

Product datasheet for **MG225587**

St8sia4 (NM_001159745) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	St8sia4 (NM_001159745) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	St8sia4
Synonyms:	PST; PST-1; SIAT8-D; Siat8d; ST8SialV
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG225587 representing NM_001159745 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGCTCAATTAGAAAACGGTGGACCATCTGCACTATAAGTCTACTCCTGATCTTTTATAAGACAAAAG
AAATAGCCAGAAGTGGAGCAGCAAGAGACGCAACTCATCGGAGATGGTGAAGTGTGTTTGAGCAGATC
ACTTGTCAACAGCTCTGATAAAATCATCCGGAAGGCTGGCTCCACCATCTTCCAACATTCTGTACAAGGC
TGGAAAATCAATTCTTCTTTAGTCCTGGAGATAAGGAAGAACATTCTTCGTTTCTTAGATGCGGAACGTG
ACGTATCTGTGGTCAAGAGCAGTTTTAAGCCTGGTGTGATGCATACACTATGTGCTGGACAGACGCCGGAC
ACTAAATATTTCTCAAACTGTCATAGCCTCCTGCCTGAAGTTTACCAATGAAAAACCGCAGGTTTAAG
ACCTGTGCAGTTGTTGAAATCCGGCATTCTGCTAGACAGTGGATGTGAAAGGAGATTGACAGCCACA
ACTTTGTAATAAGGTGCAATCTAGCTCCTGTGGTGGAGTTCGCTGCTGATGTGGGGACTAAATCAGATTT
TATTACCATGAATCCATCAGTTGTGAAAGAGCATTGGAGGCTTTCGGAATGAGAGTGACAGAGAAAAA
TTTGTGCATAGACTCTCCATGCTGAATGACAGCGTCCTTTGGATTCTGCCTTCATGGTCAAAGGAGGAG
AGAAGCACGTGGAGTGGGTTAATGCATTAATCCTTAAGAACAACTGCAAGTGCGAACTGCCTATCCATC
ACTTAGACTTATTCATGCAGTCAGAGGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG225587 representing NM_001159745
Red=Cloning site Green=Tags(s)

MRSIRKRWICTISLLLIFYKTKEIARTEEHQETQLIGDGELCLSRSLVNSSDKIIRKAGSTIFQHSVQG
 WKINSSLVLEIRKNILRFLDAERDVSVVKSSFPGDVIHYVLDRRRTLNI SHNLHSLLEPVSPMKNRRFK
 TCAVVGNSGILLDSGCGKEIDSHNFVIRCNLAPVVEFAADVGTSDFITMNPVSVQRAFGGFRNESDREK
 FVHRLSMLNDSVLWIPAFMVKGGKEKHVEWYNALILKNKLQVRTAYPSLRLIHAVRG

TRTRPLE - GFP Tag - V

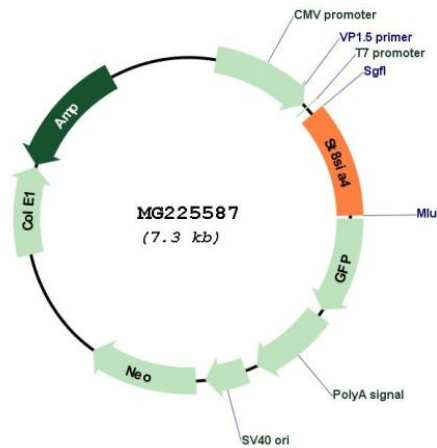
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



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
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]