

SI Table 1. Effect of mutations in the P protein subunit on the affinity of *B. subtilis* RNase P holoenzyme for G(-4) pre-tRNA^{Asp}.

Protein	$K_{D, obs}$ (nM) ^a	
	3.5 mM [Ca ²⁺] _f	Protein / Wild type
Wild Type	11 ± 3	1
K12C	61 ± 8	6
D15C	9 ± 3	1
F16C	285 ± 60	25
F20C	> 300	> 27
S25C	14 ± 6	1
A27C	50 ± 18	5
V32C	65 ± 15	6
Q38C	12 ± 5	1
R45C	120 ± 60	11
S49C	150 ± 50	14
S51C	85 ± 15	8
A57C	12 ± 3	1
R62C	110 ± 10	10
R68C	> 300	> 27
A70C	20 ± 7	1
I86C	105 ± 35	10
R88C	25 ± 8	1

^a Conditions: 50 mM MES, 50 mM Tris, pH 6.0, 37°C, indicated [Ca²⁺]_f. [KCl] was adjusted to maintain ionic strength as described in Materials and Methods.