

Product datasheet for **RC239814**

SCP1 (SYCP1) (NM_001282542) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SCP1 (SYCP1) (NM_001282542) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SYCP1
Synonyms:	CT8; HOM-TES-14; SCP-1; SCP1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide
Sequence:

>RC239814 representing NM_001282542
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGAAAAAGCAAAGCCCTTTGCATTGTTCTGACCACCGAGATCAAGCAGCAGTCAGGTGTCTCGGTGA
 AACCTCAGACCCTGGGAGGCGATTCCACTTTCTCAAGAGTTTCAACAAATGTACTGAAGATGATTTTGA
 GTTCCATTTGCAAAGACTAATCTCTCCAAAAATGGGAAAAACATTGATTCAGATCCTGCTTTACAAAA
 GTTAATTTCTGCCCCTGCTTGAGCAGGTTGGTAATTCTGACTGTCACTATCAGGAAGGACTAAAAGACT
 CTGATTTGGAGAATTCAGAGGGATTGAGCAGAGTGTATTCAAACGTGATAAGGAGGCTGAAAAGATAAA
 AAAATGGAAGTAAAGTACAGAAGCTGAAGTGAACAGAAAAGTAAAGTTGCAAGAAAACAGAAAGATA
 ATTGAAGCACAGCGAAAAGCCATTCAGGAAGTCAATTTGAAAATGAAAAAGTAAAGTTGAAATTAGAAG
 AAGGAATACAAGAAAATAAGATTTAATAAAAGAGAATAATGCCACAAGGCATTTATGTAATCTACTCAA
 AGAACCTGTGCTAGATCTGCAGAAAAGACAAAAGAAATATGAATATGAACGGGAAGAACAGGCAAGTT
 TATATGGATCTAAATAATAACATTGAGAAAATGATAACAGCTTTTGGAGAACTTCGTGTGCAAGCTGAGA
 ATTCAGACTGGAATGCATTTAAGTTAAAGGAAGATTATGAAAAATCCAACACCTTGAACAAGAATA
 CAAGAAGGAAATAAATGACAAGGAAAAGCAGGTATCACTACTATTGATCCAAATCACTGAGAAAAGAAA
 AAAATGAAAGATTTAACATTTCTGCTAGAGGAATCCAGAGATAAAGTTAATCAATTAGAGGAAAAGACAA
 AATTACAGAGTGAAGAACTTAAACAATCAATTGAGAAACAGCATCTTTGACTAAAGAACTAGAAGATAT
 TAAAGTGCATTACAAGAAGTGTGAGTACTCAAAGGCTTTAGAGGAAGATTTACAGATAGCAACAAAA
 ACAATTTGTCAGCTAACTGAAGAAAAGAACTCAAATGGAAGAATCTAATAAAGCTAGAGCTGCTCATT
 CGTTTGTGTTACTGAATTTGAACTACTGTCTGAGCTTGAAGAATTATTGAGAACAGAACAGCAAAAG
 ATTTGAAAAAAAATGAAGATCAATTGAAAAACTTACCATGGAGCTTCAAAAGAAAATCAAGTGAGCTGGAA
 GAGATGACTAAGCTTACAATAACAAGAAAGTAGAACTTGAAGAATTGAAAAAAGCTTGGGAGAAAAGG
 AACACTTTTATATGAAAAATAACAATTTGAGAAGATTGCTGAAGAATTAAGGAAACAGAAACAAGAACT
 AATTGGTCTTCTCCAAGCCAGAGAGAAAAGTACATGATTTGAAAATACAGTTAACTGCCATTACCACA
 AGTGAACAGTATTATTCAAAGAGGTTAAAGATCTAAAACTGAGCTTGAACAGGAAAGCTTAAGAATA
 CTGAATTAACCTCACACTGCAACAAGCTTTCACTAGAAAACAAAGAGCTCACACAGGAAACAAGTGATAT
 GACCCTAGAACTCAAGAATCAGCAAGAAGATTAATAATAACAAAAAGCAAGAAGAAAGGATGTTGAAA
 CAAATAGAAAATCTTCAAGAAACAGAAACCAATTAAGAAATGAACTAGAATATGTGAGAGAAGAGCTAA
 AACAGAAAAGAGATGAAGTTAAATGTAATTTGGACAAGAGTGAAGAAAATTTGTAACAATTTAAGGAAACA
 AGTTGAAAATAAAAAACAAGTATATTGAAGAATTCAGCAGGAGAATAAGGCCCTGAAAAAAAAGGTACA
 GCAGAAAGCAAGCAACTGAATGTTTATGAGATAAAGGTCAATAAATTAGAGTTAGAACTAGAAAAGTGCCA
 AACAGAAAATTTGGAGAAAATCACAGACACCTATCAGAAAGAAAATGAGGACAAAAAGATATCAGAAGAAA
 TCTTTTGGAAAGAGGTTGAGAAAAGCAAAGTAAATAGCTGATGAAGCAGTAAAATACAGAAAAGAAATGAT
 AAGCGATGTCAACATAAAATAGCTGAAATGGTAGCACTTATGGAAAAACATAAGCACCAATATGATAAGA
 TCATTGAAGAAAGAGACTCAGAATTAGGACTTTAAGAGCAAAGAACAAGAACAGTCATCACTGAGAGC
 ATCTTTGGAAAAACTCAAAGAGAGGCAAAGAAAACACAGCTACTCTTAAAGAAAAAAAAGACAAGAAA
 ACACAAAACATTTTATTGGAAACACCTGAAATTTATTGGAAATTTGATTCTAAAGCAGTTCTTCCAAA
 CTGTATCTCGAAATTTACATCAGTTGATCATGGCATATCCAAAGATAAAAAGAGACTATCTGTGGACATC
 TGCCAAAAATACTTTATCTACACATTGCCAAAGGCATATACAGTGAAGACACCAACAAAACAAAAACTA
 CAGCAAAGAGAAAATTTGAATATACCCATTGAAGAAAAGTAAAAAAAAGAGAAAAATGGCCTTTGAATTTG
 ATATTAATTCAGATAGTTCAGAACTACTGATCTTTTGTGTCAAAACACCAAAAAAGGCCCTTCTATCT
 CTAACAACCCCTGGATCTACACTGAAGTTTGGAGCTATAAGAAAAATGCGGGAGGACCGTTGGGCTGTAA
 TTGCTAAAATGGATAGAAAAAAAACAAAAGAAGCTGAAAAGTATTTGTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239814 representing NM_001282542
 Red=Cloning site Green=Tags(s)

MEKQKPFALFVPPRSSSSQVSAVKPQTLGGDSTFFKSFNKCTEDDFEFPFAKTNLSKNGENIDSDPALQK
 VNFLPVLEQVGNSDCHYQEGDKSDLENSEGLSRVYSKLYKEAEKIKKWKVSTAEALRQKESKLQENRKI
 IEAQRKAIQELQFGNEKVSCLKLEEGIQENKDLIKENNATRHLCNLLKETCARSAEKTKKYEREETRQV
 YMDLNNNIEKMITAFEELRVQAENSRLMHHFKLKEDYEKIQHLEQEYKKEINDKEKQVSLLLIQITEKEN
 KMKDLTFLLEESRDKNVQLEEKTKLQSENKQSIKQHHLTKELEDIKVSLQRSVSTQKALEEDLQIATK
 TICQLTEKETQMEESENKARAAHSFVVTEFETTVCSLEELLRTEQORLEKNEDQLKILTMELQKKSSELE
 EMTKLTNNKEVELEELKKVLGEKETLLYENKQFEKIAEELKGTEQELIGLLQAREKEVHDLEIQLTAITT
 SEQYYSKEVKDLKTELENEKLNTELTSHCNKLSLENKELTQETSDMTLELKNQQEDINNNKKQEERMLK
 QIENLQETETQLRNELEYVREELKQKRDEVKCKLDKSEENCNLRKQVENKNKYIEELQQENKALKKKGT
 AESKQLNVYIEIKVKNLELELESKQKFGIETDQYKEIEDKKISEENLLEEVEKAKVIADAVKLQKEID
 KRCQHKIAEMVALMEKHKHQYDKIEERDSELGLYKSKEQEQSSLRASLEKLRKREKENTATLKEKKDKK
 TQTFLLTPEIYWKLDKAVPSQTVSRNFTSVDHGISKDKRDYLTWSAKNTLSTPLPKAYTVKPTPKPL
 QQRENLIPIEESKRRKMAFEFDINSDSSETDLLSMVSEETLKTLYRNNPPASHLCVKTPPKAPSS
 LTPGSLTKFGAIRKMREDRWAVIAKMDRKKKLKAEKLFV

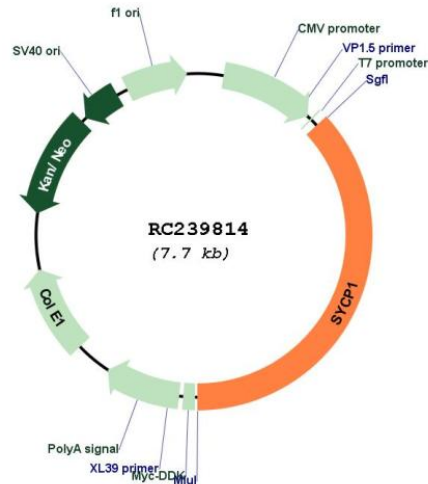
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001282542

ORF Size: 2853 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:

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_001282542.1](#), [NP_001269471.1](#)

RefSeq Size: 3457 bp

RefSeq ORF: 2856 bp

Locus ID: 6847

Cytogenetics: 1p13.2

MW: 111.7 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]