

Product datasheet for **RN202209**

Esrp1 (NM_001127564) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Esrp1 (NM_001127564) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Esrp1
Synonyms:	RGD1560481
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

Fully Sequenced ORF: >RN202209 representing NM_001127564
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGACGGCGTCTCCGATTACTTGGTGGTCTTTTTGGGATCACTGCTGGGGCCACAGGACCAAGCTGG
GTTTCGGATGAGAAGGAGCTGATCCTGCTGTTATGGAAAGTCGTGGATTTGGCCAACAAGAAGGTGGGACA
GTTGCACGAAGTACTAGTTAGACCGGATCAGTTGGAAGTACAGAGGATTGTAAGAAGAACTAAAATA
GACGCCGAAAATCTGTCTCCGCCCGCAGCTGGACCAAGCCCTCCGACAGTTAAACAGTCAGTGAGCA
ATGAAGTGAACATTGGGGTAGGGACTTCCTTCTGTCTGTACTGACGGGAGCTTACGTCAGGCAGAT
CTTGCATCCCAGGCTTCCAAGAAGAATGTATTACTACCTGAATGCTTCTATTCTTTTTCGATCTTCGA
AAAGAATCAAGAAGTGTGCCCGGCTCCTGACCTCGACAAGCTGGATGTTGCAGCCATGGCAGAGA
GCCTAACTTTGAGAAGAATGACTCCATGTCCAGATACGGAGCCCTCCAAGTTGAAGACATGGGGAACAT
AATTTTAGCGATGATCTCAGAGCCCTACAATCACAGATTTTCAGATCCAGAGAGAGTAACTACAAATTT
GAAAGTGGCACTTGACAGCAAGACGGAGCTTATCGATGGCAACACGGTGGTGAGGGCTCGAGGTTTGCCTT
GGCAGTCTTCAGATCAAGATATTGCAAGGTTCTCAAAGGACTCAATATTGCCAAGGGTGGTGCAGCTCT
TTGTCTGAATGCTCAGGGCGGAGGAACGGGGAAGCTCTGGTTAGATTTGTAAGTGAAGGAGCACAGAGAT
CTGGCCCTGCAGAGGCACAAACATCATATGGGGACCCGTTACATCGAGGTTTACAAGCAACAGGCGAAG
ACTTTCTTAAATTTGCCGGAGGGACATCCAATGAGGTGGCCAGTTTCTCTCAAAGGAAAACCAAGTCAT
CGTGCCGATGCCGGGGCTCCCTTTCACAGCCACGGCGGAAGAAGTGGTAGCCTTCTTTGGACAGCACTGC
CCTATCACTGGGGGAAGGAAGGCATCCTCTTCGTACCTACCCAGATGGTAGGCCACGGGAGATGCTT
TTGTGCTCTTTGCTTGTGAGGAGTATGCTCAGAACGCCCTGAGGAAGCACAAAGACTTGTGGGTAAGA
ATACATCGAGCTTTCAGAAGCACAGCAGCTGAAGTTCAGCAGGTGCTGAATCGGTTCTCCTCCGCTCCT
TTGATTCCAATTCCCACCGCTCCCATCATCCCTGTGCTACCTCAGCAGTTTGTGCCCCCAAAATGTAA
GAGACTGCGTACGCTGCGAGGTCTCCCTATGCCGCCACCATAGAAGACATTCTGGACTTCTGGGGGA
GTTTTCCACAGACATTCTGACGATGGGTTTACATGGTATTGAACCACCAGGGACGCCGTCAGGAGAT
GCCTTTATCCAGATGAAGTCTACAGACAGAGCATTATGGCTGCGCAGAAGTATCATAAAAAACCATGA
AGGACAGATATGTTGAAGTCTTTCAGTGTTCAGCTGAGGAGATGAACTTTGTGTTAATGGGGGCACCTT
AAATCGAAATGGCTTATCCCCACCGCCATGCCTGTCTCCTCCTACACATTTCCAGCTCCTGCAGCC
GTGATTCTACCGAAGCTGCCATTTATCAGCCTTCCCTGCTCTTGAACCCACGGGCACTGCAGCCCTCCA
CTGCTTACTACCCAGCAGGCACTCAGCTGTTTCATGAACTACACAGCCTACTATCCAGCCCCCAGGTTT
GCCTAATAGTCTTGGCTACTTCCCTACAGCTGCTAATCTTAGCAGTGTCGCCGCCAGCCTGGCAGGGT
GTCAGAATGCAGGGCCTGGCCTACAATACTGGAGTTAAGGAAATCTTAACTTCTTCAAAGGTTACCAGT
GTTTGAAGACGCATGG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001127564

Insert Size: 1980 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).

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_001127564.2](#), [NP_001121036.2](#)

RefSeq Size: 2674 bp

RefSeq ORF: 1980 bp

Locus ID: 500409

UniProt ID: [B2RYD2](#)

Cytogenetics: 5q13

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 (By similarity).[UniProtKB/Swiss-Prot Function]