

Product datasheet for **MC220711**

Smc3 (BC057345) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smc3 (BC057345) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Smc3
Synonyms:	HCAP, SmcD, Bamacan
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC220711 representing BC057345
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAATAACTTTGAGTGTGAACCAGCTTCTATACTTGTGTGGAAGTCACTGCTGGTAACAGGTTATTTT
 ATCACATTGTTGATTCAGATGAAGTCAGCACGAAAATTTAATGGAGTTCATAAAATGAATCCTCCTGG
 AGAGGTGACTTTCCTGCCTCTTAACAAGTTAGATGTGAGAGATACTGCCTATCCTGAAACTAACGATGCT
 ATTCCTATGATCAGTAAGCTGAGGTACAATCCCAGATTTGACAAAAGCTTCAAACATGTATTTGGAAAGA
 CACTCATCTGTCGGAGCATGGAAGTTTCAACTCAGCTGGCCCGGCCCTTCACTATGGACTGTATTACTTT
 GGAAGGTGATCAAGTCAGCCATCGAGGTCTGACTGGAGGTTATTACGACACAAGAAAGTCTCGACTT
 GAGTTACAGAAAGACGTTAGGAAGGCAGAGGAGGAGCTGGGTGAGCTGGAGGCTAAGCTCAATGAAAACC
 TACGCAGGAACATTGAAAGGATTAATAATGAAATTGACCAGTTGATGAACCAAATGCAGCAGATAGAGAC
 CCAACAAAGAAAATTTAAAGCATCCAGAGATAGCATATTATCAGAGATGAAGATGCTAAAAGAGAAGAGA
 CAGCAATCAGAAAAGACCTTCATGCCAAAGCAAGTAGCTTACAAGCTTGGAGGCAAGTCTGCATGCTA
 TGGAGTCCACCAGAGAGTCACTGAAAGCGGAGCTAGGAACGGATTTGCTTCTCAACTCAGTCTGGAAGA
 TCAGAAAAGAGTCGACGCTCTGAATGATGAAATCCGTCAGCTGCAGCAGGAAAACAGACAGCTGCTAAAT
 GAAAGAATTAACATAGAAGGCATTACTCGAGTAGAGACTTACCTGAATGAGAATCTGAGGAAACGCT
 TGGACCAAGTAGAACAGGAACCTAATGAACTGAGAGAGACAGAAGGTGGTACTGTTCTTACTGCCACAAC
 ATCAGAACTTGAAGCTATTAATAAAAGAGTAAAAGATACTATGGCAAGATCAGAAGATTTGGACAATTCC
 ATTGACAAAACAGAAGCTGGAATTAAGAGCTCCAGAAAAGTATGGAGCGCTGGAAAAATATGGAGAAAG
 AACACATGGATGCCATAAATCATGATACTAAAGAGCTGGAGAAGATGACCAACCGGCAAGGCATGCTGTT
 GAAGAAGAAGGAGGAGTGTATGAAGAAGATCCGGGAGCTGGGGTCCCTCCCCAGGAAGCGTTTGAGAAG
 TACCAGACACTGAGCCTGAAGCAGTTGTTTCGAAAAGCTGGAGCAATGCAACACAGAGTTAAAGAAGTACA
 GCCACGTGAACAAAAGGCTCTAGATCAGTTTGTGAATTTCTCTGAGCAGAAGGAAAAGCTGATAAAGCG
 GCAAGAGGAATTGGATAGAGGCTACAAATCAATCATGGAATTGATGAATGTACTTGAAGTTAGAAAATAT
 GAAGCTATTCAGTTAACTTTCAAACAGGTATCTAAGAAGTTCAGTGAAGTTTCCAGAAGTTGGTACCTG
 GTGGCAAAGCGACTTTGGTGATGAAGAAAGGAGATGTGGAGGGCAGCCAGTCTCAGGACGAAGGAGAAGG
 GAGTGGCAGAGTGAGCGGGCTCTGGTCCAGAGCAGTGTCCATCAGTTGACCAGTTCACAGGAGTT
 GGGATCAGGGTGCATTTACAGGAAGCAAGGGGAGATGAGAGAAATGCAGCAGCTCTCAGGAGGACAGA
 AATCTCTGGTAGCCCTTGTCTCATCTTTGCCATTGAGAAATGCGACCCTGCTCCTTTTTACCTGTTTGA
 TGAGATCGACCAAGCTTTGGATGCTCAGCACAGAAAAGCCGTGTCAGATATGATTATGGAGCTAGCCGTG
 CATGCCAGTTTATTACCACTACTTTAGGCGCTGAACTGCTTGAGTCAGCTGACAAATCTATGGTGTA
 AGTTTCAGAAATAAGGTTAGTCACATTGATGTGATCACAGCAGAGATGGCCAAAGATTTTGTAGAAGACGA
 TACCACGCATGGT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAAAGCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** BC057345
- Insert Size:** 2046 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: [BC057345](#), [AAH57345](#)

RefSeq Size: 2711 bp

RefSeq ORF: 2045 bp

Locus ID: 13006

Cytogenetics: 19 D2

Gene Summary: Central component of cohesin, a complex required for chromosome cohesion during the cell cycle. The cohesin complex may form a large proteinaceous ring within which sister chromatids can be trapped. At anaphase, the complex is cleaved and dissociates from chromatin, allowing sister chromatids to segregate. Cohesion is coupled to DNA replication and is involved in DNA repair. The cohesin complex plays also an important role in spindle pole assembly during mitosis and in chromosomes movement.[UniProtKB/Swiss-Prot Function]