

Table S-2. Eleven genomic regions shared among all *Brucella* but not found in *Brucella* spp. NF2653 and 83-13

Region	PATRIC locus tag	RefSeq locus	Protein Name	Size (aa)	
1	<i>Brucella suis</i> 1330 chromosome 1 (NC_004310) 265358..273423				
	VBIBruSui107850_0266	BR0256	site-specific recombinase, phage integrase family	8065	
	VBIBruSui107850_0267	BR0257	hypothetical protein		
	VBIBruSui107850_0268	BR0258	BRO family protein		
	VBIBruSui107850_0269	BR0259	hypothetical protein		
	VBIBruSui107850_0270		hypothetical protein		
	VBIBruSui107850_0271	BR0260	Site-specific recombinase, resolvase family		
	VBIBruSui107850_0272		RECOMBINASE		
	VBIBruSui107850_0273	BR0261	hypothetical protein		
	VBIBruSui107850_0274		hypothetical protein		
	VBIBruSui107850_0275	BR0262	hypothetical protein		
	VBIBruSui107850_0276		hypothetical protein		
	VBIBruSui107850_0277	BR0263	hypothetical protein		
	VBIBruSui107850_0278	BR0264	hypothetical protein		
	VBIBruSui107850_0279	BR0265	hypothetical protein		
2	<i>Brucella suis</i> 1330 chromosome 1 (NC_004310) 535577..540285				
	VBIBruSui107850_0560	BR0542	D-xylose transport ATP-binding protein XylG	4708	
	VBIBruSui107850_0561	BR0543	Xylose ABC transporter, permease protein XylH		
	VBIBruSui107850_0562	BR0544	Ribose ABC transporter, periplasmic ribose-binding protein RbsB (TC 3.A.1.2.1)		
	VBIBruSui107850_0563	BR0545	Inosose isomerase		
3	<i>Brucella suis</i> 1330 chromosome 1 (NC_004310) 1572257..1584489				
	VBIBruSui107850_1654		Putative dihydroxyacetone kinase, ADP-binding subunit	12232	
	VBIBruSui107850_1655		binding subunit		
	VBIBruSui107850_1656		Putative dihydroxyacetone kinase, ADP-binding subunit		
	VBIBruSui107850_1657		Putative dihydroxyacetone kinase, dihydroxyacetone binding subunit		
	VBIBruSui107850_1658	BR1629	Sorbitol-6-phosphate 2-dehydrogenase		
	VBIBruSui107850_1659	BR1630	Ribose ABC transporter, periplasmic ribose-binding protein RbsB (TC 3.A.1.2.1)		
	VBIBruSui107850_1660	BR1631	Ribose ABC transport system, permease protein RbsC (TC 3.A.1.2.1)		
	VBIBruSui107850_1661	BR1632	Ribose ABC transport system, ATP-binding protein RbsA (TC 3.A.1.2.1)		
	VBIBruSui107850_r031		tRNA-Met-CAT		
4	<i>Brucella suis</i> 1330 chromosome 1 (NC_004310) 1881678..1894738				
	VBIBruSui107850_r047		tRNA-Leu-CAA	13060	
	VBIBruSui107850_1984	BR1950	hypothetical protein		
	VBIBruSui107850_1985	BR1951	Transcriptional regulator, LysR family		
	VBIBruSui107850_1986	BR1952	hypothetical protein		
	VBIBruSui107850_1987	BR1953	amino acid ABC transporter, periplasmic amino acid-binding protein		
	VBIBruSui107850_1988		Amino acid ABC transporter, permease protein		
	VBIBruSui107850_1989		Amino acid ABC transporter, permease protein		
	VBIBruSui107850_1990	BR1955	Glutamate transport membrane-spanning protein		
	VBIBruSui107850_1991	BR1956	ASPARAGINE TRANSPORT ATP-BINDING PROTEIN		
	VBIBruSui107850_1992	BR1957	arginase family protein		
	VBIBruSui107850_1993	BR1958	Aspartate ammonia-lyase		
	VBIBruSui107850_1994	BR1959	ASPARAGINE TRANSPORT ATP-BINDING PROTEIN		
	VBIBruSui107850_1995	BR1960	L-asparaginase		
	VBIBruSui107850_1996	BR1961	Transcriptional regulator, GntR family		
	VBIBruSui107850_1997	BR1962	L-asparaginase		
	VBIBruSui107850_1998	BR1963	D-galactonate transporter		
	VBIBruSui107850_1999		hypothetical protein		
	VBIBruSui107850_2000	BR1964	hypothetical protein		
5	<i>Brucella suis</i> 1330 chromosome 1 (NC_004311) 307082..310812				
	VBIBruSui107850_2543	BRA0327	Putrescine transport ATP-binding protein PotA (TC 3.A.1.11.1)		3730
	VBIBruSui107850_2544	BRA0328	Spermidine Putrescine ABC transporter permease component PotB (TC 3.A.1.11.1)		
	VBIBruSui107850_2545	BRA0329	Spermidine Putrescine ABC transporter permease component potC (TC 3.A.1.11.1)		
	VBIBruSui107850_2546	BRA0331	hypothetical protein		
6	<i>Brucella suis</i> 1330 chromosome 1 (NC_004311) 397370..405341				

VBIBruSui107850_2628	BRA0414	dependent protein kinases	7971
VBIBruSui107850_2629	BRA0415	Transcriptional regulator, LuxR family	
VBIBruSui107850_2630	BRA0416	SUCCINOGLYCAN BIOSYNTHESIS TRANSPORT PROTEIN EXOP	
VBIBruSui107850_2631	BRA0417	Exopolysaccharide production protein ExoF precursor	
VBIBruSui107850_2632	BRA0418	fucose synthetase family protein	
VBIBruSui107850_2633	BRA0419	GDP-mannose 4,6 dehydratase	
VBIBruSui107850_2634		hypothetical protein	
VBIBruSui107850_2635		Glycosyltransferase	

7	<i>Brucella suis</i> 1330 chromosome 1 (NC_004311) 604389..608616		4227
	VBIBruSui107850_r054	tRNA-Cys-GCA	
	VBIBruSui107850_2834	Phytochrome-like protein; Cph2	
	VBIBruSui107850_2835	Endonuclease V	
	VBIBruSui107850_2836	hypothetical protein	
	VBIBruSui107850_2837	hypothetical protein	
	VBIBruSui107850_2838	hypothetical protein	
	VBIBruSui107850_2839	DNA polymerase III, epsilon subunit:DNA polymerase 3, epsilon subunit	

8	<i>Brucella suis</i> 1330 chromosome 1 (NC_004311) 979310..986563		7253
	VBIBruSui107850_3216	Putative translation initiation inhibitor, yjgF family	
	VBIBruSui107850_3217	Ribose ABC transport system, permease protein RbsC (TC 3.A.1.2.1)	
	VBIBruSui107850_3218	Ribose ABC transport system, permease protein RbsC (TC 3.A.1.2.1)	
	VBIBruSui107850_3219	Ribose ABC transport system, ATP-binding protein RbsA (TC 3.A.1.2.1)	
	VBIBruSui107850_3220	Ribose ABC transporter, periplasmic ribose-binding protein RbsB (TC 3.A.1.2.1)	
	VBIBruSui107850_3221	Transcriptional regulator, lclR family	
	VBIBruSui107850_3222	alanine-rich protein SCI7.12c	

9	<i>Brucella suis</i> 1330 chromosome 1 (NC_004311) 1056214..1110345		54131
	VBIBruSui107850_3297	TRANSPOSASE	
	VBIBruSui107850_3298	Predicted regulator PutR for proline utilization, GntR family	
	VBIBruSui107850_3299	hypothetical protein	
	VBIBruSui107850_3300	2-ketoglutaric semialdehyde dehydrogenase	
	VBIBruSui107850_3301	CAIB/BAIF family protein	
	VBIBruSui107850_3302	Oligopeptide transport ATP-binding protein OppF (TC 3.A.1.5.1)	
	VBIBruSui107850_3303	Oligopeptide transport ATP-binding protein oppD (TC 3.A.1.5.1)	
	VBIBruSui107850_3304	Dipeptide transport system permease protein DppC (TC 3.A.1.5.2)	
	VBIBruSui107850_3305	Oligopeptide transport system permease protein OppB (TC 3.A.1.5.1)	
	VBIBruSui107850_3306	Transcriptional regulator, lclR family	
	VBIBruSui107850_3307	dehydrogenase complex	
	VBIBruSui107850_3308	Dipeptide-binding ABC transporter, periplasmic substrate-binding component (TC 3.A.1.5.2)	
	VBIBruSui107850_3309	Branched-chain alpha-keto acid dehydrogenase, E1 component, alpha subunit / Branched-chain alpha-keto acid dehydrogenase, E1 component, beta subunit	
	VBIBruSui107850_3310	Branched-chain alpha-keto acid dehydrogenase, E1 component, alpha subunit / Branched-chain alpha-keto acid dehydrogenase, E1 component, beta subunit	
	VBIBruSui107850_3311	3-hydroxybutyryl-CoA dehydrogenase; 3-hydroxyacyl-CoA dehydrogenase	
	VBIBruSui107850_3312	Enoyl-CoA hydratase [branched-chain amino acid degradation]	
	VBIBruSui107850_3313	Butyryl-CoA dehydrogenase	
	VBIBruSui107850_3314	Penicillin acylase	
	VBIBruSui107850_3315	Peptide ABC transporter, periplasmic peptide-binding protein	
	VBIBruSui107850_3316	Dipeptide transport system permease protein DppB (TC 3.A.1.5.2)	
	VBIBruSui107850_3317	Dipeptide transport system permease protein DppC (TC 3.A.1.5.2)	
	VBIBruSui107850_3318	Oligopeptide transport ATP-binding protein OppD (TC 3.A.1.5.1)	
	VBIBruSui107850_3319	Dipeptide transport ATP-binding protein DppF (TC 3.A.1.5.2)	
	VBIBruSui107850_3320	Predicted regulator PutR for proline utilization, GntR family	
	VBIBruSui107850_3321	Putative hemin-binding lipoprotein	
	VBIBruSui107850_3322	Oligopeptide transport system permease protein OppB (TC 3.A.1.5.1)	
	VBIBruSui107850_3323	Oligopeptide transport system permease protein oppC (TC 3.A.1.5.1)	
	VBIBruSui107850_3324	Oligopeptide transport ATP-binding protein oppD (TC 3.A.1.5.1)	
	VBIBruSui107850_3325	hypothetical protein	
	VBIBruSui107850_3326	Oligopeptide transport ATP-binding protein OppF (TC 3.A.1.5.1)	
	VBIBruSui107850_3327	antibiotic-induced protein Drp35	
	VBIBruSui107850_3328	Amidase family protein	
	VBIBruSui107850_3329	ABC transporter, periplasmic spermidine putrescine-binding protein PotD (TC 3.A.1.11.1)	

VBIBruSui107850_3330		ABC transporter, periplasmic spermidine putrescine-binding protein PotD (TC 3.A.1.11.1)
VBIBruSui107850_3331	BRA1105	Spermidine Putrescine ABC transporter permease component potC (TC 3.A.1.11.1)
VBIBruSui107850_3332	BRA1106	Spermidine Putrescine ABC transporter permease component PotB (TC 3.A.1.11.1)
VBIBruSui107850_3333		Putrescine transport ATP-binding protein PotA (TC 3.A.1.11.1)
VBIBruSui107850_3334		Putrescine transport ATP-binding protein PotA (TC 3.A.1.11.1)
VBIBruSui107850_3335	BRA1108	Glutamate-1-semialdehyde aminotransferase
VBIBruSui107850_3336	BRA1109	Blr3550 protein
VBIBruSui107850_3337	BRA1110	Ribulose-5-phosphate 4-epimerase and related epimerases and aldolases
VBIBruSui107850_3338	BRA1111	Predicted pyridoxine biosynthesis protein (probably from glycolaldehyde)
VBIBruSui107850_3339	BRA1112	hypothetical protein
VBIBruSui107850_3340	BRA1113	PEMK-LIKE PROTEIN 1
VBIBruSui107850_3341		D-LACTATE DEHYDROGENASE
VBIBruSui107850_3342	BRA1115	TRANSPOSASE
VBIBruSui107850_3343	BRA1116	TRANSPOSASE
VBIBruSui107850_3344		hypothetical protein
VBIBruSui107850_3345		hypothetical protein
VBIBruSui107850_3346		hypothetical protein

10	<i>Brucella suis</i> 1330 chromosome 1 (NC_004311) 1154316..1181229		
VBIBruSui107850_3384	BRA1154	regulatory protein for 2-phenylethylamine catabolism	26913
VBIBruSui107850_3385	BRA1155	Aldehyde dehydrogenase	
VBIBruSui107850_3386		hypothetical protein	
VBIBruSui107850_3387	BRA1156	2,4-dihydroxyhept-2-ene-1,7-dioic acid aldolase	
VBIBruSui107850_3388	BRA1158	2-oxo-hepta-3-ene-1,7-dioic acid hydratase	
VBIBruSui107850_3389	BRA1159	dioate decarboxylase	
VBIBruSui107850_3390		homoprotocatechuate 2,3-dioxygenase	
VBIBruSui107850_3391		homoprotocatechuate 2,3-dioxygenase	
VBIBruSui107850_3392	BRA1161	5-carboxymethyl-2-hydroxymuconate semialdehyde dehydrogenase	
VBIBruSui107850_3393	BRA1162	5-carboxymethyl-2-hydroxymuconate delta-isomerase	
VBIBruSui107850_3394	BRA1163	Homoprotocatechuate degradative operon repressor	
VBIBruSui107850_3395	BRA1164	Homoserine kinase	
VBIBruSui107850_3396	BRA1165	Omega-amino acid--pyruvate aminotransferase	
VBIBruSui107850_3397	BRA1166	Omega-amino acid--pyruvate aminotransferase	
VBIBruSui107850_3398	BRA1167	HYDROLASE FAMILY PROTEIN	
VBIBruSui107850_3399	BRA1168	Transcriptional regulator	
VBIBruSui107850_3400	BRA1169	Transcriptional regulator, lclR family	
VBIBruSui107850_3401	BRA1170	AMINO ACID PERMEASE	
VBIBruSui107850_3402	BRA1171	Aldehyde dehydrogenase	
VBIBruSui107850_3403	BRA1172	Exoenzymes regulatory protein aepA precursor	
VBIBruSui107850_3404	BRA1173	putative	
VBIBruSui107850_3405	BRA1174	3.A.1.4.1)	
VBIBruSui107850_3406	BRA1175	LIVM / HIGH-AFFINITY BRANCHED-CHAIN AMINO ACID TRANSPORT ATP-BINDING PROTEIN	
VBIBruSui107850_3407	BRA1176	Branched-chain amino acid transport ATP-binding protein LivF (TC 3.A.1.4.1)	
VBIBruSui107850_3408	BRA1177	hypothetical protein	
VBIBruSui107850_3409	BRA1178	putative membrane protein	
VBIBruSui107850_3410	BRA1179	Putative alkanesulfonate metabolism utilization regulator	

11	<i>Brucella suis</i> 1330 chromosome 1 (NC_004311) 1186840..1190976		
VBIBruSui107850_3416	BRA1185	Choline-sulfatase	4136
VBIBruSui107850_3417	BRA1186	Choline-binding lipoprotein	
VBIBruSui107850_3418	BRA1187	Choline ABC transporter ATP-binding protein	
VBIBruSui107850_3419	BRA1188	Choline ABC transporter permease protein	