

Table S3. *In silico* predicted Ss-LrpB binding sites (using the binding energy position weight matrix) in regions upstream of *S. solfataricus* P2 ORFs (200 bp upstream of ORF start) with a theoretical K_D lower than 5 μ M. Theoretical K_D s are calculated based on the binding energy position weight matrix. Ranking is according to predicted binding affinity. N.A. = not applicable.

Locus tag	Gene name	Predicted binding motif	Position (with respect to start codon)	Theoretical K_D (nM)	Binding detected <i>in vivo</i>	Binding tested and detected <i>in vitro</i>
Sso0818	N.A.	5'-TTGCAAATTTTTCAA-3'	-160	426		
Sso0902	N.A.	5'-TTGCAGAATATGCAA-3'	-156	845		
Sso7114	<i>rps27E</i>	5'-TTGCAAAAAGTTACAA-3'	-112	917		
Sso0903	N.A.	5'-TTGCATATTCTGCAA-3'	-183	1010		
Sso0172	N.A.	5'-CTGCACTATTTGCAA-3'	-101	1244		
Sso2128	<i>porD</i>	5'-TTGCACATTTTGCCA-3'	-115	1570	x	x
Sso0694	<i>adkA</i>	5'-TTGCAGTATTTGCTA-3'	-151	1579		
Sso2131	<i>Ss-LrpB</i>	5'-TTGCAAAAATTATCAA-3'	-112	1670	x	x
Sso2127	N.A.	5'-TTGCATTTTATGCAA-3'	-104	1768	x	x
Sso2266	<i>mcmA2</i>	5'-GTGCAATTATTGCAA-3'	-156	2470		
Sso0628	<i>purQ</i>	5'-TTGAAAAAATTGCCA-3'	-73	3084		
Sso0523	N.A.	5'-GTGCCAAATTTGCAA-3'	-95	3218		
Sso0049	N.A.	5'-TTGTAATTTTTCAA-3'	-72	3309		x
Sso2912	<i>sat</i>	5'-GTGCAAAATTTGCAC-3'	-58	3469		
Sso0036	N.A.	5'-CAGAAAAAATTGCAA-3'	-111	3470		
Sso0035	N.A.	5'-TTACAAATTTTTCAA-3'	-196	3529		
Sso2370	N.A.	5'-ATGCAACTATTGCAG-3'	-198	3545		
Sso0483	N.A.	5'-TTGCAGCAAATGCAA-3'	-174	3647		
Sso0448	<i>hisC</i>	5'-ATGCAATAACTGCAA-3'	-187	3767		
Sso0639	<i>argH</i>	5'-CTGAAAAAATTGCTA-3'	-70	3777		
Sso2438	N.A.	5'-CTGCAATATATGCAT-3'	-130	3788		
Sso2813	N.A.	5'-TTGCAAGACGTGCAG-3'	-148	3854		
Sso2911	<i>cysH</i>	5'-GTGCAATTTTGCAC-3'	-57	4136		
Sso0002	<i>thiD-1</i>	5'-TAGTAAGACTTGCAG-3'	-138	4467		
Sso2343	<i>mtaP</i>	5'-TTGCAACTATTACAT-3'	-196	4509		x
Sso01	N.A.	5'-AGGCAATATTTGCAG-3'	-113	4544		
Sso2070	<i>acsA-7</i>	5'-CAGCAAATGCTGCAA-3'	-153	4547		
Sso5561	<i>rps17E</i>	5'-CTGTAATAATTGCAG-3'	-195	4644		

<i>Sso0441</i>	N.A.	5'-TTGCAATAATTTTCAT-3'	-196	4680		
<i>Sso1079</i>	N.A.	5'-ATGCAAAAATTGTAA-3'	-145	4719		
<i>Sso2669</i>	N.A.	5'-TAACAAATATTGCAA-3'	-155	4738		