

Supplementary Materials: Non-SMC Element 2 (NSMCE2) of the SMC5/6 Complex Helps to Resolve Topological Stress

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Table S1. The selected off-target sites and the corresponding PCR primers.

| Potential Off-Target Sites | Genomic Loci (GRCh38/hg38) | Mis Matches | PCR Primers |
|-----------------------------|--|--------------|---|
| ACCCAAATCTGTATCA ACTCAGG | 62065416-62065438, chromosome 11 | 1, 2, 7, 8 | F: GTCCCTCCATCTTGGTGCCT R: GGGTCTTTGCTGCCTGTGA |
| CTCTTATCCTGTATCAA CTCAAG | 43274942-43274964, chromosome 2 | 1, 4, 5, 7 | F: CACTGACAACAGGCATGAAAT R: CTGGAGACTGAGGCAGGAGA |
| TTTCTATTCTGTATCAA CTCAAG | 153197613-153197635, chromosome 7 | 3, 5, 7, 8 | F: ATTGGGCCTTATGAACTGATTC R: TGGTCTACGCAGGGTAAGGATA |
| TGCCAAGGCTGTATGA ACTCAGG | 110987269-110987291, chromosome 2 (in gene) | 2, 8, 15 | F: ACTGCTTGGAAACAGTGAACATG R: GCTGAGACTGATGAGCGATAAA |
| TCCAAAGTCTGTATCA ACTTTAG | 2809500-2809522, chromosome 8 | 2, 4, 8, 20 | F: CAGCCAAACCATATCATTCTGT R: TGTTTTCATGTTTGTCGAGTG |
| TTCCAAGACTATATCA ACTAAAG | 114757228-114757250, chromosome 11 | 8, 11, 20 | F: GTATTGCAGCAAGCCATTACC R: AAGAATCTGCTCTGGAGGGAG |
| TTCTGGCCTGTATCA ACACAAG | 52436381-52436403, chromosome 12 | 5, 6, 19 | F: ACGGAACCAGGTGAAGGAA R: TTGGCACTTGGAGCGGTAG |
| TTTGAAGTCTGTATCAT CTCAAG | 104356169-104356191, chromosome 5 | 3, 4, 8, 17 | F: CACTCTTACTTTGTTCCCCACA R: CCTCACTTGCCTTGCTATT |
| TACTAAACATGTATCA ACTCAGG | 31343808-31343830, chromosome X | 2, 4, 7, 9 | F: GCTGGCGGGTGCAATTAGT R: AGAGCAAGACCCTGACCCTAA |
| GCCCAAGCCAGTATCA CCTCAAG | 128369750-128369772, chromosome 5 | 1, 2, 10, 17 | F: CGGAAAGTGGGAGTAAGAAATC R: GCTCTAATCACTGGCTATGCTAT |

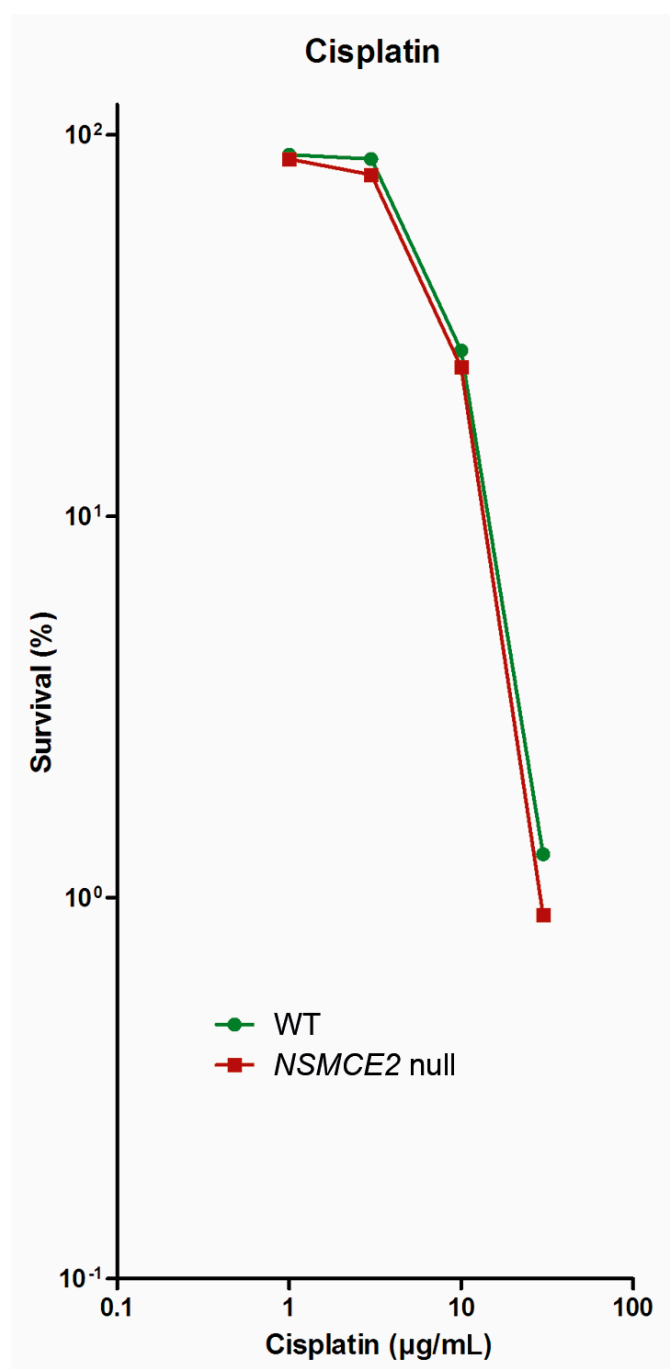


Figure S1. Clonogenic assay after increasing doses of cisplatin. No clear difference in sensitivity to cisplatin could be detected between WT and *NSMCE2* null cells.