

Product datasheet for **MR210251**

Esrp2 (NM_176838) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Esrp2 (NM_176838) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Esrp2
Synonyms:	9530027K23Rik; Rbm35b
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR210251 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

 TTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

 ATGACTCCGCGCCGCGCCGCCGCCACCCCGGGCCAGATCCCGCAGTAGACTCGGCCACAGACCCTT
 GTCCCGAACCTCAGTCGCTGGTGGTTTTGTTCGGGGCCACTGCCGGTGCCTGGGGCCGGACCTAGGCTC
 GGACGAGACCGACTTAATCCTCCTAGTTTGGCAAGTGGTGGAGCCGCGCAGCCGACAGGTGGGGACGCTG
 CACAAGTCGCTAGTTCGCGCCGAGGCGGCTGCCCTGAGTCCACAATGCCGCGAGGCGAGTGGACTCAGCG
 CAGACAGCCTAGCGGGGCGGAGTCCCTGGACAAAGTGTGCAACAGTTCTCACAGCTGGTGGCGGGGA
 TGTGGCTCTGCTGGGCGGGGCCCTATGTCTCTGACTGATGGGCAGCAGCTGTTGCGACAGTTCTG
 CATCTGAGGCCCTCCAGGAAGAACCTGGTGTCCCGACACCTTCTTCTCCTTCTACGACCTCCGCAGAG
 AATTCCATATGCAGCACCAAGCACCTGCTCCGCCAGAGACCTCACAGTGGGCACCATGGCACAGGACTT
 GGGACTAGAAACAGATGTACCGAAGATGACTTTGGGGTCTGGGAAGTGAAGACTATGGTAGCTGTTATT
 CTCCACCTACTTGAAGGGTCCAATGGTCAGTTGTTCTCGAAGCCAGAAGTGGTAAAGCAGAAATACGAGA
 CAGGCCCTTGCAAGGCTGATGTGGTGGACAATGAGACTGTAGTACGGGCCCTGGGTTGCCCTGGCA
 ATCATCAGACCAGGATGTGGCTCGATTCTCAAAGGGCTCAACATTGCCAGGGTGGTGTGGCCCTCTGT
 CTCAACGCCAGGGCCGAGAAATGGCGAGGCCCTCATCCGATTCGTGGCAGCGAGCAGCGGGACCTAG
 CGCTGCAGAGACAAAACACCACATGGGTGTCCGCTATATTGAGGTATATAAAGCCACAGGGGAGGAATT
 CGTAAAGATTGCAGGGGGCACATCACTAGAGGTGGCCGTTTCTATCACGGGAAGATCAAGTGATCCTG
 AGGCTACGGGGACTACCTTTTTCAGCCGGGCAACAGATGTTCTAGGCTTCTGGGGCCAGAATGCCAG
 TGACTGGGGTGTGATGGGCTGCTCTTGTCCGCCACCCTGATGGCAGGCCACTGGGGATGCCTTTGC
 TCTCTTTGCCCTGTGAGGAGCTGGCACAGGCTGCTCTGCGCAGGCACAAAGGCATGCTGGGTAAAGCATA
 ATTGAACCTTTCAGGAGCACGGCAGCCAGGTGCAGCAGGTCCTTAACCGCTATGCAGCCAGTCCACTCC
 TTCCACACTGACTGCTCCACTGCTGCCATTCCCTTTTCCACTGGCAGGAGGAACTGGGAGGGACTGTGT
 TCGCCTTAGAGGCTGCCCTACACAGCCACCATTGAAGACATTCTGAGTTTTCTAGGAGAGGCAGCAGCT
 GACATTCGGCCTCATGGTGTGCATATGGTGTCAACCAACAGGGCCGGCCATCCGGTGACGCCTTCATCC
 AGATGATGTCGGTGGAGCGTCTCTGGCTGCTGCCAGCGATGCCACAAGAAGATGATGAAAGAACGCTA
 TGTGGAAGTAGTCCCTTGTCCACAGAGGAGATGAGCCGTGTGCTGATGGGGGTCCCTGAGCCGCAGT
 GGCTGTCCCCTCCACCCTGCAAACCTGCCCTGCCTCTCACCACCTACCTACGCCACCTTCCAGGCCACCC
 CAGCCCTCATTCCACAGAGACGACAGCACTATATCCCTTTCTGCACTGCTGCCAGCTGCCAGGGTACC
 CGCTGCTGCCACTCCTCTTGCCTATTACCAGGGCCAGCCACTCAACTCTACATGAACTACACAGCCTAC
 TATCCCAGCCCCCAGTCTCCCCACTACTGTGGGCTACCTCACCACACCTCCTACTGCCTTGGCCTCTA
 CGCCACCAACAATGCTGTCCCAACCAGGAGCCCTGGTCCGAATGCAGGGGGTGCCATACACAGCTGGTAT
 GAAGGACCTACTCAGTGTCTTTCAAGCCTACCAGCTGGCTCCTGATGACTACCCACTCTGATGCCTGTT
 GGTGACCCACCTCGACTGTGTTACAAGCCCCTAAGGAGTGGGTGTGTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR210251 protein sequence
 Red=Cloning site Green=Tags(s)

MTPPPPPPPPGPDPAVDSATDPCPEPQSLVVLFGATAGALGPDLGSDETDLILLVWQVVEPRSRQVGTL
 HKSLVRAEAAALSPQCREASGLSADSLARAESLDKVLQQFSQLVSGDVALLGGGPVYLCTDGOQLLRQVL
 HPEASRKNLVLPDTFFSFYDLRREFHMQHPSTCSARDLTVGTMAQDLGLETDATEDDFGVWEVKTMAVAI
 LHLLLEGSNGQLFSKPEVVKQKYETGPCSKADVVDNETVVRARGLPWQSSDQDVARFFKGLNIARGGVALC
 LNAQGRRNGEALIRFVDSEQRDLALQRHKHHMGVRYIEVYKATGEEFVKIAGGTSLEVARFLSREDQVIL
 RLRGLPFSAIPTDVLGFLGPECPVTGGADGLLFVRHPDGRPTGDALFALFACEELAQAALRRHKGMGLKRY
 IELFRSTAAEVQVLNRYAASPLPLTLAPLLPIPFPLAGGTGRDCVRLRGLPYTATIEDILSFLGEAAA
 DIRPHGVHMLNQGRPSGDAFIQMMSVERALAAQRCHKMMKERYVEVPCSTEEMSRVLMGGSLSRS
 GLSPPPCKLPCLSPPTYATFQATPALIPTETTALYPSSALLPAARVPAATPLAYYPGPATQLYMNAY
 YPSPVPSTTVGYLTPPTALASTPTTMLSQPGALVRMQGVPYTAGMKDLLSVFQAYQLAPDDYTTLMPV
 GDPVRTVLQAPKEWVCL

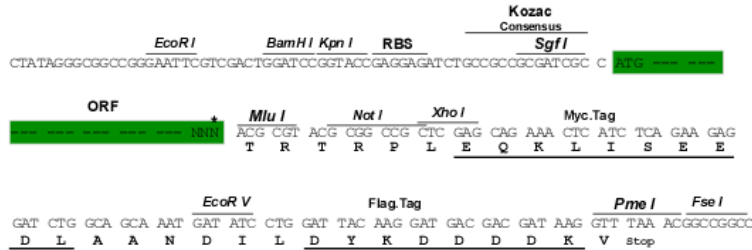
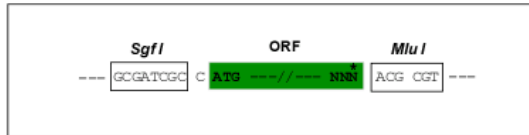
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

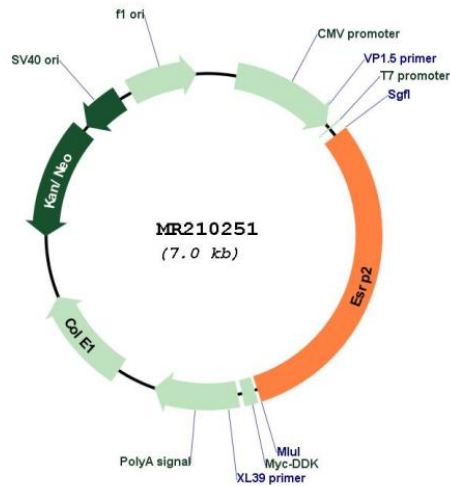
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_176838

ORF Size: 2154 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:	<u>NM_176838.2</u> , <u>NP_789808.1</u>
RefSeq Size:	2686 bp
RefSeq ORF:	2154 bp
Locus ID:	77411
UniProt ID:	<u>Q8K0G8</u>
Cytogenetics:	8 D3
MW:	77.4 kDa
Gene Summary:	mRNA splicing factor that regulates the formation of epithelial cell-specific isoforms. Specifically regulates the expression of FGFR2-IIIb, an epithelial cell-specific isoform of FGFR2. Also regulates the splicing of CD44, CTNND1, ENAH, 3 transcripts that undergo changes in splicing during the epithelial-to-mesenchymal transition (EMT). Acts by directly binding specific sequences in mRNAs. Binds the GU-rich sequence motifs in the ISE/ISS-3, a cis-element regulatory region present in the mRNA of FGFR2 (By similarity).[UniProtKB/Swiss-Prot Function]