

## Product datasheet for **MR224113**

### **Ssrp1 (NM\_001136081) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ssrp1 (NM_001136081) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ssrp1
Synonyms:	C81323; Hmg1-rs1; Hmgi-rs3; Hmgox; T160
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR224113 representing NM\_001136081  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCAGAGACATTGGAGTTCAACGACATCTTCCAGGAGGTGAAAGGGTCCATGAATGATGGGAGGCTTC  
 GATTGAGCCGTCAGGGTATCATCTTTAAGAACAGCAAGACGGGCAAAGTGACAACATCCAGGCTGGGA  
 GTTGACAGAAGGCATCTGGCGTCGGGTAGCATTAGGCCATGGGCTTAAACTGCTCACAAAGAATGGGCAT  
 GTCTACAAGTACGATGGCTTCCGCGAATCGGAGTTTGAGAACTCTGACTTCTTCAAACACTACTATC  
 GCCTTGAGCTAATGGAGAAGGATCTGTGTGTAAGGGCTGGAAGTGGGGACAGTGAAGTTTGGAGGACA  
 GCTGCTTTCTTTGACATTGGTGATCAACCAGTCTTTGAGATACCCCTAAGCAATGTGTCCAGTGTACC  
 ACAGGCAAGAATGAGGTGACCCTGGAATCCACCAGAATGACGATGCTGAAGTATCTCTCATGGAGGTGC  
 GCTTCTATGTTTCTCCACGCAGGAAGATGGTGTGGACCTGTGGAGGCTTTGCCAGAATGTTCTGTC  
 AAAGGCAGATGTGATCCAGGCCACGGAGACGCCATCTGCATCTCCGGGAGCTGCAGTGTGACTCCT  
 CGCGGTGATACGATATCCGGATCTACCCACCTTTCTACACCTGCATGGCAAGACCTTTGACTACAAGA  
 TCCCTATACTACAGTTCTCCGTCTTCTCTGCTACCACACAAGGATCAGAGACAGATGTTCTTTGTGAT  
 CAGCTTGATCCTCCATCAAGCAGGGCAAACCTGTTACCACCTTCTGATCCTCCTCTTCTCCAAGGAT  
 GAGGACATCTCCTTGACTCTCAACATGAATGAGGAAGAAGTAGAAAAGCGCTTTGAGGGGCGACTCACCA  
 AGAACATGTCAGGATCCCTCTATGAAATGGTCACTCGGGTCATGAAAGCACTTGTCAACCGTAAATCAC  
 AGTCCCAGGCAACTTCCAAGGGCACTCAGGGGCCAGTGTATTACCTGCTCCTATAAGGCCAGCTCAGGA  
 CTCCTGTACCCACTGGAGCGGGGCTTCACTACGTGCATAAGCCCCTGTGCACATCCGCTTTGATGAGA  
 TCTTTTTGTCAACTTTGCCCGTGGCACCACGACTCGTTCTTTCGACTTTGAGATTGAGACCAAGCA  
 AGGCACTCAGTATACCTTCAGCAGCATTGAAAGGGAGGAGTATGAAAGCTTTTCGATTTTGTCAATGCG  
 AAAAAGCTCAACATCAAGAACAGAGGACTGAAAGAGGGCATTAAACCAGGCTATGACGATTATGCTGACT  
 CTGATGAAGACCAGCATGATGCCTATTTGGAGAGGATGAAGGAGGAGGGCAAGTCCGGGAGGAGAATGC  
 CAATGACAGCAGCGACTCAGGAGAAGAGACTGATGAGTCCTTCAATCCTGGTGAAGAAGAAGAAGAT  
 GTGGCAGAGGAGTTTGACAGCAATGCCTCTGCCAGCTCCTCCAGCAATGAGGGTGACAGTACCCTGAAG  
 AGAAGAAACGGGAACAGCTCAAAGGGCTAAGATGGCCAAGGATCGAAAGAGCCGAGGAAGTCTCAGA  
 GGCAAAGAAGGGTAAAGATCCAAACGCCCAAAGAGGCCATGTCTGCGTACATGCTGTGGCTTAATGCA  
 AGCCGCGAGAAGATCAAGTCGGATCATCTGGCATCAGTATCACAGATCTTCCAAGAAGGCAGGGGAGA  
 TCTGGAAGGGAATGTCCAAGAGAAGAAGGAGGAGTGGGACCGCAAGGCTGAGGATGCTAGGAGGGAGTA  
 TGAGAAAGCCATGAAAGAGTATGAAGGAGGAAGAGGGGACTCATCTAAAAGGGACAAGTCTAAGAAGAAA  
 AAGAAAGTAAAAGCAAAGATGGAAAAAAGTCCACTCCTTCCCGGGGCTCGTCAATCCAAGTCTTCAATCCA  
 GGCAGTTGAGTGACAGCTTCAAGAGCAAAGAGTTTGTGTCCAGTATGAGAGCTTTCAGGCGAGAACA  
 GAGCAAAAAGAAGAGGAGGCGGAGCGAGGACTCTGAAGAGGAGCTAGCCAGTACCCTCCAAGCTCAGAG  
 GACTCTGCCTCGGGATCTGATGAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR224113 representing NM\_001136081  
Red=Cloning site Green=Tags(s)

MAETLEFNDIFQEVKSMNDGRLRLSRQGIIFKNSKTGKVDNIQAGELTEGIWRRVALGHGLKLLTKNGH  
 VYKYDGFRESEFEKLSDFFKTHYRLELMEKDLCKVGNWGTVKFGGQLL SFDIGDQPVFEIPLSNVSQCT  
 TGKNEVTLEFHQNDDAEVSLMEVRFYVPPTQEDGVDPEAFAQNVLSKADVIQATGDAICIFRELQCLTP  
 RGRYDIRIYPTFLHLHGKTFDYKIPYTTVLRLFLLPHKDQRQMFVVISLDPPKIQGQTRYHFLILLFSKD  
 EDISLTLNMEEEEVEKRFEGRLTKNMSGSLYEMVSRVMKALVNRKITVPGNFQGHSGAQCITCSYKASSG  
 LLYPLERGFYVHKPPVHIRFDEISFVNFARGTTTTRSFDFE IETKQGTQYTFSSIEREEYGKLFDFVNA  
 KKLNIKNRGLKEGINPGYDDYADSDQHDAYLERMKEEGKIREENANDSSDSSGEETDESFNPGEEEEED  
 VAEFDSNASASSSSNEGSDREKKREQLKRAKMAKDRKSRRKSSEAKKGKDPNAPKRPMAYMLWLNNA  
 SREKIKSDHPGISITDL SKKAGEIWKGMSKEKKEEWRDKAEDARREYKAMKEYEGGRGDSSKRDKSKKK  
 KKVAKMEKKSTPSRGSSSKSSSRQLSDSFKSKEFVSSDESSSGENKSKKKRRRSEDSEELASTPPSSE  
 DSASGSDE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001136081

**ORF Size:** 2124 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\\_001136081.2](#), [NP\\_001129553.1](#)

**RefSeq Size:** 2721 bp

**RefSeq ORF:** 2127 bp

**Locus ID:** 20833

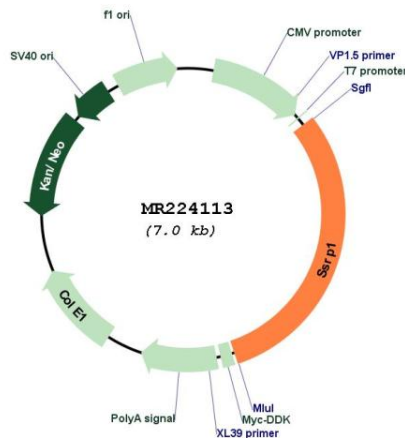
**UniProt ID:** [Q08943](#)

**Cytogenetics:** 2 49.45 cM

**MW:** 81.3 kDa

**Gene Summary:** Component of the FACT complex, a general chromatin factor that acts to reorganize nucleosomes. The FACT complex is involved in multiple processes that require DNA as a template such as mRNA elongation, DNA replication and DNA repair. During transcription elongation the FACT complex acts as a histone chaperone that both destabilizes and restores nucleosomal structure. It facilitates the passage of RNA polymerase II and transcription by promoting the dissociation of one histone H2A-H2B dimer from the nucleosome, then subsequently promotes the reestablishment of the nucleosome following the passage of RNA polymerase II. The FACT complex is probably also involved in phosphorylation of 'Ser-392' of p53/TP53 via its association with CK2 (casein kinase II). Binds specifically to double-stranded DNA. Also acts as a transcriptional coactivator for p63/TP63.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR224113