

Product datasheet for **RR204484**

Esrp2 (NM_001107423) Rat Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Esrp2 (NM_001107423) Rat Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Esrp2 |
| Synonyms: | Rbm35b; RGD1310855 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>RR204484 representing NM_001107423
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACTCCACCGCCGCCACCGCCCCACCCCGGGCCAGATCCCGCAGTAGACTCTCCACCGACCCCT
 GTCCCGAACCCAGTCGCTGGTTGTTTTGTTCCGGGCCACTGCTGGTGGCTGGGGCCCGACCTAGGCTC
 CGACGAGACCGACTTAATCCTCCTAGTTTGCCAAGTGGTGGAGCCGCGCAGCCGACAGGTGGGGACACTA
 CACAAGTCGCTAGTTCGCGCCGAGGCGGCTGCCCTGAGTCCACAGTCCGCGAGGCGAGCGGACTCAGCG
 CAGACAGCCTAGCGGGGCGGAGTCTCTGGATAAGGTGCTGCAGCAGTTCTCACAGCTGGTGGCGGGGA
 TGTGGCCCTGCTGGGCGGGGGCCCTATGTGCTCTGACTGATGGGCAGCAGCTGTTGCGACAGTTCTT
 CATCTGAGGCCCTCCAGGAAGAACCTGGTGCTTCCCGACACCTTCTTCTCCTTCTACGACCTCCGCAGAG
 AATTCCATGTGCAGACCCCAAGCACCTGCTCCGCCAGAGACCTCACAGTGGGCACCATGGCACAGGACTT
 GGGACTAGAAACAGATGCGACAGAAGATGACTTTGGGGTCTGGGAAGTGAAGACTATGGTAGCGGTATT
 CTCCACCTACTTGAAGGGCCCAATGGTCAATTTGTTCTCGAAGCCAGAGGTAGTAAAGCAGAAATATGAGA
 CGGGGCCCTTGCAAGGCTGATGTGGTGGACAATGAGACTGTAGTACGGGCCCTGGGTTGCCCTGGCA
 GTCATCAGACCAGGATGTGGCTCGATTCTCAAAGGGCTCAACATTGCCAGGGTGGTGTGGCCCTCTGT
 CTCAACGCCAGGGCCGAGAAATGGTGGGCCCTTATCCGATTCGAGGACAGCGAGCAGCGGGACCTAG
 CACTGCAGAGACACAAGCACCACATGGGTGTCCGCTATATTGAGGTGTATAAAGCCACGGGAGAGGAATT
 TGTAAGATTGCAGGGGGCACATCACTAGAGGTGGCCGTTTCTATCACGGGAAGATCAAGTGATCCTG
 AGGCTACGGGGACTGCCCTTTTCAGCCGGCCAGCAGATGTTCTAGACTTCTGGGGCCAGAATGCCAG
 TGACTGGGGTGTGATGGGCTGCTTTTGTGCGCCACCCTGATGGCAGGCTACTGGGGATGCCTTTGC
 TCTCTTTGCCCTGTGAGGAAGTAGCACAGGCTGCTCTGCGCAGGCACAAAGGCATGCTGGGTAAAGGATA
 ATTGAAGTCTTACAGGACTGCAGCTGAGGTGCAGCAGGTCCTTAACCGCTATGCAGCCAGTCCACTCC
 TTCCACACTGACTGCTCCGCTGCTGCCATTCCCTTTTCCACTGGCAGGTGGGACTGGAAGGGACTGTGT
 ACGCCTTCGAGGCTCCCTACACAGCCACCATTGAAGACATTCTGAGTTTTCTAGGAGAGGCAGCAGCT
 GACATTCGGCCTCATGGTGTGCACATGGTGTCAACCAGCAGGGCCGGCCATCTGGCGATGCCTTCATCC
 AGATGATGTCAGTGGAGCGTCTGGCTGCTGCCAGCGTTGCCACAAGAAGGTGATGAAAGAACGCTA
 TGTGGAAGTAGTCCCTTGTCTACAGAGGAGATGAGCCGTGTGCTGATGGGGGCTCCCTGAGCCGCAGC
 GGCTGTCCCTCCACCCTGAAACTGCCCTGCCTCTCACCACCTACCTACGCCACCTTCCAGGCTAGCC
 CAGCCCTCATTCCACAGAGACGACAGCACTGTATCCCTTTCTGCACTGCTTCCAGCGCCAGGGTACC
 TGCTGCTGCCACTCCTTTGCCTACTACCCAGGGCCAGCCACTCAACTCTACATGAACTACACTGCCTAC
 TATCCAGCCCCCAGTTTCTCCCACTACTGTGGGCTACCTCACCACACCTCCTACTGCCTTGGCCTCCA
 CACCCACTTCAATGTTGTACAGCCAGGAGCCCTGGTCCGAATGCAGGGGGTCCCTACACAGCTGGTAT
 GAAGGATCTGCTCAGTGTCTTCAAGCCTACCAGCTGGCTCCTGATGACTACGCCACTCTCGTGCCTGTT
 GGTGACCCACCTCGACTGTGTTACAAGCCCCTAAAGAGTGGGTGTGTTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR204484 representing NM_001107423
Red=Cloning site Green=Tags(s)

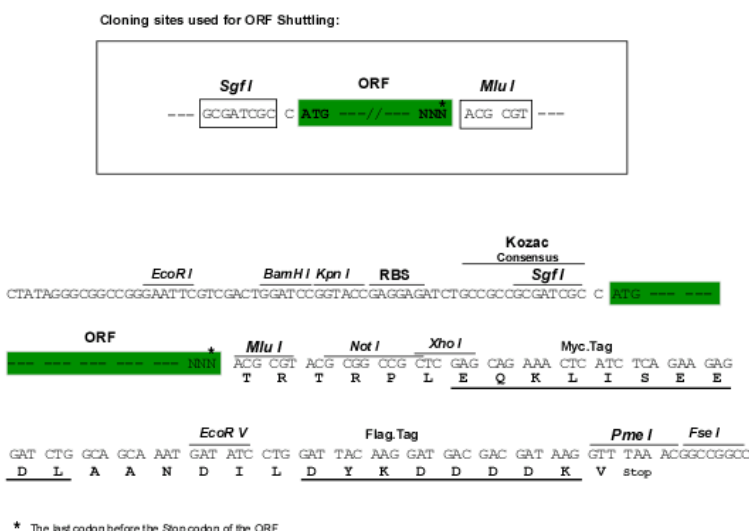
```

MTPPPPPPPPGDPDAVDSSTDPCEPQSLVVLFGATAGALGPDLGSDETDLILLVWQVVEPRSRQVGTL
HKSLVRAEAAALSPQCREASGLSADSLARAESLDKVLQQFSQLVSGDVALLGGGPYVLC TDGQQLLRQVL
HPEASRKNLVLPDTFFSFYDLRREFHVQHPSTCSARDLTVGTMAQDLGLETDATEDDFGVWEVKT MAVI
LHLLLEGPNGHLFSKPEVVKQKYETGPCSADVDNETVVRARGLPWQSSDQDVARFFKGLNIARGGVALC
LNAQGRNGEALIRFEDSEQRDLALQRHKHMHMGVRYIEVYKATGEEFVKIAGGTSLEVARFLSREDQVIL
RLRGLPF SAGPADVLDLFGPECPVTGGVDGLLFVRHPDGRPTGDAFALFACEELAQALRRHKGMLGKRY
IELFRSTAAEVQVLNRYAASPLLPTLTAPLLPIPFPLAGGTGRDCVRLRGLPYTATIEDILSFLGEEAAA
DIRPHGVHMLNQGRPSGDAFIQMMSVERALAAQRCHKVMKERYVEVVPSTEEMSRVLMGGSLSRS
GLSPPPCKLPCLSPPTYATFQASPAL IPTETTALYPSSALLPAARVPAATPLAYYPGPATQLYMNMYTAY
YSPSPVSPPTTVGYLTPPTALASTPTSMLSQP GALVRMQGVPYTAGMKDLLSVFQAYQLAPDDYATLVPV
GDPPrTVLQAPKEWVCL
  
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001107423

ORF Size: 2151 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_001107423.1](#), [NP_001100893.1](#)

RefSeq Size: 3975 bp

RefSeq ORF: 2154 bp

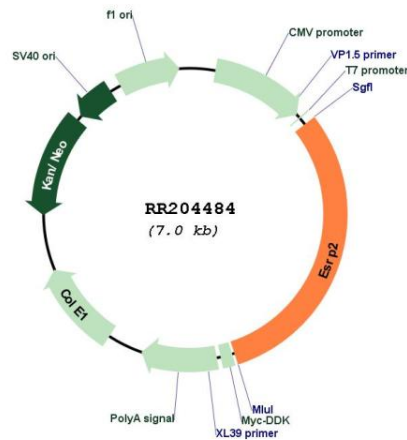
Locus ID: 307810

Cytogenetics: 19q12

MW: 77.3 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).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR204484