

Product datasheet for **RR202209**

Esrp1 (NM_001127564) Rat Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>RR202209 representing NM_001127564
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACGGCGTCTCCGATTACTTGGTGGTCTTTTTGGGATCACTGCTGGGGCCACAGGAGCCAAGCTGG
 GTTCGGATGAGAAGGAGCTGATCCTGCTGTTATGGAAAGTCGTGGATTTGGCCAACAAGAAGGTGGGACA
 GTTGACAGAACTACTAGTTAGACCGGATCAGTTGAACTGACAGAGGATTGTAAGAAGAACTAAAATA
 GACGCCGAAAATCTGTCTCCGCCCGCAGCTGGACCAAGCCCTCCGACAGTTTAACCAAGTCAGTGAGCA
 ATGAACTGAACATTGGGGTAGGGACTTCCTTCTGTCTGTACTGACGGGAGCTTCACGTCAGGCAGAT
 CTTGCATCCCAGGCTTCCAAGAAGAATGTATTACTACCTGAATGCTTCTATTCTTTTTCGATCTCGA
 AAAGAATTCAAGAAGTGTGCCCGGCTCCTGACCTCGACAAGCTGGATGTTGCAGCCATGGCAGAGA
 GCCTAACTTTGAGAAGAATGACTCCATGTCCAGATACGGAGCCCTCCAAGTTGAAGACATGGGGAACAT
 AATTTTAGCGATGATCTCAGAGCCCTACAATCACAGATTTTCAGATCCAGAGAGAGTAACTACAAATTT
 GAAAGTGGCACTTGACAGCAAGACGGAGCTTATCGATGGCAACACGGTGGTGAGGGCTCGAGGTTTGCCTT
 GGCAGTCTTCAGATCAAGATATTGCAAGGTTCTCAAAGGACTCAATATTGCCAAGGGTGGTGCAGCTCT
 TTGTCTGAATGCTCAGGGGCGGAGGAACGGGGAAGCTCTGGTTAGATTTGTAAGTGAGGAGCACAGAGAT
 CTGGCCCTGCAGAGGCACAAACATCATATGGGGACCCGTTACATCGAGGTTTACAAGCAACAGGCGAAG
 ACTTTCTTAAATTTGCCGGAGGGACATCCAATGAGGTGGCCAGTTTCTCTCAAAGGAAAACCAAGTCAT
 CGTGCCATGCGGGGCTCCCTTTCACAGCCACGGCGGAAGAAGTGGTAGCCTTCTTTGGACAGCACTGC
 CCTACTACTGGGGGAAGGAAGGCATCCTCTTCGTACCTACCCAGATGGTAGGCCACGGGAGATGCTT
 TTGTGCTCTTTGCTTGTGAGGAGTATGCTCAGAAGCCCTGAGGAAGCACAAAGACTTGTGGGTAAGG
 ATACATCGAGCTTTCAGAAGCACAGCAGCTGAAGTTCAGCAGGTGCTGAATCGGTTCTCCTCCGCTCCT
 TTGATTCCAATCCCACCGCTCCCATCATCCCTGTGCTACCTCAGCAGTTTGTGCCCCCAAAATGTAA
 GAGACTGCGTACGCTGCGAGGCTTCCCTATGCCGCCACCATAGAAGACATTCTGGACTTCTGGGGGA
 GTTTTCCACAGACATTCTGACGATGGGGTTCACATGGTATTGAACCACCAGGGACGCCGTCAGGAGAT
 GCCTTTATCCAGATGAAGTCTACAGACAGAGCATTATGGCTGCGCAGAAGTATCATAAAAAACCATGA
 AGGACAGATATGTTGAAGTCTTTCAGTGTTCAGCTGAGGAGATGAACTTTGTGTTAATGGGGGCACTTT
 AAATCGAAATGGCTTATCCCACCGCCATGCCTGTCTCCTCCTACACATTTCCAGCTCCTGCAGCC
 GTGATTCTACCGAAGCTGCCATTTATCAGCCTTCCCTGCTCTTGAACCCACGGGCACTGCAGCCCTCCA
 CTGCTTACTACCCAGCAGGCACTCAGCTGTTATGAACTACACAGCCTACTATCCAGCCCCCAGGTTT
 GCCTAATAGTCTTGGCTACTTCCCTACAGCTGTAATCTTAGCAGTGTCGGCCCGCCAGCCTGGCAGGGT
 GTCAGAATGCAGGGCCTGGCCTACAATACTGGAGTTAAGGAAATCTTAACCTTCTTCAAAGGTTACCAGT
 GTTTGAAAGACGCATGG

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR202209 representing NM_001127564
Red=Cloning site Green=Tags(s)

MTASPDYLVVLFGITAGATGAKLGSDEKELILLWKVVDLANKKVGQLHEVLVRPDQLELTEDCKEETKI
 DAENLSSAPQLDQALRQFNQSVSNELNIGVGTSFCLCTDQQLHVRQILHPEASKKNVLLPECFYSFFDLR
 KEFKKCCPGSPDLDKLDVAAMAEESLNFEEKNDMSRYGASQVEDMGNIILAMISEPYNHRFSDPERVNYKF
 ESGTCSKTELIDGNTVVRARGLPWQSSDQDIARFFKGLNIAKGGALCLNAQGRNGEALVRFVSEEHDR
 LALQRHKKHMGTRYIEVYKATGEDFLKIAGGTSNEVAQFLSKENQVIVRMRGLPFTATAEEVVAFFQHC
 PITGGKEGILFVTYPDGRPTGDAFVLFACEEYAQNALRKHKDLLGKRYIELFRSTAAEVQQLNRFSSAP
 LIPLPTAPIIPVLPQQFVPPTNVRDCVRLRGLPYAATIEDILDFLGEFSTDIRTHGVHMLNHQGRPSGD
 AFIQMKSTDRAFMAAQYHKTKMDRYEVFQCSAEEMNFVLMGGTLNRNGLSPPPCLSPSYTFPAPAA
 VIPTAAIYQPSLLLNPRLQPSTAYYPAGTQLFMNYTAYYPPSPPGSPNSLGYFPPTAANLSSVPPQPGTV
 VRMQGLAYNTGVKEILNFFQGYQCLKDAW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001127564

ORF Size: 1977 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_001127564.2](#), [NP_001121036.2](#)

RefSeq Size: 2674 bp

RefSeq ORF: 1980 bp

Locus ID: 500409

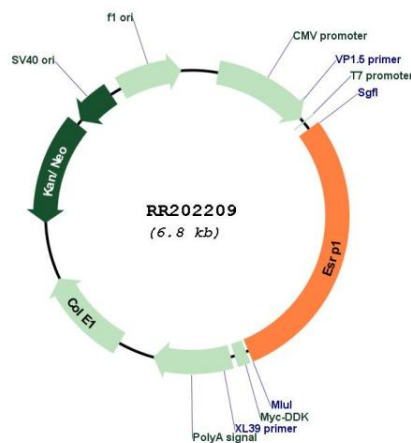
UniProt ID: [B2RYD2](#)

Cytogenetics: 5q13

MW: 73 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 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR202209