

**Table 2.** Error rates of mammalian DNA polymerases

DNA polymerase	Proofreading exonuclease	Error rate $\times 10^{-5}$	
		Substitutions	-1 deletions
Pol $\delta$	Yes	$\sim 1$	2
Pol $\epsilon$	Yes	$\leq 1$	$\leq 0.5$
Pol $\gamma$	Yes	$\leq 1$	0.6
Pol $\alpha$	No	16	3
Pol $\beta$	No	67	13
Pol $\kappa$	No	580	180
Pol $\eta$	No	3500	240
Pol $\iota$	No	72,000 (T•dGTP)	—

Shown are average single base error rates per nucleotide incorporated for gap filling DNA synthesis in vitro, as measured using M13mp2 fidelity assays. For further details, see references in Kunkel et al., 2003.