

Product datasheet for **SC311502**

SA2 (STAG2) (NM_001042750) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: SA2 (STAG2) (NM_001042750) Human Untagged Clone
Tag: Tag Free
Symbol: STAG2
Synonyms: bA517O1.1; HPE13; MKMS; NEDXCF; SA-2; SA2; SCC3B
Vector: pCMV6 series
Fully Sequenced ORF: >NCBI ORF sequence for NM_001042750, the custom clone sequence may differ by one or more nucleotides

```
ATGATAGCAGCTCCAGAAATACCAACTGATTTTAACTACTACAGGAGTCAGAAACACAT
TTTTCTTCTGACACAGATTTTGAAGATATCGAAGGAAAAAACAAAAGCAAGGCAAAGGC
AAAACCTGTAAAAAGGCAAAAAGGCCAGCAGAAAAGGCAAAAGGTGGAAATGGAGGA
GGAAAACCTCCTTCTGGTCAAACCGAATGAATGGTCATCACCAACAGAATGGAGTGGAA
AACATGATGTTGTTTGAAGTTGTTAAAAAGGGCAAGAGTGCTATGCAGTCGGTGGTAGAT
GATTGGATAGAATCATAAAGCATGACCGAGATATAGCACTTCTTGACCTTATCAACTTT
TTTATTCACTGTTTCAAGGCTGTAAGGAGTTGTCACAGCAGAAAATGTTTAGACATATGCAG
AACTCTGAGATAATTCGAAAAATGACTGAAGAATTCGATGAGGATAGTGGAGATTATCCA
CTTACCATGGCTGGTCCCTCAGTGGAAAGAAGTTCAAATCCAGTTTTTGTGAATTCATTGGC
GTGTTAGTACGGCAATGTCAATATAGTATCATATATGATGAGTATATGATGGATACAGTC
ATTTCACTTCTTACAGGATTGTCTGACTCACAAGTCAGAGCATTTTCGACATACAAGCACC
CTGGCAGCTATGAAGTTGATGACAGCTTTGGTGAATGTGGCACTAAATCTTAGCATTAAAT
ATGGATAATACACAAAGACAATATGAAGCAGAACGGAATAAAATGATTGGAAAACGAGCC
AATGAGAGGCTAGAACTCCTGCTACAAAAGCGGAAAGAGCTTCAGGAAAATCAAGATGAA
ATAGAAAATATGATGAATGCAATATTTAAAGGAGTGTGTTGTACATAGATACCGTGATGCG
ATAGCTGAAATTCGAGCTATTTGCATTGAAGAGATTGGCATTGGATGAAGATGTATAGT
GATGCCTTTCTTAAATGACAGTTATTTAAAATATGTTGGTTGGACTATGCATGATAAGCAA
GGTGAAGTAAGACTCAAATGTCTTACTGCTCTACAAGGGCTTTATTATAACAAAGAGCTT
AATTCAAAAGTGAACCTTTTACCAGTCGGTTCAAGGATAGAATTGTGTCTATGACCCTT
GACAAAGAATATGATGTTGCAGTACAAGCAATAAAATTAAGTCACTCTTGTGTTTACAGAGT
AGTGAAGAAGTTCTCACTGCAGAAGATTGTGAAAATGTCTATCATCTGGTTTATTCAGCT
CACCGGCCAGTAGCAGTAGCAGCTGGAGAATTTCTCTACAAAAGCTCTTCAGTCGTAGA
GATCCAGAGGAGGATGGAATGATGAAAAGAAGAGGAAGACAAGGTCCAAATGCCAACCTT
GTTAAGACATTGGTTTTTTCTTTCTAGAAAGTGAGTTACATGAGCATGCAGCATACCTT
GTGGATAGCATGTGGGACTGTGCTACTGAGCTGCTGAAAGACTGGGAATGTATGAATAGC
TTGTTACTGGAAGAGCCACTTAGTGGAGAGGAAGCACTAACAGATAGGCAAGAGAGTGCT
CTGATTGAAAATAATGCTTTGTACCATTAGACAAGCGGCTGAATGTCATCCTCCCCTGGGA
AGAGGGACAGGAAAAAGGGTGTCTACAGCAAAGGAGAAGAAGACACAGTTGGATGATAGG
ACAAAAATCACTGAGCTTTTTGCCGTGGCCCTTCTCAGTTATTAGCAAAAATACTCTGTA
```



[View online >](#)

GATGCAGAAAAGGTGACTAACTTGTTCAGTTGCCTCAGTACTTTGATTTGAAAATATAT
 ACCACTGGACGATTAGAAAAGCATTGGATGCCTATTGCGACAGATCCGGAATATTGTA
 GAGAAGCACACAGATACAGATGTTTTGGAAGCATGTTCTAAAACCTACCATGCACCTGT
 AATGAAGAGTTCAACAATCTTCAACAGAGTAGATATTTCAAGAAGTCAACTGATAGATGAA
 TTGGCAGATAAATTTAACCGGCTTCTTGAAGATTTCTGCAAGAGGGTGAAGAACCTGAT
 GAAGATGATGCATATCAGGTATTGTCAACATTGAAGAGGATCACTGCTTTTCATAATGCC
 CATGACCTTTCAAGTGGGATTTATTTGCTTGTAAATACAAAACCTTGAAAACCTGGAATC
 GAAAATGGAGACATGCCTGAGCAGATTGTTATTACGCAGTGCAGTGTACTCACTATGTA
 ATCCTTTGGCACTTGCTAAGATAAAGTAAAGCAGCTCTACAAAGGAGGACTTGCTGCGT
 TTAAGAAAACAAATGAGAGTATTTTGTTCAGATATGTCAACATTACCTGACCAACGTGAAT
 ACTACTGTTAAGGAACAGGCCTTCACTATTCTGTGTGATATTTTGTGATCTTCAGCCAT
 CAGATTATGTCAGGAGGGCGTGACATGTTAGAGCCATTAGTGTATACCCCTGATTCTTCA
 TTGCGAGTCTGAGTTGCTCAGCTTATTTTGGATCATGTCTTCATTGAACAGGATGATGAT
 AATAATAGTGCAGATGGTCAGCAAGAGGATGAAGCCAGTAAAATTGAAGCTCTGCACAAG
 AGAAGAAAATTTACTTGCAGCATTTTGTAAAGCTAATTGTATATACTGTGGTGGAGATGAAT
 ACAGCTGCAGATATCTTCAAACAGTATATGAAGTATTATAATGACTATGGAGATATCATC
 AAAGAAAACAATGAGTAAAACAAGGCAGATAGACAAAATTCAGTGTGCTAAGACCCCTTATT
 CTCAGTCTGCAACAGCTTTTAAATGAAATGATACAAGAAAATGGCTATAATTTTGTAGTA
 TCATCCTCTACATTTAGTGGCATAAAAAGAACTTGTCTGACGTTTTGCTTTAACTTTTGG
 CTTGATCAGTTGAAAACAAGAGAAGCCATTGCCATGCTACACAAAGATGGCATAGAATTT
 GCTTTTAAAGAGCCTAATCCGCAAGGGGAGAGCCATCCACCTTTAAATTTGGCATTTCCT
 GATATTTGAGTGAATTTTCTTAACTACTTCGACAAGACAAAAGAACAGTGTATGTT
 TACTTGGAAAAGTTCATGACCTTTTCAGATGTCCTCGAAGAGAGGATGTGTGGCTTCCA
 CTGATGTCTTACCGAAAATCTTTGCTAGCTGGTGGTGTGATGACACCATGTTCAGTCATT
 AGTGAATCAGCAGCCGGGGTCAACAGTACGGAGTAAAAAATCAAAACCATCTACAGGA
 AAACGGAAGTGGTTGAGGGCATGCAGCTTTCCTCACTCACTGAAGAAAAGTAGTAGTGAC
 AGTATGTGGTTAAGCAGAGAACAACACTGCACACCCCTGTTATGATGCAGACACCACAA
 CTCACCTCCACTATTATGAGAGAGCCAAAAGATTACGGCCTGAGGATAGCTTCATGAGT
 GTTTATCCAATGCAGACTGAACATCATCAAACACCTCTTGATTAAACACGCAGGTAACA
 TGGATGTTAGCTCAAAGACAACAAGAGGAAGCAAGGCAACAGCAGGAGAGAGCAGCAATG
 AGCTATGTTAAACTGCGAACTAATCTTTCAGCATGCCATTCGGCGTGGCACAAGCCTAATG
 GAAGATGATGAAGAGCCAATTGTGGAAGATGTTATGATGTCCTCAGAAGGGAGGATTGAG
 GATCTTAATGAGGGAATGGATTTTGACACCATGGATATAGATTTGCCACCATCAAAGAAC
 AGACGAGAGAGAACAAGAACTGAAGCCTGATTTCTTTGATCCAGCTTCAATTATGGATGAA
 TCAGTTCTGGAGTGCAATGTTTTAA

- Restriction Sites:** Please inquire
- ACCN:** NM_001042750
- 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_001042750.1](#), [NP_001036215.1](#)

RefSeq Size: 6186 bp

RefSeq ORF: 3807 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 (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 encode the same isoform (a).