

**Table S14. Singletons present in the *R. sibirica* str. 246 genome.**

<b>RiOG</b>	<b>Annotation (114)<sup>1</sup></b>	<b>Size<sup>2</sup></b>
2241	Acetyltransferase	26
2487	COG0666: FOG: Ankyrin repeat	75
2440	COG1835: Predicted acyltransferases	82
2772	ComEC/Rec2-related protein	43
3486	Competence protein F	38
2279	Glycosyltransferase	34
2365	Heme exporter protein A	34
2776	Lipid A export ATP-binding/permease protein msbA	65
2261	Os02g0189700	79
2181	Periplasmic divalent cation tolerance protein	43
2285	Probable tRNA-dihydrouridine synthase	82
3126	Proline/betaine transporter	41
3134	Rickettsial palindromic element (RPE) domain	48
3437	S-adenosylmethionine synthetase	69
2419	similarity to cell surface antigen	113
2243	similarity to methylated-DNA--protein-cysteine methyltransferase	46
2305	similarity to type I restriction enzyme restriction subunit	45
2918	Vegetative cell wall protein gp1 precursor	59
2137	Hypothetical protein, conserved	58
2780	Hypothetical protein, conserved	36
3534	Hypothetical protein, conserved	74
	<b>Avg.</b>	<b>56.67</b>

<sup>1</sup> Including 93 singleton HPs, with average length of 45.06 amino acids, and one false singleton.

<sup>2</sup> Length in amino acids of predicted singleton ORFs; lengths of false singletons not applicable.