

Product datasheet for **SC125482**

SMC4 (NM_005496) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SMC4 (NM_005496) Human Untagged Clone
Tag:	Tag Free
Symbol:	SMC4
Synonyms:	CAP-C; CAPC; SMC-4; SMC4L1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_005496 edited

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GTGAAGGACCCGAGCCGAAACACCGGTAGGAGCGGGGAGGTGGTACTACACAACCGTC
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ATAATGTAAGTGTAAAAATGTAAACACATTATTAGCATGGACTTTTAAATAAAGATTAA
AGAAAGCAAAAAAAAAAAAAAAAAAAAA
  
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Restriction Sites:	NotI-NotI
ACCN:	NM_005496
Insert Size:	5100 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).
OTI Annotation:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_005496.3.
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:	<u>NM_005496.3</u> , <u>NP_005487.3</u>
RefSeq Size:	5297 bp
RefSeq ORF:	3867 bp
Locus ID:	10051
UniProt ID:	<u>Q9NTJ3</u>
Cytogenetics:	3q25.33
Domains:	M, SMC_N, SMC_C

Gene Summary:

This gene belongs to the 'structural maintenance of chromosomes' (SMC) gene family. Members of this gene family play a role in two changes in chromosome structure during mitotic segregation of chromosomes- chromosome condensation and sister chromatid cohesion. The protein encoded by this gene is likely a subunit of the 13S condensin complex, which is involved in chromosome condensation. A pseudogene related to this gene is located on chromosome 2. [provided by RefSeq, Jun 2016]

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