

## Product datasheet for RC212973

### SHISA5 (NM\_016479) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SHISA5 (NM_016479) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SHISA5
Synonyms:	SCOTIN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC212973 representing NM_016479 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACTGCGCCGGTCCCCGCGCCGGATCCTGTTGCCGTTGCTGTTGCTGCTGCTAACGCCGCTC  
CGGGTGCACGTGGTGAGGTGTGTATGGCTTCCCGTGGACTCAGCCTCTTCCCGAGTCTGTCCAGATTT  
CTGCTGTGGTACCTGTGATGACCAATACTGCTGCTCTGACGTGCTGAAGAAATTTGTGTGGAGCGAGGAA  
AGGTGTGCTGTGCTGAGGCCAGCGTGCCTGCCAGTGTAGAGCCGGTGGAGCAGCTGGGCTCGGCGCTGA  
GGTTTCGCCCTGGCTACAACGACCCCATGTCAAGGTTTCGGAGCGACCTTGCCGTTGGCCTGACCATCTT  
TGTGCTGTCTGTGCTCACTATCATCTGCTTACCTGCTCCTGCTGCTGCCTTACAAGACGTGCCGC  
CGACCAGTCCGGTTGTCAACACCACCATCCACCCTGTGGTGCATGCCCTTATCCTCAGCCTCCAA  
GTGTGCCGCCAGCTACCCTGGACCAAGCTACCAGGGCTACCACCATGCCGCTCAGCCAGGGATGCC  
AGCAGCACCTACCAATGCAGTACCCACCCTTACCCAGCCAGCCCATGGGCCACCCGGCTACCAC  
GAGACCTGGCTGGAGGAGCAGCCGCGCCCTACCCGCCAGCCAGCCTCCTTACAACCCGGCTACATGG  
ATGCCCGAAGGCGGCCCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC212973 representing NM\_016479  
Red=Cloning site Green=Tags(s)

MTAPVPAPRILLPLLLLLLTPPPGARGEVCMASRGLSLFPESCPDFCCGTCDDQYCCSDVLKKFVWSEE  
 RCAVPEASVPASVEPVEQLGSALRFRPGYNDPMSGFGATLAVGLTIFVLSVVTIIICFTCSCCCLYKTCR  
 RPRPVVTTTTSTTVVHAPYPQPPSVPPSYPGPSYQGYHTMPPQPGMPAAPYPMPQYPPYPAPQPMGPPAYH  
 ETLAGGAAAPYPASQPPYNPAYMDAPKAAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6108\\_g04.zip](https://cdn.origene.com/chromatograms/mk6108_g04.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_016479

**ORF Size:** 720 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\\_016479.4](#)

**RefSeq Size:** 2166 bp

**RefSeq ORF:** 723 bp

**Locus ID:** 51246

**UniProt ID:** [Q8N114](#)

**Cytogenetics:** 3p21.31

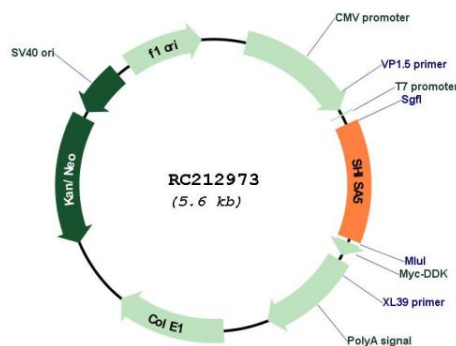
**Protein Families:** Transmembrane

**Protein Pathways:** p53 signaling pathway

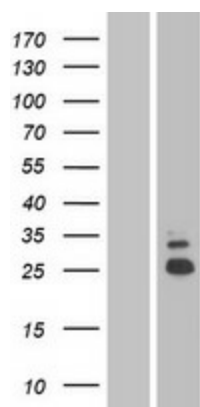
**MW:** 25.4 kDa

**Gene Summary:** This gene encodes a member of the shisa family. The encoded protein is localized to the endoplasmic reticulum, and together with p53 induces apoptosis in a caspase-dependent manner. Alternative splicing results in multiple transcript variants. Related pseudogenes of this gene are found on chromosome X. [provided by RefSeq, Apr 2016]

### Product images:



Circular map for RC212973



Western blot validation of overexpression lysate (Cat# [LY402556]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212973 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).