

Supplemental Table 1. Mutator effect of *pol2rc-ΔN* is reduced 60% in strain without the catalytic subunit of pol ζ, Rev3.

Parent diploid and type of segregants	Rate of Can ^r x 10 ⁻⁷ (95% confidence interval)
YEE303r3hB/+: <i>POL2rc rev3::hph</i> segregants (n=2)*	1.5 (0.9-3.3)
YEE304r3hB/+: <i>pol2rc-ΔN rev3::hph</i> segregants (n=9)	32 (15-50)
YEE304r3hB/+: <i>pol2rc-ΔN REV3</i> segregants (n=9)	83 (61-148)

*- for each segregant, 9-18 independent cultures were used to estimate median mutation rates