

Table 1

		K_D (μ M) and ΔH (kcal/mol) measured for interaction with:			
Protein	Activity (U/mg) ¹	SoxY_{C151S}Z	SoxY(SSO₃)Z	SoxY(Ac)Z	SoxY(Am)Z
SoxB _{WT} ²	1.8±0.5 ⁴	$K_D = 3$ $\Delta H = -3$	$K_D = 5$ $\Delta H = +10$	$K_D = 0.7$ $\Delta H = +10$	$K_D = 12$ $\Delta H = -3$
SoxB _{CO} ³	1.2±0.5 ⁴	ND	ND	ND	ND
SoxB _{R416G}	0.0	$K_D = 17$ $\Delta H = -4$	$K_D = 75$ $\Delta H = -2$	ND	ND
SoxB _{F205S}	1.4±0.2 ⁴	no signal	ND	$K_D > 150$ ⁵ $\Delta H = +ve$	ND
SoxB _{D207R}	1.6±0.7 ⁴	no signal	ND	ND	ND
		SoxB_{CO} ³			
SoxY(Ac)Z _{ΔZ-loop} ⁶	-	$K_D = 0.4$ $\Delta H = +8$			
SoxYZ _{Δcarrier arm} ⁷	-	$K_D = 100-150$ ⁵ $\Delta H = -6$			

Table 1. Thermodynamics of the SoxB-SoxYZ interaction. ND, not determined.¹ Measured as trithionate hydrolysis.² SoxB produced from the native *soxB* gene.³ SoxB produced from a codon optimised *soxB* gene. The parental protein of the variants used in this study.⁴ 95% confidence limits.⁵ K_D values over 100 μ M could not be accurately fitted.⁶ SoxZ residues 29-46 corresponding to the Z-loop replaced with Gly-Ser-Gly.⁷⁷ An 8 residue C-terminal truncation of SoxY that removes the carrier arm.