

Product datasheet for **SC311501**

SA2 (STAG2) (NM_001042749) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SA2 (STAG2) (NM_001042749) Human Untagged Clone
Tag:	Tag Free
Symbol:	SA2
Synonyms:	bA517O1.1; HPE13; MKMS; NEDXCF; SA-2; SA2; SCC3B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001042749, the custom clone sequence may differ by one or more nucleotides

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ATGATAGCAGCTCCAGAAATACCAACTGATTTTAACTACTACAGGAGTCAGAAACACAT
TTTTCTTCTGACACAGATTTTGAAGATATCGAAGGAAAAAACCAAAGCAAGGCAAAGGC
AAAACCTGTAAAAAGGCAAAAAGGGCCAGCAGAAAAGGGCAAAGGTGGAAATGGAGGA
GGAAAACCTCCTTCTGGTCCAAACCGAATGAATGGTCATACCAACAGAATGGAGTGAA
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TTTATTAGTGTTCAGGCTGTAAGGAGTTGTCACAGCAGAAAATGTTTAGACATATGCAG
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GTGGATAGCATGTGGACTGTGCTACTGAGCTGCTGAAAGACTGGGAATGTATGAATAGC

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TTGTTACTGGAAGAGCCACTTAGTGGAGAGGAAGCACTAACAGATAGGCAAGAGAGTGCT
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 GTTTATCCAATGCAGACTGAACATCATCAAACACCTCTTGATTATAACACGCAGGTAACA
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 AGCTATGTTAAACTGCGAACTAATCTTCAGCATGCCATTCCGGCTGGCACAAGCCTAATG
 GAAGATGATGAAGAGCCAATTGTGGAAGATGTTATGATGTCCTCAGAAGGGAGGATTGAG
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 AGACGAGAGAGAACAAGAACTGAAGCCTGATTTCTTTGATCCAGCTTCAATTATGGATGAA
 TCAGTTCTTGAGTGTCAATGTTTTAA

Restriction Sites:

Please inquire

ACCN:

NM_001042749

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>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.</p>
Components:	<p>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).</p>
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:	<p>NM_001042749.1, NP_001036214.1</p>
RefSeq Size:	<p>6277 bp</p>
RefSeq ORF:	<p>3807 bp</p>
Locus ID:	<p>10735</p>
UniProt ID:	<p>Q8N3U4</p>
Cytogenetics:	<p>Xq25</p>
Protein Pathways:	<p>Cell cycle</p>
Gene Summary:	<p>The protein encoded by this gene is a subunit of the cohesin complex, which regulates the separation of sister chromatids during cell division. Targeted inactivation of this gene results in chromatid cohesion defects and aneuploidy, suggesting that genetic disruption of cohesin is a cause of aneuploidy in human cancer. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2013] Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (a). Variants 1 and 2 encode the same isoform.</p>