

## Product datasheet for **MR205321**

### Sfrp4 (NM\_016687) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sfrp4 (NM_016687) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sfrp4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205321 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTCCGCTCCATCCTGGTGGCGTTATGCCTGTGGCTGCGCCTGGCGCTGGGAGTGCGCGGAGCGCCCT  
GCGAAGCTGTGCGCATCCCCATGTGCAGGCACATGCCCTGGAACATCACCCGGATGCCAACACCTGCA  
CCACAGCACTCAGGAGAACGCCATCCTGGCCATCGAACAGTATGAAGAGCTAGTGGACGTGAAGTGCAGC  
TCTGTGCTGCGCTTCTTCCTTTGTGCCATGTACGCACCCATCTGTACCCTGGAGTTCCTGCACGATCCCA  
TCAAGCCCTGCAAGTCTGTGTGCCAGCGGCACGTGACGACTGCGAGCCCTCATGAAGATGTATAACCA  
CAGCTGGCCAGAGAGCCTGGCCTGCGATGAGCTGCCGGTCTATGACCGTGGAGTTTGTATCTCTCCAGAG  
GCAATAGTCACTGACCTCCAGAAGATGTGAAGTGGATAGACATCACACCAGATATGATGGTGAAGAAA  
GGTCCCTTTGATGCTGACTGTAACGTCTGAGCCCTGATCGGTGCAAGTGCAAAAAGGTGAAGCCGACCCCT  
GGCAACATACCTGAGCAAAAACACAGCTATGTTATTCATGCCAAAATAAAAGCCGTCCAGAGGAGTGGT  
TGCAATGAGGTCACAACCTGGTAGATGTAAAAGAGATCTCAAGTCTTTGTACCTATCCCTCGAACAC  
AAGTCCCTCTCATACCAATTCCTCCTGCCAGTGTCCACATATCCTGCCCCACCAAGATGCCTAATCAT  
GTGTTATGAGTGGCGTTCAAGGATGATGCTTCTTGAAAATTGCTTAGTTGAAAAGTGGAGAGATCAACTC  
AGTAGAAGGTCCATACAGTGGGAAGAGAGGCTTCAGGAACAGCAGAGAACAATTCAGGACAAGAAGCAGA  
TAGCCAGCCGACCAAGTGCACCAAGTTCGAGTAACCCCCCAAAGTCAAAGGGAAGGCCACCTGCTCCCAA  
ACCTGCCAGTCTAAGAAGAACATCAAAGCTAGAAGTGGCCCAAAAAGTCAAACCTGAAGAAAAGCGCA  
AGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR205321 protein sequence  
Red=Cloning site Green=Tags(s)

MLRSILVALCLWLRLALGVRGAPCEAVRIPMCRHMPWNI TRMPNHLHHSTQENAILAIEQYEELVDVNCSSVLRFFLCAMYAPICTLEFLHDPKPKSVCQRARDDCEPLMKMYNHSWPESLACDELVPYDRGVCISPEAIIVTDLPEDVKWIDITPDMMVQERSFDADCKRLSPDRCKCKVKPTLATYL SKNYSYVIHAKIKAVQRSGCNEVTTVVVDVKEIFKSLSPIRTPQVPLITNSSCQCPHILPHQDVLIMCYEWRSRMMLLENCLVEKWRDQLSRRRSIQWEERLQEQQRTIQDKKQIASRTSRTSRSNPPKSKGRPPAPKASPCKKNIKARSAPKKS NLKKSAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_016687

**ORF Size:** 1056 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\\_016687.1](#), [NM\\_016687.2](#), [NM\\_016687.3](#), [NP\\_057896.1](#)

**RefSeq Size:** 1780 bp

**RefSeq ORF:** 1056 bp

**Locus ID:** 20379

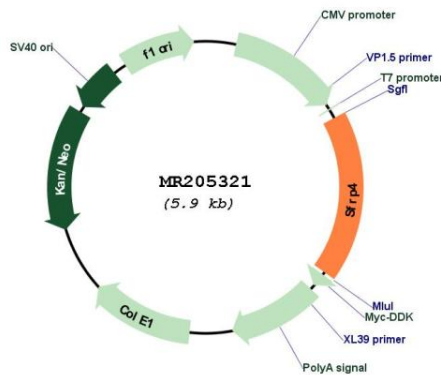
**UniProt ID:** [Q9Z1N6](#)

**Cytogenetics:** 13 6.99 cM

**MW:** 40.3 kDa

**Gene Summary:** Soluble frizzled-related proteins (sFRPS) function as modulators of Wnt signaling through direct interaction with Wnts. They have a role in regulating cell growth and differentiation in specific cell types (PubMed:27355534). SFRP4 plays a role in bone morphogenesis (PubMed:27355534). May also act as a regulator of adult uterine morphology and function. May also increase apoptosis during ovulation possibly through modulation of FZ1/FZ4/WNT4 signaling (By similarity). Has phosphaturic effects by specifically inhibiting sodium-dependent phosphate uptake (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR205321