

Product datasheet for **RG227079**

SHISA7 (NM_001145176) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SHISA7
Synonyms:	CKAMP59
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG227079 representing NM_001145176
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCCGGCCCTCCTGCTCCTCGTACTCTGGCCTCTAGCGCCGGCCAGGCCAGGGCGCGCCCGTCCAACG
 CCACGAGCGCCGAGCCCGCGGGCCCGCTGCCCGCCCTGCTGGCGCACCTGCGGCGCCTGACCGGGGCGCT
 GACGGGCGCGGGGGCGCGGCAGGCCAGGCGCCAACGGCACCAGGACCGGCCCGCGGGCGGGGCGGGC
 GCGGCGGCCCGGGCGCCCTCCCGCCGAGCTCTGCCACGGCTACTACGATGTCATGGGCCAGTACGACG
 CCACCTTCAACTGCAGCACCAGGCTCCTACCGCTTCTGCTGTGGCACCTGCCACTACCGCTTCTGCTGTGA
 GCACCGTCAATGCGCCTGGCGCAGGCTCCTGCTCCAACACGACACGCGCGCTGGGCCACACGCGCG
 CCGCCGCTAGCTGGGGGCGCGGGGGCGCTGGGGGTGCGGGCGGGGGCCAGGGCCCGGCCAGGCCGGGT
 GGTTGAAGGGGGCGGACTGGGGGTGCCGGGGCGCGGGGGCGAGGGCCCGGGGGCAGCACAGCCTA
 CGTCGTGTGCGGGGTATCAGCTTCGCCCTGGCCGTGGGCGTGGCGCCAAAGTGGCCTTCAGCAAGGCG
 TCCCGTGCGCCCGGGCGCACCAGGATATCAACGTGCCAGAGCTCTGGTGGACATTCTGAGACATCAGG
 CGGGGCTGGGACCGCCCGGACCGGGCCGAAGCAGCTCCCTGACCCCGGGATCGGCGGTCCCGACAG
 CATGCCCCCAGGACGCCCAAGAACCTCTACAACCGTGAAGACCCCAACCTCGACTGGCGAGCCTTG
 CCGCGCCCGAGCCCTCCTTGCACTACTCCAGCTGTCTGCTCTCGGTCCTTCCACAACCTCTCGCATC
 TGCCCCGTCTACGAGGTGCGGTGAAATCCGAGCTGAACCGCTACTCTCCCTCAAGAGGTGCGCCGA
 GAAGGATCTGGACGAGGCTACCTGAAGCGCCGCGCCCTGGAATTGCCCGCGGCACGCTGCCCCGTCAC
 GCGCTGCGGCGGCCGGGCACGGGGGCGGCTATCGCATGGAGGCTGGGGCGGCCAGAGGAGCTGGGCC
 TGGCGCCCGCGCCAAACCCCGGGGTATGTCCAGGAGCAGCTGCTGGGCGATGGTGGCCGTTTCGCG
 CTACGAGTTCAGCTGCGCGCGCGCGCTGGTGTGCGAGGACAGCTGCTGCTGCTCGCCCGAGGCC
 CTGCGCCAGAGTCGCGAGCAGCTGCTGTCGCCCGCGCAGCCCGCGCTGCCCCCGACCCACCGCCC
 GGGCCAGCTGGCCGCTCGCACTCCAACCTGCTGCTGGGGCCCGGGGGGCCCAACACCGCTGCGCGG
 GCTGCCGCCACCGTCCAGCTGCACGCCACCACCACGCGCTGCACGGCTCGCCGACGCGGCTGG
 ATGTCGACGCGCGGGGGCGGGGGCACACTGGCCCGCAGGCGCCCTTCCAGCGCCAGGACAGCTGG
 AGCAGCTGCAGTTCATCCGGGCCACACCTGCCCCAGCAGCTGCGCACGGCCAGCAAGAACGAGGTGAC
 TGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG227079 representing NM_001145176
 Red=Cloning site Green=Tags(s)

MPALLLVLLASSAGQARARPSNATSAEPAGPLPALLAHLRRLTGALTGGGGAASPGANGTRTPAGGAG
 AAARAPPPAELCHGYDVMQYDATFNCSTGSYRCCGTCHYRFCCEHRHMLAQASCSNYDTPRWATTP
 PPLAGGAGGAGGAGGPGQAGWLEGGRTGGAGGRGGEGPGGSTAYVVCVVISFALAVGVGAKVAFSKA
 SRAPRAHRDINVPRALVDILRHQAGPTRPDARSSSLTPGIGGPDSPMPRTPKNL YNTVKTPNLDWRAL
 PPPSPSLHYSTLSCSRSFHNL SHLPPSYEAAVKSELNRYSSLRKLAEKDLDEAYLKRRPLELPRGTLPLH
 ALRRPGTGGGYRMEAWGGPEELGLAPAPNRRVMSQEHL LGDGRSRYEFTLPRARLVSQEHL LSSPEA
 LRQSRHLLSPPRSPALPPDPTARASLAASHNLL LGPGPPTPLRGLPPPSSLHAHHHHALHGSPQPAW
 MSDAGGGGTLARRPPFQRQGTLEQLQFIPGHLPQHLRTASKNEVTV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001145176

ORF Size: 1614 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:

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.

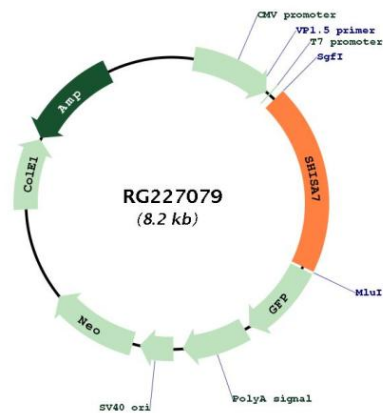
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001145176.1](#), [NP_001138648.1](#)

RefSeq Size: 6035 bp

RefSeq ORF:	1617 bp
Locus ID:	729956
UniProt ID:	<u>A6NL88</u>
Cytogenetics:	19q13.42
Gene Summary:	Regulator of long-term synaptic potentiation specifically involved in the formation and retrieval of hippocampus-dependent contextual fear memory. Probably regulates induction and maintenance of long-term potentiation at Schaffer collaterals/CA3-CA1 excitatory synapses by affecting the recruitment of AMPA-type glutamate receptor (AMPA) at postsynaptic density.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG227079