

Table 1. Rates of spontaneous mutation in DNA-based microbes

Organism	Genome size, bp	Target	Mutation rate	
			Per bp (μ_{bp})	Per genome (μ_g)
Bacteriophage M13	6.41×10^3	<i>lacZα</i>	7.2×10^{-7}	0.0046
Bacteriophage λ	4.85×10^4	<i>cI</i>	7.7×10^{-8}	0.0038
Bacteriophage T2	1.60×10^5	<i>rII</i>	2.7×10^{-8}	0.0043
Bacteriophage T4	1.66×10^5	<i>rII</i>	2.0×10^{-8}	0.0033
<i>E. coli</i>	4.70×10^6	<i>lacI</i>	4.1×10^{-10}	0.0019
			6.9×10^{-10}	0.0033
		<i>hisGDCBHAFE</i>	5.1×10^{-10}	0.0024
<i>S. cerevisiae</i>	1.38×10^7	<i>URA3</i>	2.8×10^{-10}	0.0038
		<i>SUP4</i>	(7.9×10^{-9})	(0.11)
		<i>CAN1</i>	1.7×10^{-10}	0.0024
<i>N. crassa</i>	4.19×10^7	<i>ad-3AB</i>	4.5×10^{-11}	0.0019
		<i>mtr</i>	(4.6×10^{-10})	(0.019)
			1.0×10^{-10}	0.0042
			Median excluding outliers	0.0033
			Arithmetic mean excluding outliers	0.0033
			Geometric mean excluding outliers	0.0031