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Product datasheet for SC327295

SGOL2 (SGO2) (NM_001160033) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SGOL2 (SGO2) (NM_001160033) Human Untagged Clone
Tag:	Tag Free
Symbol:	SGOL2
Synonyms:	SGOL2; TRIPIN
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001160033, the custom clone sequence may differ by one or more nucleotides

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ATGGAGTGCCCAGTGATGGAAACTGGCTCACTTTTTACCTCAGGAATTAAGAGACATTTG
AAAGACAAAAGAATTTCAAAGACTACTAAGTTGAATGTTTCTCTTGCTTCAAAAATAAAA
ACAAAAATACTAAATAATTCTTCTATTTTCAAAATATCTTTAAAGCACAACAACAGGGCA
TTAGCTCAGGCTCTTAGTAGAGAAAAAGAGAATTCTCGAAGAATTACAACTGAAAAGATG
CTATTGCAAAAAGAAGTAGAGAAACTGAATTTTGAGAACACATTTCTTCGCCTAAAGCTA
AATAACTTGAATAAGAAGCTTATAGACATAGAAGCTCTCATGAACAATAACTTGATAACT
GCAATTGAAATGAGCAGTCTTTCTGAGTTCCATCAGAGTTCCTTTCTACTGTCAGCTAGC
AAGAAGAAACGAATTAGTAAACAGTGCAAGTTGATGCGTCTTCCATTTGCAAGGGTTCCA
TTAACTTCAAATGATGATGAAGATGAAGATAAAGAGAAAATGCAGTGTGACAACAATATT
AAATCAAAGACATTACCTGATATTCCCTCTTCAGGATCAACAACACAACCTTTATCAACT
CAGGATAATTCGGAAGTGTTATTTCTTAAAGAAAATAATCAAAATGTATATGGTTTAGAT
GATTCAGAACATATTTCTTCTATAGTTGATGTACCTCCCAGAGAAAGCCATTCCCACTCA
GACCAAAGTTCTAAGACTTCTCTAATGAGTGAGATGAGAAACGCCCAGTCTATTGGCCGC
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GAATCAAATAATCTTTCTGCAGACACTCCCTGTGCAACAGTTTTAGATAAACAACACATT
TCAAGTCCAGAATTAAATTGCAATAATGAGATAAATGGTCATACTAATGAAACAAATACT
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TATGATGCTGACATGGATTTAACTGCTAGTGAAGTCAGCAAAATTGTCACAGTCTCAACA
GGCATTAAAAAGAAAAGTAATAAAAAAACAAATGAACATGGAATGAAAACTTTCAGAAAA
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AATGAACAGCTGGCTCAGGTGAATGAACTAAAGAAAATGACCCTTCAAACTGGCTTTGAA
CAAGGTGACAGAGAAAATGTACTGTGTAATAAAAAGGAGAAAAGAATAACAAATGAGCAA
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GAGGAAACATACTCTTTATCCCAAAGTTCAGGTAAATTTCACCAGGAGAGTAAATTTGAT
AAGGGTCAGAATTCCCTAACTTGTAATAAAAGTAAAGCTTCTAGACAGACATTTGTGATT
CACAAATTAGAAAAAGATAACTTACTCCCAAACCAAAAGGATAAAGTAACCATTTATGAA
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TCTGATTTAAAACATATTACTAGTGAAGCAGATTCTGATCCAGGAAACCCAGTTGAACTA
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GAGATACATTCACCTAACATACAAGATTCTTCCTTTGACAGTGTTCGTGAAGGTTTAGTA
CCTTTGAGCGTTTCTTCTGGTAAAAATGTGATAATAAAAGAAAATTTTGCCTTGGAGTGC
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GTCAACCGGAGAACCCAAAAATCAGGAATAGACCATTACAGGACTTGTCAAATACCAGTT
TTGTTTCAAATAACACTGCTGAATCTGAAAATAAGTCAGAAGATCTATCTTCAGAACGGA
CAAGCAGAAGAAGAAGGTGTACTCCTTTCTATTTTAAAGAGCCAAGCCTCAGAGACAAGA

Restriction Sites: Please inquire

ACCN: NM_001160033

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:	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_001160033.1, NP_001153505.1
RefSeq Size:	4535 bp
RefSeq ORF:	3783 bp
Locus ID:	151246
Cytogenetics:	2q33.1
Gene Summary:	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] Transcript Variant: This variant (2) uses an alternate splice site in the 3' coding region compared to variant 1, that results in a frameshift. The encoded isoform (2) is shorter and has a distinct C-terminus compared to isoform 1.

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