

Product datasheet for **MR220884L3V**

Smc1b (NM_080470) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

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| Product Type: | Lentiviral Particles |
| Product Name: | Smc1b (NM_080470) Mouse Tagged ORF Clone Lentiviral Particle |
| Symbol: | Smc1b |
| Synonyms: | SMC-1B; SMC1beta; Smc1l2 |
| Mammalian Cell Selection: | Puromycin |
| Vector: | pLenti-C-Myc-DDK-P2A-Puro (PS100092) |
| Tag: | Myc-DDK |
| ACCN: | NM_080470 |
| ORF Size: | 3744 bp |
| ORF Nucleotide Sequence: | The ORF insert of this clone is exactly the same as(MR220884). |
| OTI Disclaimer: | The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info |
| OTI Annotation: | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene. |
| RefSeq: | NM_080470.1 , NP_536718.1 |
| RefSeq Size: | 4056 bp |
| RefSeq ORF: | 3747 bp |
| Locus ID: | 140557 |
| UniProt ID: | Q920F6 |
| Cytogenetics: | 15 E2 |



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Gene Summary:

Meiosis-specific component of cohesin complex. Required for the maintenance of meiotic cohesion, but not, or only to a minor extent, for its establishment. Contributes to axial element (AE) formation and the organization of chromatin loops along the AE. Plays a key role in synapsis, recombination and chromosome movements. The cohesin complex is required for the cohesion of sister chromatids after DNA replication. The cohesin complex apparently forms 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. The meiosis-specific cohesin complex probably replaces mitosis specific cohesin complex when it dissociates from chromatin during prophase I.[UniProtKB/Swiss-Prot Function]