

## Product datasheet for MC222995

### Sycp1 (NM\_011516) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sycp1 (NM_011516) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sycp1
Synonyms:	SCP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC222995 representing NM_011516 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGAAGCAAAGCCCTTCACACTGTTCTGCCCGGAGGCTGAGCAGCAGTCAAGTGTCCGCCGTGA  
AACCGCAGACGGCGGGAGGAGACTCCAACACTTCAAGACTGCCAACAAATGTACAGAAGGTGATTTTGG  
TGTTCCATTTACAATGTCCAGTCGGGAAAACATTGATAAAGATCTGCTTTTCAAAACTTAGTATTTTGG  
CCCATGCTCGAACAGGTTGCTAATCTGGCAGTTGTCACATCAGGAAGGAGTAAATGACTCTGATTTTGG  
AGAATTCAGAGCCAATGAGCAGACTGTATTCAAAGCTGTATAAAGAGGCTGAAAAGATAAAAAGTGAA  
AGTGAGCATAGAATCTGAACTGAAGCAGAAAGAAAATAAGTTGCAAGAAAACAGAAAAGATAATTGAAGCC  
CAGCGAAAAGCCATTCAGGAACCTCAGTTTGAAAATGAAAAGTAAAGCTTGAAATTAAGAAGAAGAAATTC  
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CTAAATAGCAACATTGAGAAAATGATACTAGCTTTTGAGGAACCTCGTGTGCAAGCTGAGAATGCCAGAC  
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CATTATTTAAACAGGTTGAAGAAATGAAAACCTGAGCTTGAAAAAGAGAACTTAAGAATACTGAATTAA  
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 ACTCAAGAAACATCAAGAAGATATCATTAAATTGCAAAAAGCAAGAAGAAAGGCTGTTGAAACAAATAGAA  
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 TTTTACCTACAACAGTTACAAAGGAATATACAGTGAAGACACCAACTAAAAGAGTATATATCAAAGAGA  
 AAACAAGTATATACCTACTGGAGGAAGTAATAAAAAGAGAAAAACAGCCTTTGAATTTGATGTTAATTC  
 GATAGTTCAGAAACTGCTGATCTCTTGAGCCTGGTTTCAGAGGAAGATGTATCAAACAGACTTTATGATA  
 ATAATCCACCAGATTCTCATCTATTAGTTAAAACCCCAACAGACTCCTTTATCGCTATCAACTCCTGC  
 ATCTTTTATGAAGTTTGGAAAGTCTGAAAAAATGAGAGAGGACCGTTGGACAACGATTGCTAAAATTGAT  
 AGGAAAAGAAGACTAAAGGAAGCAGAAAAGTTATTTTCTTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_011516
- Insert Size:** 2982 bp
- OTI Disclaimer:** 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).
- 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\\_011516.2](#), [NP\\_035646.2](#)
- RefSeq Size:** 3437 bp
- RefSeq ORF:** 2982 bp

**Locus ID:** 20957

**UniProt ID:** [Q62209](#)

**Cytogenetics:** 3 F2.2

**Gene Summary:** Major component of the transverse filaments of synaptonemal complexes, formed between homologous chromosomes during meiotic prophase (PubMed:16717126). Required for normal assembly of the central element of the synaptonemal complexes (PubMed:15937223). Required for normal centromere pairing during meiosis (PubMed:22761579). Required for normal meiotic chromosome synapsis during oocyte and spermatocyte development and for normal male and female fertility (PubMed:15937223).[UniProtKB/Swiss-Prot Function]