

Product datasheet for **MR225587**

St8sia4 (NM_001159745) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: St8sia4 (NM_001159745) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: St8sia4
Synonyms: PST; PST-1; SIAT8-D; Siat8d; ST8SialV
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR225587 representing NM_001159745
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCGCTCAATTAGAAAACGGTGGACCATCTGCACTATAAGTCTACTCCTGATCTTTTATAAGACAAAAG
AAATAGCCAGAAGTGGAGACCAAGAGACGCAACTCATCGGAGATGGTGAAGTGTGTTTGAGCAGATC
ACTTGTCACAGCTCTGATAAAATCATCCGGAAGGCTGGCTCCACCATCTCCAACATTCTGTACAAGGC
TGGAAAATCAATTCTTCTTTAGTCCTGGAGATAAGGAAGAACATTCTTCGTTTCTTAGATGCGGAACGTG
ACGTATCTGTGGTCAAGAGCAGTTTTAAGCCTGGTGTATGCATACACTATGTGCTGGACAGACGCCGGAC
ACTAAATATTTCTCACAATCTGCATAGCCTCCTGCCTGAAGTTTCACCAATGAAAAACCGCAGGTTTAAG
ACCTGTGCAGTTGTTGAAAATCCGGCATTCTGCTAGACAGTGGATGTGGAAAGGAGATTGACAGCCACA
ACTTTGTAATAAGGTGCAATCTAGCTCCTGTGGTGGAGTTCGCTGCTGATGTGGGGACTAAATCAGATTT
TATTACCATGAATCCATCAGTTGTGCAAAGAGCATTGGAGGCTTTCGGAATGAGAGTGACAGAGAAAAA
TTTGTGCATAGACTCTCCATGCTGAATGACAGCGTCCTTTGGATTCTGCCTTCATGGTCAAAGGAGGAG
AGAAGCACGTGGAGTGGTTAATGCATTAATCCTTAAGAACAACTGCAAGTGCGAACTGCCTATCCATC
ACTTAGACTTATTCATGCAGTCAGAGGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR225587 representing NM_001159745
Red=Cloning site Green=Tags(s)

MRSIRKRWICTISLLLIFYKTKEIARTEEHQETQLIGDGELCLSRSLVNSSDKIIRKAGSTIFQHSVQG
 WKINSSLVLEIRKNILRFLDAERDVSVVKSSFPGDVIHYVLDLRRRTLNI SHNLHSLLEPVSPMKNRRFK
 TCAVVGNSGILLDSGCGKEIDSHNFVIRCNLAPVVEFAADVGTSDFITMNPVSVQRAFGGFRNESDREK
 FVHRLSMLNDSVLWIPAFMVKGGKEKHVEWYNALILKNKLQVRTAYPSLRLIHAVRG

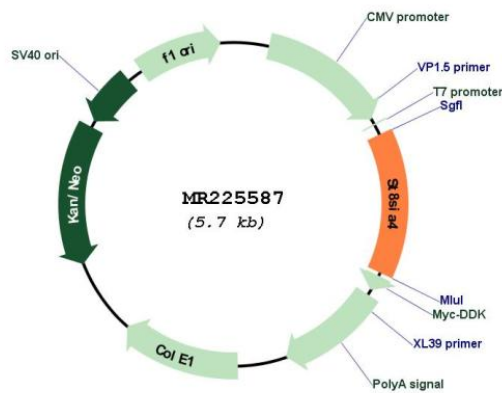
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001159745

ORF Size: 798 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_001159745.1 , NP_001153217.1
RefSeq Size:	1394 bp
RefSeq ORF:	801 bp
Locus ID:	20452
UniProt ID:	Q64692
Cytogenetics:	1 D
MW:	30.7 kDa
Gene Summary:	Catalyzes the polycondensation of alpha-2,8-linked sialic acid required for the synthesis of polysialic acid (PSA), which is present on the embryonic neural cell adhesion molecule (N-CAM), necessary for plasticity of neural cells.[UniProtKB/Swiss-Prot Function]