

Product datasheet for **RG227398**

SHISA9 (NM_001145205) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SHISA9
Synonyms:	CKAMP44
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG227398 representing NM_001145205
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGCCGCGTCTTCGGCTGCTCCTCGGTTGCTTCTCACCGAGCTGTGCGCCCGCGTGTGCCGGGCGC
AGGAGCGAGCGGGACACGGGCAGCTGGCGCAACTGGGCGCGTGTGCTGCTGGCGGGGGCAACCGCTC
CGGGGCGCGCTCCGGAGAGGCCAGCGAGGGCGCTGAGGCATCGGACGCGCCCCGACCCGGGCGCCACG
CCGGACTTCTGCCGGGCTACTTCGATGTCATGGGCCAGTGGGACCCCGCTTCACTGCAGCTCGGGCG
ACTTCATCTTCTGCTGCGGGACTTGTGGCTTCCGGTTCTGCTGCACGTTTAAGAAGCGCGACTGAACCA
AAGCACCTGCACCAACTACGACACGCGCTCTGGCTCAACACCGGCAAGCCCCCGCCGCAAGGACGAC
CCCTTGACGACCCACCAAGGACAAGACCAACCTGATCGTCTACATCATCTGCGGGGTGGTGGCCGTCA
TGGTGTCTGTTGGCATCTTACCAAGCTGGGCTGGAGAAAGCGCACCGGCCCAAAGGAGCACATGTC
CAGGCTCTATGACAATCTGCTGTTTATGGAGGCACAGATTTCTTTCCAAGAGGACGAACCTGCCCTGGA
GAGTGGAGTGTGGACTTCAAACCTGGACAGTC

ACGCGTACGCGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG227398 representing NM_001145205
Red=Cloning site Green=Tags(s)

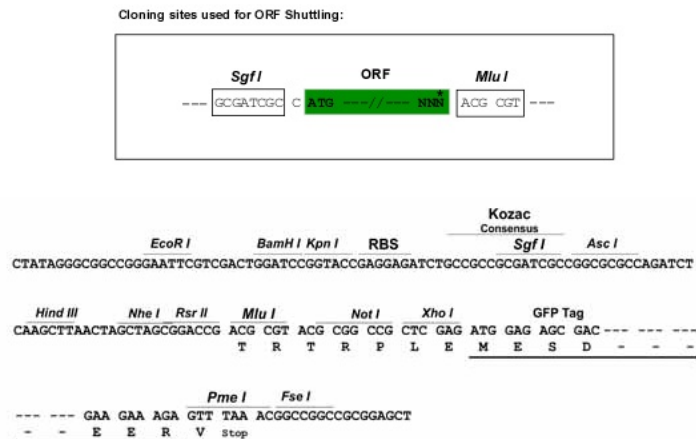
MRRVLRLLLCFLTELCAVRCRAQERAGHGQLAQLGGVLLLAGNRSAGSAGEASEGAEASDAPPTRAPT
PDFCRGYFDVMGQWDPFNCSSGDFIFCCGTCGFRFCCTFKRRLNQSTCTNYDTPLWLNTGKPPARKDD
PLHDPTKDKTNLIYIIICGVVAVMVLVGIFTKLGLKAHRPQREHMSRLYDNLFLMEAQISFQDEPAPG
EWSVGLQTWTV

TRTRPLE - GFP Tag - V



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001145205

ORF Size: 663 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001145205.2](#)

RefSeq Size: 4245 bp

RefSeq ORF: 666 bp

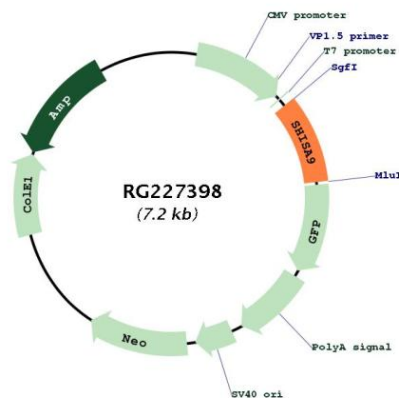
Locus ID: 729993

UniProt ID: [B4DS77](#)

Cytogenetics: 16p13.12

Gene Summary: Regulator of short-term neuronal synaptic plasticity in the dentate gyrus. Associates with AMPA receptors (ionotropic glutamate receptors) in synaptic spines and promotes AMPA receptor desensitization at excitatory synapses (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG227398