATGGCACTACACGGCTGTGATGAAGTGGCAGTCGCGGGCTTTGGCTATGACATGAAC
ACCCAATGCACCCCTGCACTACTATGAACTGTGCGCATGGCAGCCATCAAAGAGTCTGGACACACAAC
ATCCAGCGAGAGAAAGAGTTTCTGCGGAAGCTAGTGAAGGCACGTGCATCACTGACTTAAGCAGCGGTA
TC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205814 protein sequence
Red=Cloning site Green=Tags(s)

MGLLVFVRNLLLALCLFLVLGFLYYSAWKLHLLQWEDSNLLLLSLDSAGQTLGTEYDRLGLLKLDSKLP
 AELATKYANFSEGACKPGYASAMMTAIFPRFSKPAPMFLDSSFRKWARIREFVPPFGIKGQDNLKAILS
 VTKEYRLTPALDSLHCRRCIIVNGGVLANKSLGSRIDDYDIVIRLNSAPVKGFERDVGSKTTLRITYPE
 GAMQRPEQYERDSLFLAGFKWQDFKWLKYIVYKERVASDGFWKSVA TRVPKEPPEIRILNPYFIQEAA
 FTLLIGLPFNGLMGRNIPTLGSVAVTMALHGCDDEVAVAGFGYDMNTPNAPLHYETVRMAAIKESWTHN
 IQREKEFLRKLVKARVITDLSSGI

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001161774

ORF Size: 1125 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_001161774.1](#), [NM_001161774.2](#), [NP_001155246.1](#)

RefSeq Size: 2287 bp

RefSeq ORF: 1125 bp

Locus ID: 20441

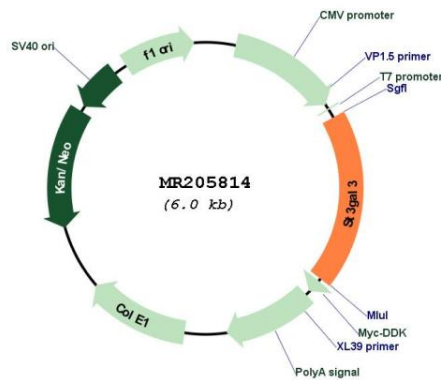
UniProt ID: [P97325](#)

Cytogenetics: 4 D1- D2.1

MW: 42.1 kDa

Gene Summary: Catalyzes the formation of the NeuAc-alpha-2,3-Gal-beta-1,4-GlcNAc-, NeuAc-alpha-2,3-Gal-beta-1,3-GlcNAc- and NeuAc-alpha-2,3-Gal-beta-1,3-GalNAc- sequences found in terminal carbohydrate groups of glycoproteins and glycolipids. The highest activity is toward Gal-beta-1,3-GlcNAc and the lowest toward Gal-beta-1,3-GalNAc.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205814