

**Table S12. Singletons present in the *R. rickettsii* str. Sheila Smith CWPP genome.**

<b>RiOG</b>	<b>Annotation (153)<sup>1</sup></b>	<b>Size<sup>2</sup></b>
2252	30S ribosomal protein S1	149
2288	AAA+ superfamily protein	64
2898	ABC-type multidrug transport system, ATPase and permease components	76
2709	Acetoacetyl-CoA reductase	53
2236	Ankyrin repeat	31
2668	Ankyrin repeat	49
3057	Ankyrin repeat	88
2128	Conserved hypothetical protein	105
3420	Conserved hypothetical protein	85
3380	Dihydrofolate reductase FoaA	45
2681	Hypothetical protein, conserved	66
3334	Hypothetical protein, conserved	39
2426	methylated-DNA-[protein]-cysteine S-methyltransferase	52
3393	MFS type sugar transporter	58
2251	plasmid maintenance system antidote protein	46
3200	Poly-beta-hydroxyalkanoate depolymerase	36
3304	Prophage antirepressor	46
3088	Pyrrroquinoline quinone (Coenzyme PQQ) biosynthesis protein C	37
3299	Rickettsial palindromic element (RPE) domain	50
2395	S-adenosylmethionine synthetase	64
3125	similarity to methylated-DNA--protein-cysteine methyltransferase	41
3326	sodium/pantothenate symporter	67
2612	Superfamily I DNA and RNA helicase	97
2921	Vegetative cell wall protein gp1 precursor	63
	<b>Avg.</b>	<b>62.79</b>

<sup>1</sup> Including 129 singleton HPs, with average length of 52.02 amino acids.

<sup>2</sup> Length in amino acids of predicted ORF.