

**Table S4. Distribution of putative toxin-antitoxin (TA) systems within the rickettsial OGs predicted by OrthoMCL\*.**

TA System	Toxin	RiOG no.	Distribution										Antitoxin	RiOG no.	Distribution										
			Br	Bo	Ca	Pr	Ty	Ak	Fe	Ri	Co	Si			Br	Bo	Ca	Pr	Ty	Ak	Fe	Ri	Co	Si	
<i>relBE</i>	RelE	1992	1	1	0	0	0	0	0	0	0	0	0	RelB/DinJ	1153	0	0	0	0	0	0	1	1	1	1
		1251	1	1	0	0	0	1	1	0	0	0	1169		0	0	0	0	0	0	1	1	1	1	
		3672	0	0	0	0	0	0	1	0	0	0	StbD		1273	0	0	0	0	0	0	1	1	0	1
		1262	1	1	0	0	0	1	1	0	0	0	1256		1	1	0	0	0	1	1	0	0	0	
		3832	0	0	0	0	0	0	1	0	0	0	1118		0	0	0	0	0	1	1	1	1	1	
	RelE/StbE	1560	0	0	0	0	0	0	2	0	0	0	StbD-like		977	1	1	0	0	0	1	1	1	1	1
		1487	0	0	1	0	0	1	1	0	0	0	2056		0	0	0	0	0	1	1	0	0	0	
													Txe/YoeB		2069	0	0	0	0	0	1	1	0	0	0
													1864		0	0	0	0	0	0	1	0	0	0	
													975		1	1	0	0	0	1	1	1	1	1	
<i>phd/doc</i>	Doc												Phd	1446	1	1	0	0	0	0	1	0	0	0	
														1352	0	0	0	0	0	0	1	0	1	1	
														965	1	1	0	0	0	1	1	1	1	1	
														1084	1	1	0	0	0	0	0	1	1	1	
														1427	1	1	0	0	0	0	1	0	0	0	
														1408	1	1	0	0	0	0	1	0	0	0	
														1470	1	1	0	0	0	1	0	0	0	0	
														1037	1	1	0	0	0	1	0	1	1	1	
														3220	0	0	0	0	0	0	1	0	0	0	
		<i>vapBC/vag</i>	VapC	1036	1	1	0	0	0	1	0	1		1	1	VapB	941	1	1	1	0	0	0	1	1
870	1			1	1	0	0	1	1	1	1	1													
PDP	1435		1	1	0	0	0	0	1	0	0	0													
	1135		0	0	?	0	0	1	1	1	1	1													
	1004		1	1	0	0	0	0	1	1	1	1													
	2066		0	0	0	0	0	1	1	0	0	0													
	1466		1	1	0	0	0	1	0	0	0	0													
	1266		1	1	0	0	0	1	1	0	0	0													
<i>mazEF</i>	mazF	1243	1	1	0	0	0	1	1	0	0	0													
	PemK-like	1087	1	1	0	0	0	0	0	1	1	1													
<i>parDE</i>	ParE												ParD	1240	1	1	0	0	0	1	1	0	0	0	

\* Following the seven typical TA gene families categorized by Gerdes et al. (2005).