

## Supplementary Materials

**Table S1.** Overview of annotated genes with the respective product, pathway, and locus tags for 'Ca. P. rubi' RS and orthologs in 'Ca. P. vitis' CH and 'Ca. P. ziziphi' strains.

			'Ca. P. rubi'	'Ca. P. vitis'	'Ca. P. ziziphi'	'Ca. P. ziziphi'
			RS	CH	Jwb-nky	Hebei-2018
Product	Gene	Pathway/transport	Locus tags			
Sucrose phosphorylase	<i>sucP</i>	Glycolysis	RS022_03900	M6G77_01020	CWO85_02970	L6W10_RS03625
Glucose-6-phosphate isomerase	<i>pgi</i>		RS022_08360	M6G77_00205	CWO85_01610	L6W10_RS01430
6-phosphofructokinase	<i>pfkA</i>		RS022_07760	M6G77_00485	CWO85_02260	L6W10_RS00790
Fructose-bisphosphate aldolase	<i>fba</i>		RS022_07730	M6G77_00500	CWO85_02275	L6W10_RS00775
Glyceraldehyde 3-phosphate dehydrogenase	<i>gapN</i>		RS022_07740	M6G77_00495	CWO85_02270	L6W10_RS00780
Phosphoglycerate kinase	<i>pgk</i>		RS022_07750	M6G77_00490	CWO85_02265	L6W10_RS00785
2,3-bisphosphoglycerate-independent phosphoglycerate mutase	<i>gpmI</i>		RS022_07770	M6G77_00480	CWO85_02255	L6W10_RS00795
Enolase	<i>eno</i>		RS022_07780	M6G77_00475	CWO85_02250	L6W10_RS00800
Pyruvate kinase	<i>pyk</i>		RS022_02410	M6G77_00805	CWO85_02800	L6W10_RS00130
Glycerol-3-phosphate dehydrogenase	<i>gpsA</i>		RS022_03040	M6G77_01970	CWO85_00265	L6W10_RS02840
Triosephosphate isomerase	<i>tpiA</i>		RS022_02710	M6G77_00740	CWO85_02750	L6W10_RS0018
L-lactate dehydrogenase	<i>ldh</i>	Malate/Lactate Pathway	RS022_02750	M6G77_00765	CWO85_02735	L6W10_RS00200
Malate dehydrogenase (oxaloacetate-decarboxylating)	<i>scfA</i>		RS022_00350	M6G77_00030	CWO85_01430	L6W10_RS01635
Pyruvate dehydrogenase E1 component alpha subunit	<i>pdhA</i>	Acetyl CoA / Acetate	RS022_04140	M6G77_01140	-	L6W10_RS03175
Pyruvate dehydrogenase E1 component beta subunit	<i>pdhB</i>		RS022_04150	M6G77_01145	-	-
Pyruvate dehydrogenase E2 component of pyruvate	<i>pdhC</i>		RS022_04170	M6G77_01155	-	L6W10_RS03190

dehydrogenase complex						
Dihydrolipoamide dehydrogenase of pyruvate dehydrogenase complex	<i>pdhD</i>		RS022_04180	M6G77_01160	-	L6W10_RS03195
Phosphotrans-acetylase NEW: Phosphate acetyltransferase	<i>pta</i>		RS022_08060	M6G77_00335	CWO85_01945	L6W10_RS01090
Acetate kinase	<i>ackA</i>		RS022_04090	M6G77_01115	-	L6W10_RS03150
Dihydroxyacetone kinase subunit K	<i>dhaK</i>	Glycerophospholipid metabolism	RS022_02860	M6G77_02075	CWO85_00355	L6W10_RS02750
Cdp-diacylglycerol-glycerol-3-phosphate 3-phosphatidyltransferase	<i>pgsA</i>		RS022_04040	M6G77_01100	-	L6W10_RS03135
Glycerol-3-phosphate acyltransferase	<i>plsY</i>		RS022_03090	M6G77_01945	CWO85_00240	L6W10_RS02865
1-Acyl-Sn-glycerol-3-phosphate acyltransferase	<i>plsC</i>		RS022_04130	M6G77_01135	-	L6W10_RS03170
Phosphatidate cytidyltransferase	<i>cdsA</i>		RS022_02840	M6G77_02085	CWO85_00365	L6W10_RS02740
Cdp-diacylglycerol-serine O-phosphatidyltransferase	<i>pssA</i>		RS022_08730	M6G77_02545	CWO85_00550	L6W10_RS02590
Phosphatidylserine decarboxylase	<i>psd</i>		RS022_08720	M6G77_02540	CWO85_00555	L6W10_RS02585
Holo-[acyl-carrier protein] synthase	<i>acpS</i>		RS022_04210	M6G77_01175	CWO85_03535	L6W10_RS03210
Phosphate acyltransferase	<i>plsX</i>		RS022_08670	M6G77_02515	CWO85_00580	L6W10_RS02560
peptide ABC transporter permease protein	<i>ABC.PE.P</i>	Peptide ABC transporter	-	-	CWO85_01295	L6W10_RS01765
peptide ABC transporter permease protein	<i>ABC.PE.P1</i>		-	-	CWO85_01300	L6W10_RS01760
peptide ABC transporter ATP binding protein	<i>ddpD</i>		-	-	CWO85_01290	L6W10_RS01770
peptide ABC transporter ATP binding protein	<i>ddpF</i>		-	-	CWO85_01285	L6W10_RS01775
peptide ABC transporter substrate binding protein	<i>ABC.PE.S</i>		-	-	CWO85_01305	L6W10_RS01755
			-	-	CWO85_01310	L6W10_RS01750

metal/zinc ABC transporter substrate binding protein	<i>troA</i>	Zn <sup>2+</sup> , Mn <sup>2+</sup> , Fe <sup>2+</sup> ABC transporter	RS022_08970	M6G77_02640	CWO85_00460	L6W10_RS02665
metal/zinc ABC transporter ATP binding protein	<i>troB</i>		RS022_08980	M6G77_02645	CWO85_00455	L6W10_RS02670
metal/zinc ABC transporter permease	<i>troC</i>		RS022_09000	M6G77_02650	CWO85_00450	L6W10_RS02675
metal/zinc ABC transporter permease	<i>troD</i>		RS022_09010	M6G77_02655	CWO85_00445	L6W10_RS02680
carbohydrate ABC transporter ATPase	<i>malK</i>	Multiple sugar ABC transporter	RS022_00670	M6G77_00185	CWO85_01630	L6W10_RS01410
			-	M6G77_01390	-	-
carbohydrate ABC transporter permease	<i>malF</i>		RS022_00660	M6G77_00180	CWO85_01635	L6W10_RS01405
			-	M6G77_01385	-	-
carbohydrate ABC transporter permease	<i>malG</i>		RS022_00650	M6G77_00175	CWO85_01640	L6W10_RS01400
			-	M6G77_01380	-	-
carbohydrate ABC transporter substrate binding protein	<i>malE</i>		RS022_00640	M6G77_00170	CWO85_01645	-
			-	M6G77_01375	CWO85_02785	L6W10_RS01395
Spermidine/putrescine ABC transporter ATP binding protein	<i>potA</i>	Spermidine/Putrescine - ABC transporter	RS022_03400	M6G77_01445	CWO85_02470	L6W10_RS00575
Spermidine/putrescine import ABC transporter permease component	<i>potB</i>		RS022_03410	M6G77_01440	CWO85_02465	L6W10_RS00580
Spermidine/putrescine import ABC transporter permease protein PotC	<i>potC</i>		RS022_03420	M6G77_01435	CWO85_02460	L6W10_RS00585
Spermidine/putrescine import ABC transporter substrate binding protein	<i>potD</i>		RS022_03430	M6G77_01430	CWO85_02455	L6W10_RS00590
Methionine ABC transport system permease protein	<i>metI</i>	Methionine ABC transporter	RS022_02500	M6G77_00850	CWO85_02845	-
Methionine ABC transport system ATPase subunit	<i>metN</i>		RS022_02480	M6G77_00840	CWO85_02835	L6W10_RS00095
Methionine ABC transport system substrate binding protein	<i>metQ</i>		RS022_2490	M6G77_00845	CWO85_02840	L6W10_RS00090
Energy-coupling factor transporter ATP-binding protein EcfA1	<i>ecfA</i>	Biotin transport (incomplete)	RS022_06860	M6G77_01730	CWO85_00010	L6W10_RS03095
Energy-coupling factor transporter	<i>ecfA</i>		RS022_06850	M6G77_01725	-	L6W10_RS03100

ATP-binding protein EcfA3						
Energy-coupling factor transporter transmembrane protein EcfT	<i>ecfT</i>		RS022_06840	M6G77_01720	-	L6W10_RS03105
Multidrug efflux ABC transporter subunit EfrA	<i>efrA</i>	Drug efflux (incomplete)	RS022_08590	M6G77_02480	CWO85_00615	L6W10_RS02525
Multidrug efflux ABC transporter subunit EfrB	<i>efrB</i>		RS022_08580	M6G77_02475	CWO85_00620	L6W10_RS02520
unspecific ATP binding protein	-	Unspecified ABC transport system	RS022_00590	M6G77_00145	CWO85_00600	L6W10_RS02540
	-		RS022_08620	M6G77_02495	CWO85_01670	L6W10_RS01365
	-		-	-	CWO85_01675	L6W10_RS01360
Calcium transporting HAD-IC family P- type ATPase	<i>ctpE</i>	Ca <sup>2+</sup> export	RS022_07540	M6G77_00610	CWO85_02370	L6W10_RS00675
Zinc/cadmium/lead- transporting P-type ATPase	<i>zntA</i>	Zn <sup>2+</sup> , Cd <sup>2+</sup> export	RS022_08020	M6G77_00360	CWO85_01970	L6W10_RS01060
Potassium/sodium- transporting P-type ATPase	-	K <sup>+</sup> , Na <sup>+</sup> export	RS022_04000	M6G77_01070	CWO85_02920	L6W10_RS03675
Malate/Na <sup>+</sup> symporter MleP	<i>mleP</i>	MleP Symporter	RS022_04910	M6G77_01190	CWO85_03515	L6W10_RS03225
Malate:Na <sup>+</sup> symporter	-	MleP Symporter (incomplete)	-	M6G77_02455	CWO85_00750	L6W10_RS02380
Mg <sup>2+</sup> , Co <sup>2+</sup> export channel CorC	<i>corC</i>	CorC channel	RS022_04010	M6G77_01075	CWO85_02915	L6W10_RS03680
Multidrug and toxin efflux pump MATE	<i>norM</i>	MATE channel	RS022_08350	M6G77_00210	CWO85_01605	L6W10_RS01435
Large conductance mechanosensitive channel	<i>mscL</i>	MscL channel	RS022_06350	M6G77_01620	CWO85_03400	L6W10_RS03335
NAD synthetase/ Glutamine amidotransferase chain of NAD synthetase	<i>nadE</i>	NAD synthase	RS022_08240	M6G77_00270	CWO85_01880	L6W10_RS01155
Signal recognition particle subunit Srp54	<i>srp54</i>	SEC System	RS022_08090	M6G77_00320	CWO85_01930	L6W10_RS01105
Signal recognition particle receptor FtsY	<i>ftsY</i>		RS022_08100	M6G77_00315	CWO85_01925	L6W10_RS01110
Preprotein translocase subunit SecA	<i>secA</i>		RS022_08270	M6G77_00255	CWO85_01865	L6W10_RS01170
Preprotein translocase subunit SecY	<i>secY</i>		RS022_06940	M6G77_01770	CWO85_00050	L6W10_RS03055
Preprotein translocase subunit SecE	<i>secE</i>		RS022_07510	M6G77_00625	CWO85_02385	L6W10_RS00660

Membrane protein insertase YidC	<i>yidC</i>		RS022_08560	M6G77_02450	CWO85_00745	L6W10_RS02385
Variable membrane protein B	<i>vmpB</i>	Membrane proteins	RS022_00510	M6G77_00110	CW085_01775	L6W10_RS01260
Variable membrane protein A	<i>vmpA</i>		RS022_07990	M6G77_00370	CW085_02145	L6W10_RS00905
Immunodominant membrane protein	<i>imp</i>		RS022_08700	M6G77_02530	CWO85_00565	L6W10_RS02575
HAD-IIB family hydrolase	-	Hydrolase	RS022_07720	M6G77_00505	CWO85_02280	L6W10_RS00770
SAP11-like effector protein	-	Effector	RS022_07360	-	CWO85_00890	L6W10_RS00460
SAP11-like effector protein	-	Effector	RS022_01010	-	CWO85_02055	L6W10_RS01985
SAP54-like effector protein	-	Effector	RS022_04960	-	CWO85_03080	L6W10_RS02315

**Table S2.** Overview of products with predicted signal peptide and corresponding locus tag for ‘*Ca. P. rubi*’ RS, ‘*Ca. P. vitis*’ CH and ‘*Ca. P. ziziphi*’ strains. Products without assigned orthogroup are unique to the respective strain.

	'Ca. P. rubi'		'Ca. P. vitis'		'Ca. P. ziziphi'		'Ca. P. ziziphi'	
	RS		CH		Jwb-nky		Hebei-2018	
Orthogroup	Locus tag	Product	Locus tag	Product	Locus tag	Product	Locus tag	Product
1	RS022_05620	hypothetical protein	-	-	CWO85_02685	hypothetical protein	L6W10_RS00255	hypothetical protein
2	-	-	-	-	CWO85_02710	hypothetical protein	L6W10_RS00225	hypothetical protein
3	-	-	M6G77_01360	hypothetical protein	CWO85_02715	hypothetical protein	L6W10_RS00220	hypothetical protein
4	-	-	-	-	CWO85_00895	hypothetical protein	L6W10_RS01980	hypothetical protein
5	RS022_07820	hypothetical protein	M6G77_00455	hypothetical protein	CWO85_02230	hypothetical protein	L6W10_RS00820	hypothetical protein
6	RS022_08230	tRNA-specific 2-thiouridylase	M6G77_00275	tRNA 2-thiouridine(34) synthase	CWO85_01885	tRNA 2-thiouridine(34) synthase	L6W10_RS01150	tRNA 2-thiouridine(34) synthase
7	-	-	M6G77_00800	hypothetical protein	CWO85_02790	hypothetical protein	L6W10_RS00140	hypothetical protein
8	-	-	-	-	CWO85_03065	hypothetical protein	L6W10_RS01000	hypothetical protein
9	-	-	-	-	CWO85_01755	hypothetical protein	L6W10_RS01280	hypothetical protein
10	RS022_01330	tRNA (adenine(22)-N(1))-methyltransferase	M6G77_00220	class I SAM-dependent methyltransferase	CWO85_01100	SAM-dependent methyltransferase	L6W10_RS02095	tRNA (adenine(22)-N(1))-methyltransferase
11	RS022_07320	SVM family protein	-	-	CWO85_02040	effector protein	L6W10_RS01995	SVM family protein
12	RS022_04960	SAP54-like effector protein	-	-	CWO85_03080	SAP54-like effector protein	L6W10_RS02315	SAP54-like effector protein
13	RS022_04720	SVM family protein	-	-	CWO85_00800	effector protein	L6W10_RS00985	SVM family protein
14	RS022_05130	SVM family protein	-	-	CWO85_01380	effector protein	L6W10_RS01680	effector protein

15	RS022_05950	hypothetical protein	M6G77_00980	hypothetical protein	CWO85_01420	hypothetical protein	L6W10_RS01645	hypothetical protein
16	RS022_05960	SVM family protein	-	-	CWO85_01495	effector protein	L6W10_RS01555	effector protein
17	RS022_07360	SAP11-like effector protein	-	-	CWO85_00890	SAP11-like effector protein	L6W10_RS00460	SAP11-like effector protein
18	RS022_05940	SVM family protein	-	-	CWO85_03070	hypothetical protein	L6W10_RS00995	SVM family protein
19	-	-	-	-	CWO85_01425	hypothetical protein	L6W10_RS01640	SVM family protein
20	RS022_05930	SVM family protein	M6G77_00940	SVM family protein	-	-	-	-
21	RS022_01010	SAP11-like effector protein	-	-	CWO85_02055	SAP11-like effector protein	L6W10_RS01985	SAP11-like effector protein
-	-	-	M6G77_00930	hypothetical protein	-	-	-	-
-	-	-	M6G77_01515	hypothetical protein	-	-	-	-
-	-	-	M6G77_02130	hypothetical protein	-	-	-	-
-	-	-	M6G77_02535	CTP synthase	-	-	-	-
-	-	-	M6G77_02680	SVM family protein	-	-	-	-
-	-	-	-	-	-	-	L6W10_RS00440	hypothetical protein
-	-	-	-	-	-	-	L6W10_RS01505	hypothetical protein
-	-	-	-	-	-	-	L6W10_RS01865	hypothetical protein
-	-	-	-	-	-	-	L6W10_RS02325	SVM family protein
-	-	-	-	-	-	-	L6W10_RS02630	hypothetical protein
-	-	-	-	-	-	-	L6W10_RS03415	hypothetical protein
-	-	-	-	-	-	-	L6W10_RS03615	hypothetical protein
-	-	-	-	-	CWO85_00790	hypothetical protein	-	-
-	-	-	-	-	CWO85_02325	hypothetical protein	-	-
-	-	-	-	-	CWO85_03290	hypothetical protein	-	-
-	RS022_00200	SVM family protein	-	-	-	-	-	-
-	RS022_00250	hypothetical protein	-	-	-	-	-	-
-	RS022_02340	SVM family protein	-	-	-	-	-	-
-	RS022_02400	hypothetical protein	-	-	-	-	-	-
-	RS022_03040	gpsA Glycerol-3-phosphate dehydrogenase	-	-	-	-	-	-
-	RS022_03200	SVM family protein	-	-	-	-	-	-
-	RS022_03840	hypothetical protein	-	-	-	-	-	-
-	RS022_03890	hypothetical protein	-	-	-	-	-	-

-	RS022_0 4320	hypothetical protein	-	-	-	-	-	-
-	RS022_0 4710	SVM family protein	-	-	-	-	-	-
-	RS022_0 4900	DJ-1/PfpI family protein	-	-	-	-	-	-
-	RS022_0 5740	SVM family protein	-	-	-	-	-	-
-	RS022_0 5750	SVM family protein	-	-	-	-	-	-
-	RS022_0 6150	SVM family protein	-	-	-	-	-	-
-	RS022_0 6460	hypothetical protein	-	-	-	-	-	-
-	RS022_0 6490	hypothetical protein	-	-	-	-	-	-
-	RS022_0 6660	hypothetical protein	-	-	-	-	-	-
-	RS022_0 7350	SVM family protein	-	-	-	-	-	-
-	RS022_0 8450	hypothetical protein	-	-	-	-	-	-