

Product datasheet for RC202164

SFRP2 (NM_003013) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SFRP2 (NM_003013) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SFRP2
Synonyms:	FRP-2; SARP1; SDF-5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202164 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGCAGGGCCCTGGCTCGCTGCTGCTCTTCTCGCCTCGCACTGCTGCCTGGGCTCGGCGCGG
GGCTCTTCTCTTTGGCCAGCCGACTTCTCTACAAGCGCAGCAATTGCAAGCCCATCCCGGTCAACCT
GCAGCTGTGCCACGGCATCGAATACCAGAACATGCGGCTGCCAACCTGCTGGGCCACGAGACCATGAAG
GAGGTGCTGGAGCAGGCCGGCGCTTGGATCCCGCTGGTCATGAAGCAGTGCCACCCGGACACCAAGAAGT
TCCTGTGCTCGCTCTTCCGCCCCGTCTGCCTCGATGACCTAGACGAGACCATCCAGCCATGCCACTCGCT
CTGCGTGCAGGTGAAGGACCGCTGCGCCCCGGTCATGTCCGCCTTCGGCTTCCCTGGCCCCGACATGCTT
GAGTGCAGCCGTTTCCCCCAGGACAACGACCTTTCATCCCCCTCGCTAGCAGCGACCACCTCCTGCCAG
CCACCGAGGAAGCTCAAAGGTATGTGAAGCCTGCAAAAATAAAAATGATGATGACAACGACATAATGGA
AACGCTTTGTA AAAATGATTTTGCAGTAAAAATAAAAGTGAAGGAGATAACCTACATCAACCGAGATACC
AAAATCATCTGGAGACCAAGAGCAAGACCATTTACAAGCTGAACGGTGTGTCCGAAAGGGACCTGAAGA
AATCGGTGCTGTGGCTCAAAGACAGCTTGCAAGTGCACCTGTGAGGAGATGAACGACATCAACGCGCCCTA
TCTGGTCATGGGACAGAAACAGGGTGGGGAGCTGGTGATCACCTCGGTGAAGCGGTGGCAGAAGGGGCAG
AGAGAGTTCAAGCGCATCTCCCGCAGCATCCGCAAGCTGCAGTGC

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC202164 protein sequence
Red=Cloning site Green=Tags(s)

MLQGGPGLLLLFLASHCCLGSARGLFLFGQPDFSYKRSNCKPIPVNLQLCHGIEYQNMRLPNLLGHETMK
 EVLEQAGAWIPLVMKQCHPDTKKFLCSLFAVCLDDLDETIQPCHSLCVQVKDRCAPVMSAFGFPWPDML
 ECDRFPQDNDLCIPLASSDHLLPATEEAPKVCEACKNKNDNDNDIMETLCKNDFALKIKVKEITYINRDT
 KIILETKSKIYKLNKGVSERDLKKSVLWLKDSLQCTCEEMNDINAPYLVMGQKQGELVITSVKRWQKGQ
 REFKRISRSIRKLQC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6023_a08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003013

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_003013.3](#)

RefSeq Size: 2005 bp

RefSeq ORF: 888 bp

Locus ID: 6423

UniProt ID: [Q96HF1](#)

Cytogenetics: 4q31.3

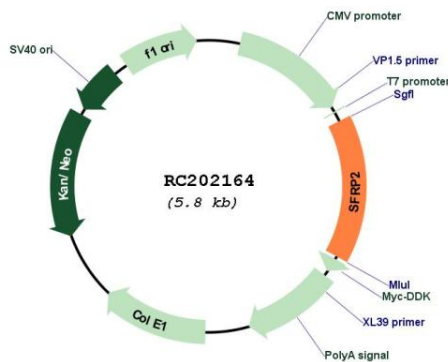
Protein Families: Secreted Protein

Protein Pathways: Wnt signaling pathway

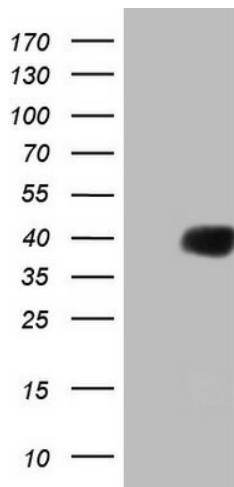
MW: 33.5 kDa

Gene Summary: This gene encodes 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. Methylation of this gene is a potential marker for the presence of colorectal cancer. [provided by RefSeq, Jul 2008]

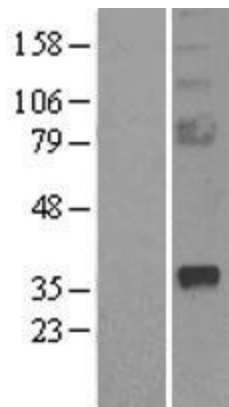
Product images:



Circular map for RC202164



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY SFRP2 (Cat# RC202164, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SFRP2 (Cat# [TA807387]). Positive lysates [LY401053] (100ug) and [LC401053] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY401053]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202164 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).