

Product datasheet for **RC239842**

SCP1 (SYCP1) (NM_001282541) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SCP1 (SYCP1) (NM_001282541) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SCP1
Synonyms:	CT8; HOM-TES-14; SCP-1; SCP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC239842 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAAAAGCAAAGCCCTTTGCATTGTTCTGACCACCGAGATCAAGCAGCAGTCAGGTGTCTCGGTGA
 AACCTCAGACCCTGGGAGGCGATTCCACTTTCTCAAGAGTTTCAACAAATGTACTGAAGATGATTTTGA
 GTTCCATTTGCAAAGACTAATCTCTCCAAAAATGGGAAAAACATTGATTCAGATCCTGCTTTACAAAA
 GTTAATTTCTTGCCCGTCTTGAGCAGGTTGGTAATTCTGACTGTCACTATCAGGAAGGACTAAAAGACT
 CTGATTTGGAGAATTCAGAGGGATTGAGCAGAGTGTATTCAAAAGTGTATAAGGAGGCTGAAAAGATAAA
 AAAATGGAAGTAAAGTACAGAAGCTGAAGTACAGACAGAAAGAAAGTAAAGTTGCAAGAAAACAGAAAGATA
 ATTGAAAGCACAGCGAAAAGCCATTCAGGAAGTCAATTTGAAAATGAAAAAGTAAAGTTGAAATTAGAAG
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 AGAAACCTGTGCTAGATCTGCAGAAAAGACAAAGAAATATGAATATGAACGGGAAGAAACCAGGCAAGTT
 TATATGGATCTAAATAATAACATTGAGAAAATGATAACAGCTTTTGAGGAACTTCGTGTGCAAGCTGAGA
 ATTCAGACTGGAATGCATTTTAAAGTTAAAGGAAGATTATGAAAAATCCAACACCTTGAACAAGAATA
 CAAGAAGGAAATAAATGACAAGGAAAAGCAGGTATCACTACTATTGATCCAAATCACTGAGAAAAGAAAAT
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 ACAATTTGTCAGCTAACTGAAGAAAAAGAACTCAAATGGAAGAATCTAATAAAGCTAGAGCTGCTCATT
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 ATTTGAAAAAAAATGAAGATCAATTGAAAAACTTACCATGGAGCTTCAAAAGAAAATCAAGTGAGCTGGAA
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 CTGAATTAACCTCACACTGCAACAAGCTTTCACTAGAAAACAAAGAGCTCACACAGGAAACAAGTGATAT
 GACCCTAGAACTCAAGAATCAGCAAGAAGATTAATAATAACAAAAAGCAAGAAGAAAGGATGTTGAAA
 CAAATAGAAAATCTTCAAGAAACAGAAACCAATTAAGAATGAACTAGAATATGTGAGAGAAGAGCTAA
 AACAGAAAAGAGATGAAGTTAAATGTAATTTGGACAAGAGTGAAGAAAATTTGTAACAATTTAAGGAAACA
 AGTTGAAAATAAAAAACAAGTATATTGAAGAATTCAGCAGGAGAATAAGGCCCTGAAAAAAAAGGTACA
 GCAGAAAGCAAGCAACTGAATGTTTATGAGATAAAGGTCAATAAATTAGAGTTAGAACTAGAAAAGTGCCA
 AACAGAAAATTTGGAGAAATCACAGACACCTATCAGAAAGAAATGAGGACAAAAAGATATCAGAAGAAAA
 TCTTTTGGAGAGGTTGAGAAAGCAAAGTAAATAGCTGATGAAGCAGTAAAAATCAGAAAAGAAATTTGAT
 AAGCGATGTCAACATAAAATAGCTGAAATGGTAGCACTTATGGAAAAACATAAGCACCAATATGATAAGA
 TCATTGAAGAAAGAGACTCAGAATTAGGACTTTAAGAGCAAAGAACAAGAACAGTCATCACTGAGAGC
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 ACATCTGCCAAAAATACTTTATCTACACCATTGCCAAAGGCATATACAGTGAAGACACCAACAAAACCAA
 AACTACAGCAAAGAGAAAACTTGAATATACCCATTGAAGAAAGTAAAAAAAAGAGAAAAATGGCCTTTGA
 ATTTGATTAATAATTCAGATAGTTCAGAACTACTGATCTTTTGGAGCATGGTTTCAGAAGAAGAGACATTG
 AAAACTGTATAGGAACAATAATCCACCAGCTTCTCATCTTTGTGTCAAACACCAAAAAAGGCCCTT
 CATCTCTAACACCCCTGGATCTCACTGAAGTTTGGAGCTATAAGAAAAATGCGGGAGGACCGTTGGGC
 TGTAATTGCTAAAATGGATAGAAAAAAAACCTAAAAGAAGCTGAAAAGTTATTTGTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239842 protein sequence
 Red=Cloning site Green=Tags(s)

MEKQKPFALFVPPRSSSSQVSAVKPQTLGGDSTFFKSFNKCTEDDFEPFAKTNLSKNGENIDSDPALQK
 VNFLPVLQVGNSDCHYQEGKDSLENSEGLSRVYSKLYKEAEKIKKWKVSTEALRQKESKLQENRKI
 IEAQRKAIQELQFGNEKVSCLKLEEGIQENKDLIKENNATRHLCNLLKETCARSAEKTKKYEREETROV
 YMDLNNNIEKMITAFEELRVQAENSRLMFMFKLKEDYEKIQHLEQEQYKKEINDKEKQVSLLLIQITEKEN
 KMKDLTFLLEESRDKNVQLEEKTKLQSENKQSIKQHHLTKELEDIKVSLQRSVSTQKALEEDLQIATK
 TICQLTEEKETQMEESENKARAAHSFVVTEFETTVCSLEELLRTEQORLEKNEDQLKILTMELQKKSSELE
 EMTKLTNNKEVELEELKVKLGEKETLLYENKQFEKIAEELKGTEQELIGLLQAREKEVHDLQIQLTAITT
 SEQYYSKEVKDLKTELENEKLNTELTSHCNKLLENKELTQETSDMTLELKNQVEDINNNKKQEERMLK
 QIENLQETETQLRNELEYVREELKQKRDEVKCKLQSEENCNLRKQVENKNKYIEELQQENKALKKKGT
 AESKQLNVYEIKVKNLELELESQKQFGEITDQYQKEIEDKKISEENLLEEVEKAKVIADAVKLQKEID
 KRCQHKIAEMVALMEKHKHQYDKIEERDSELGLYKSKEQEQSSLRASLEIELSNLKAELLSVKKQLEIE
 REEKEKLRKREKENTATLKEKKDKKTQTFLLTPEIYWKLDSKAVPSQTVSRNFTSVDHGISKDKRDYLV
 TSAKNTLSTPLPKAYTVKTPPKLQRENLNIPTEESKKRKMFAFDINDSDSSETTDLMSVSEETL
 KTLYRNNPPASHLCVKTPPKAPSSLTPGSTLKFGAIRKMRDRWAVIAKMDRKKKLKEAEKLFV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6688_f11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



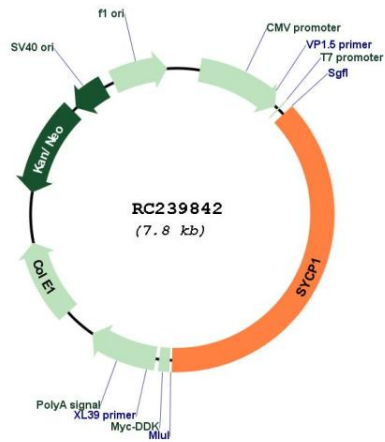
* The last codon before the Stop codon of the ORF

ACCN: NM_001282541

ORF Size: 2928 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:	NM_001282541.1 , NP_001269470.1
RefSeq Size:	3532 bp
RefSeq ORF:	2931 bp
Locus ID:	6847
UniProt ID:	Q15431
Cytogenetics:	1p13.2
MW:	114.2 kDa
Gene Summary:	Major component of the transverse filaments of synaptonemal complexes, formed between homologous chromosomes during meiotic prophase. Required for normal assembly of the central element of the synaptonemal complexes. Required for normal centromere pairing during meiosis. Required for normal meiotic chromosome synapsis during oocyte and spermatocyte development and for normal male and female fertility.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC239842