# Structural Maintenance of Chromosomes Protein 6 (smc6) Xenopus Laevis Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Structural maintenance of chromosomes protein 6 (smc6), Recombinant Protein |
| **Full Product Name** | Recombinant Xenopus laevis Structural maintenance of chromosomes protein 6 (smc6), partial |
| **Product Gene Name** | smc6 recombinant protein |
| **Product Synonym Gene Name** | smc6 |
| **Host** | E Coli or Yeast or Baculovirus or Mammalian Cell |
| **Form/Format** | Lyophilized or liquid (Format to be determined during the manufacturing process) |
| **Purity/Purification** | Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific) |
| **Preparation and Storage** | Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended. |
| **Molecular Weight** | 130,513 Da |
| **Tag Information** | This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information. |
| **Sterility** | Sterile filter available upon request. |
| **Endotoxin** | Low endotoxin available upon request. |
| **3D Structure** | ModBase 3D Structure for Q6P9I7 |
| **Species** | Xenopus laevis (African clawed frog) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for smc6 recombinant protein** | MBS1333407 is a recombinant protein targeting smc6. Also known as Recombinant Xenopus laevis Structural maintenance of chromosomes protein 6 (smc6), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of smc6 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for smc6. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 147907130 |
| **NCBI GeneID** | 398986 |
| **NCBI Accession #** | NP_001083550.1 |
| **UniProt Primary Accession #** | Q6P9I7 |
| **UniProt Secondary Accession #** | Q805A0 |
| **UniProt Related Accession #** | Q6P9I7 |
| **GenBank Nucleotide #** | NM_001090081.1 |
| **NCBI Official Full Name** | structural maintenance of chromosomes protein 6 |

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| **NCBI Official Synonym Full Names** | structural maintenance of chromosomes 6 L homeolog |
| **NCBI Official Symbol** | smc6.L |
| **NCBI Official Synonym Symbols** | smc6; SMC-6 |
| **UniProt Protein Name** | Structural maintenance of chromosomes protein 6 |
| **Protein Family** | Structural maintenance of chromosomes protein |
| **UniProt Gene Name** | smc6 |
| **UniProt Synonym Gene Names** | smc6l1; SMC protein 6; SMC-6; xSMC6 |
| **NCBI Protein Information** | structural maintenance of chromosomes protein 6 |
| **UniProt Comments for smc6** | 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 (). |
| **Research Articles on smc6** | **1.** The Smc5/6 complex is regulated during the cell cycle, presumably in anticipation of DNA damage that may arise during replication. |
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