

Product datasheet for **RG227240**

SHISA6 (NM_207386) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SHISA6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG227240 representing NM_207386
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCGCTGCGGCGCCTCCTGCTGCTGCTGCTGCTCTCGTGGAGTCCCTGGACCTGCTGCCAGCGTCC
 ACGGAGCCCGCGGCCGCGCCCAACCGGACCTGAGTGCAGGCGGCGCTGCCGTGCGGGGCGCGAGGGC
 CGGGGGCGCCCTGGCACGGGGCGGCCGAGCTGAACGGCACCGCCCGGGCGCCCGGAATCCCGGAGGCG
 GGAAGCCGGCGGGGCGAGCCCGCGCGGCTGTGGCGGCGCGGCCAGCGCGGCCGTACCTACGAGACGT
 GCTGGGGCTACTACGACGTGAGCGGCCAGTACGACAAGGAGTTCGAGTGTAAACAGCGAGAGCGGCTA
 CCTGTACTGCTGCGGTACCTGCTACTACCGCTTCTGCTGCAAGAAGCGCCACGAGAAGCTGGACCAAGCGC
 CAGTGCACCAACTACCAGAGCCCGGTGTGGGTACAGACGCCAGCACCAAGGTGGTGTGCGCGGGGCCCG
 AGAACAAGTACGACCCGGAAGGACAAGCAACTTACCGTCTACATCACCTGCGGGGTGATCGCCTT
 CGTCATCGTGGCGGCGTCTTCCCAAGGTCTCCTACGACAAGGCCACCGCCCTCCACGGAGATGAAC
 ATCCACAGGCTCTGGCTGACATCTTAAGACAACAGGGACCAATCCCCATAGCACACTGTGAAAGAGAAA
 CTATCTCGGCTATCGATACCTCTCCAAAGAGAACACGCCGGTCTAGATCGTCTCCAAAAACCACTACAC
 TCCTGTGCGTACGGCCAAGCAGACTCCAGGGCATTATGGGAAGGATGCTTACCGAAGTGGAGGACCTGAT
 CTCCTAACTTCATCTCATCTGGATTTGTACATTAGGAAGAGGACACCAAGGGTATCATCAATATA
 ACCATCCGATTTTGGCAGTGTACCCAGATCCCGCCACATGAGAAGCCACGGATGAACAACATCCTGAC
 ATCAGCCACCGAGCCCTATGACCTCTCCTTCTCCCGCTCGTTCCAGAACTTGGCCCACTGCCCCATCC
 TACGAGTCTGCAGTAAAGACCAACCCAGCAAGTATTCATCTCTGAAGAGGCTAACCGACAAGGAGGCTG
 ACGAGTATTACATGAGACGGCGGCACCTGCCGACCTGGCTGCCCGCGGCACCTCCCTCTCAATGTCAT
 CCAGATGTCCCAACAGAAGCCGTTGCCAAGGGAACGACCCCGCGGCCATCCGGGCCATGTCCAGGAC
 AGGGTCTGTCCCGGATCGGGGCTGCCAGATGAGTTCAGCATGCCCTACGACCGCATCTGTCCGACG
 AGCAGTGTCTCCACGGAGCGCTGCACTCCAGGACCGCTGCTGTCCCGGAGCGGACGGCCTTTCC
 CGAGCAGTCGCTGCCAGGCCATCTCGCACACGAGCTCTTGTGTCCACCCGTGCTGGACCGCTAC
 CGCATGAGCAAGATGCACTCTCATCCAGTGCCTCCAATAACTCATACGCCACCTGGGCCAGAGCCAGA
 CGGCAGCCAAGCTCATGCCTTTGCCTCACGCAGACACAACACGGTGGAGCAGTGCCTACATCCCGGG
 CCACCACCTGCTACACAGCCAGCAAGACCGAAGTGACCGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAA

Protein Sequence: >RG227240 representing NM_207386
 Red=Cloning site Green=Tags(s)

MALRRLLLLLLSLESLLPSVHGARGRAANRTL SAGGAAVGRRAGGALARGGRELNGTARAPGIPEA
 GSRRGQPAAAVAAAASAVTYETCWGYDVSGQYDKEFECNNSESGLYCCGTCYYRFCKKRHEKLDQR
 QCTNYQSPVWVQTPSTKVVSPPENKYDPEKDKTNFTVYITCGVIAFVIVAGVFAKVSYDKAHRPPREMN
 IHRALADILRQQPIPIAH CERETISAIDTSPKENTPVRSSSKNHYTPVRTAKQTPGHYKDAYRSGGPD
 LHNFISSGFVTLGRGHTKGDHYNHPILSSVTQIPPEKPRMNNILTSATEPYDL SFSRFSQNLHLPPS
 YESAVKTNPSKYSSLKRLTDKEADEYMRRLPDLAARGTLPLNVIQMSQQKPLPRERPRRPIRAMSQD
 RVLSPDRGLPDEF SMPYDRILSDEQLLSTERLHSQDPLLSPERTAFPEQSLSRAISHTDVFVSTPVLDRY
 RMSKMHSPSASNNSYATLGQSQTAAKRHAFASRRHNTVEQLHYIPGHHTCYTASKTEVTV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_207386

ORF Size: 1653 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_207386.4](#)

RefSeq Size: 2231 bp

RefSeq ORF: 1656 bp

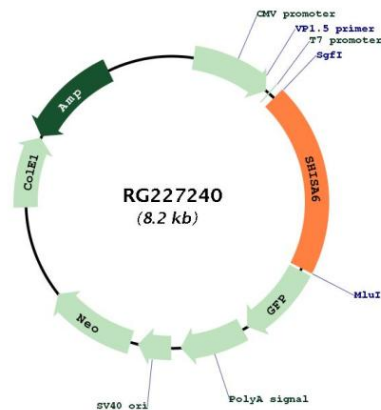
Locus ID: 388336

UniProt ID: [Q6ZSJ9](#)

Cytogenetics: 17p12

Gene Summary: Involved in maintenance of high-frequency synaptic transmission at hippocampal CA3-CA1 synapses. Regulates AMPA-type glutamate receptor (AMPA) immobilization at postsynaptic density keeping the channels in an activated state in the presence of glutamate and preventing synaptic depression. May play a role in self-renewal and differentiation of spermatogonial stem cells by inhibiting canonical Wnt signaling pathway.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG227240