

Supporting Table 3. Thermodynamic parameters of Mn²⁺ binding to the wild type MntC and MntC-pLH94. N – interaction stoichiometry, K_a – association constant, ΔH – enthalpy change upon binding, ΔS – entropy change upon binding, K_d – dissociation constant

	Wt-MntC	MntC-pLH94
N	0.45	0.56
K_a, M⁻¹	(2.4±0.8)×10 ⁷	(4.5±1.1)×10 ⁷
ΔH, kcal/mol	-7.8±0.1	-7.6±0.1
ΔS,(cal/mol) °C⁻¹	-23.4	-28.3
K_d, nM	42	22