

Product datasheet for **SC332821**

SMC2 (NM_001265602) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: SMC2 (NM_001265602) Human Untagged Clone
Tag: Tag Free
Symbol: SMC2
Synonyms: CAP-E; CAPE; SMC-2; SMC2L1
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC332821 representing NM_001265602.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
ATGCATATTAAGTCAATTATTCTAGAGGGATTCAAGTCCTATGCTCAGAGGACCGAAGTCAATGGTTTT
GACCCCTCTTCAATGCTATCACTGGCTTAAATGGTAGTGGGAAATCCAACATATTGGACTCCATCTGC
TTTTTGTGGGCATCTCCAACCTGTCTCAGGTTCTGGGCTTCTAATTTACAAGATTTAGTTTACAAAAAT
GGGCAGGCTGGTATTACCAAAGCCTCTGTGTCAATCACTTTTGATAATTCTGACAAAAAGCAAAGTCTT
TTAGGATTTGAGGTTTCATGATGAAATCACAGTAACAAGGCAGGTGTTATTGGTGGTAGAAAAAATAT
TTAATCAATGGAGTCAATGCCAACACCAGAGTACAGGATCTCTTCTGTTCTGTTGGCCTTAATGTT
AACCAACCTCACTTTCTCATCATGCAGGCGCAATTACAAAAGTATTGAATATGAAACCTCCAGAGATT
TTATCCATGATAGAAGAAGCAGCTGGAACCAGGATGTATGAATACAAAAAATAGCTGCACAGAAAAT
ATAGAAAAAAGGAGGCTAAGCTGAAAGAAATTAAGACGATACTTGAAGAAGAGATTACTCCAACCACTT
CAAAAAATAAAGAGGAAAGATCGTCTACTTGGAGTACCAAAAAGTAAATGAGAGAAATAGAACATTTG
AGTCGTTTATATATTGCTTATCAGTTTTTGGCTGGCTGAAGATACCAAAAGTACGCTCAGCTGAGGAATTA
AAAGAAATGCAAGATAAAGTTATAAAGCTTCAGGAAGAATTGTCTGAGAATGATAAAAAAATAAAGCA
CTTAATCATGAAATAGAAGAATTGAAAAAAGAAAAGATAAGGAAACTGGAGGTACTTCGATCTTTA
GAAGATGCTCTTGCAGAGGCTCAGCGAGTTAATACTAACTCAAAGCGCATTTGATCTCAAGAAGAAA
AATCTGGCATGTGAGGAAAGCAAACGCAAAGAGCTGGAAAAAAATATGGTTGAGGACTCAAAAACTTTA
GCAGCAAAGGAAAAAGAGTTAAAAAGATAACAGATGGACTGCATGCCCTTCAAGAAGCAAGTAATAAAA
GATGCTGAAGCTCTGGCAGCTGCACAGCAGCACTTCAATGCTGTTCCGCTGGCCTGTCCAGTAATGAA
GATGGAGCAGAAGCAACTCTTGGTCAAATGATGGCCTGTAATAATGATATAAGTAAAGCTCAGACA
GAAGCCAAACAGGCTCAGATGAAGTTGAAGCATGCTCAACAGGAATTAAGAATAAACAAGCTGAAGTT
AAGAAGATGGATAGTGGCTACAGGAAGGATCAAGAAGCTCTAGAAGCTGTAAGAAAGCTTAAAGAAAAA
CTTGAAGCTGAAATGAAAAAGCTAAATTATGAAGAAAAAAGAGGAAAGCCTTTTGGAAAAGCGCAGG
CAGCTGTCTCGTATATTGGTAGATTGAAAGAAACATATGAAGCTCTATTAGCCAGATTTCCAATCTT
CGATTTGCATACAAGGATCCAGAGAAGAACTGGAATAGAAATTGTGTGAAAGGACTTGTGGCTTCTCTG
ATTAGTGTGAAAGACACTTCTGCAACCACAGCTTTAGAATTAGTGGCTGGAGAACGACTCTACAATGTT
GTAGTAGACACAGAAGTTACTGGTAAAAAGCTACTAGAAAAGGGGGAACTGAAACGTCGATACACTATA
ATTCCAATCAATAAAATTTAGCCAGATGATTGCACCAGAACTCTGAGAGTTGCTCAGAAATCTTGTG
GGCCCTGACAACGTTTCATGTGGCTCTTCTTGGTTGAATATAAACCAGAACTTCAGAAAGCAATGGAG
TTTGTCTTTGGAACAACATTTGTTTGTGACAATATGGATAATGCCAAAAAAGTGGCCTTTGATAAGAGG
```

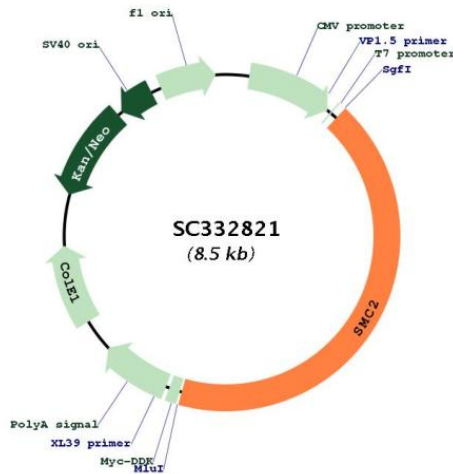


ATAATGACTAGAACTGTAACCTCTCGGAGGTGATGTGTTTGATCCTCATGGGACATTGAGTGGAGGTGCT
 CGATCCCAGGCAGCTTCCATTTTAAACCAAGTTTCAAGAACTCAAAGATGTTTCCAGGATGAACTGAGAATC
 AAAGAGAAATGAGCTGCGGGCTCTAGAAGAGGAATTAGCAGGTCTTAAAAACACTGCTGAAAAATATCGC
 CAACTAAAACAGCAGTGGGAGATGAAAACCTGAAGAGGCAGATTTATTACAAACCAAGCTCCAGCAAAGC
 TCATATACAAGCAACAAGAAGAATTAGATGCCCTTAAAAAACCACTTGGGAAAGTGGAGGACCTTTG
 AAAAACAATAAGAAAATCCAAAGAAAAGCAGAAGAAAAATGAAGTATTGGAAAAATAAATGAAAAAT
 GCAGAAGCTGAAAGAGAGCGAGAAGCTGAAAGATGCTCAGAAAAAACTGGATTGTGCCAAAAACAAGGCA
 GATGCATCTAGCAAGAAGATGAAAGAAAAACAACAGGAAGTTGAAGCTATCACTCTGGAAGCTGGAAGAG
 CTCAAGAGAGAGCATACATCTTACAAACAACAGCTTGAAGCTGTAATGAAGCTATCAAATCCTATGAA
 AGTCAGATTGAAGTAATGGCAGCTGAGGTGGCTAAAAATAAGGAGTCAGTAAATAAAGCTCAAGAAGAG
 GTGACCAAGCAAAAAGAGGTGATAACAGCCCAAGACACTGTAATTAAGCTAAATATGCAGAAGTGGCA
 AAACACAAGGAGCAAAAACATGATTCTCAGCTTAAATTAAGGAATTAGACCACAACATCAGCAAACAT
 AAACGGGAGGCTGAAGATGGTGTGCAAGGTATCCAAAATGTTGAAAGATTATGACTGGATTAATGCA
 GAGAGACACCTCTTTGGCCAACCAATAGTGCCTATGATTTCAAACCTAACACCCTAAAGAAGCTGGT
 CAGAGACTTCAGAAGTTCAAGAATGAAGGAGAACTAGGAAGAAATGTCAATATGAGAGCTATGAT
 GTATTGACAGAAGCTGAAGAGCGATACAATGACTTGATGAAGAAGAAGAGAAATTGTAGAAAAATGACAAA
 TCCAAAATTTCTCAACTATAGAAGACCTTGACCAGAAGAAAAACCAAGCCCTAAATATTGCATGGCAA
 AAGGTGAACAAGGACTTTGGGTCTATTTTTTCTACTCTTTTGCCTGGTGTAAATGCATATGCTTGCACCA
 CCAGAGGGTCAAAGTGTGGATGGTCTGGAGTTCAGGTTGCCTTGGGAAATACCTGGAAAGAAAAAC
 CTAAGTGAAGTGTGGTGTGAGAGTCTTGTAGTGCCTTGTCAATAACTGTCCATGCTTCTCTTC
 AAACCTGCTCAATTTATCCTTGATGAGGTAGATGCAGCCTTGGATCTTCTCATACCCAAAACATT
 GGACAGATGCTGCGTACTCATTTACACATTCTCAGTTCATTGTGGTGTCACTAAAAGAAGGTATGTTT
 AACAAATGCAAAAGTCTTTTCAAACCAAGTTTGTGGATGGTGTCTACAGTAGCCAGATTTACTCAA
 TGTCAAATGAAAGATTTCAAAGGAAGCAAAATCCAAGGCAAAACACCCAAAGGAGCACATGTGGAA
 GTTAA

Restriction Sites:

SgfI-MluI

Plasmid Map:



ACCN:

NM_001265602

Insert Size:

3594 bp

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).
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:	<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:	NM_001265602.1
RefSeq Size:	6008 bp
RefSeq ORF:	3594 bp
Locus ID:	10592
UniProt ID:	O95347
Cytogenetics:	9q31.1
Protein Families:	Druggable Genome
MW:	135.7 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (4) differs in the 5' UTR, compared to variant 1. All variants encode the same protein.</p>