

Product datasheet for **RR202068**

Sycp1 (NM_012810) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sycp1 (NM_012810) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sycp1
Synonyms:	SCP1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide
Sequence:

>RR202068 representing NM_012810
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGTCCAGTCTATCAAAAAATCGGAAAAACATTGATACAGATCCCCTTTTCAAAAACTTAGCATTGTC
CCATGCTTGAACAGGTTGCAAATCTGGCAGTTGCCACTATCAGGAAGGAGTAAATGACTCTGATTTTGA
GAATTCAGAGCCAATGAGCAGACTGTACTCAAAGCTGTATAAAGAGGCTGAAAAGATAAAAAAGTGAAAA
GTGAGCATAGAGTCTGAACTGAAGCAGAAAAGAAAATAAGTTGCAAGAAAACAGAAAAGATAATTGAAGCCC
AGCGAAAAGCCATTGAGAACTTCAGTTTAAAAATGAAAAAGTAAAGCTTGAATTAAGAAGAAAATTCA
AGAAAATAAGATTTAATCAAGGAGAATAATGCTACAAGACATTTGGTGAATTTACTCAAGGAAACCTGT
GCTAGATCTGCAGAAAAGACAAGTAAATATGAATATGAGCGAGAAGAAACAGACAAGTTTATGTGGATC
TAAATAATAACATTGAGAAAATGATACTAGCTTTTGGGAACTTCGTGTGCAAGCTGAGAATGCCAGGCT
GGAAATGCACTTTAAGTTAAAGGAAGATCATGAAAAATCCAACATCTTGAAGAAGAAATATCAGAAGGAA
GTAACAACAAGGAAAACAGGTATCACTACTATTGATCCAAAGTACTGAGAAAAGAAAATAAATGAAAAG
ATTTAACATTTCTGCTAGAGGAATCCAGAGATAAAGCTAATCAATTAGAGGAAAAACAAAATTACAAGA
TGAAAACCTTAAAAGAAATTAATGAAAAGAAGGATCATTTAACATCAGAAGTTGAAGATATTAATATGTCC
ATGCAAGAAGTATGAGCACTCAGAAGACTTTAGAGGAAGATTTACAGATAGCAACAAAAACGATTTATC
AGCTCACTGAAGAAAAGAAGCTCAAATGGAAGAACTCAACAAAGCTAAAACACTCACTCACTTGTGGT
GACTGAACTTAAAGCCACTACATGTACCTTGGAGGAATTACTGAGAACAGAACAGCAAAGATTGAAAAAT
AATGAGGATCAACTGAACTGATTACTATGGAGCTCCAGAAGAAATCAAGTGAAGTGAAGAGATGACTA
AATTTAAAAATAACAAAGAAAGTGAAGTGAAGAATTAACAACTATTGGCAGAAGACCAAAAACTTTT
AGATGAAAAGAAAACAAGTTGAGAAGCTTGCTGAAGAATTAACAAGGAAAAGAAACAAGAACTAACTTCCTT
TTGCAAAACAGAGAGAAAAGAAATCCATGATTTGGAAGTACAAGTAACTGTCACTAAAAACAAGTGAAGAAC
ATTATTTAAAACAGGTTGAAGAAATGAAAACCTGAGCTTAAAAAGAGAAAACCTTAAGAATATTGAATTAAC
TGCAAACTCTGACATGCTTTTGGCTTGAAGCAAAAAATTTGGTACAAGAAGCAAGTATATGGTCTAGAA
CTCAAGAAACATCAAGAAGATATCATTAAATGCAAAAAGCAAGAAGAAAGGATGTTGAAACAAATAGAAA
CTTTGGAAGAAAAGAAATGAATTAAGGGATGAACTGGAATCAGTAAGAAAAGAGTTTATACAGCAAGG
AGATGAAGTTAAATGTAATTTGGACAAGAGTGAAGAAAATGCTCGAAGCATTGAATATGAAGTTTTAAAG
AAAGAAAAGCAGATGAAGATATTAGAAAATAAGTGAATAAATTTAAAGAAAACAAATCGAAAATAAAAGCA
AGAATATTGAAGAGCTTACCAGGAGAATAAAGCCTTGAAAAAAAAGTTTCAAGCAGAAAACAAACAACCT
GAATGCATATGAGATAAAGGTCAATAAATTAGAGTTGGAATTAGCAAGTACCAAGCAAAAATTTGAAGAA
ATGATTAACAACCTACCAGAAAAGAAATGAGATAAAAAAGATTTTCAAGAAAAGCTTTTGGGAGAGGTTG
AGAAAAGCCAAAGCAACAGTTGATGAAGCCGTAAGTTACAGAAAAGAAATTTGATTTACGATGCCAACATAA
AATAGCTGAGATGGTAGCACTTATGAAAAACATAAGCACCAATATGATAAGATTGTTGAAGAAAGAGAC
TCAGAATTAGGACTTTATAAAAAACAGAGAACAGGAACAGTCTTCAGCAAAGTTGCTTTGGAGACTGAAT
TATCTAATATCAGAAACGAACTTGTATCCCTTAAGAAGCAACTTGAAGTAAAAAGAAAGAAAAGAGAA
ATTAATAAATGGAACAAGAAAACACAGCTATTCTCACAGATAAAAAAGACAAGAAAATACAGGCATCTTTG
CTGGAATCACCTGAAGCCACTAGTTGAAATTTGATTCTAAAAACAACCTCCTCACAAAATATATCTCGGC
TTTCTCATCAATGGATAGTGGCAAAATCCAAGATAACAGAGATAGTCTGCGGGCATCTGCCAAAAGCAT
TTTATCTACAACAGTTACAAAAGGAATATACAGTGAAGACACCAACTAAAAAGAGCATATATCAAAGAGAA
AACAAAGTATTTACCTACTGGAGGAAGTAATAAAAAAGAGAAAAACTGTCTTTGAATTTGATGTTAATTCAG
ATAGTTCAAGAACTACTGATCTTTTGGCTTGGTTTTCAGAGGAAGATATATCAAACAGGATTTATAATAA
TAATACACCAGATTCTCATCTATTAGTCAAACTCCCAACAGACTCCTTTATCTTTATCAACTCCTGCA
TCTTTTACGAAGTTTGAAGTCTGAAAAAATGAGAGAAGACCGTTGGGCAACGATTGCTAAAATGATA
GGAAAAGAAAGACTAAAGGAAGCAGAAAAGTTATTTACT

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR202068 representing NM_012810
 Red=Cloning site Green=Tags(s)

MSSL SKNRENIDTDPAFQKL SILPMEQVANS GSCHYQEGVND SDFENSEPMSRLYSKLYKEAEIKKWK
 VSIESELKQKENKLQENRKII EAQRKAIQELQFENEKVSLKLEEEIQENKDLIKENNATRHWCNLLKETC
 ARSAEKTSKYEYEREETRQVYVDLNNNIEKMILAFEELRVQAENARLEMHFKLKEDHEKIQHLEEEYQKE
 VNNKENQVSLLLIQSTEKENMKDLTFLL EESRDKANQLEEKTKLQDENL KELNEKKDHLTSELEDIKMS
 MQRSMSTQKTLEEDLQIATKTIYQLTEEKEAQMEELNKAKTTHSLVVELKATTCTLEELLRTEQQRLN
 NEDQLKLIITMELQKSSLEEMTKFKNNKEVELEELKTI LAEDQKLLDEKKQVEKLAEELQGKEQELTFL
 LQTREKEIHDLEVQVTVTKTSEEHYLKQVEEMKTELEKEKLNIELTANS DMLLENKLVQEASDMVLE
 LKKHQEDIINCKKQEERMLKQIETLEEKEMNLRDELESVRKEFIQQGDEVKCKLDKSEENARSIEYEVK
 KEQMKILENKCNNLKKQIENKSKNIEELHQENKALKKSSAENQLNAYEIKVNLKLEL ELASTKQKFEE
 MINNYQKEIEIKKISEEKLLEGEVAKATVDEAVKLQKEIDLRCQH KIAEMVALMEKHKHQYDKIVEERD
 SELGLYKNREQEQSSAKVALETELSNIRNELVSLKKQLEVEKEEKEKLKMEQENTAILTDKKDKIQASL
 LESPEATSWKFDKSTTPSQNISRLSSSMDSGKSKDNDRSLRASAKSILSTTVTKYTVKTPTKKSIYQRE
 NKYLPTGGSNKKRKTVFEDVNSDSSETDLLSLVSEEDISNRIYNNNTPD SHLLVKTPKQTPLSLSTPA
 SFTKFGSLKMRDRWATIAKIDRKRRLKEAEKLF T

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

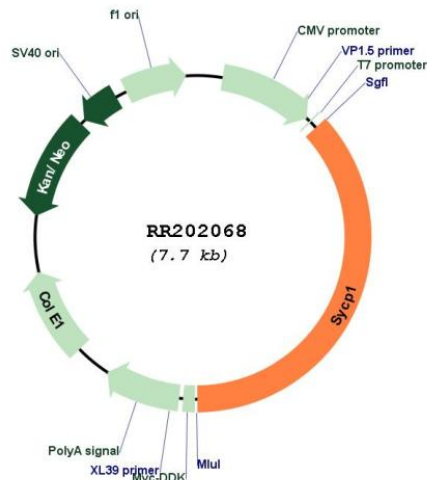
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_012810

ORF Size: 2838 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_012810.1](#), [NP_036942.1](#)

RefSeq Size: 3561 bp

RefSeq ORF: 2841 bp

Locus ID: 25276

UniProt ID: [Q03410](#)

Cytogenetics: 2q34

MW: 111 kDa

Gene Summary: component of the transverse filaments of synaptonemal complexes (SCs) that are formed between homologous chromosomes during meiotic prophase; may be involved in chromosome pairing and recombination [RGD, Feb 2006]