

Product datasheet for **MC217072**

Sprtn (NM_001111141) Mouse Untagged Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Sprtn (NM_001111141) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Sprtn |
| Synonyms: | Gm505 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF: >MC217072 representing NM_001111141
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACGAGGATCTGGTGGTTCGGCTGCGGCTGCAGGAGGAGTGGACGTGCAGATGGCGCGCGCGCGG
 CGGCGGCGGGAGCCGTGTCGTTGGTGGACGCGTCCTGGGAGCTGGTGGACCCACCCAGACCTGCA
 GGCGCTCTTCCTGCAGTTTAACGATCGCTTCTTCTGGGGTTCAGCTGGAGGCGGTGGAGGTGAAGTGGAGT
 GTGCGCATGACCTGTGTGCTGGGATCTGCACCTATGAAGGGAGAGGAGGCATGTGCTCCATCCGCTCA
 GTGAGCCCTGTAAACTGAGACCAAGAAAGGACCTTGTAGAGACTCTTTTGCATGAAATGATACATGC
 CTACTTATTTGCTACTAATAATGATAAAGACCGGGAAGGACACGGCCAGAGTCTGTAAACATATGCAT
 CGAATCAACCAACTGACAGGAGCAACATAACGGTCTACCACACTTCCATGATGAGGTGGATGAGTATC
 GCCGGCACTGGTGGCGTCAATGGACCCTGCCAGCACAGACAGCCCTACTACGGCTATGTGAAGCGTGC
 CACCAACAGGGCCCCCTCTGTTCATGACTACTGGTGGGCTGACCACCAGAAAACCTGTGGAGGCCTTAC
 ATAAAAATCAAGGAGCCAGAGAACTATTCGAAGAAAGGCAGAGGGAAGACAAAAGCAGACAAGCAGCCAG
 CATCGGCACTGGAGAATAAAGACAAGCTGTGCAGAGGGGAGGCCAGCTGCTCATCCCATTTCAGTGGAAA
 AGGCTATGTTCTTGGAGACGCAAGCACTTGCCTTCAGCTGGGAAGCTGAACACCTCATACATGGTTAAT
 GAAGCCAAAGGTCTCTCAAGTCAAGACCATTTCAGTGGTGGCCTGAGGCTCAATTCCAATGCTGAGGTGA
 AATGTGAACAGAACTGTCTCCCAAGAAACCTCATCTTGTGAGCCCTCTCCCACTGCTAGTACCAAAG
 TGTCTGAGCTCCTACTTCCCAAGAGTCTCTGTTGCCAACCAAAAGGCTTCCGAAATGTGAATGGATCC
 CCAGTAAAGAACGGGACCACTGGGGATGGCACCAGCGTCTGCTCAGGAGGCTCTCAGAGGAAGGTCC
 CACCTCCAGGGCATCCCTGAGAAATACCTCCAAGTCACAGCACCAGCGTCAGCAACCGTGACATCTGC
 AGCTGGGACATCCGCAACCATATCCCGAGAGGAGTGGGTCTGAAGACCAATTCTGAACAAGCGACCC
 AGGTTGGAGGACAGGACTGCTTTGGATACTATCAAGGAACAAACAAAGTGGTGGTGCCTTCGGAGTA
 GCTCACAGCCACAGCCGCGAGCTCCTCAGAGCTTGGAGAGTCAACGGCGGCTGGTCAACTGTCCAGT
 GTGTCAGGGCGTGGTGGAGTACAGATTAACGAGCACTTGGACCGATGCCTGGAAGGTAACAAAACC
 AACCTGCGACCTCGAAGAGT**TGA**

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

ACCN: NM_001111141

Insert Size: 1494 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001111141.1](#), [NP_001104611.1](#)

RefSeq Size: 2116 bp

RefSeq ORF: 1494 bp

Locus ID: 244666

UniProt ID: [G3X912](#)

Cytogenetics: 8 E2

Gene Summary: Regulator of UV-induced DNA damage response: acts as a 'reader' of ubiquitinated PCNA that enhances RAD18-mediated PCNA ubiquitination and translesion DNA synthesis (TLS). Recruited to sites of UV damage and interacts with ubiquitinated PCNA and RAD18, the E3 ubiquitin ligase that monoubiquitinates PCNA. Facilitates chromatin association of RAD18 and is required for efficient PCNA monoubiquitination, promoting a feed-forward loop to enhance PCNA ubiquitination and translesion DNA synthesis. Acts as a regulator of TLS by recruiting VCP/p97 to sites of DNA damage, possibly leading to extraction of DNA polymerase eta (POLH) by VCP/p97 to prevent excessive translesion DNA synthesis and limit the incidence of mutations induced by DNA damage (By similarity).[UniProtKB/Swiss-Prot Function]