

Product datasheet for **MG205502**

St8sia4 (NM_009183) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	St8sia4 (NM_009183) 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:	>MG205502 representing NM_009183 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGCTCAATTAGAAAACGGTGGACCATCTGCACTATAAGTCTACTCCTGATCTTTTATAAGACAAAAG
AAATAGCCAGAAGTGGAGACCAAGAGACGCAACTCATCGGAGATGGTGAAGTGTGTTTGAGCAGATC
ACTTGCAACAGCTCTGATAAAATCATCCGGAAGGCTGGCTCCACCATCTCCAACATTCTGTACAAGGC
TGGAAAATCAATTCTTCTTTAGTCTGGAGATAAGGAAGAACATTCTTCGTTTCTTAGATCGGGAACGTG
ACGTATCTGTGGTCAAGAGCAGTTTTAAGCCTGGTGTGATGCATACACTATGTGCTGGACAGACGCCGGAC
ACTAAATATTTCTCAAACTGTCATAGCCTCCTGCCTGAAGTTTCACCAATGAAAAACCGCAGGTTTAAG
ACCTGTGCAGTTGTTGAAATCCGGCATTCTGCTAGACAGTGGATGTGGAAGGAGATTGACAGCCACA
ACTTTGTAATAAGGTGCAATCTAGCTCCTGTGGTGGAGTTCGCTGCTGATGTGGGGACTAAATCAGATTT
TATTACCATGAATCCATCAGTTGTGCAAAGAGCATTGGAGGCTTTCCGGAATGAGAGTGACAGAGAAAA
TTTGTGCATAGACTCTCCATGCTGAATGACAGCGTCCTTTGGATTCTGCCTTCATGGTCAAAGGAGGAG
AGAAGCACGTGGAGTGGGTTAATGCATTAATCCTTAAGAACAACTGCAAGTGCGAAGTGCCTATCCATC
ACTTAGACTTATTCATGCAGTCAGAGGATACTGGCTGACTAACAAAGTTCTATCAAAGACCTAGCACA
GGTCTCCTCATGTATACACTTGCCACCAGATTCTGTGATGAAATTCACCTTTATGGATTCGGCCATTC
CCAAGGATCTGAATGAAAAGCTGTCAAATATCATTACTATGATGACTTAAAATATAGATACTTTTCCAA
CGCCAGTCTCACAGGATGCCATTAGAATTTAAAACATTGAGTGTGCTACACAATAGAGGAGCTCTAAAA
CTGACCACAGAAAGTGCATGAAGCAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205502 representing NM_009183
 Red=Cloning site Green=Tags(s)

MRSIRKRWTICTISLLLIFYKTKEIARTEEHQETQLIGDGELCLSRSLVNSSDKIIRKAGSTIFQHSVQG
 WKINSSLVLEIRKNILRFLDAERDVSVVKSSFPGDVIHYVLDRRRTLNI SHNLHSLLEPVSPMKNRRFK
 TCAVVGNSGILLDSGCGKEIDSHNFVIRCNLAPVVEFAADVGTKSDFITMNPSSVQRAFGGFRNESDREK
 FVHRLSMLNDSVLWIPAFMVKGGKEKHVEWYNALILKNKLQVRTAYPSLRLIHAVRGYWLTKVPIKRPST
 GLLMYTLATRFCEIHL YGFWPFKDLNGKAVKYHYDDLKYRYFSNASPHRMPLEFKTLSVYLHNRGALK
 LTTGKCMKQ

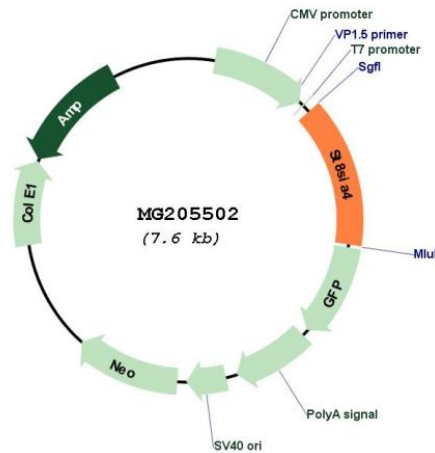
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_009183

ORF Size:	1077 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_009183.1 , NP_033209.1
RefSeq Size:	6786 bp
RefSeq ORF:	1080 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]