

Product datasheet for **MG207090**

Esrp1 (NM_194055) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Esrp1 (NM_194055) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Esrp1 |
| Synonyms: | 2210008M09Rik; A630065D16; BC031468; Rbm35a |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>MG207090 representing NM_194055
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACAGAAAGCCTGAACCTTTGAGAAGAGTGACTCTGTGTCCCGATACGGAGCCTCCAAGTTGAAGACA
 TGGGGAACATAATTTTAGCAATGATCTCCGAGCCCTACAATCACAGATTTTCAGATCCAGAGAGATTA
 CTAACAAGTTTGAAAGTGCACTTGCAGCAAGATGGAACCTATTGATGACAGCACAGTGGTGAAGCTCGA
 GGTTTGCCTGGCAATCTTCAGATCAAGATATTGCAAGGTTCTTCAAAGGACTCAATATTGCCAAGGGTG
 GCGCAGCACTTTGCCTGAATGCTCAGGGCCGAGGAACGGAGAAGCTCTGGTTAGATTTGTAAGTGAGGA
 GCACAGAGATCTAGCCCTGCAGAGGCACAAACATCACATGGGGACCCGGTACATTGAGGTTTACAAAGCA
 ACAGGCGAAGATTTCTTAAAAATGCGGAGGGACATCCAATGAGGTAGCCAGTTTCTCTCCAAGGAAA
 ACCAAGTCATCGTGCGCATGAGGGGCTCCCTTTCACGGCCACGGCTGAAGAAGTGGTGGCTTCTTTGG
 ACAGCACTGCCCATCACTGGAGGAAGGAAGGCATCCTTTCGTTACCTACCCAGATGGTAGGCCAACCC
 GGAGATGCTTTTGTGCTCTTTGCTTGTGAGGAGTATGCTCAGAACGCCCTGAGGAAGCACAAAGAGTTGC
 TGGGTAAGATACATCGAGCTTTCAGGAGCACAGCTGCCGAAGTTCAGCAGGTGCTGAACCGATTCTC
 CTCAGCCCTCTGATTCCACTTCCAACCCCTCCCATTATCCCTGTACTACCTCAGCAGTTTGTGCCTCCC
 ACGAATGTCAGAGACTGCATACGCTGCGAGGTCTTCCCTATGCTGCCACAATAGAAGACATTCTGGACT
 TCCTGGGGGAGTTTTCCACAGATATTGTCACATGGAGTGCACATGGTATTGAATCACCAGGGACGCC
 GTCAGGAGATGCCTTTATCCAGATGAAGTCAACAGACAGAGCATTGCTGGCTGCGCAGAAGTACCATAAA
 AAAACCATGAAGGACAGATATGTTGAAGTCTTTCAGTGTTCAGCTGAGGAGATGAACTTTGTGTTAATGG
 GGGGCACCTTAAATCGAAATGGCTTGTCCACCGCCATGCCTCTCCTCCCTACACATCCAGC
 TCCACCGCTGTGATTCTTACCAGGAGTCCATTATCAACCTTCTCTGCTCTTGAACCCACGGGCACTG
 CAGCCCTCCACTGCATACTACCGGCAGGCACTCAGCTTTCATGAACTACACAGCCTACTATCCAGTG
 TT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207090 representing NM_194055
 Red=Cloning site Green=Tags(s)

MTESLNFEKSDSVSRYGASQVEDMGNIILAMISEPYNHRFSDPERLNYKFESGTCSEKMLIDDDSTVVRAR
 GLPWQSSDQDIARFFKGLNIAKGGAAALCLNAQRRNGEALVRFVSEHRDLALQRHKHHMGTRYIEVYKA
 TGEDFLKIAGGTSNEVAQFLSKENQVIVMRGLPFTATAEEVVAFFGQHCPITGGKEGILFVTYDGRPT
 GDAFVLFACEEYAQNALRKHKELLGKRYIELFRSTAAEVQVLRNRFSSAPLIPLTPPIIPVLPQQFVPP
 TNVRDCIRLRGLPYAATIEDILDFLGEFSTDIRTHGVHMLNHQGRPSGDAFIQMKSTDRAFMAAQKYHK
 KTMKDRYVEVFQCSAEEMNFVLMGGTLNRNGLSPPPCLSPPSYTFPAPTAVIPTEAAIYQPSLLLNPRAL
 QPSTAYYPAGTQLFMNYTAYYPSV

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_194055

ORF Size: 1332 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_194055.1](#), [NP_918944.1](#)

RefSeq Size: 3012 bp

RefSeq ORF: 2046 bp

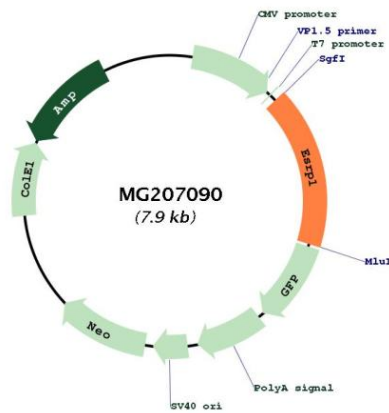
Locus ID: 207920

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]

Product images:


Circular map for MG207090