Additonal File 3. Distribution of RNA motifs in microbial genomes.

Taxonomic collection	Geno-mes	Group A - Widely distributed RNA motifs					Group B Moderately distributed RNA motifs													Group C Phylogenetically restrictive RNA motifs																	Group D Ribosomal operon leaders						Group E - a.a. operon leaders				Group F T-boxes
		TPP	Cobalamin	Glycine	FMN	yybP-ykoY	SAM	Lysine	Purine	PyrR	GEMM	MOCO	PreQ1	ydaO-yuaA	mini-ykkC	ykkC-yxkD	glmS	ykoK	SAH	THF	ylbH	preQ1-II	sucA	Mg sensor	SAM-IV	SAM alpha	SAM-SAH	SAM Chlorobi	Smk box	serC	speF	ybhL	glnA	S15	L10	L20	L21	L19	L13	Trp	His	Leu	Thr	*T-boxes
Lactobacillaceae	15	36	1	0	19	13	2	25	18	49	0	0	9	0	0	2	1	10	0	8	0	3	0	0	0	0	0	0	13	0	0	0	0	9	15	15	15	14	13	0	0	0	0	291
Streptococcaceae	15	23	0	18	19	15	0	4	11	54	0	0	2	0	0	0	0	5	0	4	0	14	0	0	0	0	0	0	0	0	0	0	0	15	15	15	15	13	15	0	0	0	0	143
Bacillales	11	47	18	22	20	16	98	23	49	31	9	0	15	18	0	11	11	7	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	11	9	11	10	8	0	0	0	0	214
Staphylococcaceae	7	30	0	8	14	7	40	15	7	13	0	0	13	0	0	1	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7	6	7	7	0	0	0	0	99
Clostridiaceae	20	62	50	52	38	35	72	38	41	45	29	6	23	18	0	11	17	10	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	3	19	9	15	17	0	0	0	0	0	337
Bacteroidaceae	11	19	65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chlorobiales	11	11	34	0	2	0	14	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Corynebacteriaceae	8	23	6	4	3	10	1	0	0	6	0	0	0	5	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	3	0	0	0	0	3	0	0	0	8
Mycobacteriaceae	9	22	21	19	0	13	0	0	0	8	0	0	0	9	0	3	0	9	6	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	7
Cyanobacteria	14	14	20	0	0	4	2	0	0	0	6	0	0	8	1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	11	0	1	0	0	0	0	0	0	0
Chloroflexi	5	14	13	6	8	5	14	0	0	3	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	25
Deinococcus-Therm	5	10	12	0	5	5	9	0	0	2	3	1	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	10
Thermotogales	11	16	20	0	8	1	1	9	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	10	4	0	0	3	1	0	0	0
Desulfovibrionales	10	21	23	6	10	7	4	0	0	0	5	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caulobacterales	4	4	7	11	1	4	0	0	0	0	0	1	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rhodobacterales	15	30	48	31	7	1	0	0	0	0	0	1	1	0	10	3	0	0	0	0	0	0	0	0	0	14	13	0	0	14	0	0	0	9	0	0	0	0	0	0	0	0	0	0
Rhizobiales	15	30	57	36	12	3	0	0	0	0	0	0	0	0	12	7	0	0	0	0	0	0	0	0	0	25	0	0	0	14	12	8	0	0	0	0	0	0	0	5	0	0	0	0
Burkholderia	8	18	38	20	9	12	0	0	0	0	0	0	0	0	9	5	0	0	8	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ralstonia	6	6	7	22	6	8	0	0	0	0	1	0	0	0	2	2	0	0	6	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Enterobacteriales	12	38	16	2	12	21	0	5	0	0	1	12	0	0	10	1	0	5	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	12	12	12	12	0
Pasteurellales	9	20	0	18	9	0	0	10	0	0	0	12	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	3	0	0	0	0	0	9	5	7	0
Vibrionales	10	30	13	20	8	22	0	22	6	0	15	10	0	0	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	3	0	0	0	0	10	10	10	10	0
Pseudomonadaceae	8	9	33	2	8	11	0	0	0	0	0	0	0	0	8	6	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0
Shewanella	16	31	34	27	15	19	0	35	7	0	20	16	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	16	16	16	16	0
TOTAL	255	564	536	324	233	232	257	186	141	211	89	62	72	59	67	58	44	48	27	23	10	17	14	5	13	39	13	11	13	32	12	8	13	98	108	75	67	61	43	49	48	43	45	1134
number of regulogs	24	24	21	18	21	21	11	10	8	9	9	10	7	6	11	12	6	8	4	3	1	2	2	1	1	2	1	1	1	3	1	1	1	10	13	6	7	5	4	6	5	4	4	9

*T-boxes	Geno-mes	Ala	Arg	Asn	Asp	Cys	Gly	His	Ile	Leu	Lys	Met	Phe	Pro	Ser	Thr	Trp	Tyr	Val
Lactobacillaceae	15	15	14	13	16	1	15	4	28	16	1	54	15	3	15	16	15	29	21
Streptococcaceae	15	15	0	3	2	0	15	7	15	0	0	2	15	0	15	15	24	0	15
Bacillales	11	10	2	8	5	11	9	0	16	29	7	6	11	21	13	20	17	19	10
Staphylococcaceae	7	7	7	7	0	7	7	0	7	7	0	8	6	0	7	9	6	8	6
Clostridiaceae	20	20	21	24	4	21	10	3	29	30	1	19	22	16	16	22	41	16	22
Bacteroidaceae	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chlorobiales	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Corynebacteriaceae	8	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0
Mycobacteriaceae	9	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0
Cyanobacteria	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chloroflexi	5	0	0	0	0	0	5	0	5	0	0	0	2	1	2	4	5	0	1
Deinococcus-Therm	5	0	0	0	0	0	3	0	5	0	0	0	0	0	0	0	0	0	2
Thermotogales	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Desulfovibrionales	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caulobacterales	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rhodobacterales	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rhizobiales	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Burkholderia	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ralstonia	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Enterobacteriales	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pasteurellales	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vibrionales	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pseudomonadaceae	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shewanella	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Note: riboswitches are arranged according to abundance and substrate types.
Number of lineages indicates the number of taxa in which a riboswitch can be found.