

## Product datasheet for RC220414

### SHISA2 (NM\_001007538) Human Tagged ORF Clone

#### Product data:

|                           |                                                                                              |
|---------------------------|----------------------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                                          |
| Product Name:             | SHISA2 (NM_001007538) Human Tagged ORF Clone                                                 |
| Tag:                      | Myc-DDK                                                                                      |
| Symbol:                   | SHISA2                                                                                       |
| Synonyms:                 | bA398O19.2; C13orf13; hShisa; PRO28631; TMEM46; WGAR9166                                     |
| Mammalian Cell Selection: | Neomycin                                                                                     |
| Vector:                   | pCMV6-Entry (PS100001)                                                                       |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                                                         |
| ORF Nucleotide Sequence:  | <p>&gt;RC220414 representing NM_001007538</p> <p>Red=Cloning site Blue=ORF Green=Tags(s)</p> |

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTGGGGCGCTCGCCGCTCGTCCGTCTCCTCATCCTGGAACGCCGCTTCGCTCCTGCAGCTGCTGCTGG  
 CTGCGCTGCTGGCGCGGGGGCGAGGGCCAGCGCGAGTACTGCCACGGCTGGCTGGACGCGCAGGGCGT  
 CTGGCGCATCGGCTTCCAGTGTCCCGAGCGCTTCGACGGCGCGACGCCACCATCTGCTGCGGCAGCTGC  
 GCGTTGCGCTACTGCTGCTCCAGCGCCGAGGCGCGCTGGACCAGGGCGGCTGCGACAATGACCGCCAGC  
 AGGGCGCTGGCGAGCCTGGCCGGGCGGACAAAGACGGCCCGACGGCTCGGCAGTGCCCATCTACGTGCC  
 GTTCCTCATTGTTGGCTCCGTGTTTGTGCCTTTATCATCTTGGGTCCCTGGTGGCAGCCTGTTGCTGC  
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 TCCCCATGATCCCCAGTGCCAGCACCTCCCGGGGTGTCCTCACGCCAGTCCAGCACAGCTGCCAGTTC  
 CAGCTCCAGCGCCAACCTCAGGGGCCGGGCGCCCCAACAAAGGTCACAGACCAACTGTTGCTTGCCGGAA  
 GGGACCATGAACAACGTGTATGTCAACATGCCACGAATTTCTCTGTGCTGAAGTGTGACAGGCCACCC  
 AGATTGTGCCACATCAAGGGCAGTATCTGCATCCCCATACGTGGGTACACGGTGCAGCAGCAGCTGT  
 GCCCATGACAGCTGTGCCACCTTTCATGGACGGCTGCAGCCTGGCTACAGGCAGATTAGTCCCCCTTC  
 CTCACACCAACAGTGAACAGAAGATGTACCCAGCGGTGACTGTA

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA


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**Protein Sequence:** >RC220414 representing NM\_001007538  
 Red=Cloning site Green=Tags(s)

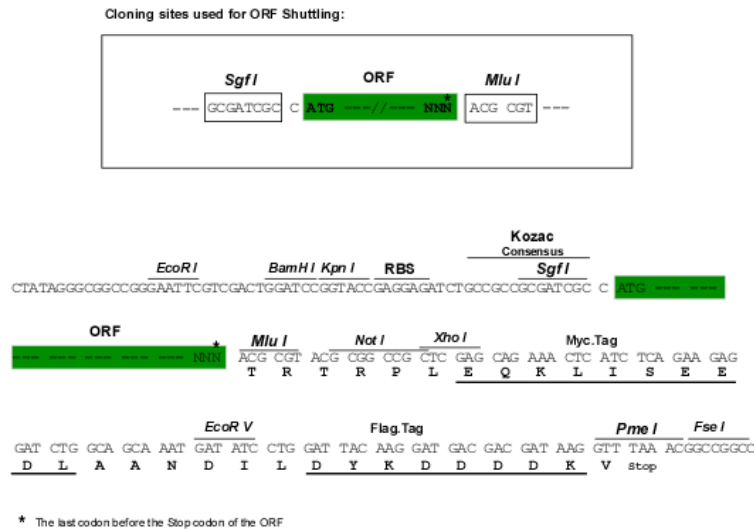
MWGARRSSVSSSWNAASLLQLLLAALLAAGARASGEYCHGWLDAQGVWRIGFQCPERFDGGDATICCGSC  
 ALRYCCSSAEARLDQGGCDNRQQGAGEPGRADKDGPDGSAVPIYVPFLIVGSVFVAFIILGSLVAACCC  
 RCLRPKQDPQSRAPGGNRLMETIPMIPSASTRGSSSRQSSTAASSSSANSGARAPPTRSQTNCLPE  
 GTMNNVYVNMPTNF SVLNCQQTQIVPHQGQYLHPPYVGTVQHDSPMTAVPPFMDGLQPGYRQIQSPF  
 PHTNSEQKMYPAVTV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mg4069\\_h05.zip](https://cdn.origene.com/chromatograms/mg4069_h05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001007538

**ORF Size:** 885 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\\_001007538.2](#)

**RefSeq Size:** 2889 bp

**RefSeq ORF:** 888 bp

**Locus ID:** 387914

**UniProt ID:** [Q6UWI4](#)

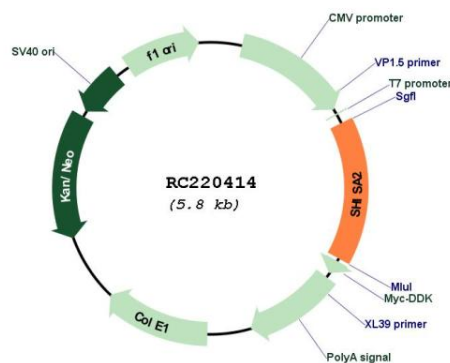
**Cytogenetics:** 13q12.13

**Protein Families:** Transmembrane

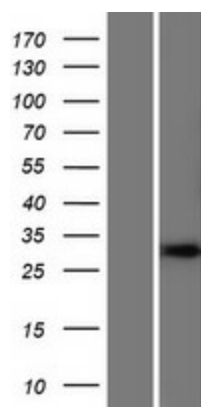
**MW:** 31.2 kDa

**Gene Summary:** Plays an essential role in the maturation of presomitic mesoderm cells by individual attenuation of both FGF and WNT signaling.[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for RC220414



Western blot validation of overexpression lysate (Cat# [LY423505]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220414 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).