

Product datasheet for **RG220414**

SHISA2 (NM_001007538) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SHISA2 (NM_001007538) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SHISA2
Synonyms:	bA398O19.2; C13orf13; hShisa; PRO28631; TMEM46; WGAR9166
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG220414 representing NM_001007538 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTGGGGCGCTCGCCGCTCGTCCGTCTCCTCATCCTGGAACGCCGCTTCGCTCCTGCAGCTGCTGCTGG
 CTGCGCTGCTGGCGCGGGGGCGAGGGCCAGCGCGAGTACTGCCACGGCTGGCTGGACGCGCAGGGCGT
 CTGGCGCATCGGCTTCCAGTGTCCCGAGCGCTTCGACGGCGCGACGCCACCATCTGCTGCGGCAGCTGC
 GCGTTGCGCTACTGCTGCTCCAGCGCCGAGGCGCGCTGGACCAGGGCGGCTGCGACAATGACCGCCAGC
 AGGGCGCTGGCGAGCCTGGCCGGGCGGACAAAGACGGCCCGACGGCTCGGCAGTGCCCATCTACGTGCC
 GTTCCTCATTGTTGGCTCCGTGTTTGTGCCTTTATCATCTTGGGTCCCTGGTGGCAGCCTGTTGCTGC
 AGATGTCTCCGGCCTAAGCAGGATCCCCAGCAGAGCCGAGCCCCAGGGGTAACCGCTTGATGGAGACCA
 TCCCCATGATCCCCAGTGCCAGCACCTCCCGGGGTGTCCTCACGCCAGTCCAGCACAGCTGCCAGTTC
 CAGCTCCAGCGCCAACCTAGGGGCGGGCGCCCCCAACAAGGTCACAGACCAACTGTTGCTTGCCGGAA
 GGGACCATGAACAACGTGTATGTCAACATGCCACGAATTTCTCTGTGCTGAAGTGTGACAGGCCACCC
 AGATTGTGCCACATCAAGGGCAGTATCTGCATCCCCATACGTGGGTACACGGTGCAGCAGCAGCTGT
 GCCCATGACAGCTGTGCCACCTTTCATGGACGGCTGCAGCCTGGCTACAGGCAGATTAGTCCCCCTTC
 CTCACACCAACAGTGAACAGAAGATGTACCCAGCGGTGACTGTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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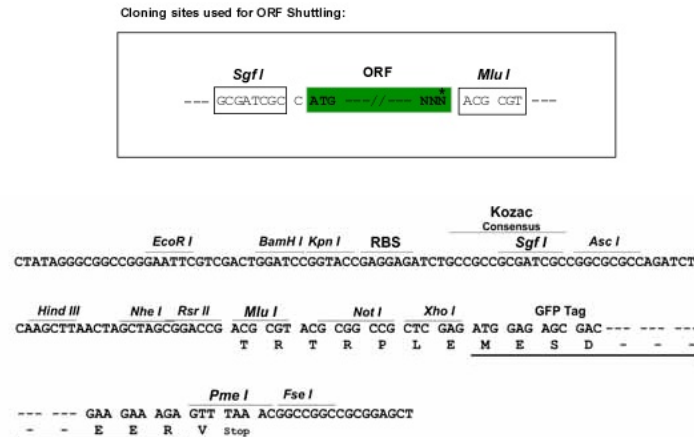
Protein Sequence: >RG220414 representing NM_001007538
 Red=Cloning site Green=Tags(s)

MWGARRSSVSSSWNAASLLQLLLAALLAAGARASGEYCHGWLDAQGVWRIGFQCPERFDGGDATICCGSC
 ALRYCCSSAEARLDQGGCDNDRQQGAGEPGRADKDGPDGSAVPIYVPFLIVGSVFVAFIILGSLVAACCC
 RCLRPKQDPQQSRAPGGNRLMETIPMIPSASTRGSSSRQSSTAASSSSANSGARAPPTRSQTNCLPE
 GTMNNVYVNMPTNFSVLNCQQTQIVPHQGQYLHPPYVGTVQHDSVPMTAVPPFMDGLQPGYRQIQSPF
 PHTNSEQKMYPAVTV

TRTRPLE - GFP Tag - V

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.

RefSeq: [NM_001007538.2](#)

RefSeq Size: 2889 bp

RefSeq ORF: 888 bp

Locus ID: 387914

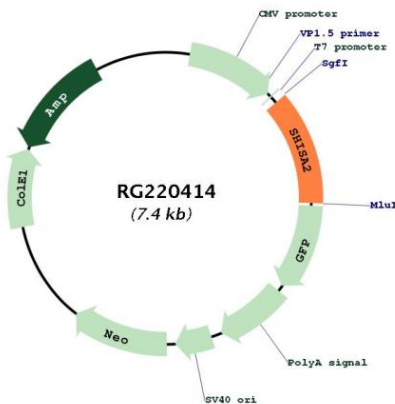
UniProt ID: [Q6UWI4](#)

Cytogenetics: 13q12.13

Protein Families: Transmembrane

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 RG220414