Table S3. OGs present only in the *R. bellii* genomes.

OG ¹	Annotation (312) ²
1848	Angiopoietin-1 precursor
1783	ATPase (AAA+ superfamily)-like
1768	ATP-dependent Clp protease proteolytic subunit
1789	ATP-dependent Clp protease proteolytic subunit
1797	Bifunctional penicillin-binding protein 1C
1996	Caldesmon
1713	Cassette chromosome recombinase B
1948	COG0477: Permeases of the major facilitator superfamily
1773	Deoxyribodipyrimidine photo-lyase
1817	DNA-cytosine methyltransferase
1998	Ethylene receptor 2
1712	F-box/LRR-repeat protein 13
1759	Filamentation induced by cAMP protein Fic
1920	Glycoprotein X precursor
1876	Guanosine polyphosphate pyrophosphohydrolase/synthetase
1869	Guanosine-3',5'-bis(diphosphate) 3'-pyrophosphohydrolase
1440	GTP pyrophosphokinase
2024	Heavy metal tolerance protein precursor
1771	Inversin
1718	Inversin-B
1842	Methionyl-tRNA synthetase
1988	methyltransferase, FkbM family
1932	Myosin heavy chain, non-muscle
1813	O-acetyl transferase
1971	·
1764	peptide deformylase phenylalanine-4-hydroxylase
2019	Phenylserine dehydratase
1757	Poly-beta-hydroxybutyrate polymerase
1973	PREDICTED: retinoblastoma binding protein 9
1865	Putative hemagglutinin protein
1933	Quaternary ammonium compound-resistance protein sugE
1860	rare lipoprotein A precursor
1735	Restriction endonuclease S subunits
1804	Restriction modification system DNA specificity domain
1815	Ribosomal protein L11 methyltransferase
1776	Sulfatase
1767	Type I restriction enzyme EcoR124II M protein
1707	Type I restriction-modification system methyltransferase subunit
1976	Type I restriction-modification system methyltransferase subunit
1725	Type I site-specific restriction-modification system, R (restriction) subunit
1812	UvrABC system protein C
1833	probable ABC transporter nitrate permease
1907	ABC transporter ATP-binding protein Uup, erythromycin resistance
1818	ABC-type anion transport system permease component
1944	sodium/pantothenate symporter
1965	Citrate-proton symporter
1845	MFS type sugar transporter
1955	MFS type sugar transporter
2007	MFS type sugar transporter
1969	multidrug resistance protein B
1835	Reticulocyte-binding protein 1 precursor
1000	reliculocyte-billianing protein i precuisor

1734	Outer membrane protein A precursor
1753	Ankyrin repeat
1772	Ankyrin repeat
1808	Ankyrin repeat
1875	Ankyrin repeat
1958	Ankyrin repeat
1962	Ankyrin repeat domain-containing protein 1
1939	Ankyrin repeat domain-containing protein 18A
1798	Ankyrin repeat domain-containing protein 28
1897	Ankyrin repeat domain-containing protein 36A
1979	Ankyrin repeat domain-containing protein 44
1830	Tetratricopeptide repeat-containing protein
1861	Tetratricopeptide repeat-containing protein
1926	Tetratricopeptide repeat-containing protein
1726	LexA repressor
1715	transcription regulator containing helix turn helix domain
1992	Cytotoxic translational repressor of toxin-antitoxin system RelE
2014	Transcriptional activator protein yukR
1828	transcriptional regulator, AbrB family
1896	transcriptional regulator, AbrB family
1800	Caspase recruitment domain-containing protein 15
1914	Caspase recruitment domain-containing protein 15
1982	Caspase recruitment domain-containing protein 15
2009	Caspase recruitment domain-containing protein 15
1820	Prophage antirepressor
<u>7</u>	Pilin gene-inverting protein
1791	type-F conjugative transfer system pilin assembly protein TrbC
1814	Conjugative transfer protein TraE
1741	F pilus assembly protein TraF
1792	F pilus assembly protein TraH
1748	TraU
1852	Conjugative transfer protein TraV
1849	type-F conjugative transfer system protein TraW
1870	F pilin acetylation protein TraX
1912	Chitinase
1858	Transposase and inactivated derivative
1942	Transposase and inactivated derivative
1850	similar to transposase
<u>8</u>	similar to transposase
<u>1091</u>	similar to transposase
<u>935</u>	similar to transposase
937	similar to transposase
942	similar to transposase
1868	conserved hypothetical protein
1946	conserved hypothetical protein
1827	Hypothetical protein, conserved

Underscored RiOGs depict non-representative OGs.
Including 222 representative HPs and two non-representative HPs.