

Product datasheet for MR229467

St3gal3 (NM_001285521) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	St3gal3 (NM_001285521) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	St3gal3
Synonyms:	Siat3; Siat6; ST3GalIII; ST3N
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR229467 representing NM_001285521 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGACTCTTGGTATTTGTGCGCAATCTGCTGCTAGCCCTCTGCCTCTTCTGGTCTGGGATTTTTGT
ATTATTCTGCCTGGAAGCTACACTTACTCCAATGGGAAGACTCCAAGTATGATAGGCTGGCTTCTCTCT
GAAGCTGGACTCTAAACTGCCTGCCGAGCTAGCCACCAAGTACGCAAACCTTTCCGAGGGAGCTTGCAA
CCCGGCTACGCTTCAGCCATGATGACTGCCATCTTCCCCAGGTTCTCAAGCCAGCACCCATGTTCTCTGG
ATGACTCCTTTCGCAAGTGGGCTAGGATCCGGGAGTTTGTGCCACCTTTTGGGATCAAAGTCAAGACAA
TCTGATCAAAGCCATCTTGTCACTCACCAAGAATACCGCCTGACCCCTGCCTTGGACAGCCTCCACTGC
CGCCGCTGCATCATTGTAGGCAATGGAGGGTCTCGCCAACAAGTCTCTGGGGTACGGATTGACGACT
ATGACATTGTGATCAGACTGAACTCAGCACCTGTGAAGGGCTTTGAGAGGGACGTGGGCAGCAAGACCAC
CCTACGCATCACCTACCCTGAGGGCGCCATGCAGCGACCTGAGCAATATGAACGAGACTCTCTTTGTCT
CTCGTGGCTTCAAGTGGCAGGACTTCAAGTGGCTGAAGTACATCGTCTACAAGGAGAGAGTGAAGTGCAT
CTGATGGCTTCTGGAAGTCCGTGGCCACCCGAGTGCCCAAGGAGCCCCCTGAGATCCGCTCCTCAACCC
ATACTTCATCCAGGAGGCTGCCTTCACTCTCATTGGACTGCCCTTCAACAACGGCCTCATGGGCAGAGGG
AACATCCCAACCCCTTGGCAGTGTGGCAGTGACCATGGCACTACACGGCTGTGATGAAGTGGCAGTGC
GCTTTGGCTATGACATGAACACACCCAATGCACCCCTGCACTACTATGAAACTGTGCGCATGGCAGCCAT
CAAAGAGTCTGGACACACAACATCCAGCGAGAGAAAGAGTTTCTGCGGAAGCTAGTGAAGGCACGTGTC
ATCACTGACTTAAGCAGCGGTATC

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229467 representing NM_001285521
 Red=Cloning site Green=Tags(s)

MGLLVFVRNLLLALCLFLVLGFLYYSAWKLHLLQWEDSKYDRLGFLLLKLD SKLPAELATKYANFSEGACK
 PGYASAMMTAIFPRFSKPAPMFLDDSFWRKWARIREFVPPFGIKGQDNLKAILSVTKYRLTPALDSLHC
 RRCIIVNGGVLANKSLGSRIDYDIVIRLNSAPVKGFERDVGSKTTLRITYPEGAMQRPEQYERDSL FV
 LAGFKWQDFKWLKYIVYKERVASDGFVKSVATRVKPEPEIRILNPYFIQEAFTLIGLPFNNGLMGRG
 NIPTLGSVAVTMALHGCD EAVAGFGYDMNTPNAPLHYYETVRMAAIKESWTHNIQREKEFLRKLVKARV
 ITDLSSGI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

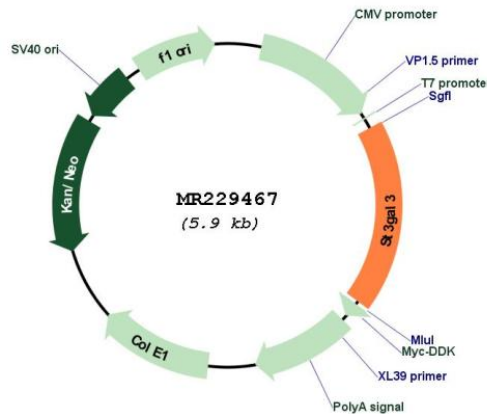
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001285521

ORF Size:	1074 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:	<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:	NM_001285521.1 , NP_001272450.1
RefSeq Size:	2239 bp
RefSeq ORF:	1077 bp
Locus ID:	20441
Cytogenetics:	4 D1- D2.1
MW:	41 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]