

Product datasheet for **MR207090**

Esrp1 (NM_194055) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Esrp1 (NM_194055) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Esrp1
Synonyms:	2210008M09Rik; A630065D16; BC031468; Rbm35a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207090 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACAGAAAGCCTGAACTTTGAGAAGAGTGACTCTGTGTCCCGATACGGAGCCTCCAAGTTGAAGACA
 TGGGGAACATAATTTTAGCAATGATCTCCGAGCCCTACAATCACAGATTTTCAGATCCAGAGAGATTAAA
 CTAACAAGTTTGAAAGTGGAACCTTGCAGCAAGATGGAACCTATTGATGACAGCACAGTGGTGAAGCTCGA
 GGTTTGCCTGGCAATCTTCAGATCAAGATATTGCAAGTTCTTCAAAGGACTCAATATTGCCAAGGGTG
 GCGCAGCACTTTGCCTGAATGCTCAGGGCCGAGGAACGGAGAAGCTCTGGTTAGATTTGTAAGTGAGGA
 GCACAGAGATCTAGCCCTGCAGAGGCACAACATCACATGGGGACCCGGTACATTGAGGTTTACAAAGCA
 ACAGGCGAAGATTTCTTAAAAATGCCGGAGGGACATCCAATGAGGTAGCCAGTTTCTCTCAAGGAAA
 ACCAAGTCATCGTGCGCATGAGGGGCTCCCTTTCACGGCCACGGCTGAAGAAGTGGTGGCTTCTTTGG
 ACAGCACTGCCCATCACTGGAGGAAGGAAGGCATCCTTTCGTTACCTACCCAGATGGTAGGCCAACCC
 GGAGATGCTTTTGTGCTCTTTGCTTGTGAGGAGTATGCTCAGAACGCCCTGAGGAAGCACAGGAGTTGC
 TGGGTAAGATACATCGAGCTCTTCAGGAGCACAGCTGCCGAAGTTCAGCAGGTGCTGAACCGATTCTC
 CTCAGCCCTCTGATTCCACTTCCAACCCCTCCATTATCCCTGTACTACCTCAGCAGTTTGTGCCTCCC
 ACGAATGTCAGAGACTGCATACGCTGCGAGGTCTTCCCTATGCTGCCACAATAGAAGACATTCTGGACT
 TCCTGGGGGAGTTTTCCACAGATATTGTCACATGGAGTGCACATGGTATTGAATCACCAGGGACGCC
 GTCAGGAGATGCCTTTATCCAGATGAAGTCAACAGACAGAGCATTGCTGGCTGCCAGAAGTACCATAAA
 AAAACCATGAAGGACAGATATGTTGAAGTCTTTCAGTGTTCAGCTGAGGAGATGAACCTTTGTGTTAATGG
 GGGGCACCTTAAATCGAAATGGCTTGTCCACCGCCATGCCTGTCTCTCCCTCCTACACATCCCAGC
 TCCACAGGCTGTGATTCTTACCAGAGTCCATTATCAACCTTCTCTGCTCTTGAACCCACGGGCACTG
 CAGCCCTCCACTGCATACTACCCGGCAGGCACTCAGCTTTCATGAACTACACAGCTACTATCCAGTG
 TT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207090 protein sequence
 Red=Cloning site Green=Tags(s)

MTESLNFEKSDSVSRYGASQVEDMGNIILAMISEPYNHRFSDPERLNYKFESGTCSEKMLIDSTVVRAR
 GLPWQSSDQDIARFFKGLNIAKGAALCLNAQRRNGEALVRFVSEHRDLALQRHKHMGTRYIEVYKA
 TGEDFLKIAGGTSNEVAQFLSKENQVIVMRGLPFTATAEEVVAFFGQHCPITGGKEGILFVTYPDGRPT
 GDAFVLFACEEYAQNALRKHKELLGKRYIELFRSTAAEVQVLRNFSSAPLIPLTPPIIPVLPQQFVPP
 TNVRDCIRLRGLPYAATIEDILDFLGEFSTDIRTHGVHMLNHQGRPSGDAFIQMKSTDRAFMQAQYHK
 KTMKDRYVEVFQCSAEEMNFVLMGGTLNRNGLSPPPCLSPPSYTFPAPTAVIPTEAAIYQPSLLLNPRL
 QPSTAYYPAGTQLFMNYTAYPSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_194055

ORF Size: 1335 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_194055.1](#), [NP_918944.1](#)

RefSeq Size: 3969 bp

RefSeq ORF: 2046 bp

Locus ID: 207920

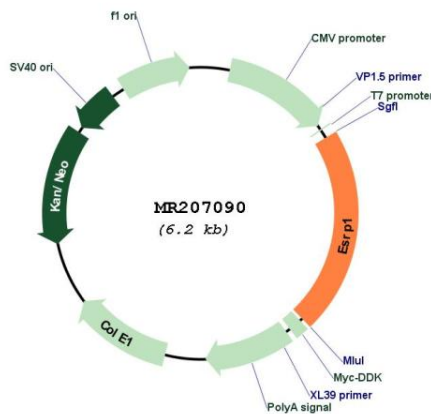
UniProt ID: [Q3US41](#)

Cytogenetics: 4 A1

MW: 49.6 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). Regulates splicing and expression of genes involved in inner ear development, auditory hair cell differentiation, and cell fate specification in the cochlear epithelium (PubMed:29107558).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207090