

## Product datasheet for **RC205365**

### **SFRP4 (NM\_003014) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SFRP4 (NM_003014) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SFRP4
Synonyms:	FRP-4; FRPHE; FRZB-2; PYL; sFRP-4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC205365 representing NM\_003014  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCCGTGGCTGGCTGCGCTCCGAGCTGCGGAGTCCGGGACTGGAGCTGCCCGGGCGGGTTCGCGCCCC  
 GAAGGCTGAGAGCTGGCGCTGCTCGTGCCCTGTGTGCCAGACGGCGGAGCTCCGCGGCCGACCCCGCGG  
 CCCCCTTTTGTGCCGACTGGAGTTGGGGGAAGAACTCTCTGCGCCCCAGAGGATTTCTTCTCGGC  
 GAAGGGACAGCGAAAGATGAGGGTGGCAGGAAGAGAAGGGCGCTTTCTGTCTGCCGGGTGCGAGCGCGA  
 GAGGGCAGTGCCATGTTCTCTCCATCCTAGTGGCGCTGTGCCTGGCTGCACCTGGCGTGGCGTGGC  
 CGGCGCGCCCTGCGAGGGGTGCGCATCCCTATGTGCCGGCACATGCCCTGGAACATCACGCGGATGCC  
 AACCACTGCACCACAGCAGCAGGAGAACGCCATCCTGGCCATCGAGCAGTACGAGGAGCTGGTGGACG  
 TGAAGTGCAGCGCGTGTGCGCTTCTTCTCTGTGCCATGTACGCGCCATTTGCACCTGGAGTTCCT  
 GCACGACCTATCAAGCGTGAAGTGGTGTGCCAACGCGCGCGGACGACTGCGAGCCCTCATGAAG  
 ATGTACAACCACAGCTGGCCGAAAGCCTGGCCTGCGACGAGCTGCCTGTCTATGACCGTGGCGTGTGCA  
 TCTCGCCTGAAGCCATCGTCACGGACCTCCCGGAGGATGTTAAGTGGATAGACATCACACCAGACATGAT  
 GGTACAGGAAAGGCTCTTGATGTTGACTGTAACGCCTAAGCCCGATCGGTGCAAGTGTAAAAAGGTG  
 AAGCCAACTTTGGCAACGTATCTCAGCAAAAACACAGCTATGTTATTATGCCAAAATAAAGCTGTGC  
 AGAGGAGTGGCTGCAATGAGGTACAACGGTGGTGGATGTAAAAGAGATCTTCAAGTCTCATACCCAT  
 CCCTCGAACTCAAGTCCCGCTCATTACAAATCTTCTTCCAGTGTCCACACATCCTGCCCATCAAGAT  
 GTTCTCATGTGTTACGAGTGGCGTTCAAGGATGATGCTTCTTGAATAATGCTTAGTTGAAAAATGGA  
 GAGTACGCTTAGTAAAAGATCCATACAGTGGGAAGAGAGGCTGCAGGAACAGCGGAGAACAGTTACAGGA  
 CAAGAAGAAAACAGCCGGCGCACCAAGTGTAGTAAATCCCCCAAAACAAAGGAAAGCCTCCTGCTCCC  
 AAACCAGCCAGTCCCAAGAAGAACATTAATACTAGGAGTGCCCGAAGAGAACAACCCGAAAAGAGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC205365 representing NM\_003014  
 Red=Cloning site Green=Tags(s)

MAVAGCAPSCGVRDWSCPGGFAPRRLRAGAARALCARRRSSAAGPRGPVLLPTGVWGKLSAPEDFFLG  
 EGTAKDEGGRKRRALSVCRGRSARGQCHVPLHPSGAVPVAAPGAVRGAPCEAVRIPMCRHMPWNITRMP  
 NHLHHSTQENAILAIEQYEELVDVNCSAVLRFFLCAMYAPICTLEFLHDPKPKSVCQRARDCEPLMK  
 MYNHSWPESLACDELVPYDRGVCISPEAIVTDLPELVKIDITPDMMVQERPLDVDCRRLSPDRCKCKV  
 KPTLATYL SKNYSYVIHAKIKAVQRSGCNEVTTVVDVKEIFKSSSPIRPTQVPLITNSSCQCPHILPHQD  
 VLIIMCYEWRSRMMLLENCLVEKWRDQLSKRSIQWEERLQEQRRTVQDKKKTAGRTSRSNPPKPKGKPPAP  
 KPASPKNIKTRSARKRTNPKRV

**TR**TRPLE**QKL**ISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6004\\_e06.zip](https://cdn.origene.com/chromatograms/mk6004_e06.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_003014

**ORF Size:** 1329 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 Size:** 2820 bp

**RefSeq ORF:** 1041 bp

**Locus ID:** 6424

**UniProt ID:** [Q6FHJZ](#)

**Cytogenetics:** 7p14.1

**Domains:** FRI, NTR

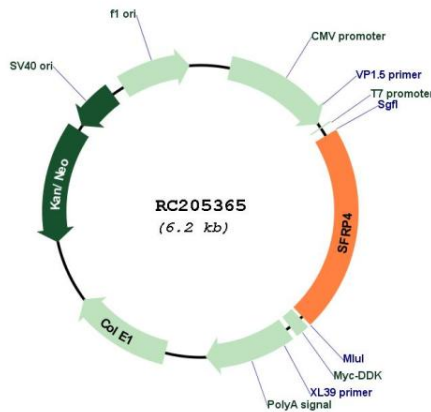
**Protein Families:** Adult stem cells, Cancer stem cells, Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein, Stem cell relevant signaling - Wnt Signaling pathway

**Protein Pathways:** Wnt signaling pathway

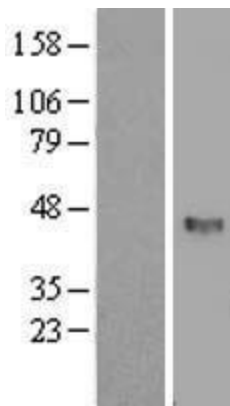
**MW:** 49.56 kDa

**Gene Summary:** Secreted frizzled-related protein 4 (SFRP4) is a member of the SFRP family that contains a cysteine-rich domain homologous to the putative Wnt-binding site of Frizzled proteins. SFRPs act as soluble modulators of Wnt signaling. The expression of SFRP4 in ventricular myocardium correlates with apoptosis related gene expression. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RC205365



Western blot validation of overexpression lysate (Cat# [LY401054]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205365 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).