

Product datasheet for **MR210205**

Ssrp1 (BC042502) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ssrp1 (BC042502) 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:**

>MR210205 representing BC042502
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAGAGACATTGGAGTTCAACGACATCTTCCAGGAGGTGAAAGGGTCCATGAATGATGGGAGGCTTC
 GATTGAGCCGTCAGGGTATCATCTTTAAGAACAGCAAGACGGGCAAAGTGACAACATCCAGGCTGGGGA
 GTTGACAGAAGGCATCTGGCGTCGGGTAGCATTAGGCCATGGGCTTAAACTGCTCACAAAGAATGGGCAT
 GTCTACAAGTACGATGGCTTCCGCGAATCGGAGTTTGAAGAACTCTGACTTCTTCAAACACTACTATC
 GCCTTGAGCTAATGGAGAAGGATCTGTGTGTAAGGGCTGGAAGTGGGGACAGTGAAGTTTGGAGGACA
 GCTGCTTTCTTTGACATTGGTGATCAACCAGTCTTTGAGATACCCCTAAGCAATGTGTCCAGTGTACC
 ACAGGCAAGAATGAGGTGACCCTGGAATCCACCAGAATGACGATGCTGAAGTATCTCTCATGGAGGTGC
 GCTTCTATGTTTCTCCACGCAGGAAGATGGTGTGGACCTGTGGAGGCTTTGCCAGAATGTTCTGTC
 AAAGGCAGATGTGATCCAGGCCACGGAGACGCCATCTGCATCTCCGGGAGCTGCAGTGTGACTCCT
 CGCGGTGATACGATATCCGGATCTACCCTACCTTTCTACACCTGCATGGCAAGACCTTTGACTACAAGA
 TCCCTATACTACAGTTCTCCGTCTTCTCTGCTACCACACAAGGATCAGAGACAGATGTTCTTTGTGAT
 CAGCTTGGATCCTCCATCAAGCAGGGCCAAACTCGTTACCACCTTCTGATCCTCCTCTTCTCAAGGAT
 GAGGACATCTCCTTGACTCTCAACATGAATGAGGAAGAAGTAGAAAAGCGCTTTGAGGGGCGACTCACCA
 AGAACATGTCAGGATCCCTCTATGAAATGGTCAGTCGGGTGATGAAAGCACTTGTCAACCGTAAATCAC
 AGTCCCAGGCAACTTCCAAGGGCACTCAGGGGCCAGTGTATTACCTGCTCCTATAAGGCCAGCTCAGGA
 CTCCTGTACCCACTGGAGCGGGGCTTCACTACGTGCATAAGCCCCTGTGCACATCCGCTTTGATGAGA
 TCTCTTTTGTCAACTTTGCCCGTGGCACCACCACTCGTTCTTTCGACTTTGAGATTGAGACCAAGCA
 AGGCACTCAGTATACCTTCAGCAGCATTGAAAGGGAGGAGTATGGAAAGCTTTTTGATTTTGTCAATGCG
 AAAAAGCTCAACATCAAGAACAGAGGACTGAAAGAGGGCATTAAACCAGGCTATGACGATTATGCTGACT
 CTGATGAAGACCAGCATGATGCCTATTTGGAGAGGATGAAGGAGGAGGGCAAGTCCGGGAGGAGAATGC
 CAATGACAGCAGCGACGACTCAGGAGAAGAGACTGATGAGTCCTTCAATCCTGGTGAAGAAGAAGAAGAT
 GTGGCAGAGGAGTTTGACAGCAATGCCTCTGCCAGCTCCTCCAGCAATGAGGGTGACAGTACCCTGAAG
 AGAAGAAACGGGAACAGCTCAAAGGGCTAAGATGGCCAAGGATCGAAAGAGCCGAGGAAGTCTCAGA
 GGCAAAGAAGGGTAAAGATCCAAACGCCCAAAGAGGCCATGTCTGCGTACATGCTGTGGCTTAATGCA
 AGCCGCGAGAAGATCAAGTCGGATCATCTGGCATCAGTATCACAGATCTTCCAAGAAGGCAGGGGAAA
 TCTGGAAGGGAATGTCCAAGAGAAGAAAGAGGAGTGGGACCGCAAGGCTGAGGATGCTAGGAGGGAGTA
 TGAGAAAGCCATGAAAGAGTATGAAGGAGGCAGAGGGGACTCGTCTAAAAGGGACAAGTCTAAGAGGGAC
 AAGTCTAAGAAGAAAAGAAAGTAAAAGCAAAGATGGAAAAAAGTCCACTCCTTCCCGGGGCTCGTCAT
 CCAAGTCTTATCCAGGCAGTTGAGTGACAGCTTCAAGAGCAAAGAGTTTGTGTCCAGTGTGAGAGCTC
 TTCAGGCGAGAACAAGAGCAAAAAGAAGAGGCGGAGCGAGGACTCTGAAGAGGAGCTAGCCAGTACC
 CCCTCAAAGCTCAGAGGACTCTGCCTCGGGATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210205 representing BC042502
 Red=Cloning site Green=Tags(s)

MAETLEFNDIFQEVKSMNDGRLRLSRQGIIFKNSKTGKVDNIQAGELTEGIWRRVALGHGLKLLTKNGH
 VYKYDGFRESEFEKLSDFFKTHYRLELMEKDLCKVGNWGTVKFGGQLLSFDIGDQPVFEIPLSNVSQCT
 TGKNEVTLEFHQNDDAEVSLMEVRFYVPTQEDGVDPEAFAQNVLSKADVIQATGDAICIFRELQCLTP
 RGRYDIRIYPTFLHLHGKTFDYKIPYTTVLRLLPHKDQRQMFVVISLDPPIKQGQTRYHFLILLFSKD
 EDISLTLNMNEEEVEKRFEGRLTKNMSGSLYEMVSRVMKALVNRKITVPGNFQHGSAQCITCSYKASSG
 LLYPLERGFYVHKPPVHIRFDEISFVNFARGTTTTRSFDFE IETKQGTQYTFSSIEREEYGKLFDFVNA
 KKLNIKNRGLKEGINPGYDDYADSDDEDQHDAYLERMKEEGKIREENANDSSDSSGEETDESFNPGEED
 VAEFDSNASASSSSNEGSDREKKREQLKRAKMAKDRKSRRKSSEAKKGKDPNAPKRPMAYMLWNA
 SREKIKSDHPGISITDL SKKAGEIWKGMSKEKKEEWDRAEDARREYKAMKEYEGGRDSSKRDKSKRD
 KSKKKKVKAKMEKKSTPSRGSSKSSSRQLSDSFKSKEFVSSDESSESGENKSKKKRRRSEDSEELAST
 PSKLRGLCLGI

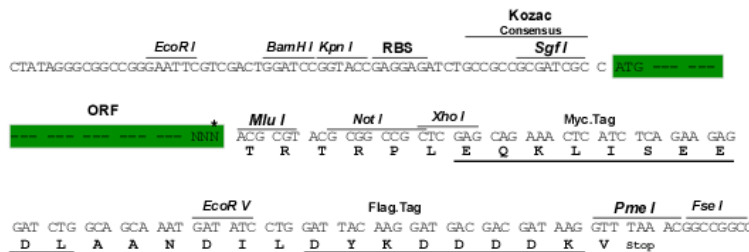
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9043_f08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC042502

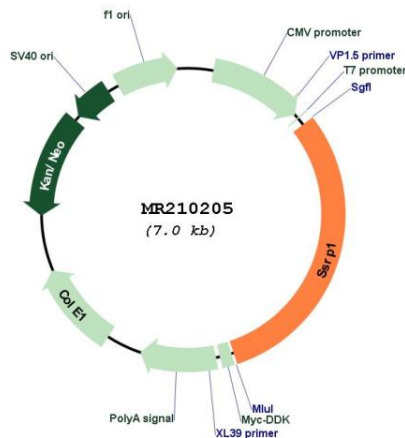
ORF Size: 2133 bp

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:	<ol style="list-style-type: none"> 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:	<u>BC042502.1</u>
RefSeq Size:	2792 bp
RefSeq ORF:	2135 bp
Locus ID:	20833
Cytogenetics:	2 49.45 cM
MW:	102.3 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 MR210205