

Product datasheet for **RG227529**

SHISA9 (NM_001145204) 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: >RG227529 representing NM_001145204
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTGCGGCCCGGGCGGCTCGCAGCTCCCGGCAGCAGCTCGGCAGTTCGGCCGCGCCTCGAGAGGCG
 GCCGCAGAGGCTCCAGCGCGGCCGAGCGGCCGAGCCGGGCTGGGAGACCATGCGCCGCGTCTTCG
 GCTGCTCCTCGGTTGTTCTCACCAGCTGTGCGCCCGCTGTGCCGGGCGCAGGAGCGAGCGGGACAC
 GGGCAGCTGGCGCAACTGGGCGGCGTGTGCTGCTGGCGGGGGCAACCGCTCCGGGGCCGCTCCGGAG
 AGGCCAGCAGGGCGCTGAGGCATCGGACGCGCCCCGACCGGGCGCCACGCGGACTTCTGCCGGG
 CTACTTCGATGTGATGGGCCAGTGGGACCGCGCTTCAACTGCAGCTCGGGCGACTTCATCTTCTGCTGC
 GGGACTTGTGGTTCCGGTTCTGCTGCACGTTTAAAGAAGCGCGACTGAACCAAGCACCTGCACCAACT
 ACGACACGCGCTCTGGCTCAACACCGGCAAGCCCCCGCCGCAAGGACGACCCCTTGACGACCCAC
 CAAGGACAAGACCAACCTGATCGTCTACATCATCTGCGGGTGGTGGCCGTATGGTCTCGTGGGCATC
 TTCACCAAGCTGGGGCTGGAGAAAGCGCACCGGCCCAAGGGAGCACATGTCCAGGGCCCTTGCAGATG
 TCATGAGACCAAGGGCCACTGCAACACTGATCAGATGAGAGAGACCTAAACATCGTTGTCCACGTCCA
 GCATTATGAGAATGACACGAGAACCCCATAAATAATCTTCATGCCACCCAGATGAACAACGCGAGT
 CCCACCTCTCTGCTCCAGCAGATGGGCCATCCACATTCGTACCCGAACCTGGGCCAGATCTCCAACC
 CCTATGAACAGCAGCCACCAGGAAAAGAGCTCAACAAGTACGCTCCTTAAAGGCAAGTCGGAAGTTCTGA
 TGGTACTGGGCGATATCGACACTTAAGTACCAAAAAGCTGACAAGGTCAATGACGACTTCTACACCAAG
 CGACGGCACCTGGCTGAGCTGGCTGCCAAGGGGAACCTACCTCTGCACCCCGTAAGAGTGGAGGACGAGC
 CCCGGGCTTCAGCCCTGAGCAGGTCCTGCCAAGCAGAATGGACAGAAGTCCCGCACCAACAAGATGCC
 CCCACATCCCTGGCTACACCTCTACCACCAACTTTAAGGGCTGGGACCCCAACGAGCAGTCCCTCCGG
 CGGCAGGCTTACAGCAACAAGGGCAAGCTTGGCACGGCCGAGACAGGCTCCAGCGACCCCTTGGGAATC
 GCCCCAGCACTACCCACCCACAGCCATACTTCATCACCAACAGCAAAACAGAAGTACTGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG227529 representing NM_001145204
 Red=Cloning site Green=Tags(s)

MCPRRLLAAPGSSLGSFGRASRGRRGSSGGRAAEPGLGDTMRRVLRLLLCFLTELCAVRCRAQERAGH
 GQLAQLGGVLLLAGGNRSGAASGEASEGAEASDAPPTRAPTPDFCRGYFDVMGQWDPFNCSSGDFIFCC
 GTCGFRFCCTFKRRRLNQSTCTNYDTPLWLNTGKPPARKDDPLHDPTKDKTNLIVYIICGVVAVMVLVGI
 FTKLGLKAHRPQREHMSRALADVMPQGHGCHNDHMERDLNIVVHVQHYENMDTRTPINNLHATQMNAV
 PTSPLLQMGPHPSYPNLGQISNPYEQQPPGKELNKYASLKAVGSSDGDWAVSTLKSADKVNDDFYTK
 RRHLAELAAKGNLPLHPYRVEDEPRAFSPEHGPAKQNGQKSRNTKMPHPLAYSTTNFKGWDPNQSLR
 RQAYSNGKLGTAETGSSDPLGTRPQHYPYPQYFITSKTEVTV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001145204

ORF Size: 1395 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.

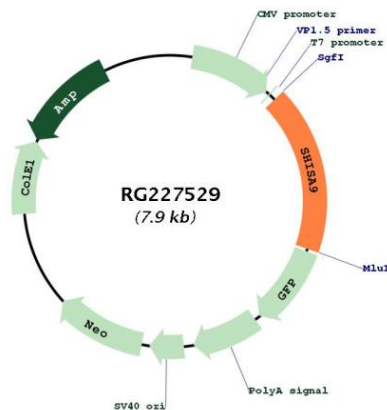
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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:	<u>NM_001145204.1, NP_001138676.1</u>
RefSeq Size:	6727 bp
RefSeq ORF:	1275 bp
Locus ID:	729993
UniProt ID:	<u>B4DS77</u>
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 RG227529