

Product datasheet for MR205419

St8sia1 (NM_011374) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	St8sia1 (NM_011374) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	St8sia1
Synonyms:	9330109E03Rik; GD3S; Sia-T; Siat8; Siat8a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205419 representing NM_011374 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC

ATGAGCCCTGCGGGCGGCCCTACATACGTCCAGAGGGGCCATGGCCATGCTAGCTCGAAATCCCGCGTACCCGGCTACCCGTAGGAGCCAGTGCCTCTGTGTGGTGGTCTCTGTTGGCTCTACATCTTCCCTGTCTACCGGTGCCAACGAGAAGGAGATTGTGCAAGGGGTGCTGGCACAGCGGACGGCTTGGAGGACGAACAGACGTCAGCCAGTCTTTCAGGAGACAAATGGAAGACTGCTGTGACCCTGCCATCTCTTTGCTATGACTAAGTAACTCCCCATGGGAAGAGCCTGTGGTACGATGGGGAGCTTTATACTCGTTCACCATCGATAATCCACGTAATCCCTTCCCCAGCAACCCCTTCCAGCTGCCATTGAAGAAATGTGCGGTGGTGAAACCGTGGGATTCTGAAGATGAGTGGCTGTGGCCGTCAAATAGATGAAGCAAATTTGTGTCATGCGGTGCAACCTGCCTCCCTGTCAAGTACACAGAGATGTCGGTCCAAAACCTAGTTGGTGACAGCTAACCCAGCATAATTCGCCAGAGATTTGAAAACCTGCTGTGGTCCAGAAAGAAGTTTGTGGACAACATGAAGATCTATAACCACAGTTACATCTACATGCCTGCCTTTTCTATGAAGACAGGCACAGAGCCGTCTCCGTGTGATTACACACTGAAAGATGTTGGAGCCAATCAAACAGTGTCTTTTGTAAACCCAACTTTCTTCGGAACATTGGAAAGTTCTGGAAGATAGGGGATCCACGCCAAGCGCTGTCTACAGGACTCTTTTGGTGAGTGCAGCCTTGGCCCTCTGTGAGGAGGTGCCATCTATGGCTTCTGGCCCTCTCGTGAACATGCAAGGGGACCTATCAGTACCACTACTATGACAACGCTTGGCCCTTCTCAGGCTACCATGCCATGCCATGAGGAATTCCTCAGCTTTGGTATCTTCACAAAATCGGCGCGCTGAGGATGCAGCTGGACCCGTGTGAGGAGCCGTCCACAGCCCACTTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205419 representing NM_011374
Red=Cloning site Green=Tags(s)

MSPCGRALHTSRGAMAMLARKFPRTRLVPGASALCVVVLWCWLYIFPVYRLPNEKEIVQGVLAQRTAWRTN
 QTSASLFRRQMEDCCDPAHLFAMTKMNSPMGKSLWYDGELLYSFTIDNSTYSLFPQATPFQLPKKCAVV
 GNGGILKMSGGRQIDEANFVMRCNLPLSSEYTRDVGSKTQLVTANPSIIRQRFENLLWSRKKFVDNMK
 IYNHSYIYMPAFSMKTGTETPSLRVYYTLKDVGANQTVLFANPNFLRNIGKFWKSRGIHAKRLSTGLFLVS
 AALGLCEEVSIYGFWPFVSNMQGDPISHHHYDNLVLPFSGYHAMPEEFLQLWYLHKIGALRMQLDPCCEPS
 PQPTS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9019_g04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_011374

ORF Size: 1065 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_011374.2](#), [NP_035504.2](#)

RefSeq Size: 8995 bp

RefSeq ORF: 1068 bp

Locus ID: 20449

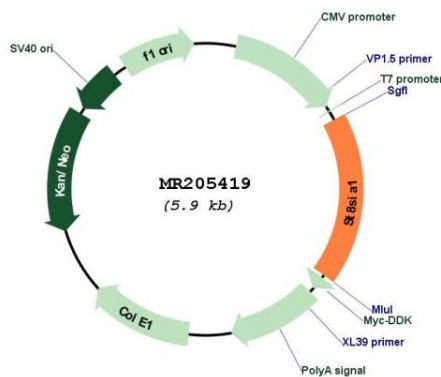
UniProt ID: [Q64687](#)

Cytogenetics: 6 74.78 cM

MW: 40.8 kDa

Gene Summary: Involved in the production of gangliosides GD3 and GT3 from GM3; gangliosides are a subfamily of complex glycosphingolipids that contain one or more residues of sialic acid. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205419