

Product datasheet for **MR230865**

Esrp1 (NM_001290383) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Esrp1 (NM_001290383) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Esrp1
Synonyms:	2210008M09Rik; A630065D16; BC031468; Rbm35a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>MR230865 representing NM_001290383
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGACGGCGTCTCCGATTACTTGGTGGTCTTTTTGGGATCACTGCTGGGGCCACCGGAGCCAAGCTGG
GTTTCGGATGAGAAGGAGCTGATCCTGCTGTTATGGAAAGTCGTGGATTTGGCCAACAAGAAGGTGGGACA
GCTGCACGAAGTACTAGTTAGACCGGATCAGTTGGAAGTACAGAGGATTGTAAGAAGAACTAAAATA
GACGCCGAAAACCTGTCTTCCGCGCCGACGCTGGACCAAGCCCTCCGACAGTTTAAACAGTCAGTGAGCA
ATGAAGTGAACATCGGGGTAGGGACTTCTTCTGTCTGTACTGACGGGACGCTTACATTAGGCAGAT
CTTGATCCCGAGGCTTCCAAGAAGAATGTGTTACTGCCTGAGTGCTTCTATTCTTTTTTCGATCTTCGG
AAAGAGTTCAGAAGTGTGCCCGGCTCTCCCGATATCGACAAGCTGGATGTCGACGGATGACAGAAA
GCCTGAACCTTGAGAAGAGTGACTCTGTGTCCCGATACGGAGCCCTCCAAGTTGAAGACATGGGGAACAT
AATTTTAGCAATGATCTCCGAGCCCTACAATCACAGATTTTCAGATCCAGAGAGAGTAACTACAAGTTT
GAAAGTGGCACTTGCAAGATGGAACCTATTGATGACAGCACAGTGGTGAGAGCTCGAGGTTTGCCCTGGC
AATCTTCAGATCAAGATATTGCAAGTTCTTCAAAGGACTCAATATTGCCAAGGGTGGCGCAGCACTTTG
CCTGAATGCTCAGGGCCGGAGGAACGGAGAAGCTCTGGTTAGATTTGTAAGTGAGGAGCACAGAGATCTA
GCCCTGCAGAGGCACAAACATCATATGGGGACCCGGTACATTGAGGTTTACAAAGCAACAGGCGAAGATT
TCCTTAAAATTGCCGGAGGGACATCCAATGAGGTAGCCAGTTTCTCTCCAAGGAAAACCAAGTCATCGT
GCGCATGAGGGGGCTCCCTTTCACGGCCACGGCTGAAGAAGTGGTGGCTTCTTTGGACAGCACTGCCCC
ATCACTGGAGGGAAGGAAGGCATCCTCTTCGTTACCTACCCAGATGGTAGGCCAACCGGAGATGCTTTTG
TGCTCTTTGCTTGTGAGGAGTATGCTCAGAACGCCCTGAGGAAGCACAAAGGAGTTGCTGGGTAAGATA
CATCGAGCTCTTCAGGAGCACAGCTGCCGAAGTTCAGCAGGTGCTGAACCGATTCTCCTCAGCCCCCTCTG
ATTCCACTTCCAACCCCTCCCATTATCCCTGACTACCTCAGCAGTTTGTGCTCCACGAATGTCAGAG
ACTGCATACGCTCTGCGAGGTCTTCCCTATGCTGCCACAATAGAAGACATTCTGGACTTCTGGGGGAGTT
TCCACAGATATTCGTACACATGGAGTGCACATGGTATTGAATCACCGGGACGCCCGTCAGGAGATGCC
TTTATCCAGATGAAGTCAACAGACAGAGCATTATGGCTGCGCAGAAGTACCATAAAAAAACCATGAAGG
ACAGATATGTTGAAGTCTTTCAGTGTTACGCTGAGGAGATGAACCTTGTGTTAATGGGGGGCACTTTAAA
TCGAAATGGCTTGTCCCCACCGCATGTAAGTTACCATGCCTGTCTCCTCCCTCTACACATTCCCAGCT
CCCACGGCTGTGATTCTACCGAAGCTGCCATTTATCAACCTTCTGCTCTTGAACCCACGGGCACTGC
AGCCCTCCACTGCATACTACCCGGCAGGCACTCAGCTCTTCATGAACTACACAGCCTACTATCCCAGCCC
CCCAGGTTGCGCTAATAGTCTTGCTACTTCCCTACAGCTGCTAATCTTAGCAGTGTCCCGCCCCAGCCT
GGCACCCTGGTCAAGATGCAGGGCCTGGCTACAATACTGGAGTTAAGGAAATCTTAACTTCTTCCAAG
GTTACCAGTATGCAACCGAGGATGGACTTGTACACACAAATGACCAGGCCAGGACTCTACCCAAAGAATG
GGTTTGTATT

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR230865 representing NM_001290383
 Red=Cloning site Green=Tags(s)

MTASPDYLVVLFGITAGATGAKLGSDEKELILLWQVVDLANKKVGQLHEVLVRPDQLELTEDCKEETKI
 DAENLSSAPQLDQALRQFNQSVSNELNIGVGTSFCLCTDGLHIRQILHPEASKKNVLLPECFYSFFDLR
 KEFKKCCPGSPDIDKLDVAAMTESLNFEKSDSVSRYGASQVEDMGNIILAMISEPNHRFSDPERVNYKF
 ESGTCKMELIDDSTVVRARGLPWQSSDQDIARFFKGLNIAKGAALCLNAQRRNGEALVRFVSEEHRDL
 ALQRHKHHMGTRYIEVYKATGEDFLKIAGGT SNEVAQFLSKENQVIVRMRGLPFTATAEEVVAFFGQHCP
 ITGGKEGILFVTYDGRPTGDAFVLFACEEYAQNALRKHKELLGKRYIELFRSTAAEVQVLRNRFSSAPL
 IPLPTPIIPVLPQQFVPPNTNRDCIRLRGLPYAATIEDILDFLGEFSTDIRTHGVHMLNHQGRPSGDA
 FIQMKSTDRAFMAAQKYHKTKMKDRYVEVFQCSAEEMNFVLMGGTLNRNGLSPPPCKLPCLSPPSYTFPA
 PTAVIPTEAAIYQPSLLLNPRALQPSTAYYPAGTQLFMNYTAYYPSPPGSPNSLGYFPTAANLSSVPPQP
 GTVVRMQGLAYNTGVKEILNFFQGYQYATEDGLVHTNDQARTLPKEWVCI

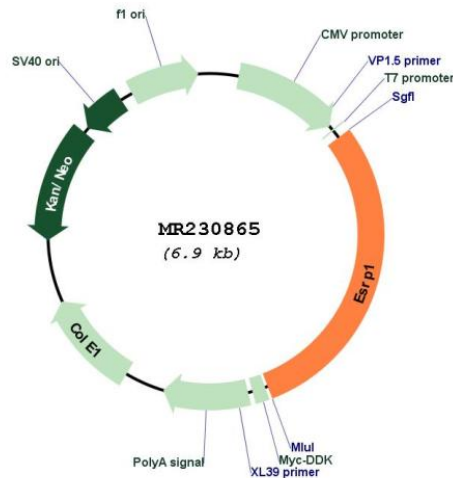
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001290383

ORF Size: 2040 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_001290383.1](#), [NP_001277312.1](#)

RefSeq Size: 3966 bp

RefSeq ORF: 2043 bp

Locus ID: 207920

UniProt ID: [Q3US41](#)

Cytogenetics: 4 A1

MW: 76 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]