

## Product datasheet for **TL514021V**

### Smc2 Mouse shRNA Lentiviral Particle (Locus ID 14211)

#### Product data:

|               |  |
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| Product Type: | shRNA Lentiviral Particles   |
| Product Name: | Smc2 Mouse shRNA Lentiviral Particle (Locus ID 14211)  |
| Locus ID:     | 14211  |
| Synonyms:     | 5730502P04Rik; AI255214; AW545314; CAP; CAP-E; CAPE; Fin; Fin16; SMC-2; Smc2l1   |
| Vector:       | pGFP-C-shLenti (TR30023)   |
| Format:       | Lentiviral particles   |
| Components:   | Smc2 - Mouse shRNA lentiviral particles (4 unique 29mer target-specific shRNA, 1 scramble control), 0.5 ml each, >10 <sup>7</sup> TU/ml.   |
| RefSeq:       | <a href="#">BC094380</a> , <a href="#">NM_001301412</a> , <a href="#">NM_008017</a> , <a href="#">NM_008017.1</a> , <a href="#">NM_008017.2</a> , <a href="#">NM_008017.3</a> , <a href="#">NM_008017.4</a> , <a href="#">NM_001301412.1</a> , <a href="#">BC011064</a> , <a href="#">BC021847</a> , <a href="#">BC071232</a>  |
| UniProt ID:   | <a href="#">Q8CG48</a>   |
| Summary:      | The protein encoded by this gene is a component of both condensin I and condensin II complexes, and forms a heterodimer with structural maintenance of chromosome 4 (Smc4). This heterodimer is the catalytic subunit for both condensin complexes, and is involved in several processes, including chromosome condensation during mitosis and meiosis, cohesin removal during mitosis and meiosis, and single-strand break (SSB) repair. Reduced expression of this gene results in chromosome segregation defects during mitosis and meiosis, with a more severe defect observed in embryonic stem cells. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2014] |
| shRNA Design: | These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact <a href="mailto:techsupport@origene.com">techsupport@origene.com</a> . If you need a special design or shRNA sequence, please utilize our <a href="#">custom shRNA service</a> .   |



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**Performance  
Guaranteed:**

OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at [techsupport@origene.com](mailto:techsupport@origene.com). Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).