

Product datasheet for MR218712

St8sia5 (NM_013666) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	St8sia5 (NM_013666) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	St8sia5
Synonyms:	Siat8e; ST8SiaV
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR218712 representing NM_013666 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGCTACGCAGACCCCTCCGCCAACAGAGATTTGTTGGGAATCGAACTTTGCTCTTTATCTTCATCT
GCGCCTTTGCCTTGGTGACCTTGCTTCAGCAGATCCTGTACAGCAAGAGCTACATCAAAAGAGGCTTCCA
GTTTGGTTGGCAGAGGGGCGACCAACAGGCCAATTGGACTGGGCTCTTAAATGACAGCGACGCCAACA
GAGCAGAACATCACTGGCTCCAGCTCCAGTACTTCGAGTTTACAAGGAGCCTTAGAGTTAACTCCA
CGAGATGCCTGGAGCTGAGGCAGGAGATCCTGGAGGTGAAGGTGCTGTCCATGGTGAAGCAGTCTGAACT
CTTCGAAAGGTGGAAGAGTCTCCAGATATGCAAATGGGCAATGGACACCGCGGAAGCCAGCCTCTTCAAG
TCCACCTTGCCAGGTGCTGCAATGCCCCAGCTTTCTCTTACCACCCAGAAGAACACCCCGGTGGAGA
CGAATCTCAGGTATGAGGTGGAATCCAGCGCTTATATCACATCGACCAGGAGATCTTAAAAATGTTTCC
CAAGGAAATGCCCTACTACCGCTCTCAGTTAAGAAGTGTGCTGTGGTGGCAATGGCGGCATCTTGAAG
AACAGCGGCTGCGGGAAGGAGATCAACAGTGTGACTTTGCTTCCGGTGAACCTGCCCCCATCTCAG
GGATATATACCACAGATGTGGGAGAGAAGACAGATGTAGTCACCGTGAATCCCAGCATCATAATTGACAG
GTTCCACAAGTTGGAGAAGTGGCGGCGGCTTTCTTCCAGCGTGTGCAGAGGTACGAGAAGCAGCCTCAGT
CTGCTGCCAGCGTTCTACAACGTCGCAACACCCCTGGTATCCTTCCGAGTCAAATACATGCTGGACGAT
TCCAGTCGCGGCAGCCGGTCTACTTCTTCCACCCGAGTACCTGAGCAGTGTGTCGCGCTACTGGCTCAG
CCTGGGTGTGCGCGCGGCGTATCAGCACCGGCTCATCCTGGTCACCGCGGCCCTGGAGCTCTGCGAG
GAGGTGCACCTGTTTCGGTTTCTGGGCTTCCCATGAACCCCTCCGGCTTCTTCATCACGCACCATTA
ATGACAACGTCAGCCCAAGCCGGTTTCCATGCTATGCCCTCGGAGATCTTACCTTCTGCGCATGCA
CAGCCGCGCATCCTTCGCGTGCACACAGGCACCTGCAATTGCTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR218712 representing NM_013666
Red=Cloning site Green=Tags(s)

MRYADPSANRDLLGNRTLLFIFICAFALVTLQQLYSKSYIKRGFQFGWQRGDQQANWTGLFNDSDSPT
 EQNITGSSSRIFYEFYKEPLEFNSTRCLERQEI LEVKVL SMVKQSEL FERWKS LQICKWAMDTAEASLFK
 STL SRCCNAPSFLFTTQKNTPVETNLRYEVESGLYHIDQEIFKMFPEMPYRSQFKKCAVVGNGGILK
 NSGCGKEINSADVFVRCNLPPISGIYTTDVGEKTDVVTVNPSIIIDRFHKLEKWRPFFSVLQRYENASV
 LLPAFYNVNRTLVSFRVKYMLDDFQSRQPVYFFHPQYLSSVSRYWLSLGVRRRISTGLILVTALELCE
 EVHLFGFWAFPMNPSGFFITHHYDVKPKPGFHAMPSEIFTFLRMHSGILRVHTGTCC

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_013666

ORF Size: 1236 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_013666.2](#), [NP_038694.2](#)

RefSeq Size: 2114 bp

RefSeq ORF: 1239 bp

Locus ID: 225742

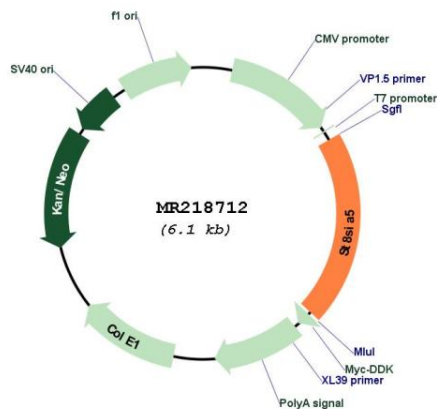
UniProt ID: [P70126](#)

Cytogenetics: 18 E3

MW: 48.3 kDa

Gene Summary: May be involved in the synthesis of gangliosides GD1c, GT1a, GQ1b and GT3 from GD1a, GT1b, GM1b and GD3 respectively.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR218712