

**Table S4. Functional properties of reconstructed RNA regulons in *B. subtilis* and related Bacillales.**

RNA element	<i>Bacillus subtilis</i> sstr. 168	<i>Bacillus amyloliquefaciens</i> FZB42	<i>Bacillus pumilus</i> SAFR-032	<i>Bacillus licheniformis</i> DSM 13	<i>Anoxybacillus flavithermus</i> WK1	<i>Geobacillus kaustophilus</i> HTA426	<i>Bacillus cereus</i> ATCC 14579	<i>Bacillus halodurans</i> C-125	<i>Bacillus clausii</i> KSM-K16	<i>Oceanobacillus iheyensis</i> HTE831	<i>Paenibacillus</i> sp. JDR-2	Functional role	Effector	Effector Evidence (PMID)
<b>Cobalamin</b>	4	0	1	1	35	34	1	16	1	0	14	Cobalamin metabolism	adenosylcobalamin	17038623
<b>FMN</b>	6	6	5	6	5	6	5	5	4	4	5	Riboflavin biosynthesis	flavin mononucleotide	12456892, 12464185
<b>glmS</b>	1	1	1	1	1	1	1	1	1	1	1	Hexosamine metabolism	glucosamine-6-phosphate	15029187
<b>Glycine</b>	3	4	4	3	3	3	1	3	3	3	0	Glycine cleavage system	glycine	15472076
<b>L10_leader</b>	2	2	2	2	2	2	2	2	2	2	2	Ribosome biogenesis		
<b>L13_leader</b>	2	2	2	2	2	2	2	0	0	2	0	Ribosome biogenesis		
<b>L19_leader</b>	1	1	1	1	1	1	1	1	1	1	0	Ribosome biogenesis		
<b>L20_leader</b>	3	3	0	3	3	0	3	3	3	3	3	Ribosome biogenesis		
<b>L21_leader</b>	3	3	3	3	3	3	3	3	3	3	3	Ribosome biogenesis		
<b>Lysine</b>	2	2	2	2	1	1	4	4	2	2	1	Lysine biosynthesis	lysine	14523230
<b>PreQ1</b>	4	4	4	4	3	4	5	4	5	5	4	Nucleoside queuosine biosynthesis	pre-queuosine <sub>1</sub>	17384645
<b>Purine</b>	17	17	16	16	16	14	20	17	15	16	17	Purine salvage and biosynthesis	guanine, adenine	14718920
<b>PyrR</b>	10	10	10	10	10	11	11	10	10	10	7	Pyrimidine biosynthesis and transport	PyrR	12896995
<b>SAM</b>	26	25	25	25	17	24	45	10	18	25	3	Methionine and cysteine biosynthesis	S-Adenosyl methionine	16810258, 18205390
<b>T-box(Ala)</b>	1	1	1	1	1	1	1	1	1	1	0	Ala-specific metabolism	Ala-tRNA	17384645
<b>T-box(Asn)</b>	2	2	0	2	2	0	2	2	2	0	0	Asn-specific metabolism	Asn-tRNA	12464185
<b>T-box(Asp)</b>	2	2	2	2	2	2	2	2	2	3	2	Asp-specific metabolism	Asp-tRNA	
<b>T-box(Gly)</b>	2	2	2	2	1	1	0	2	0	2	2	Gly-specific metabolism	Gly-tRNA	
<b>T-box(Ile)</b>	1	1	1	1	1	1	8	1	1	10	1	Ile-specific metabolism	Ile-tRNA	
<b>T-box(Leu)</b>	9	9	10	9	8	8	2	8	8	3	7	Leu-specific metabolism	Leu-tRNA	
<b>T-box(Phe)</b>	2	2	2	2	2	2	2	2	2	2	2	Phe-specific metabolism	Phe-tRNA	
<b>T-box(Pro)</b>	3	3	4	3	3	3	1	3	3	4	4	Pro-specific metabolism	Pro-tRNA	
<b>T-box(Ser)</b>	1	1	1	1	1	1	1	2	2	1	1	Ser-specific metabolism	Ser-tRNA	

<b>T-box(Thr)</b>	2	1	2	2	1	1	7	1	2	1	2	Thr-specific metabolism	Thr-tRNA	
<b>T-box(Trp)</b>	3	1	1	3	1	1	9	1	1	8	2	Trp-specific metabolism	Trp-tRNA	
<b>T-box(Tyr)</b>	2	1	1	2	1	1	10	1	1	2	1	Tyr-specific metabolism	Tyr-tRNA	
<b>T-box(Val)</b>	1	1	1	1	1	1	1	1	1	1	0	Val-specific metabolism	Val-tRNA	
<b>TPP</b>	14	18	13	13	13	10	19	8	12	13	10	Thiamine biosynthesis	thiamine pyrophosphate	17355861
<b>ydaO-yuaA</b>	3	1	2	2	0	6	5	2	0	3	11	Cell wall metabolism and osmoprotection	ATP	23086297
<b>ykkC-yxkD</b>	3	3	2	3	0	0	0	2	2	2	2	Multidrug resistance		
<b>ykoK</b>	1	1	1	1	0	0	0	5	1	0	0	Magnesium uptake	magnesium	15096624
<b>ylbH</b>	2	2	2	2	2	2	2	2	0	2	2	Hypothetical		
<b>yybP-ykoY</b>	2	1	2	2	1	2	3	1	2	2	0	Hypothetical		

Number of target operons is indicated for each RNA regulon