

Product datasheet for **MC206349**

Smc5 (BC038345) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smc5 (BC038345) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Smc5
Synonyms:	MGC30442, MGC7569, mKIAA0594
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

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>BC038345
GCTCCTGGGCTGCGGCTCGCCGGGAACGGAAGCCGCTGCGGGACGCGGAGGAAGCCAGGATGGCGACTCC
GAGCGGGAAGGCTGCTCCCCCAACCCCAAGTTTCCAAGCGGTCTCTCCCGAGAGATGCTTCTCCGAG
GTCCCAGCAAGAGAAAGAACTCGAACCCGTTGCCGACGCTGCCGCGCCGTCGCGGACCTTCGTCGAGG
GCTCAATCGTCCGCATCGCCATGGAGAACTTCTTAACATATGACATCTGTGAAGTGTCTCCTGGGCCCCA
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ACACATCCAGTATTTCTTCATCACACCGAAGCTTCTACAGAATCTTCTTATTCTGAAAAGATGACAGT
GTTGTTTGTCTACAATGGTCTCATATGCTGGAGCCAAACCGATGGAATTTAAAGGCTTTTCAAAGGCGT
CGCGGAAGGATAACCTTTACTCAACCTCAGTGAAGGAAAGAACAGGAGGGGCTTTGGAGGTTTTTTTC
CTTAACTGTTTATATGTGTCGCTCGCTCAAGTGAATAAAAGTTAGCAGATTTATTGAAAAAATAA AA
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Restriction Sites:

RsrII-NotI

ACCN:	BC038345
Insert Size:	3264 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>BC038345, AAH38345</u>
RefSeq Size:	3432 bp
RefSeq ORF:	3264 bp
Locus ID:	226026
Cytogenetics:	19 B
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. Required for sister chromatid cohesion during prometaphase and mitotic progression; the function seems to be independent of SMC6 (By similarity).[UniProtKB/Swiss-Prot Function]