

Product datasheet for **SC327296**

SGOL2 (SGO2) (NM_001160046) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | SGOL2 (SGO2) (NM_001160046) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | SGOL2 |
| Synonyms: | SGOL2; TRIPIN |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >NCBI ORF sequence for NM_001160046, the custom clone sequence may differ by one or more nucleotides |

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ATGGAGTGCCCGAGTGGAACTGGCTCACTTTTTACCTCAGGAATTAAGAGACATTTG
AAAGACAAAAGAATTTCAAAGACTACTAAGTTGAATGTTTCTCTTCTTCAAAAATAAAA
ACAAAAATACTAAATAATTCTTCTATTTTCAAATATCTTTAAAGCACACAACAGGGCA
TTAGCTCAGGCTCTAGTAGAGAAAAAGAGAATTCTCGAAGAATTACAACGAAAAGATG
CTATTGCAAAAAGAAGTAGAGAACTGAATTTTGAGAACACATTTCTTCGCCTAAAGCTA
AATAACTTGAATAAGAAGCTTATAGACATAGAAGCTCTCATGAACAATAACTTGAACT
GCAATTGAAATGAGCAGTCTTTCTGAGTCCATCAGAGTTCCTTTCTACTGTCAGCTAGC
AAGAAGAAACGAATTAGTAAACAGTGAAGTTGATGCGTCTTCCATTTGCAAGGGTTCCA
TTAACTTCAAATGATGATGAAGATGAAGATAAAGAGAAAATGCAGTGTGACAACAATATT
AAATCAAAGACATTACCTGATATTCCCTCTTCAGGATCAACAACACAACCTTTATCAACT
CAGGATAAATTCGGAAGTGTATTCTTAAAGAAAATAATCAAAATGTATATGGTTTATAGT
GATTCAGAACATATTTCTTCTATAGTTGATGTACCTCCCAGAGAAAAGCCATTTCCACTCA
GACCAAAGTTCTAAGACTTCTCTAATGAGTGAGATGAGAAAACGCCAGTCTATTGGCCGC
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TCAGATGTCGATATTGGGAAAAGATTGAAAACAGGACAGAAAGATCTGATGTCCTGGAT
GGCAAAAGGGTGCAGAAGATCCCGTTTTATTTTCAATAATGAACAGCTGGCTCAGATG
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CAAGGTGACAGAGAAAATGACTGTGTAATAAAAAGGAGAAAAGAATAACAAATGAGCAA

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GAGGAAACATACTCTTTATCCCAAAGTTCAGGTAATTTACCAGGAGAGTAAATTTGAT
 AAGGGTCAGAATCCCTAATTGTAATAAAAGTAAAGCTTCTAGACAGACATTTGTGATT
 CACAAATTAGAAAAAGATAACTTACTCCCAAACAAAAGGATAAAGTAACCATTTATGAA
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 GATTCAAAATAGGTAAGAAGCCTAGACTAAATGTATGTCAAAGTCAGAAATAATTCCT
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 CTTGATTTTAAAGTAAATAAATCTAAACAAAACTTGAATGCCAAGACATTATCAATAAA
 CACTATATGGAAGTCAACAGTAATGAAAAGGAAAGTTGTGATCAAATTTAGATTCTAC
 AAAGTAGTTAAAAACGTAAGAAAGAATCATCATGCAAGGCAAAGAACATTTTGACAAAA
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 TCTGATTTAAACATATTACTAGTGAAGCAGATTCTGATCCAGGAAACCCAGTTGAACTA
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 GAGATACATTCACCTAACATACAAGATTCTTCTTTGACAGTGTTCTGTAAGGTTTAGTA
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 TCCCCAGCCTTTCAAGTAAGTGATGATGAGCATGAGAAGATGAACAAGATGAAATTTAAA
 GTCAACCGGAGAACCCAAAAATCAGGAATAGGTGATAGACCATTACAGGACTTGTCAAAT
 ACCAGTTTTGTTTCAAATAACACTGCTGAATCTGAAAAAAGTCAAGAAGATCTATCTTCA
 GAACGGACAAGCAGAAGAAGAAGGTGTACTCCTTTCTATTTTAAAGAGCCAAGCCTCAGA
 GAA

- Restriction Sites:** Please inquire
- ACCN:** NM_001160046
- 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).
- OTI Annotation:** 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.

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| 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: | <ol style="list-style-type: none">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: | <u>NM_001160046.1, NP_001153518.1</u> |
| RefSeq Size: | 4029 bp |
| RefSeq ORF: | 3786 bp |
| Locus ID: | 151246 |
| UniProt ID: | <u>Q562F6</u> |
| Cytogenetics: | 2q33.1 |
| Gene Summary: | <p>Cooperates with PPP2CA to protect centromeric cohesin from separase-mediated cleavage in oocytes specifically during meiosis I. Has a crucial role in protecting REC8 at centromeres from cleavage by separase. During meiosis, protects centromeric cohesion complexes until metaphase II/anaphase II transition, preventing premature release of meiosis-specific REC8 cohesin complexes from anaphase I centromeres. Is thus essential for an accurate gametogenesis. May act by targeting PPP2CA to centromeres, thus leading to cohesin dephosphorylation (By similarity). Essential for recruiting KIF2C to the inner centromere and for correcting defective kinetochore attachments. Involved in centromeric enrichment of AUKRB in prometaphase.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) differs in the 3' coding region and 3' UTR, compared to variant 1. The encoded isoform (3) has a distinct C-terminus and is shorter than isoform 1.</p> |