

## Product datasheet for **SC311427**

### SMC2 (NM\_001042551) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SMC2 (NM_001042551) Human Untagged Clone
Tag:	Tag Free
Symbol:	SMC2
Synonyms:	CAP-E; CAPE; SMC-2; SMC2L1
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001042551, the custom clone sequence may differ by one or more nucleotides

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ATGCATATTAAGTCAATTATTCTAGAGGGATTCAAGTCCTATGCTCAGAGGACCGAAGTC
AATGGTTTTGACCCCTCTTCAATGCTATCACTGGCTTAAATGGTAGTGGGAAATCCAAC
ATATTGGACTCCATCTGCTTTTTGCTGGGCATCTCCAACCTGTCTCAGGTTGGGCTTCT
AATTTACAAGATTTAGTTTACAAAAATGGGCAGGCTGGTATTACCAAAGCCTCTGTGTC
ATCACTTTTGATAATTCTGACAAAAAGCAAAGTCCTTTAGGATTTGAGGTTTCATGATGAA
ATCACAGTAACAAGGCAGGTGGTTATTGGTGGTAGAAAATAAATATTTAATCAATGGAGTC
AATGCCAACACCAGAGTACAGGATCTTTCTGTTCTGTTGGCCTTAATGTTAAACAAC
CCTCACTTTCTCATCATGCAGGGCCGAATTACAAAAGTATTGAATATGAAACCTCCAGAG
ATTTTATCCATGATAGAGAAGCAGCTGGAACCGGATGTATGAATACAAAAAATAGCT
GCACAGAAAATATAGAAAAAAGGAGGCTAAGCTGAAAGAAATTAAGACGATACTTGAA
GAAGAGATTACTCCAACCTTCAAAAAATTAAGAGGAAAGATCGTCCTACTTGGAGTAC
CAAAAAGTAATGAGAGAAATAGAACATTTGAGTCGTTTATATATTGCTTATCAGTTTTTG
CTGGCTGAAGATACCAAAGTACGCTCAGCTGAGGAATTAAGAAATGCAAGATAAAGTT
ATAAAGCTTCAGGAAGAATTGTCTGAGAATGATAAAAAAATAAAGCACTTAATCATGAA
ATAGAAGAATTGAAAAAAGAAAAAGATAAGGAACTGGAGGTACTTTCGATCTTTAGAA
GATGCTCTTGACAGGCTCAGCGAGTTAATACTAAATCTCAAAGCGCATTGATCTCAAG
AAGAAAAATCTGGCATGTGAGGAAAGCAAACGCAAAGAGCTGGAAAAAATATGGTTGAG
GACTCAAAAATTTAGCAGCAAAGGAAAAAGAGGTTAAAAAGATAACAGATGGACTGCAT
GCCCTTCAAGAAGCAAGTAATAAAGATGCTGAAGCTCTGGCAGCTGCACAGCAGCACTTC
AATGCTGTTTTCCGCTGGCCTGTCCAGTAATGAAGATGGAGCAGAAGCAACTCTTGCTGGT
CAAATGATGGCCTGTAATAATGATATAAGTAAAGCTCAGACAGAAGCCAAACAGGCTCAG
ATGAAGTTGAAGCATGCTCAACAGGAATTAAGAATAAACAAGCTGAAGTTAAGAAGATG
GATAGTGGCTACAGGAAGGATCAAGAAGCTCTAGAAGCTGTAAGAAAGACTTAAAGAAAA
CTTGAAGCTGAAATGAAAAGCTAAATTATGAAGAAAATAAAGAGGAAAGCCTTTTGAA
AAGCGCAGGCAGCTGTCTCGTGATATTGGTAGATTGAAAGAAACATATGAAGCTCTATTA
GCCAGATTTCCCAATCTTCGATTTGCATACAAGGATCCAGAGAAGAACTGGAATAGAAAT
TGTGTGAAAGGACTTGTGGCTTCTCTGATTAGTGTGAAAGACACTTCTGCAACCACAGCT
TTAGAATTAGTGGCTGGAGAACGACTCTACAATGTTGTAGTAGACACAGAAGTTACTGGT
AAAAAGCTACTAGAAAGGGGGAAGTGAACGTCGATACACTATAATCCACTCAATAAA
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**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\\_001042551.1](#), [NP\\_001036016.1](#)

**RefSeq Size:** 5992 bp

**RefSeq ORF:** 3594 bp

**Locus ID:** 10592

**UniProt ID:** [O95347](#)

**Cytogenetics:** 9q31.1

**Protein Families:** Druggable Genome

**Gene Summary:** Central component of the condensin complex, a complex required for conversion of interphase chromatin into mitotic-like condense chromosomes. The condensin complex probably introduces positive supercoils into relaxed DNA in the presence of type I topoisomerases and converts nicked DNA into positive knotted forms in the presence of type II topoisomerases.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1. All variants encode the same protein.