

## Product datasheet for **MR205823**

### St8sia2 (NM\_009181) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	St8sia2 (NM_009181) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	St8sia2
Synonyms:	A1323367; Siat8b; ST8Siall; STX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205823 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCAGCTGCAGTTCGGAGCTGGATGCTGGCCGCGCTTACGCTGCTCGTGGTCTTCTCATCTTCGCAG  
ACATCTCAGAGATCGAAGAAGAAATCGGGAATTCGGAGGCAGAGGTACAATCAGATCAGCTGTGAACAG  
CTTACATAGCAAATCTAATAGAGCTGAAGTTGTAATAAATGGCTTTACCGCCAGCTGTCGCTGACAGA  
AGTAATGAAAGCCTTAAGCACAAATCCAGCCAGCCTCATCAAATGGAGACACAACCAGACGCTCTCTC  
TGAGGATCAGGAAGCAAATTTAAAGTTCTTGGATGCGGAGAAGGATATTTCTGTCCTTAAGGGGACCT  
GAAGCCTGGAGACATTATTCATTATATCTTTGATCGAGACAGCACAATGAACGTGTCCAGAACCTCTAT  
GAACTCCTCCCCAGAACCTCACCTCTGAAGAATAAGCATTTCAGACTTGTGCCATCGTGGGCAACTCGG  
GGTCTTGTGTAACAGCGGCTGTGGCCAGGAGATTGACACACACAGCTTTGTCATAAGGTGCAACCTGGC  
TCCAGTTCAGGAGTATGCCCGGGATGTGGCCCTCAAGACAGACCTAGTGACCATGAACCCCTCTGTCA  
CAGCGGGCCTTTGAGGACCTTGTGAACGCCACGTGGCGGGAAGCTGCTGCAGCGGCTGCACGGCTCA  
ATGGGAGCATCCTGTGGATCCCTGCCTCATGGCCCGGGTGGCAAGGAGCGTGTGGAGTGGTCAATGC  
TCTCATCTGAAGCACCATGTGAACGTGCGCACGGCTTACCCTTCCCTGCGCTGCTGCACGCAGTCCGA  
GGATATTGGCTGACCAACAAAGTCCACATCAAAGACCAACCACCGCCCTTTGATGTACACCCCTGGCCA  
CAGCTTCTGCAATCAGATCTACCTTTATGGCTTCTGGCCCTTCCCACTGGATCAGAATCAGAACCCTCG  
CAAGTATCACTATTATGACAGCCTCAAGTATGGCTACACTTCCCAGGCCAGCCCCACACCATGCCCTTG  
GAATTCAGGCCCTCAAGAGCCTACATGAACAGGGGCATTGAAACTGACTGTGCGCCAGTGTGATGGGG  
CTACG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR205823 protein sequence  
 Red=Cloning site Green=Tags(s)

MQLQFRSWMLAAL TLLVVFLIFADISEIEEEEIGNSGGRGRTIRSAVNSLHSKSNRAE VVINGSSPPAVADR  
 SNESLKHNIQPASSKWRHNQTL SLRIRKQILKFLDAEKDISVLKGTLPKGDIIHYIFDRDSTMVNSQNL Y  
 ELLPRTSPLKNKHFQTCAIVGN SGVLLNSGCGQEIDTHSFVIRC NLAPVQ EYARDVGLKTDLVTMNP SVI  
 QRAFEDLVNATWREKLLQRLHGLNGSILWIPAFMARGGKERVEV VNALILKHHVNVRTA YPSLRLLHAVR  
 GYWL TNKVHIKRPTTGLLMYTLATRF CNQIYLYGF WPFPLDQ NQNPVKYHYD SLKYGYTSQASPH TMLP  
 EFKALKSLHEQGALKLTVGQCDGAT

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\_009181

**ORF Size:** 1128 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\\_009181.2](#), [NP\\_033207.2](#)

**RefSeq Size:** 5376 bp

**RefSeq ORF:** 1128 bp

**Locus ID:** 20450

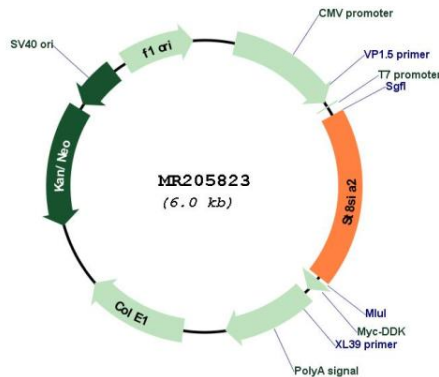
**UniProt ID:** [O35696](#)

**Cytogenetics:** 7 D1

**MW:** 42.4 kDa

**Gene Summary:** May transfer sialic acid through alpha-2,8-linkages to the alpha-2,3-linked and alpha-2,6-linked sialic acid of N-linked oligosaccharides of glycoproteins and may be involved in PSA (polysialic acid) expression.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR205823