Table S1. Thermodynamic parameters of ctelF5B(517-858) binding to GTP γ S, GDPNP

and GDP at different temperatures.

Ligand	Т	K _d	ΔΗ	ΔG	TΔS
	[°C]	$[\mu M]$	[kcal/mol]	[kcal/mol]	[kcal/mol]
	10			-8.06	
GTPγS					
0 10					
		0.58	-5.06		3.0
	20			-8.27	
GTPγS					
OTT YO					
		0.67	-9.67		-1.4
	25			-8.83	
GTPγS					
OTT YO					
		0.82	-12.93		-4.1
	30			-8.41	
GTPγS					
1					
		0.92	-15.81		-7.4
GDPNP	10	10.67	-5.89	-6.44	0.55
GDPNP	15	12.3	-7.31	-6.48	-0.83
GDPNP	20	15.47	-8.09	-6.49	-1.6
GDPNP	25	15.0	-9.58	-6.68	-2.9
GDPNP	30	20.8	-9.67	-6.47	-3.2
GDP	10	3.37	-6.94	-7.09	0.15
GDP	20	5.85	-9.06	-7.76	-2.3
GDP	30	10.4	-11.51	-6.91	-4.6

Measurements were performed two to three times.

 K_d , dissociation equilibrium constant; calculated as $1/K_a$.

 K_a , association equilibrium constant; standard deviation did not exceed $\pm 15\%$.

 $[\]Delta H,$ standard enthalpy change; standard deviation did not exceed ±15%.

 ΔG , Gibbs energy; calculated from equation ΔG = $- R \cdot T \cdot ln K_a$.

T Δ S, standard entropy change; calculated from equation Δ G = Δ H - T Δ S.