

Product datasheet for MC223536

Smc6 (NM_025695) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smc6 (NM_025695) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Smc6
Synonyms:	2810489L22Rik; 3830418C19Rik; AA990493; AU018782; AW742439; mKIAA4103; SMC-6; Smc6l1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC223536 representing NM_025695 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCAAAAGAAAGGAAGAAAATTTCTGCTCTCCTGAAAATGCTAAAAGACCAAGACAAGAAGAACTGG
AAGATTTTGATAAAGATGGAGATGAAGATGAATGTACAATTTCTTTCACGAATGGAACATCTACTTTGAC
TGCAGCAGAAGTTGGAATAATTGAGAGTATTCAGCTAAGAAAATTCATGTGTCATTCAATGCTTGGACCT
TTTAAGTTTGGTCTAACGTCACCTTTGTTGTTGGCAATAATGGAAGTGGGAAGAGTGTGTGCTCACCC
CACTCATAGTTGGTCTTGGTGGAAAAGCAGTTGCTACTAACAGAGGGTCTCTTTAAAAGGCTTTGTGAA
AGCTGGACAGAAGTCAAGATATCTCAATAACATTAAGGAACAGAGGAGATGATGCCTTCAGAGCAAAT
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TAGAAAAGGACAAGCAAGAGCATGGCCGAGTTAGGAAAGAAGATATAGAAGTGAAGACATGCACTCAACTA



TAATCAGAGACAATTGAAAGAACTGAAAGATAGTAAAACCTGATCGACTAAAAAGATTTGGTCCTCATGTT
 CCAGCTCTTCTGGAAGCAATAGATGATGCTTACAGACGGAGACAATTTACCCATAAACCTATCGGCCCTT
 TAGGTGCTTGCAATCATCTACGGGACCCCTGAACTTGCTTTGGCCATTGAATCTTGCTTAAAGGACTTCT
 GCAAGCCTATTGTTGCCATAATCATGCTGATGAGAGAGTACTTCAGTCTTTGATGAAAAATTTTATCCA
 CCAGGGACCTCTCGGCCACAGATAATTGTGTCTGAGTTTCGGGATGAGGTATATGATGTGAGACTCAGAG
 CTGCTTACCATCCAGAGTTTCCAAGTGTCTGACAGCTTTAGAAAATAGACAATGCTGTTGTGGCAACAG
 CCTGATTGACATGCGGAGCATAGAGACAGTGTCTGATCAAAAATAATTCTGTGGCTCGTGACATG
 CAATCCCAAAAGCCACCCAAAAATTGTAGAGAAGCTTTTACTGCTGATGGTGATCAAGTGTTCAGGAC
 GTTATTATTCATCTGAAAGTACAAGACCCAAGTTTCTAAGCAGAGATGTGGATTCTGAAAATAGTGACTT
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 GATATCAAACGCAATGAAGAAGTCTTAAAAGGTGCCAACTACATTATAAAGAAAATAAGATGAAAAATA
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 GGAAGATGAAGCTGAAGAAAATAAAAATAAAATGCAAAATGGTGGAGAAAAATATGGAACAACAAAAAGAA
 AACATGGAGAATCTTAAAAGTCTAAAAATGAAGCAGAAAATAAGTATGATACAATTAATTAAGATTA
 ATCAGCTATCAGAGCTAGCGGATCCACTTAAGGATGAGTTAAATCTTGCTGACTCTGAAGTGGATAGCCA
 GAAACGAGGAAAGCAGCACTATGAGGATAAACAGAAAGAGCATTGGATACCTTAAATAAAAAGAGACGA
 GAGCTTGACATGAAGGAAAAGGAGTTACAGGAGAAAATGTCACAGGCAAGACAGATCTGCCCAGAACGGA
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 CTGGATAATAAAGTAAGGACTTTAAGAAGGTTCAATTAATTTGCTAGAAGAAAATAATGACCCATAGGTACA
 AAACATACCAACAATTTAGAAGGTGTTGACATTACGATGCAAATATACTTTGACAACTTATTATCTCA
 GCGTGCTTATTGTGAAAAATGAATTTTGATCACAGAATGAAACTCTTAGTATAACAGTTCAGCCCGGA
 GAGGGAAACAAAGCCTCCTTCAATGACATGCGTGCTTTGTCCGGCGTGAGCGCTTTTCTCCACCGTGT
 GCTTCATCCTTTCCCTGTGGTCCATTGCTGAATCACCTTTCAGATGCCTGGATGAGTTTGATGTCTACAT
 GGATATGGTTAATAGGAGAATTGCGATGGACATGATCCTTAAGATGGCAGATTCCCAACGTTTTAGACAA
 TTTATCTTGCTTACCCTCAAAGCATGAGCTCCCTTCCCTCAAGTAAACTGATTAGAATCTTCGAATGT
 CTGACCCTGAAAGAGGGCAAACCACACTGCCCTCCGACCTGTGACTCAAGAGGAAGATGACAGTGAAG
 TTGA

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_025695
- Insert Size:** 3294 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:

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_025695.4](#), [NP_079971.2](#)

RefSeq Size: 5603 bp

RefSeq ORF: 3294 bp

Locus ID: 67241

UniProt ID: [Q924W5](#)

Cytogenetics: 12 A1.1

Gene Summary: Core component of the SMC5-SMC6 complex, a complex involved in repair of DNA double-strand breaks by homologous recombination. The complex may promote sister chromatid homologous recombination by recruiting the SMC1-SMC3 cohesin complex to double-strand breaks. The complex is required for telomere maintenance via recombination and mediates sumoylation of shelterin complex (telosome) components (By similarity).[UniProtKB/Swiss-Prot Function]