

**Table S1. Strains used, related to Figure 4**

Strains were constructed using standard methods. JD47-13c and AM36 were obtained from J. Dohman (Marques et al., 2007). The final 3 residues of Blm10 were deleted by transforming with a PCR product generated using pRS406 (Brachmann et al., 1998; Longtine et al., 1998) as the template and an oligonucleotide that replaces the first tyrosine in the C-terminal ...YYA sequence with a stop codon followed by the normal 30 bp of genomic sequence found downstream of the *BLM10* gene. This inserts the URA3 gene 30 bp downstream of a C-terminally deleted allele in an otherwise normal genomic context, as confirmed by sequencing. Similar strategies were used to mark WT *BLM10* in the same position, to delete the final residue of the ORF, and to mutate the final YYA sequence to AAA.