

## Product datasheet for **MC221023**

### **Esrp2 (NM\_176838) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Esrp2 (NM_176838) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Esrp2
Synonyms:	9530027K23Rik; Rbm35b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC221023 representing NM\_176838  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACTCCGCCGCCGCCGCCGCCGCCACCCCGGGCCAGATCCCGCAGTAGACTCGGCCACAGACCCTT  
 GTCCGAACCTCAGTCGCTGGTGGTTTTGTTCCGGGCCACTGCCGGTGCCTGGGGCCGGACCTAGGCTC  
 GGACGAGACCGACTTAATCCTCCTAGTTTGGCAAGTGGTGGAGCCGCGCAGCCGACAGGTGGGGACGCTG  
 CACAAGTCGCTAGTTCGCGCCGAGGCGGCTGCCCTGAGTCCACAATGCCGCGAGGCGAGTGGACTCAGCG  
 CAGACAGCCTAGCGGGGCGGAGTCCCTGGACAAAGTGTGCAACAGTTCTCACAGCTGGTGGCGGGGA  
 TGTGGCTCTGCTGGGCGGGGCCCTATGTCTCTGACTGATGGGCAGCAGCTGTTGCGACAGTTCTG  
 CATCTGAGGCCCTCCAGGAAGAACCTGGTGTCCCGACACCTTCTTCTCCTTCTACGACCTCCGCAGAG  
 AATTCCATATGCAGCACCAAGCACCTGCTCCGCCAGAGACCTCACAGTGGCACCATGGCAGGACTT  
 GGGACTAGAAACAGATGCTACCGAAGATGACTTTGGGGTCTGGGAAGTGAAGACTATGGTAGCTGTTATT  
 CTCCACCTACTTGAAGGGTCCAATGGTCAGTTGTTCTCGAAGCCAGAAGTGGTAAAGCAGAAATACGAGA  
 CAGGCCCTTGCAAGGCTGATGTGGTGGACAATGAGACTGTAGTACGGGCCCTGGGTTGCCCTGGCA  
 ATCATCAGACCAGGATGTGGCTCGATTCTCAAAGGGCTCAACATTGCCAGGGTGGTGTGGCCCTCTGT  
 CTCAACGCCAGGGCCGAGAAATGGCGAGGCCCTCATCCGATTCGTGGCAGCGAGCAGCGGGACCTAG  
 CGCTGCAGAGACAAAACACCACATGGGTGTCCGCTATATTGAGGTATATAAAGCCACAGGGGAGGAATT  
 CGTAAAGATTGCAGGGGGCACATCACTAGAGGTGGCCGTTTCTATCACGGGAAGATCAAGTGATCCTG  
 AGGCTACGGGGACTACCTTTTTCAGCCGGGCAACAGATGTTCTAGGCTTCTGGGGCCAGAATGCCAG  
 TGACTGGGGTGTGATGGGCTGCTTTTGTCCGCCACCCTGATGGCAGGCCACTGGGGATGCCTTTGC  
 TCTCTTTGCCTGTGAGGAGCTGGCACAGGCTGCTCTGCGCAGGCACAAAGGCATGCTGGGTAAAGCATA  
 ATTGAACCTTTCAGGAGCACGGCAGCCGAGGTGCAGCAGGTCCTTAACCGCTATGCAGCCAGTCCACTCC  
 TTCCCACTGACTGCTCCACTGCTGCCATTCCCTTTTCCACTGGCAGGAGGAACTGGGAGGGACTGTGT  
 TCGCCTTAGAGGCTGCCCTACACAGCCACCATTGAAGACATTCTGAGTTTTCTAGGAGAGGCAGCAGCT  
 GACATTCGGCCTCATGGTGTGCATATGGTGTCAACCAACAGGGCCGGCCATCCGGTGACGCCTTCATCC  
 AGATGATGTCGGTGGAGCGTGTCTGGCTGCTGCCAGCGATGCCACAAGAAGATGATGAAAGAACGCTA  
 TGTGGAAGTAGTCCCTTGTCCACAGAGGAGATGAGCCGTGTGCTGATGGGGGTCCCTGAGCCGCAGT  
 GGCTGTCCCTCCACCCTGCAAACTGCCCTGCCTCTCACCACCTACCTACGCCACCTCCAGGCCACCC  
 CAGCCCTCATTCCACAGAGACGACAGCACTATATCCCTTTCTGCACTGCTGCCAGCTGCCAGGGTACC  
 CGCTGCTGCCACTCCTCTTGCCTATTACCCAGGGCCAGCCACTCAACTCTACATGAACTACACAGCCTAC  
 TATCCCAGCCCCCAGTCTCCCCACTACTGTGGGCTACCTCACCACACCTCCTACTGCCTTGGCCTCTA  
 CGCCACCACAATGCTGTCCCAACCAGGAGCCCTGGTCCGAATGCAGGGGTGCCATACACAGCTGGTAT  
 GAAGGACCTACTCAGTGTCTTTCAAGCCTACCAGCTGGCTCCTGATGACTACACCACCTGATGCCTGTT  
 GGTGACCCACCTCGACTGTGTTACAAGCCCCTAAGGAGTGGGTGTGTTG**TAG**

**ACGGT**ACGGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_176838  
**Insert Size:** 2154 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_176838.2](#), [NP\\_789808.1](#)

**RefSeq Size:** 2686 bp

**RefSeq ORF:** 2154 bp

**Locus ID:** 77411

**UniProt ID:** [Q8K0G8](#)

**Cytogenetics:** 8 D3

**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]