

Product datasheet for **MG204470**

Sfrp1 (NM_013834) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sfrp1 (NM_013834) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sfrp1
Synonyms:	2210415K03Rik; AW011917; AW107218; AW742929; sFRP-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204470 representing NM_013834 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCGTCGGGCGCAGCGCGGGGTTCGCGGGGGCCGCTCGGGAGTGCTGCTGGCGTTGGCCGCCG
CTCTGCTGGCCTCGGTTTCGGCCAGCGAGTACGACTACGTGAGCTTCCAGTCCGACATCGGCTCGTATCA
GAGCGGGCGCTTCTACACCAAGCCCCGAGTGCCTGGACATCCCGGTGGACCTGAGGCTGTGCCACAAC
GTGGGCTACAAGAAGATGGTCTGCCAACCTGTGGAGCACGAGACCATGGCAGAGGTGAAGCAGCAGG
CCAGCAGCTGGGTCCGCTGCTCAACAAGAAGTCCACATGGGCACCCAGGTCTTCTCTGTTCGCTCTT
CGCGCCCGTCTGTCTGGACCGGCCATCTACCCGTGTCGCTGGCTCTGCGAGGCCGTGCGCGACTCGTGC
GAGCCGGTCATGCAGTTCTTCGGCTTCTACTGGCCGAGATGCTCAAATGTGACAAGTCCCCGAGGGCG
ACGTCTGCATCGCCATGACCCCGCCAATACCACGGAAGCCTCTAAGCCCCAAGGTACAACCGTGTGTCC
TCCATGCGACAACGAGTTGAAGTCAGAGGCCATCATTGAACATCTCTGTGCAAGCGAGTTTGCACTGAGG
ATGAAAATCAAAGAAGTGAAGAAGGAAAACGGTGAACAAGAAGATTGTCCCAAGAAGAAGAAACCCTTGA
AGCTGGGGCCATCAAGAAGAAGGAGCTGAAGCGGCTTGTCTGTTCCTGAAGAAGCGGTGCCGACTGTCC
CTGCCACCAGCTGGACAACCTCAGCCACAACCTTCTCATCATGGGCCGCAAGGTGAAGAGCCAGTACCTG
CTGACAGCCATTCACAAGTGGACAAGAAAAACAAGGAGTCAAAAACCTCATGAAGAGAATGAAAAACC
ACGAGTGTCCACCTTCCAGTCTGTTTTAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204470 representing NM_013834
 Red=Cloning site Green=Tags(s)

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MGVGRSARGRGGGAASGVLLALAAALLASGSASEYDVVSFQSDIGSYQSGRFYTKPPQCVDIPVDLRLCHN
VGYKMMVLPNLEHETMAEVKQQASSWVPLLNNKNCHMGTQVFLCSLFAPVCLDRPIYPCRWLCEAVRDSC
EPVMQFFGFYWPEMLKCDKDFPEGDVCIAMTPPNTTEASKPQGTTCVPCPDNELKSEAIIEHLCASEFALR
MKIKEVKKENGDKKIVPKKKKPLKLGPIKKKELKRLVFLKNGADCPCHQLDNL SHNFLIMGRKVKSQYL
LTAIHKWDKKNKEFKNFMKRMKNHECPTFQSVFK
  
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TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2474_b05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_013834

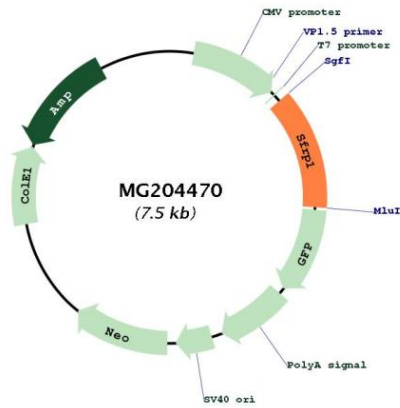
ORF Size: 942 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<ol style="list-style-type: none">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_013834.2 , NP_038862.2
RefSeq Size:	4389 bp
RefSeq ORF:	945 bp
Locus ID:	20377
UniProt ID:	Q8C4U3
Cytogenetics:	8 11.48 cM
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. SFRP1 decreases intracellular beta-catenin levels (By similarity). Has antiproliferative effects on vascular cells, in vitro and in vivo, and can induce, in vivo, an angiogenic response. In vascular cell cycle, delays the G1 phase and entry into the S phase. In kidney development, inhibits tubule formation and bud growth in metanephroi (By similarity). Inhibits WNT1/WNT4-mediated TCF-dependent transcription (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG204470