

Product datasheet for **SC311499**

SA2 (STAG2) (NM_001042751) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SA2 (STAG2) (NM_001042751) Human Untagged Clone
Tag:	Tag Free
Symbol:	STAG2
Synonyms:	bA517O1.1; HPE13; MKMS; NEDXCF; SA-2; SA2; SCC3B
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001042751, the custom clone sequence may differ by one or more nucleotides

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ATGATAGCAGCTCCAGAAATACCAACTGATTTTAACTACTACAGGAGTCAGAAACACAT
TTTTCTTCTGACACAGATTTTGAAGATATCGAAGGAAAAACAAAAGCAAGGCAAAGGC
AAAACCTGTAAAAAGGCAAAAAGGCCAGCAGAAAAGGCAAAAGTGGAAATGGAGGA
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GATGCAGAAAAGGTGACTAACTTGTTCAGTTGCCTCAGTACTTTGATTTGGAAATATAT
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 GAGAAGCACACAGATACAGATGTTTTGGAAGCATGTTCTAAAACCTACCATGCACTCTGT
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 GCTTTTAAAGAGCCTAATCCGCAAGGGGAGAGCCATCCACCTTTAAATTTGGCATTCTT
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 TACTTGGAAAAGTTCATGACCTTTTCTCAGATGTCCTCGAAGAGAGGATGTGTGGCTTCCA
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 AGTATGTGGTTAAGCAGAGAACAACACTGCACACCCCTGTTATGATGCAGACACCACAA
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 GTTTATCCAATGCAGACTGAACATCATCAACACCTCTTGATTATAATCGGCGTGGCACA
 AGCCTAATGGAAGATGATGAAGAGCCAATTGTGGAAGATGTTATGATGTCCTCAGAAGGG
 AGGATTGAGGATCTTAATGAGGGAAATGGATTTTACACCATGGATATAGATTTGCCACCA
 TCAAAGAACAGACGAGAGAGAACAAGAACTGAAGCCTGATTTCTTTGATCCAGCTTCAATT
 ATGGATGAATCAGTTCTTGGAGTGTCAATGTTTTAA

- Restriction Sites:** Please inquire
- ACCN:** NM_001042751
- 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.
- 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_001042751.1](#), [NP_001036216.1](#)

RefSeq Size: 6075 bp

RefSeq ORF: 3696 bp

Locus ID: 10735

UniProt ID: [Q8N3U4](#)

Cytogenetics: Xq25

Protein Pathways: Cell cycle

Gene Summary: 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 (3) differs in the 5' UTR and lacks an in-frame coding exon compared to variant 1. The resulting isoform (b) is shorter, lacking an internal protein segment, compared to isoform a. Variants 3, 4 and 5 encode the same isoform.