

Product datasheet for **RG200414**

SSRP1 (NM_003146) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SSRP1 (NM_003146) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SSRP1
Synonyms:	FACT; FACT80; T160
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG200414 representing NM_003146
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGCAGAGACACTGGAGTTCAACGACGTCTATCAGGAGGTGAAAGGTTCCATGAATGATGGTCGACTGA
 GGTTGAGCCGTCAGGGCATCATCTTCAAGAATAGCAAGACAGGCAAAGTGACAACATCCAGGCTGGGA
 GTTAACAGAAGGTATCTGGCGCGTGTGCTCTGGCCATGGACTTAACTGCTTACAAAGAATGCCAT
 GTCTACAAGTATGATGGCTTCCGAGAATCGGAGTTTGAGAACTCTGATTTCTTCAAACTCACTATC
 GCCTTGAGCTAATGGAGAAGGACCTTTGTGTGAAGGGCTGGAAGTGGGGACAGTGAAATTTGGTGGCA
 GCTGCTTTCTTTGACATTGGTGACCAGCCAGTCTTTGAGATACCCCTCAGCAATGTGTCCAGTGCACC
 ACAGGCAAGAATGAGGTGACACTGGAATCCACCAAAACGATGACGCAGAGGTGTCTCTCATGGAGGTGC
 GCTTCTACGTCCCACCCACCCAGGAGGATGGTGTGGACCCTGTTGAGGCCTTTGCCAGAATGTGTTGTC
 AAAGGCGGATGTAATCCAGGCCACGGGAGATGCCATCTGCATCTCCGGGAGCTGCAGTGTCTGACTCCT
 CTGGTCTGTTATGACATTCGGATCTACCCACCTTTCTGCACCTGCATGGCAAGACCTTTGACTACAAGA
 TCCCTACACCACAGTACTGCGTCTGTTTTGTTACCCACAAGGACCAGCGCCAGATGTTCTTTGTGAT
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 GAGGACATTTCTGTTGACTCTGAACATGAACGAGGAAGAAGTGAGAAGCGCTTTGAGGGTCGGCTACCA
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 AGTGCCAGGCAACTTCCAAGGGCACTCAGGGGCCAGTGCATTACCTGTTCTACAAGGCAAGCTCAGGA
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 TGAAAAAGCCATGAAAGAATATGAAGGGGGCCGAGGCGAGTCTTCTAAGAGGGACAAGTCAAGAAGAAG
 AAGAAAGTAAAGGTAAAGATGGAAGAAGAAATCCACGCCCTCTAGGGGCTCATCATCAAGTCGTCCTCAA
 GGCAGCTAAGCGAGAGCTTCAAGAGCAAAGAGTTTGTGTCTAGTGATGAGAGCTCTTCGGGAGAGAACAA
 GAGCAAAAAGAAGAGGAGGAGGAGCGAGGACTCTGAAGAAGAAGAACTAGCCAGTACTCCCCCAGCTCA
 GAGGACTCAGCGTCAGGATCCGATGAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

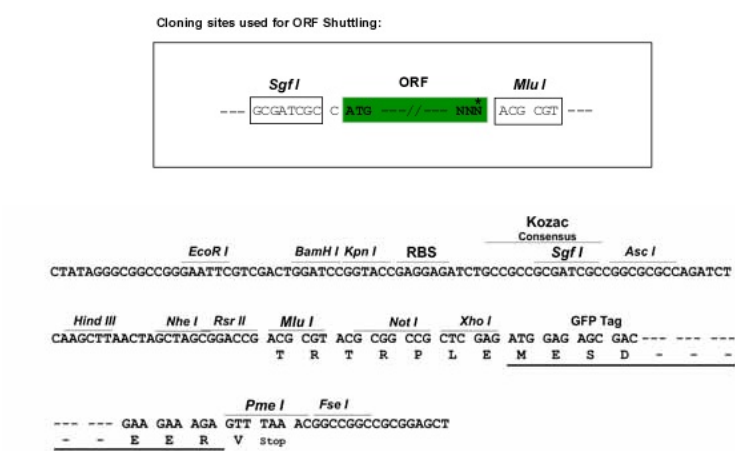
Protein Sequence: >RG200414 representing NM_003146
 Red=Cloning site Green=Tags(s)

MAETLEFNDVYQEVKGSMDGRLRLSRQGIIFKNSKTGKVDNIQAGELTEGIWRRVALGHGLKLLTKNGH
 VYKYDGFRESEFEKLSDFFKTHYRLELMEKDLCKVGNWGTVKFGGQLLSFDIGDQPVFEIPLSNVSQCT
 TGKNEVTLEFHQNDDAEVSLEVRFYVPPTQEDGVDPVEAFAQNVLSKADVIQATGDAICIFRELQCLTP
 RGRYDIRIYPTFLHLHGKTFDYKIPYTTVLRLFLLPHKDQRMFFVISLDPPKQGTTRYHFLILLFSKD
 EDISLTLNMEEEEVEKRFEGRLTKNMSGSLYEMVSRVMKALVNRKITVPGNFQGHSGAQCITCSYKASSG
 LLYPLERGFIIYHKPPVHIRFDEISFVNFAFGTTTTSFDFEIIETKQGTQYTFSSIEREEYKGLDFVNA
 KKLNIKNRGLKEGMNPSYDEYADSDQHDAYLERMKEEGKIREENANDSSDSSGEETDESFNPGESEED
 VAEFDSNASASSSSNEGSDRDEKKRQLKKAKMAKDRSRKKPVEVKKGKDPNAPKRPMAYMLWLNNA
 SREIKSDHPGISITDL SKKAGEIWKGMSKEKKEEWDRAEDARRDYEKAMKEYEGGRGESSKRDKSKKK
 KKVVKMEKKSTPSRGSSSKSSSRQLSESFKSKEFVSSDESSSGENKSKKKRRRSEDSEEEELASTPPSS
 EDSASGSDE

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



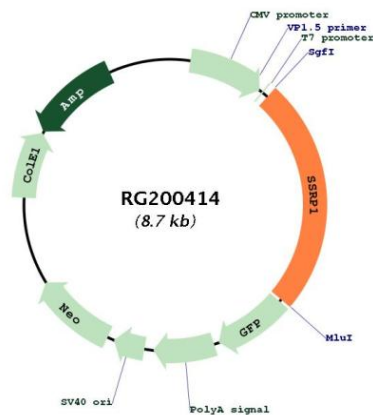
ACCN: NM_003146

ORF Size: 2127 bp

OTI Disclaimer:	<p>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 or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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:	NM_003146.3
RefSeq Size:	2825 bp
RefSeq ORF:	2130 bp
Locus ID:	6749
UniProt ID:	Q08945
Cytogenetics:	11q12.1
Domains:	HMG, SSrecog
Protein Families:	Transcription Factors

Gene Summary:

The protein encoded by this gene is a subunit of a heterodimer that, along with SUPT16H, forms chromatin transcriptional elongation factor FACT. FACT interacts specifically with histones H2A/H2B to effect nucleosome disassembly and transcription elongation. FACT and cisplatin-damaged DNA may be crucial to the anticancer mechanism of cisplatin. This encoded protein contains a high mobility group box which most likely constitutes the structure recognition element for cisplatin-modified DNA. This protein also functions as a co-activator of the transcriptional activator p63. An alternatively spliced transcript variant of this gene has been described, but its full-length nature is not known. [provided by RefSeq, Jul 2008]

Product images:


Circular map for RG200414