

Xie et al. Supplemental Figures

Supplemental Figure 1. Alignment of human H2AX and *S. cerevisiae* H2A protein sequences.

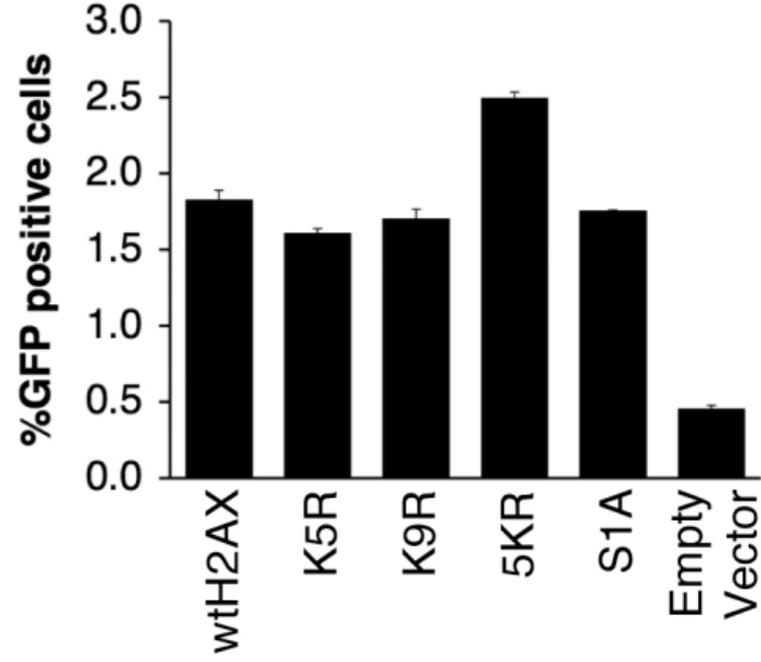
Supplemental Figure 2. Effect of H2AX mutations on HR. Percentage of I-SceI-induced GFP⁺ cells from *H2A.X*^{-/-} HR reporter mouse ES cells stably expressing H2AX mutants as indicated in **(a and b)**. Bars represent mean of triplicates. Error bars indicate s.e.m.

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Homo Sapiens: MS-GRGKTGG KARAKAKSRS SRAGLQFPVG RVHRLLRKGH YAERVGAGAP
S. cerevisiae: MSGGKGGKAG SAAKASQSRS AKAGLTFPVG RVHRLRRGN YAQRIGSGAP

Homo Sapiens: VYLAAVLEYL TAEILELAGN AARDNKKTRI IPRHLQLAIR NDEELNKLLG
S. cerevisiae: VYLTAVLEYL AAEILELAGN AARDNKKTRI IPRHLQLAIR NDDELNKLLG

Homo Sapiens: GVTIAQGGVL PNIQAVLLPK KTSATVGPKA PSGGKKATQAS QEY
S. cerevisiae: NVTIAQGGVL PNIHQNLLPK KS-A----K---AT-K----AS QEL

a**b**