

## Product datasheet for **SC308924**

### SCP2 (SYCP2) (NM\_014258) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SCP2 (SYCP2) (NM_014258) Human Untagged Clone
Tag:	Tag Free
Symbol:	SYCP2
Synonyms:	SCP-2; SCP2; SPGF1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC308924 representing NM_014258. Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCCAATAAGACCAGATCTCCAGCAGTTGGAAAAATGCATTGATGATGCTTTAAGAAAAATGATTTT
AAACCTTTGAAAACACTTTTGCAAATTGATTTTGTGAAGATGTGAAGATTAATGCAGCAAAACAGTTT
TTCCACAAGGTGGACAACCTTATATGCAGGGAACCTAATAAAGAGGATATCCACAATGTTTCAGCCATT
TTGGTTTCTGTTGGAAGATGTGGCAAAAATATCAGTGTATTGGGGCAAGCTGGACTTCTAACGATGATA
AAACAAGGACTAATACAAAAGATGGTTGCCTGGTTTAAAAATCCAAGGACATTATTCAGAGTCAAGGA
AATTCAAAGATGAAGCTGTTCTAAATATGATAGAAGACTTAGTTGATCTTCTGCTGGTCATACATGAT
GTCAGTGATGAAGGTAAAAACAAGTAGTGGAAAGTTTCGTACCTCGCATTGTTCCCTGGTTATTGAC
TCAAGAGTGAATATTTGTATTTCAGCAAGAGATTATAAAAAAATGAATGCTATGCTTGACAAAATGCCT
CAAGATGCCCGGAAAATACTCTCTAACCAAGAAATGTTAATTCTCATGAGTAGTATGGGAGAAAGGATT
TTAGATGCTGGAGATTATGACTTACAGGTAGGCATTGTAGAAGCTTTGTGTAGAATGACCACAGAAAAA
CAAAGACAAGAACTGGCACATCAGTGGTTTTCAATGGATTTTATTGCTAAGGCATTTAAAAGAAATTAAG
GACTCTGAATTTGAAACAGATTGCAGGATTTTCTCAACCTTGTAATGGCATGCTTGGAGACAAAAAGA
AGGGTCTTTACATTTCTTGTATCAGCATTCTTGATAAATATGAGCTGCAAAATACCATCAGATGAA
AACTTGAGGAATTTGGATTGATTTAATCTTGGGAGTCAGACTCTCATTCTACATTGCTGGAGAT
AATGATGATCATCAATGGGAAGCAGTTACTGTGCCAGAGGAAAAAGTACAAATATACAGCATTGAAGTG
AGAGAATCAAAGAAGCTACTGACAATAATTCTGAAAAATACAGTAAAAATTAGCAAAAGAGAAGGGAAA
GAATTGCTTTTGTATTTTACGCATCACTAGAAAATCACTAATGTAACCTCAAAAAATTTTTGGTGCAACT
AAACATAGGGAATCTATCAGAAAACAAGGTATTTTCAGTTGCCAAAACGTCGCTGCATATACTTTTTGAC
GCAAGTGGATCACAGATTCTAGTGCCAGAAAGTCAAAATCTCACCAGTCGGAGAAGAGCTCGTTAGTTTA
AAGGAAAAATCAAAGTCCCCAAAGGAATTTGCTAAACCTTCAAAATATATCAAAAACAGTGACAAAGGG
AATAGAAAATAATAGTCAGCTTGAGAAAACACTCTAGCAAAAAGAAAAATGTCTGAAGCATCAATGATT
GTTTCTGGTGCAGATAGATACACTATGAGAAGTCCAGTGCTTTTCAGCAACACATCAATACCACCACGA
```



View online »

AGAAGAAGAATTAACCACCACTGCAAATGACGAGCTCTGCAGAGAAACCTAGTGTTCCTCAAACATCA  
 GAAATAGAGTGGATAATGCTGCATCACTGAAATCTAGATCATCAGAAGGAGACATAGAAGAGATAAT  
 ATAGACAAACATATCAAACTGCTAAGTGTGTAGAAAACAGAAAAAAGAATGTTGAATCCCAAAC  
 CAAAATTTAGTGAACCCAGGATGTTATACCAGATTCACAGGCAGCGGAAAAAGAGATCATACTATA  
 TTACCTGGTGTTTAGACAACATCTGTGGAATAAAATACACAGCAAATGGGCATGTTGGACACCTGTA  
 ACAACATTGAACTATGTAATAACCAAGAGCAAGTACTTCGTCAGGAGACACATTGAATCAAGATATT  
 GTTATAAATAAAAACTTACTAAACAAAAATCATCCTCTTCAATATCTGATCATAAATCTGAAGGAACA  
 GGAAAAGTGAAATATAAGAAAGAACAAACCGACCATATCAAATAGATAAAGCAGAAAGTAGAAGTTTGC  
 AAGAAACACAATCAGCAACAAAAATCATCTAAATATTCAGGGCAGAAAAATACTGAAATGCCAAGCAG  
 AGTGATTGGCCTGTTGAATCTGAAACTACTTTTAAATCGTTCCTAAATAAGACAATTGAAGAATCG  
 CTGATATATAGGAAGAAATACATATTGTCAAAGATGTGAATACTGCTACTTGGGATAAAAAATCCATCT  
 GCTAGCAAAAAATGTGCAAGTCTAGAAAAAGCAGAGAAAGAAATGACTTCTGAGCTTAATCCTGGGAT  
 TCGAAACAAAAAAAATGAGAGAAAAGTCAAAGGAAAGAAATTTACCAATGTAGCAGAATCCTTGATA  
 AGCCAAATCAATAAAGATACAAAACAAAAGATGACATCAAGTCTACAAGAAAAATTAAGGAGTCTTTG  
 ATTAACAGTGGTTTTTCAAACAAACCTGTTGTACAACCTCAGTAAGGAAAAAGTTCAGAAAAAAGCTAC  
 AGAAAACCTGAAGACTACCTTTGTTAATGTTACTTCTGAATGCCAGTGAATGATGTTTACAATTTAAT  
 TTGAATGGAGCTGATGACCCATCATAAACTTGAATCCAAGAGTTTCAAGCTACAGCTAAAGAAGCT  
 TGTGCGGATAGGTCAATTAGATTGGTAGGTCCAAGGAATCATGATGAACTTAAATCTTCTGTCAAAAACA  
 AAAGATAAAAAAATTATAACAAATCATCAAAGAAAAATCTGTTTAGTGATACTGAAACAGAGTACAGA  
 TGTGATGACAGCAAGACTGATATTAGCTGGCTAAGAGAACCGAAATCAAACCACAGCTAATAGACTAT  
 AGCAGAAATAAAATGTGAAGAATCATAAAAGTGGAAAATCAAGATCATCCTTGGAAAAGGGACAGCCA  
 AGCTCTAAAATGACACCCAGTAAAAATATCACAAAAAAGATGGACAAGACAATTCGGGAAGGAAGAATC  
 AGACTCCACGAAAAGCAACCAAAAAAATAAACTATAAAGATCTCTCAAATTCAGAATCAGAGTGT  
 GAACAAGAATTTTACATTCATTTAAAGAGAACATACCAGTAAAGGAGGAGAATATCCATTCCAGAATG  
 AAAACGGTAAAGCTACCAAGAAACAACAGAAAGTCTTCTGTGCTGAAACAGAAAAGGAACTATCAAAA  
 CAATGGAAAACTCATCTCTACTAAAAGATGCTATACGAGATAATTGCCTTGACTTATCTCCAGATCT  
 TTATCTGGCAGTCCATCTATAGAAGTAAACGAGATGTATAGAGAAAAAACAGAAAAGGATTTTACT  
 CAGGATTATGACTGCATAACAAATCTATATCACCTTATCCAAAACTTCATCACTTGAATCCTTAAAT  
 AGTAACAGTGGAGTTGGAGGTACAATAAAGTCAACCAAAAAACAATGAGAAAACTCCTGTGTGCAAGT  
 GAAAGTTGTTACCAATCCACGACCACTGTTTTTGGCCAGACATACTCCAATAAGAGTAATACTATT  
 GTAATAGAAAAAATAAAGTTCTGTGACTTACACAAGAAACAAAAACAGTAACAGCTATTCAGAT  
 GTAAGCAGTTATAGTTCAGAAGAACGGTTTATGGAAATGAATCTCCACATATCAATGAAAATTATATA  
 CAAAGCAAAGAGAGGAAAGTCATTTAGCATCTTATTATCCAAGTCTAGTGAAGGAAGAGAGAAAACG  
 TGGTTTGACATGCCCTGTGATGCTACTCATGTATCAGGCCACCCAACATCTTAGTCGCAAAAAGATA  
 TATATAGAAGATAATCTAAGTAATTCCAATGAAGTAGAAATGGAAGAGAAAAGGAGAAAGGAGAGCAAC  
 TTGCTTCCAAAAAATGTGTAATAATGAAGATGCAGATCATATCCAAAAATGTCTGAAAGTGA  
 TCTTATTATCAACAAATGACTTTTCTATTCTTGGGAGACCTGGCAAAATGAATTTGCAGGGATAGAG  
 ATGACTTATGAGACTTACGAGAGGCTCAATTCAGAAATTAAGAGAAGGAATAATCCGACATAAAATG  
 TTGAGTTATTTTACTACGCAGTCTTGGAAAACAGCTCAGCAACATCTGAGAACAATGAATCATCAAAGT  
 CAGGACTCTAGGATTAATAAACTTGATAAATCCAATTCATTATCATAGAGGAGCTGGAGAATTTGAA  
 AAAGATTCACAGTCTTTAAAGATTTGGAAAAGGAATTTGTGACTTTTGGGAAAAGATATTTGAGAAG  
 TTCAGTGCATATCAAAAAAGCGAACACAGAGGCTTCACTTTTGGAACTTCATTGGCTAAAAGTGTCT  
 TTCTGTAATACTGATAGTGAAGAACTGTTTTTACATCCGAGATGTGTTTGTGAAAGAAGATATGAAA  
 GTGCTGCAAGACAGGCTTCTAAGGACATGCTAGAAGAGGAGCTTCTAATGTACGCAGAGAACTGATG  
 TCAGTATTCATGTCTCATGAAAGAAATGCTAATGTGTA  
 ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT  
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC

Restriction Sites: SgfI-MluI  
 Plasmid Map:   
 ACCN: NM\_014258

<b>Insert Size:</b>	4593 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>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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="#">NM_014258.3</a>
<b>RefSeq Size:</b>	5595 bp
<b>RefSeq ORF:</b>	4593 bp
<b>Locus ID:</b>	10388
<b>UniProt ID:</b>	<a href="#">Q9BX26</a>
<b>Cytogenetics:</b>	20q13.33
<b>MW:</b>	175.6 kDa
<b>Gene Summary:</b>	The synaptonemal complex is a proteinaceous structure that links homologous chromosomes during the prophase of meiosis. The protein encoded by this gene is a major component of the synaptonemal complex and may bind DNA at scaffold attachment regions. The encoded protein requires synaptonemal complex protein 3, but not 1, for inclusion in the synaptonemal complex. [provided by RefSeq, Jul 2008]