

## Product datasheet for **SC123542**

### SCP1 (SYCP1) (BC026162) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SCP1 (SYCP1) (BC026162) Human Untagged Clone
Tag:	Tag Free
Symbol:	SCP1
Synonyms:	CT8; HOM-TES-14; SCP-1; SCP1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for BC026162 edited  
AGCGGAGCCGTTGAACTGCCAGCCGCCGGGGCCACGCGCTCCGGGCCGCTCAGGCTGA  
GCGATTTCCCGCCTTTTCTGAGTTCTGAGGCGGGAGCCATTGGTTCTTTCTGTTGCCCT  
CATAGACCGTATGTAGCAGTTCGCGTGGGCACAGAACCACGGTTTCCCGCTAGTTCTTC  
AAAGATATTTACAACCGTAACAGAGAAAATGAAAAGCAAAGCCCTTTGCATTGTTCTGT  
ACCACCGAGATCAAGCAGCAGTCAGGTGTCTGCGGTGAAACCTCAGACCCTGGGAGGCGA  
TTCCACTTTCTCAAGAGTTTCAACAAATGACTGAAGATGATTTTGAAGTTTCCATTTGC  
AAAGACTAATCTCTCAAAAAATGGGAAAAACATTGATTCAGATCTGCTTTACAAAAAGT  
TAATTTCTTGCCCGTCTTGAGCAGGTTGGTAATTCTGACTGTCATATCAGGAAGGACT  
AAAAGACTCTGATTTGGAGAATTCAGAGGGATTGAGCAGAGTGTATTCAAACTGTATAA  
GGAGGCTGAAAAGATAAAAAATGGAAAGTAAGTACAGAAGCTGAACTGAGACAGAAAGA  
AAGTAAGTTGCAAGAAAACAGAAAGATAATTGAAGCACAGCGAAAAGCCATTCAGGAACT  
GCAATTTGGAAATGAAAAGTAAGTTTGAATTAAGAAGGAATACAAGAAAATAAAGA  
TTAATAAAAAGAGAATAATGCCACAAGGCATTTATGTAATCTACTCAAAGAAACCTGTGC  
TAGATCTGCAGAAAAGACAAAGAAATATGAATATGAACGGGAAGAAACCAGGCAAGTTTA  
TATGGATCTAAATAATAACATTGAGAAAATGATAACAGCTTTTGAGGAACTTCGTGTGCA  
AGCTGAGAATTCAGACTGGAAATGCATTTTAAGTTAAAGGAAGATTATGAAAAATCCA  
ACACCTTGAACAAGAATACAAGAAGGAAATAAATGACAAGGAAAAGCAGGTATCACTACT  
ATTGATCCAATCACTGAGAAAAGAAAATAAATGAAAGATTTAACATTTCTGCTAGAGGA  
ATCCAGAGATAAAGTTAATCAATTAGAGGAAAAGACAAAATTACAGAGTGAAAACCTTAA  
ACAATCAATTGAGAAACAGCATCTTTGACTAAAGAACTAGAAGATATTAAAGTGCATT  
ACAAAAGAGTGTGAGTACTCAAAAGGCTTTAGAGGAAGATTTACAGATAGCAACAAAAAC  
AATTTGTCAGCTAACTGAAGAAAAGAACTCAATGGAAGAATCTAATAAAGCTAGAGC  
TGCTCATTGTTTGTGGTACTGAATTTGAACTACTGTCTGCAGCTTGGAGAATTATT  
GAGAACAGAACAGCAAAGATTGGAAAAAATGAAGATCAATTGAAAATACTTACCATGGA  
GCTTCAAAAGAAATCAAGTGAGCTGGAAGAGATGACTAAGCTTACAAATAACAAAGAAGT  
AGAACTGAAGAATTGAAAAAGTCTTGGGAGAAAAGGAAACACTTTTATATGAAAAATA



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ACAATTTGAGAAGATTGCTGAAGAATTAAGGAACAGAACAAAGAACTAATTGGTCTTCT  
 CCAAGCCAGAGAGAAAGAAGTACATGATTTGGAATACAGTAACTGCCATTACCACAAG  
 TGAACAGTATTATTCAAAAGAGGTTAAAGATCTAAAACTGAGCTTGAAAACGAGAAGCT  
 TAAGAATACTGAATTAACCTCACACTGCAACAAGCTTTCACTAGAAAACAAGAGCTCAC  
 ACAGGAAACAAGTGATATGACCCTAGAACTCAAGAATCAGCAAGAAGATATTAATAATA  
 CAAAAAGCAAGAAGAAAGGATGTTGAAACAAATAGAAAATCTTCAAGAAACAGAAACCCA  
 ATTAAGAAATGAACTAGAATATGTGAGAGAAGAGCTAAAACAGAAAAGAGATGAAGTTAA  
 ATGTAAATTGGACAAGAGTGAAGAAAATTGTAACAATTTAAGGAAACAAGTTGAAAATAA  
 AAACAAGTATATTGAAGAACTTCAGCAGGAGAATAAGGCCTTGAAAAAAAAGGTACAGC  
 AGAAAGCAAGCAACTGAATGTTTATGAGATAAAGGTCAATAAATTAGAGTTAGAAGTAA  
 AAGTGCCAAACAGAAATTTGGAGAAATCACAGACACCTATCAGAAAGAAATGAGGACAA  
 AAAGATATCAGAAGAAAATCTTTTGAAGAGGTTGAGAAAGCAAAAGTAATAGCTGATGA  
 AGCAGTAAAATTACAGAAAGAAATGATAAGCGATGTCAACATAAAATAGCTGAAATGGT  
 AGCACTTATGAAAAACATAAGCACCAATATGATAAGATCATTGAAGAAAGAGACTCAGA  
 ATTAGGACTTTAAGAGCAAAGAACAAGAACAGTCATCACTGAGAGCATCTTTGGAGAT  
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 AGAAGAGAAGGAAAAACTCAAAAGAGAGGCAAAAGAAAACACAGCTACTCTTAAAGAAA  
 AAAAGACAAGAAAACACAAACATTTTTATTGGAACACCTGAAATTTATTGGAATTTGG  
 ATTCTAAAGCAGTTCTTTCACAACTGTATCTCGAAATTTACATCAGTTGATCATGGCA  
 TATCCAAGATAAAAGAGACTATCTGTGGACATCTGCCAAAAACTTTTCTACACCAT  
 TGCCAAAGGCATATACAGTGAAGACACCAACAAAACAAAACACTACAGCAAGAGAAAAC  
 TGAATATACCCATTGAAGAAAGTAAAAAAGAGAAAAATGGCCTTTGAATTTGATATTA  
 ATTCAGATAGTTGAGAACTACTGATCTTTTGGAGATGTTTTCAGAGAAGAGACATTTGA  
 AAACACTGTATAGGAACAATAATCCACCAGCTTCTCATCTTTGTGTCAAAACACCAAAAA  
 AGGCCCTTCATCTCTAACAACCCCTGGATCTACACTGAAGTTTGGAGCTATAAGAAAA  
 TGCGGGAGGACCGTTGGGCTGTAATTGCTAAAATGGATAGAAAAAAAACACTAAAAGAG  
 CTGAAAAGTTATTTGTTAATTTTCAGAGAATCAGTGTAGTTAAGGAGCCTAATAACGTGA  
 AACTTATAGTTAATTTTGTCTTATTTGCCAGAGCCAAATTTTATCTGGAAGTTGAGA  
 CTTAAAAAATACTTGCATGAATGATTTGTGTTCTTTATATTTTTAGCCTAAATGTTAAC  
 TACATATTGTCTGAAACCTGTCATTGTATTAGATAATTAGATGATTATATATTGTTGT  
 TACTTTTTCTGTATTGATAAACTGTTTTTACTAAGTTTTCAATTTGTAAGTTAGC  
 CTTTGAATGCTAGGAATGCATTATTGAGGGTCATTCTTTATTCTTACTATTAATAATATT  
 TTGGATGCAAAAAAAAAAAAAAAAA

**5' Read Nucleotide Sequence:**

>OriGene 5' read for BC026162 unedited  
 CCTATTTTGAATACGACTCACTATAGGGCGGCCGATAACTTCGTATAGCATACATTAT  
 ACGAAGTTATGGATCAGGCCAAATCGGCCGAGCTCGAATTCGTCGAGAGCGGAGCCGTTG  
 AACTGCCAGCCGCGGGGCCACGCGCTCCGGGCGGCTCAGGCTGAGCGATTTCCCGCC  
 TTTTCTGAGGTTCTGAGGCGGGAGCCATTGGTTCTTTCTGTTGCCCTCATAGACCGTATG  
 TAGCAGTTCGCGTGGGCACAGAACCACGTTTCCCGCTAGTTCTTCAAAGATATTTACA  
 ACCGTAACAGAGAAAAAGGAAAAGCAAAAGCCCTTGCATTGTTTCGTACCACCGAGATCA  
 AGCAGCAGTCAGGTGCTGCGGTGAAACCTCAGACCCTGGGAGGCGATTCCACTTTCTTC  
 AAGAGTTTCAACAAATGACTGAAGATGATTTTGAAGTTTCCATTTGCAAAGACTAATCTC  
 TCCAAAAATGGGGAAAACATTGATTAGATCCTGCTTTACAAAAGTTAATTTCTTGCC  
 GTGCTTGAGCAGGTTGGTAATTTGACTGTCATATCANGAAGGACTAANAGACTCTGAT  
 TTGGAGAATTCAGAGGGATTGAGCAGAGTATTCAAACTGTATAAGGAGGCTGAAAAG  
 ATAAAANAATGGAAAGTAAGTACAGAAGCTGAAACTGAGACAGAAGAAAGTAGGTTGCAA  
 GAAAACAGAAAGATTATTGGAGCACAGCGAAAAGCCATTCAGGAAGTGAATTTGAAAT  
 GANAAAAGTAGTTTGAATTTANGNAGAAAAGGAATACCAGAAAATTAAGATTTTATAAAG  
 GAGAATAATGCCCAAGGCATTTTATGATTCTACTCAAAGAAACCTGTGCTAGATCTGC  
 GGAAGAAAAAGAATTTGGAATTTGACCGGAAGAAACCAGCCGTTAATTTGTTCTAT  
 AAT

<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	BC026162
<b>Insert Size:</b>	3504 bp
<b>OTI Disclaimer:</b>	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).
<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>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC026162.1</a> , <a href="#">AAH26162.1</a>
<b>RefSeq Size:</b>	3504 bp
<b>Locus ID:</b>	6847
<b>Cytogenetics:</b>	1p13.2
<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]