

## Product datasheet for **RG216783**

### SCP2 (SYCP2) (NM\_014258) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | SCP2 (SYCP2) (NM_014258) Human Tagged ORF Clone                             |
| Tag:                      | TurboGFP  |
| Symbol:                   | SYCP2   |
| Synonyms:                 | SCP-2; SCP2; SPGF1  |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)   |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| ORF Nucleotide Sequence:  | >RG216783 representing NM_014258<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCAATAAGACCAGATCTCCAGCAGTTGGAAAAATGCATTGATGATGCTTTAAGAAAAATGATTTCA  
AACCTTTGAAAACACTTTTGCAAAATGATATTTGTGAAGATGTGAAGATTAATGCAGCAAAACAGTTTTT  
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TGAAAGTGTGCAAGACAGGCTTCTTAAGGACATGCTAGAAGAGGAGCTTCTTAATGTACGCAGAGAAT  
GATGTCAGTATTCATGTCTCATGAAAGAATGCTAATGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG216783 representing NM\_014258  
 Red=Cloning site Green=Tags(s)

MPIRPDLQQLEKCIDALRKNDFKPLKTLQLIDICEDVKIKCSKQFFHKVDNLICRELNKEDIHNVSAI  
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 RASTSSGDTLNQDIVINKKLTQKSSSSISDHNSEGTGKVKYKKEQTDHIKIDKAEVEVCKKHNNQONHP  
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 EKELTSELNSWDSKQKMKREKSKGEFTNVAESLISQINKRYTKDDIKSTRKLESLINSGFSNKPVVQ  
 LSKEKVQKSYRKLKTTFNVTSECPVNDVYFNFLNGADDP I I K L G I Q E F Q A T A K E A C A D R S I R L V G P R N  
 HDELKSSVKTDKKIITNHQKKNLFSDTETEYRCDSDKTDI SWLREP KSKPQLIDYSRNKNVKNHKS GKS  
 RSSLEKQPPSSKMTPSKNITKMDKTIPEGRIRLPRKATKTKKNYKDLNSSESECEQEFSHSFKENIPVK  
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 GREKTWFDMPCDATHVSGPTQHL SRKRIYIEDNLSNSNEVEMEEKGERRANLLPKKCKIEDADHIIHKM  
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 HQSQDSRIKKLDFQFIIEELENFEKDSQSLKDLKEFEVDFWEKIFQKF SAYQKSEQRLHLLKTS LAK  
 SVFCNTDSEETVFTSEMCLMKEDMKVLQDRLLKDMLEEELLNVRRELM SVFMSHERNANV

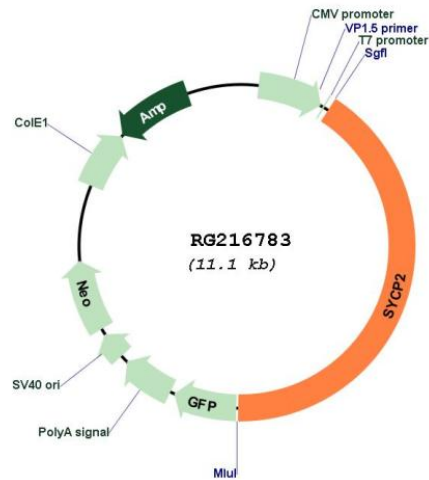
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



**Plasmid Map:**


**ACCN:** NM\_014258

**ORF Size:** 4590 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\\_014258.4](#)

**RefSeq Size:** 5497 bp

**RefSeq ORF:** 4593 bp

**Locus ID:** 10388

**UniProt ID:** [Q9BX26](#)

**Cytogenetics:** 20q13.33

**Gene Summary:** 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]