

Table S1. Correlation between the number of G-C nearest neighbors and the thermodynamic contribution to duplex stability^a

sm position^b	Number of G-C Nearest Neighbors		
	2	1	0
center			
average $\Delta G^\circ_{37,SM}$	0.32	0.48	2.09
off-center^c			
average $\Delta G^\circ_{37,SM}$	-0.05	0.28	1.09
5'-shifted			
average $\Delta G^\circ_{37,SM}$	0.37	-0.02	1.49
3'-shifted			
average $\Delta G^\circ_{37,SM}$	-0.05	0.59	0.70

^a Averages are based on the data obtained from T_M^{-1} vs. $\ln(C_T/4)$ plots for the nine complete sets. ^b The helical position of the single mismatch as described in Materials and Methods. ^c The off-center values are an average of the 5'- and 3'-shifted single mismatch data.