

## Product datasheet for **RG239842**

### 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:	TurboGFP
Symbol:	SCP1
Synonyms:	CT8; HOM-TES-14; SCP-1; SCP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG239842 representing NM\_001282541.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGGAAAAGCAAAAGCCCTTTGCATTGTTTCGTACCACCGAGATCAAGCAGCAGTCAGGTGTCTCGGGTG
AAACCTCAGACCCTGGGAGGCGATTCCACTTTTCAAGAGTTTCAACAATGTACTGAAGATGATTTT
GAGTTTCCATTTGCAAAGACTAATCTCTCCAAAAATGGGAAAAACATTGATTCAGATCCTGCTTTACAA
AAAGTTAATTTCTTGCCCGTGCTTGAGCAGGTTGGTAATTCTGACTGTCACTATCAGGAAGGACTAAAA
GACTCTGATTTGGAGAATTGAGAGGATTGAGCAGAGTGTATTCAAACTGTATAAGGAGGCTGAAAAG
ATAAAAAATGGAAAGTAAAGTACAGAAGCTGAACTGAGACAGAAAAGAAAGTAAAGTTGCAAGAAAACAGA
AAGATAATTGAAGCACAGCGAAAAGCCATTGAGAACTGCAATTTGAAAATGAAAAGTAAAGTTTGAAA
TTAGAAGAAGGAATACAAGAAAAAAGATTTAATAAAAGAGAATAATGCCACAAGGCATTTATGTAAT
CTACTCAAAGAACTGTGCTAGATCTGCAGAAAAGACAAAGAAATATGAATATGAACGGGAAGAAAACC
AGGCAAGTTTATATGGATCTAAATAAACATTGAGAAAATGATAACAGCTTTTGAGGAACTTCGTGTG
CAAGCTGAGAATTCAGACTGAAAATGCATTTTAAAGTTAAAGGAAGATTATGAAAAAATCCAACACCTT
GAACAAGAATACAAGAAGGAAAATAAATGACAAGGAAAAGCAGGTATCACTACTATTGATCCAATCACT
GAGAAAAGAAAAATAAATGAAAGATTTAACATTTCTGCTAGAGGAATCCAGAGATAAAGTTAATCAATTA
GAGGAAAAGACAAAATTACAGAGTGAAAACCTAAAACAATCAATTGAGAAAACAGCATCATTTGACTAAA
GAACTAGAAGATATTAAGTGTCAATTAACAAGAAGTGTGAGTACTCAAAAGGCTTTAGAGGAAGATTTA
CAGATAGCAACAAAAACAATTTGTCAGCTAACTGAAGAAAAGAAAACCAATGGAAGAATCTAATAAA
GCTAGAGCTGCTCATTGTTGTGGTTACTGAATTTGAACTACTGTCTGCAGCTTGAAGAATTTATG
AGAACAGAACAGCAAAGATTGGAAAAAATGAAGATCAATTGAAAATACTTACCATTGGAGCTTCAAAG
AAATCAAGTGAGCTGGAAGAGATGACTAAGCTTACAAATAACAAGAAGTGAAGCTTGAAGAATTGAAA
AAAGTCTTGGGAGAAAAGGAAACACTTTTATATGAAAATAACAATTTGAGAAGATTGCTGAAGAATTA
AAAGGAACAGAACAGAATAAATGGTCTTCTCCAAGCCAGAGAGAAAAGTACATGATTTGAAAATA
CAGTTAACTGCCATTACCACAAGTGAACAGTATTATTCAAAAGAGGTTAAAGATCTAAAACTGAGCTT
GAAAACGAGAAGCTTAAGAATACTGAATTAACCTCACACTGCAACAAGCTTTCACTAGAAAACAAAGAG
CTCACACAGGAAACAAGTGATATGACCCTAGAACTCAAGAATCAGCAAGAAGATATTAATAAACAAA
AAGCAAGAAGAAAGGATGTTGAAAACAAATAGAAAATCTTCAAGAAACAGAAACCCAATTAAGAAATGAA
CTAGAATATGTGAGAGAAGAGCTAAAACAGAAAAGAGATGAAGTTAAATGTAATTTGGACAAGAGTGAA
GAAAATTTGTAACAATTTAAGGAAACAAGTTGAAAATAAAAAACAAGTATATTGAAGAATTCAGCAGGAG
AATAAGGCCTTGAAAAAAAGGTACAGCAGAAAAGCAAGCAACTGAATGTTTATGAGATAAAGGTCAAT
AAATTAGAGTTAGAATAAGAAAGTGCCAAACAGAAATTTGGAGAAATCACAGACACCTATCAGAAAGAA
ATTGAGGACAAAAGATATCAGAAGAAAATCTTTTGGAGAGGTTGAGAAAAGCAAAAGTAAAGCTGAT
GAAGCAGTAAAATTACAGAAAGAAATGATAAGCGATGTCAACATAAAATAGCTGAAATGGTAGCACTT
ATGGAAAACATAAGCACCAATATGATAAGATCATTGAAGAAAGAGACTCAGAATTAGGACTTTATAAG
AGCAAAGAACAAGAACAGTCATCACTGAGAGCATCTTTGGAGATTGAACTATCCAATCTCAAAGCTGAA
CTTTTGTCTGTTAAGAAGCAACTTGAAAATAGAAAAGAGAAGAGAAGGAAAAACTCAAAAAGAGAGGCAAAA
GAAAACACAGCTACTCTTAAAGAAAAAAGACAAGAAAACACAACATTTTTATTGGAACACCTGAA
ATTTATTGAAAATTGATTCTAAAGCAGTTCCTTCAAAAAGTATCTCGAAATTTACATCAGTTGAT
CATGGCATATCCAAGATAAAAAGAGACTATCTGTGGACATCTGCCAAAAATACTTTATCTACACCATTG
CCAAAGGCATATACAGTGAAGACACCAACAAAACAAAACCTACAGCAAAGAGAAAACCTTGAATATACCC
ATTGAAGAAAGTAAAAAAGAGAAAAATGGCCTTTGAAATTTGATTAATTCAGATAGTTCAGAAAAC
ACTGATCTTTGAGCATGGTTTTCAGAAGAAGAGACATTGAAAACACTGTATAGGAACAATAATCCACCA
GCTTCTCATCTTTGTGTCAAACACCAAAAAAGGCCCTTCATCTCTAACACCCCTGGATCTACACTG
AAGTTTGGAGCTATAAGAAAAATGCGGGAGGACCGTTGGGCTGTAAATGCTAAAAATGGATAGAAAAAA
AAACTAAAAGAAGCTGAAAAGTTATTTGTT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
  
```

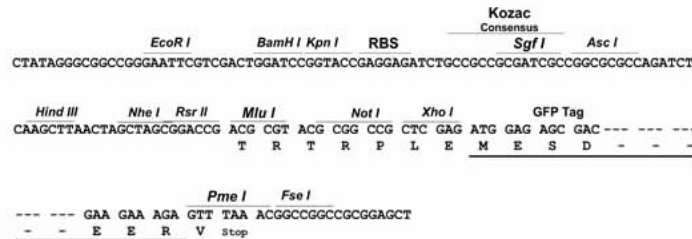
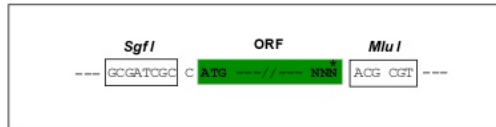
Protein Sequence: >Peptide sequence encoded by RG239842  
 Blue=ORF Red=Cloning site Green=Tag(s)

MEKQKPFALFVPPRSSSSQVSAVKPQTLGGDSTFFKSFNKCTEDDFEFPFAKTNLSKNGENIDSDPALQ  
 KVNFLPVLEQVGNSDCHYQEGLKDSLENSEGLSRVYSKLYKEAEKIKKWKVSTAEALRQKESKLQENR  
 KIIEAQRKAIQELQFGNEKVSLEKEEGIQENKDLIKENNATRHLNLLKETCARSAEKTKKYEREREET  
 RQVYMDLNNNIEKMITAFEELRVQAENSRLMHFKLKEDYEKIQHLEQEYKKEINDKEKQVSLLLIQIT  
 EKENMKDLTFLLEESRDKNVQLEEKTKLQSENKQSIKQHHLTKELEDIKVSLQRSVSTQKALEEDL  
 QIATKTI CQLTEEKETQMEESNKARAAHSFVVFTEFETTVCSLEELLRTEQQRLEKNEDQLKILTMELQK  
 KSSELEEMTKLTNNKEVELEELKKVLGEKETLLYENKQFEKIAEELKGTQEQLIGLLQAREKEVHDL  
 EIQLTAITTSEQYYSKEVKDLKTELENEKLNKTEL TSHCNKLSLENKELTQETSDMTLELKNQQEDINN  
 NKQKEERMLKQIENLQETETQLRNELEYVREELKQKRDEVKCKLDKSEENCNLRKQVENKNKYIEELQ  
 QENKALKKGTAESKQLNVYEIKVKNLELELESKQKFGIETDQYKEIEDKKISEENLLEEVEKAKVIAD  
 EAVKLQKEIDKRCQHKIAEMVALMEKHKHQYDKIEERDSELGLYKSKEQEQSSLRASLEIELSNLKA  
 ELLSVKQLEIEREEKEKLRKREKENTATLKEKDKKTQTFLETPETIYKWLDSKAVPSQTVSRNFTSVD  
 HGISKDRDYLTWSAKNTLSTPLPKAYTVKTPPKLQQRNENLPIEESKRRKMAFEFDINSDESSET  
 TDLLSMVSEETLKTLYRNNPPASHLCVKTTPKAPSSLTPPGSTLKFGAIRKMRDRWAVIAKMDRKK  
 KLKEAEKLFV  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSTYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:

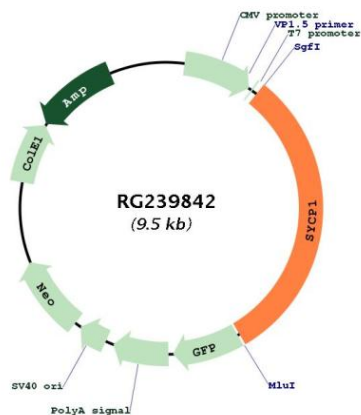


ACCN: NM\_001282541

ORF Size: 2928 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>RefSeq:</b>	<a href="#">NM_001282541.1</a> , <a href="#">NP_001269470.1</a>
<b>RefSeq Size:</b>	3532 bp
<b>RefSeq ORF:</b>	2931 bp
<b>Locus ID:</b>	6847
<b>UniProt ID:</b>	<a href="#">Q15431</a>
<b>Cytogenetics:</b>	1p13.2
<b>MW:</b>	114.2 kDa
<b>Gene Summary:</b>	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 RG239842