

Product datasheet for **RN209341**

Sprtn (NM_001106199) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sprtn (NM_001106199) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Sprtn
Synonyms:	RGD1559496
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN209341 representing NM_001106199
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGGATCGCC

ATGACGAGGATCTGGTGGTCGCGCTGCGGCTGCAGGAGGAGTGGACGTGCAGGCGCGCGCGCGCGG
CGGCGCGGAGCCCTATCGTTGGTGGACGCGTCTGGGAGCTGGTGGACCCACCCCGACCTGCAGGC
GCTCTTCTGCAGTTAACGATCGTTCTTCTGGGGTCAGCTGGAGCCGTGGAGGTGAAGTGGAGTGTG
CGCATGACACTGTGTGCTGGCATCTGCACCTATGAAGGGAGAGGAGGCATGTGCTCCATCCGTCTCAGTG
AACCTTGTAAAACCTCAGACCAAGAAAGGACCTTGTAGAGGTCTACCACACTTCCACGATGAGGTGGA
TGAGTATCGCCGGCACTGGTGGCGCTGCAATGGACCCTGCCAGCACAACAGCCCTACTATGGCTATGTG
AAGCGTGCCACCAACAGGGCTCCCTCTGCTCATGACTACTGGTGGGCTGACCACCAGAAAACCTTGTGGAG
GCATTTACATAAAAATCAAGGAGCCAGAGAATATGCAAAGAAAGGCAGAGGAAAGACAAAAGCAGGC
GCAGCCACATCGGCAGTGGAGAATAAAGATAAACTGTGCAGAGGAGAGGCCAGCCGCTCATCCCATTC
AGTGGCAAAGGGTATGTTCTTGGAGACACAAGCACTTGCCTTACAGTGGGAAGCTGAACACCTCACACA
TGGTTAATGACACCAAAGGTCTCTCAGGTCAAGACCATTACAGGAGTGGCCTGAAGCTCGATTCCAACTG
TGAGGTGAAATGTGAACAGAACGGTCTTCCAAATAAGAAGCCTCATCTTGTACCCCTCTTCCCCTGCT
AGTCACCAAAGTGTCTGAGCAGCTACTTCCCAGAGTCTCTGTTGCCAACCAAAGGCTTTCAGAAATG
TAAATGGATCCCAGTGAAGAGTGAACCATCGATGGCACCAAGCACTCTGCCTCAGCAGGCGCTCAGAG
AAAGGTTCCACCTTCTAGGGCATCCCTGAGAAATTCCTCAAAGTCACGGCACCAGCATCAGCAACCGTG
ACATCTGCAGCTGGGACTTCCGAGCCATATCCCGAGAGGAGAGTGGGTCTGAAGACCAATTCTGAACA
AGCGACCCAGGTTGGAGGACAGGACTGCTTTGAATAATATCAAGGACAAACACAGAGTGGTGGTGCCT
TGAGGATAGCTACGGCCACAGCCATCAGACGCTCGGAGCTCAGGCGGTGAGCGGCTGGTCAAC
TGTCCAGTGTGTCAGGGCGTAGTTTTGGAGTTCGAGATTAATGAGCACTTGACCCTGCCTGGAAGGCA
GCAAAACCAACCTCCGACCTCGAAGAGTTGA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

ACCN: NM_001106199

Insert Size: 1362 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:	<u>NM_001106199.1, NP_001099669.1</u>
RefSeq Size:	1407 bp
RefSeq ORF:	1362 bp
Locus ID:	292101
Cytogenetics:	19q12
Gene Summary:	<p>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]</p>