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Product datasheet for MC228654

Esrp1 (NM_001290383) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Esrp1 (NM_001290383) Mouse Untagged Clone
Tag:	Tag Free
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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Fully Sequenced ORF:

>MC228654 representing NM_001290383
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACGGCGTCTCCGGATTACTTGGTGGTGCTTTTTGGGATCACTGCTGGGGCCACCGGAGCCAAGCTGG
GTTCGGATGAGAAGGAGCTGATCCTGCTGTTATGGAAAGTCGTGGATTTGGCCAACAAGAAGGTGGGACA
GCTGCACGAAGTACTAGTTAGACCGGATCAGTTGGAACTGACAGAGGATTGTAAAGAAGAAACTAAAATA
GACGCCGAAAACCTGTCTTCCGCGCCGCAGCTGGACCAAGCCCTCCGACAGTTTAACCAGTCAGTGAGCA
ATGAACTGAACATCGGGGTAGGGACTTCCTTCTGTCTCTGTACTGACGGGCAGCTTCACATTAGGCAGAT
CTTGCATCCCGAGGCTTCCAAGAAGAATGTGTTACTGCCTGAGTGCTTCTATTCCTTTTTCGATCTTCGG
AAAGAGTTCAAGAAGTGCTGCCCGGGCTCTCCCGATATCGACAAGCTGGATGTCGCAGCGATGACAGAAA
GCCTGAACTTTGAGAAGAGTGACTCTGTGTCCCGATACGGAGCCTCCCAAGTTGAAGACATGGGGAACAT
AATTTTAGCAATGATCTCCGAGCCCTACAATCACAGATTTTCAGATCCAGAGAGAGTAAACTACAAGTTT
GAAAGTGGCACTTGCAAGATGGAACTTATTGATGACAGCACAGTGGTGAGAGCTCGAGGTTTGCCCTGGC
AATCTTCAGATCAAGATATTGCAAGGTTCTTCAAAGGACTCAATATTGCCAAGGGTGGCGCAGCACTTTG
CCTGAATGCTCAGGGCCGGAGGAACGGAGAAGCTCTGGTTAGATTTGTAAGTGAGGAGCACAGAGATCTA
GCCCTGCAGAGGCACAAACATCACATGGGGACCCGGTACATTGAGGTTTACAAAGCAACAGGCGAAGATT
TCCTTAAAATTGCCGGAGGGACATCCAATGAGGTAGCCCAGTTTCTCTCCAAGGAAAACCAAGTCATCGT
GCGCATGAGGGGGCTCCCTTTCACGGCCACGGCTGAAGAAGTGGTGGCCTTCTTTGGACAGCACTGCCCC
ATCACTGGAGGGAAGGAAGGCATCCTCTTCGTTACCTACCCAGATGGTAGGCCAACCGGAGATGCTTTTG
TGCTCTTTGCTTGTGAGGAGTATGCTCAGAACGCCCTGAGGAAGCACAAGGAGTTGCTGGGTAAAAGATA
CATCGAGCTCTTCAGGAGCACAGCTGCCGAAGTTCAGCAGGTGCTGAACCGATTCTCCTCAGCCCCTCTG
ATTCCACTTCCAACCCCTCCCATTATCCCTGTACTACCTCAGCAGTTTGTGCCTCCCACGAATGTCAGAG
ACTGCATACGTCTGCGAGGTCTTCCCTATGCTGCCACAATAGAAGACATTCTGGACTTCCTGGGGGAGTT
TTCCACAGATATTCGTACACATGGAGTGCACATGGTATTGAATCACCAGGGACGCCCGTCAGGAGATGCC
TTTATCCAGATGAAGTCAACAGACAGAGCATTCATGGCTGCGCAGAAGTACCATAAAAAAACCATGAAGG
ACAGATATGTTGAAGTCTTTCAGTGTTCAGCTGAGGAGATGAACTTTGTGTTAATGGGGGGCACTTTAAA
TCGAAATGGCTTGTCCCCACCGCCATGTAAGTTACCATGCCTGTCTCCTCCCTCCTACACATTCCCAGCT
CCCACGGCTGTGATTCCTACCGAAGCTGCCATTTATCAACCTTCTCTGCTCTTGAACCCACGGGCACTGC
AGCCCTCCACTGCATACTACCCGGCAGGCACTCAGCTCTTCATGAACTACACAGCCTACTATCCCAGCCC
CCCAGGTTCGCCTAATAGTCTTGGCTACTTCCCTACAGCTGCTAATCTTAGCAGTGTCCCGCCCCAGCCT
GGCACCGTGGTCAGAATGCAGGGCCTGGCCTACAATACTGGAGTTAAGGAAATTCTTAACTTCTTCCAAG
GTTACCAGTATGCAACCGAGGATGGACTTGTACACACAAATGACCAGGCCAGGACTCTACCCAAAGAATG
GGTTTGTATTTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001290383

Insert Size: 2043 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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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
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] Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 5' coding region, compared to variant 1. It encodes isoform 2, which is shorter by an amino acid, compared to isoform 1.

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