

SUPPLEMENTARY TABLE V

*Stimulation of hMSH2-hMSH6 ATPase activity by
A/A mismatch DNA substrates*

Each value represents the mean derived from three independent experiments

DNA Substrate*	k_{cat} min^{-1}	K_m μM	k_{cat}/K_m $M^{-1}min^{-1} (x10^{-4})$
CΔA	15.2	34.6	43.9
TΔA	12.2	30.5	40.0
CΔG	15.2	25.7	59.1
TΔG	13.9	27.4	50.7
CΔC	14.6	35.6	41.0
TΔC	13.8	29.0	47.6
CΔT	16.0	31.8	50.3
TΔT	13.2	26.8	49.3
AΔA	14.5	29.1	49.8
GΔA	17.0	34.6	49.1
AΔG	14.1	23.5	60.0
GΔG	14.3	31.1	46.0
AΔC	12.2	33.5	36.4
GΔC	12.1	20.4	59.3
AΔT	14.3	29.0	49.3
GΔT	12.1	23.7	51.1
2x 3' Pur	14.1 (+/-1.4)	29.6 (+/-3.9)	48.4 (+/-8.4)
1x 3' Pur	14.7 (+/-1.2)	30.2 (+/-4.0)	49.1 (+/-5.3)
2x 3' Pyr	12.7 (+/-1.1)	26.7 (+/-5.8)	49.1 (+/-9.4)

*Only the A strand of the A/A mismatch is shown. Duplexes where both the mismatched A and A are followed by a 3' purine are color coded **red**. Duplexes where only one of the mismatched A or A is followed by a 3' purine are color coded **green**. Duplexes where both the mismatched A and A are followed by a 3' pyrimidine are color coded **blue**. At least three independent experiments were performed with each oligonucleotide and the average and standard of deviation calculated (SD not shown for individual assays). Combined average and standard of deviation (in parenthesis) for the three grouped sequence context are shown at the bottom.