

## Product datasheet for **MR221616**

### Shisa9 (NM\_028277) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Shisa9 (NM_028277) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Shisa9
Synonyms:	2700045P11Rik; Ckamp44
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR221616 representing NM\_028277  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCGCCGAGTCCTTCGGCTGCTTCTCGGCTGCTTCTCACCGAGCTGTGTGCCGCATGTGCCGGGCGC  
 AGGAGCGATCTGGGCACGGGCAGCTAGCGCAACTGGGCGGCGTACTGCTGCTCACAGGGGCAACCGCTC  
 CGGAGCCGCCTCCGGAGAGGCCGGCGAGGGCGTGGGGGCTCGGACGCACCGCCGACTCGAGCGCCACG  
 CCAGACTCCTGTGGGGTACTTCGATGTATGGGCCAGTGGACCCGCCGTTCAACTGCAGCTCGGGCG  
 ACTTCATCTTCTGCTGCGGGACTTGTGGCTTCCGGTCTGCTGCACGTTTAAAGACGGCGACTGAACCA  
 GAGCACCTGTACCAACTACGACACGCCACTCTGGCTTAACACGGGCAAGCCCCAGCGCGTAAGGATGAC  
 CCCTTGCACGACCCACCAAGGACAAGACCAACCTTATCGTCTACATCATCTGCGGGGTGGTGGCTGTCA  
 TGGTGTGGTGGGCATCTTACCAAGCTGGGGCTGGAGAAAGCGCACCGCCCCAAAGGGAACACATGTC  
 CAGAGCCCTTGGGATGTATGAGGCCACAGGGCCACTGCAACTGACCACATGGAGAGAGACCTTAAC  
 ATCGTGGTCCACGTGCAGCATTATGAGAACATGGACTCAAGAACCCCATAAATAATCTCCATACCACTC  
 AGATGAACAACGCAGTGCCCACTTCTCCTCTGCTCCAGCAGATGGGACACCCACATTCATACCCCACT  
 GGGTCAGATTTCTAATCCATATGAACAGCAGCTCCAGGCAAAGAGCTCAACAAGTACGCCTCCTTAAAG  
 GCAGTAGGAAATCTGATGGTACTGGGCAAGTGGCAACGCTTAAGTACCAAAAAGCTGACAAGGTCAATG  
 ATGACTTCTACGCCAAAAGAAGGCACCTGGCAGAGCTGGCTGTCAAGGAAATCTCCCTTTGACCCCTGT  
 AAGAGTGAAGATGAGCCTCGCGCCTTACAGCCAGAGCACGGGCTGCACAGCAGAATGGACAGAAGTCT  
 CGCACCAACAAGATGCCCCACATCCCCGGCCTACAACCTACTGCCAATTTAAGACCTGGGACCCCA  
 GTGACCACTCTCCGGCGGCAGGCTTATGGCAACAAGGCAAGCTTGGCATAGCTGAGTCAGGCTCTTG  
 TGACCCCTTGGGACTCGCACCCAGCACTTCCACCCACACAGCCATATTCATCACTAACAGCAAAAACA  
 GAAGTGACTGTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR221616 representing NM\_028277  
 Red=Cloning site Green=Tags(s)

MRRVLRLLLGCFLELCARMCRAQERSGHGQLAQLGGVLLL TGGNRSGAASGEAGEGVGGS DAPPTRAPT  
 PDSCRGYFDVMGQWDPFNCSSGDFIFCCGTCGFRFCCTFKKRRLNQSTCTNYDTPLWLNTGKPPARKDD  
 PLHDPTKDKTNLIVYIICGVVAVMVLVGI FTKLGLEKAHRPQREHMSRALADV MRPQGH CNTDHMERDLN  
 IVVHVQHYENMDSRTPINNLHTTQMNAVPTSP LLQQMGHPHSYPNLGQISNPYEQQPPGKELNKYASLK  
 AVGNSDGDWAVATLSPKADKVNDDFYAKRRHLAELAVKGNLPLHPVRVEDEPRAF SPEHGPAQQNGQKS  
 RTNKMPHPLAYNSTANFKTWDPSDSLRRQAYGNKGKLGIAESGSDPLGTRTQHFPPTQPYFITNSKT  
 EVTV

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9090\\_f07.zip](https://cdn.origene.com/chromatograms/mm9090_f07.zip)

**Restriction Sites:**

SgfI-MluI

## Cloning Scheme:



ACCN: NM\_028277

ORF Size: 1272 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.

RefSeq: [NM\\_028277.2](#), [NP\\_082553.2](#)

RefSeq Size: 4844 bp

RefSeq ORF: 1275 bp

Locus ID: 72555

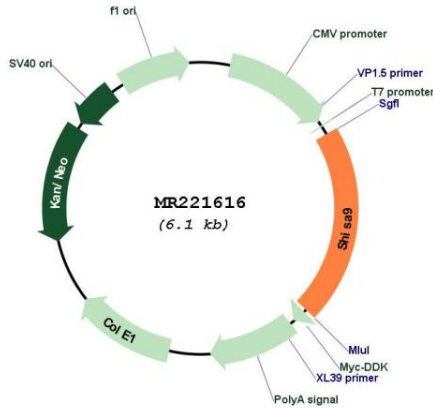
UniProt ID: [Q9CZN4](#)

Cytogenetics: 16

MW: 46.8 kDa

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.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR221616