

SUPPLEMENTARY MATERIALS

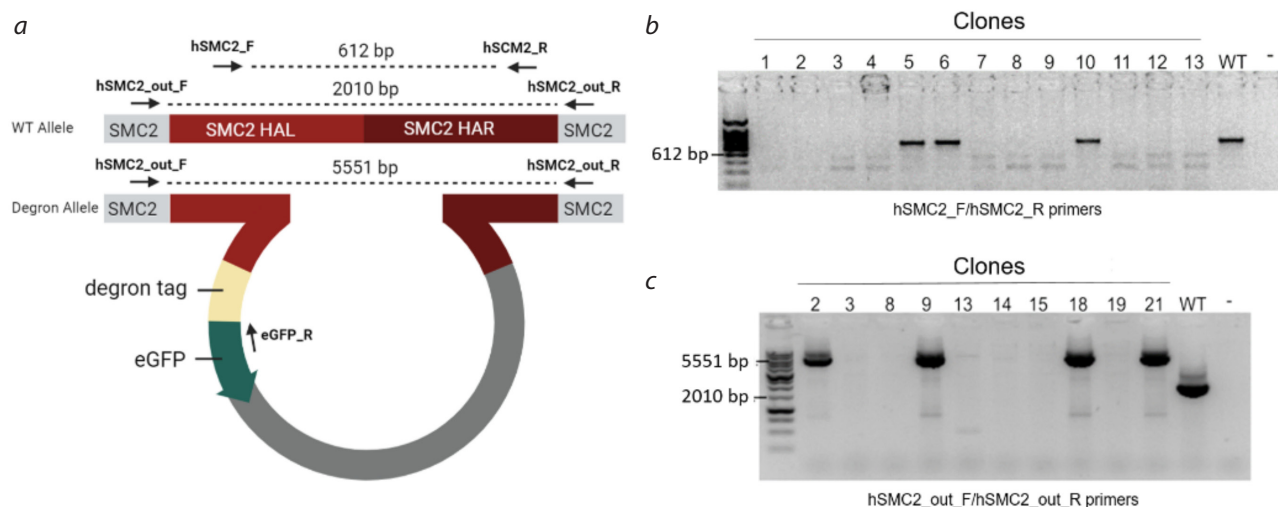
to the article A.M. Yunusova, A.V. Smirnov, I.E. Pristyazhnuk, T.A. Shnaider, E.K. Maltseva, S.D. Afonnikova, O.A. Gusev, N.R. Battulin "Assessing cell lines with inducible depletion of cohesin and condensins components through analysis of metaphase chromosome morphology"

Supplementary Material 1. Alignment of the C-terminal fragment of the *RAD21* mRNA and pseudogene *RAD21P1*. Primers annealing sites indicated.

RAD21P1 NG_022682.2
mRNA RAD21 NM_006265.3

RAD21P1	1727	AAAAGGACTCAGCAGATGCTTCACGGTCTT	CAGTGAGCTCTTGCTAAAACTGGAGCTGAA	1786
RAD21	1870	AAAAGGACTCAGCAGATGCTTCATGGTCTT	CAGCGTGCTCTTGCTAAAACTGGAGCTGAA	1929
			hRAD21_F	
RAD21P1	1787	TCTATCAGTTTGCTTGAGTTATATCAAAACACAAACAGAAAACAACTGTTGCAAAAGTTC		1846
RAD21	1930	TCTATCAGTTTGCTTGAGTTATGTGCGAATAACGAAACAGAAAACAACTGCGCGCAAAGTTC		1989
RAD21P1	1847	TACAGCTTCTTGGTTCTTAAAAAGCAGCAAGCTATTGAGCTGACACAGGAAGAACTGTAC		1906
RAD21	1990	TACAGCTTCTTGGTTCTTAAAAAGCAGCAAGCTATTGAGCTGACACAGGAAGAACCGTAC		2049
			hRAD21_F2	
RAD21P1	1907	AGTAACATCATCGCAACACCCGGGCCAAAGTTCATATTTTATGAGGAGCTAGAAGCATT		1966
RAD21	2050	AGTGACATCATCGCAACACCTGGACCAAGGTTCCATATTATATAAGGAGCTAGAAGCATT		2109
RAD21P1	1967	ATAGCTAGTGTTCAATTTCACTAGTGCTTACAAATTGCCCCCATGTGTAGGAGACACAGAA		2026
RAD21	2110	ATAGCTAGTGTTTGATTCACTAGTGCTTACAAATTGCCCCCATGTGTAGGGGACACAGAA		2169
			hRAD21_R1	
RAD21P1	2027	CCCTTTGAGAAAACCTAGATTTTTGTCTGTACAAAGTCTTTGCCTTTTTCTTTC-TCATT		2085
RAD21	2170	CCCTTTGAGAAAACCTAGATTTTTGTCTGTACAAAGTCTTTGCCTTTTTCTTTCATT		2229
RAD21P1	2086	TTTTCCAGTATATTAATTTGTCAGTTTCATCTTTGAGGGAAACTGATTAGATGGAT-G		2144
RAD21	2230	TTTTCCAGTACATTAATTTGTCATTTCACTTTGAGGGAAACTGATTAGATGGGTTG		2289
RAD21P1	2145	TGTT	2148	
RAD21	2290	TGTT	2293	

Supplementary Material 2. PCR genotyping of knockin in the *SMC2* gene



a – scheme of primer annealing for the wild-type allele and the knockin allele; **b** – results of genotyping with primers hSMC2_F-hSMC2_R. It can be seen that clones 5, 6, 10 contain the wild-type allele; **c** – genotyping results with primers hSMC2_out_F-hSMC2_out_R. It can be seen that clones 2, 9, 18, 21 contain the full-length degron allele.