

Supplemental Table S1: ORFs unique to OG1RF

ID ^a	START	STOP	SIZE	DEFINITION	GI number ^b	Tn917 ^c
OG1RF_0001	35502	36008 + ^d	169	hypothetical membrane protein		
OG1RF_0002	79572	80087 +	172	hypothetical protein		
OG1RF_0003	80087	80143 +	19	hypothetical protein		
OG1RF_0004	80128	80229 -	34	hypothetical protein		
OG1RF_0005	80242	80757 +	172	conserved hypothetical protein	116873726	
OG1RF_0006	80757	82154 +	466	conserved hypothetical protein	25012005	
OG1RF_0007	82151	82456 +	102	hypothetical protein		
OG1RF_0008	82472	82732 +	87	hypothetical protein		
OG1RF_0009	143070	143468 +	133	conserved hypothetical membrane protein	25010299	
OG1RF_0010	143468	144706 +	413	possible lipase	25012005	
OG1RF_0011	144716	145030 +	105	hypothetical protein		
OG1RF_0012	145035	145301 +	89	hypothetical protein		
OG1RF_0013	294095	295453 +	453	secreted antigen (EF0394) ^e	29375030	
OG1RF_0014	319060	319215 +	52	hypothetical protein		
OG1RF_0015	319212	320333 +	374	conserved hypothetical protein	81097058	
OG1RF_0016	394987	395835 -	283	conserved hypothetical protein	72162835	
OG1RF_0017	416527	420540 +	1338	CRISPR associated protein (<i>cas_csn1</i>)	47097148	C11
OG1RF_0018	420541	421407 +	289	CRISPR associated protein (<i>cas1</i>)	47097147	
OG1RF_0019	421404	421733 +	110	CRISPR associated protein (<i>cas2</i>)	15675043	
OG1RF_0020	421734	422393 +	220	CRISPR associated protein (<i>cas_csn2</i>)	47097145	
OG1RF_0022	423326	423682 +	119	hypothetical membrane protein		
OG1RF_0023	504238	504375 -	46	hypothetical protein		
OG1RF_0024	530916	531041 -	42	hypothetical protein		
OG1RF_0025	725858	726289 +	144	conserved hypothetical protein	29375549	C10
OG1RF_0026	726595	726726 -	44	hypothetical protein		
OG1RF_0027	726742	727125 +	128	hypothetical secreted protein		
OG1RF_0028	727219	727386 +	56	hypothetical protein		
OG1RF_0029	727422	727817 +	132	hypothetical protein		
OG1RF_0030	727833	728126 +	98	hypothetical protein		
OG1RF_0031	728205	728615 +	137	conserved hypothetical secreted protein	76787389	
OG1RF_0032	728608	728901 +	98	hypothetical protein		
OG1RF_0033	729061	729393 +	111	pseudogene of conserved hypothetical protein	125717807	
OG1RF_0034	729395	730957 +	521	conserved hypothetical protein	77409424	
OG1RF_0035	730977	731261 +	95	hypothetical protein		
OG1RF_0036	731269	731394 +	42	hypothetical protein	29374661	
OG1RF_0037	731395	731574 +	60	hypothetical protein		
OG1RF_0038	798315	798425 +	37	hypothetical protein		
OG1RF_0039	825385	828604 +	1073	probable adhesin (frameshift)	69244908	
OG1RF_0040	828708	829034 +	109	hypothetical protein	29376423	
OG1RF_0041	829037	829411 +	125	conserved hypothetical protein	29376422	A9
OG1RF_0042	829411	830766 +	452	probable cell division protein FtsK/SpoIIIE	69244912	C8
OG1RF_0043	830778	831782 +	335	DNA (cytosine-5-)-methyltransferase	69244913	
OG1RF_0044	831799	832119 +	107	conserved hypothetical protein	69244914	
OG1RF_0045	832358	833539 +	394	probable replication initiation protein	29376415	
OG1RF_0046	833557	833778 +	74	conserved hypothetical transposon protein	29376412	
OG1RF_0047	833799	834299 +	167	antirestriction protein ArdA	29376411	

ID ^a	START	STOP	SIZE	DEFINITION	GI number ^b	Tn917 ^c	
OG1RF_0048	834381	835331	+	317	conserved hypothetical protein	116872488	A3
OG1RF_0049	835333	835797	+	155	conserved hypothetical protein	116872489	A6
OG1RF_0050	835797	837683	+	629	possible DNA repair protein RecN	116872490	A12
OG1RF_0051	837843	838136	+	98	possible conjugative transposon membrane protein	69244919	
OG1RF_0052	838114	840582	+	823	conserved hypothetical protein	29376407	B3
OG1RF_0053	840566	842386	+	607	conserved hypothetical membrane protein	69247878	
OG1RF_0054	842447	843451	+	335	NlpC domain lipoprotein/C40 family peptidase	16803144	
OG1RF_0055	843465	844403	+	313	possible conjugative transposon protein	15923389	B6
OG1RF_0056	844571	845689	+	373	possible ATP-binding protein	27466959	
OG1RF_0057	846091	846867	-	259	possible HAD family haloacid dehalogenase hydrolase	27467977	
OG1RF_0058	847259	847663	+	135	conserved hypothetical protein	125718781	
OG1RF_0059	847698	848345	+	216	possible glutathionine S-transferase	39933897	
OG1RF_0060	848702	850171	+	490	conserved hypothetical protein	69245042	C6
OG1RF_0061	850171	850506	+	112	hypothetical protein		
OG1RF_0062	850525	851037	+	171	pseudogene of possible Cna family adhesin	69244094	
OG1RF_0063	851158	855372	+	1405	probable collagen adhesion protein	52140206	C1
OG1RF_0064	855608	855853	+	82	hypothetical protein		
OG1RF_0065	855884	855976	+	31	possible extracellular protein		
OG1RF_0066	856019	856243	+	75	hypothetical protein		
OG1RF_0067	856266	857285	+	340	hypothetical protein	66821251	
OG1RF_0068	857430	857855	+	142	conserved hypothetical protein	69247694	B2
OG1RF_0069	857845	858081	+	79	conserved hypothetical protein	69247695	B7
OG1RF_0070	858159	858464	-	102	probable transcriptional regulator	116512576	
OG1RF_0071	858566	859177	+	204	nitroreductase	116512577	
OG1RF_0072	859418	859828	-	137	conserved hypothetical membrane protein	118587099	
OG1RF_0073	859821	860273	-	151	possible LytR family response regulator	81428169	
OG1RF_0074	860315	860752	-	146	conserved hypothetical membrane protein	118587101	
OG1RF_0075	860794	860913	-	40	hypothetical protein		
OG1RF_0076	860924	861532	+	203	hypothetical membrane protein		
OG1RF_0077	861997	862107	+	37	hypothetical protein		
OG1RF_0078	862178	864250	+	691	probable ATP-binding nuclease	56963170	
OG1RF_0079	864243	866105	+	621	excision endonuclease subunit UvrD	28867288	
OG1RF_0080	866442	866777	+	112	pseudogene of nitroreductase	24378844	
OG1RF_0081	867224	867976	+	251	hypothetical protein		C7
OG1RF_0082	868056	869654	+	533	hypothetical protein		
OG1RF_0083	869700	869855	+	52	hypothetical membrane protein		
OG1RF_0084	870492	871022	+	177	hypothetical protein		
OG1RF_0085	871059	871832	+	258	hypothetical membrane protein		
OG1RF_0086	872173	872262	+	30	hypothetical protein		
OG1RF_0087	872259	872630	+	124	conserved hypothetical protein	69244684	
OG1RF_0088	872681	873829	+	383	probable integrase	69244690	A8
OG1RF_0089	873831	874004	+	58	hypothetical protein		
OG1RF_0090	1145408	1145701	+	98	conserved hypothetical protein	125624746	
OG1RF_0091	1145768	1149205	+	1146	conserved hypothetical membrane protein	116512650	B11
OG1RF_0092	1149208	1149705	+	166	hypothetical protein		
OG1RF_0093	1149720	1149989	+	90	hypothetical protein		
OG1RF_0094	1149986	1151158	+	391	conserved hypothetical protein	15896941	
OG1RF_0095	1151139	1155569	+	1477	cell division protein FtsK/SpoIIIE	15896940	
OG1RF_0096	1155566	1155976	+	137	conserved hypothetical protein	15896939	

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OG1RF_0097	1155977	1156231	+	85	hypothetical protein		
OG1RF_0098	1156244	1156600	+	119	conserved hypothetical protein	16799474	D5
OG1RF_0099	1156591	1158204	+	538	conserved hypothetical protein	16799475	
OG1RF_0100	1158185	1158970	+	262	conserved hypothetical protein	16799476	
OG1RF_0101	1159005	1159523	+	173	pseudogene of conserved hypothetical protein	16799475	
OG1RF_0102	1159549	1160343	+	265	conserved hypothetical protein	116874092	
OG1RF_0103	1160398	1160973	+	192	pseudogene of conserved hypothetical protein	16799475	
OG1RF_0104	1161120	1161830	+	237	conserved hypothetical protein	116871754	
OG1RF_0105	1162107	1164602	+	832	pseudogene of cell division protein FtsK/SpoIIIE	23098771	
OG1RF_0106	1164617	1165488	+	290.6	conserved hypothetical membrane protein (frameshift)	52144636	
OG1RF_0107	1165501	1165947	+	149	conserved hypothetical protein		B5
OG1RF_0108	1165967	1166239	+	91	hypothetical protein		
OG1RF_0109	1166253	1166897	+	215	hypothetical protein		
OG1RF_0110	1166913	1168454	+	514	pseudogene of conserved hypothetical protein	49477502	
OG1RF_0111	1168442	1169149	+	236	hypothetical protein		
OG1RF_0112	1169175	1169873	+	233	pseudogene of conserved hypothetical protein	116871477	
OG1RF_0113	1169861	1170577	+	239	hypothetical membrane protein		
OG1RF_0114	1170835	1171263	+	143	conserved hypothetical protein	116871479	D1
OG1RF_0115	1171272	1171721	+	150	conserved hypothetical protein	49477505	
OG1RF_0116	1171795	1172295	+	167	hypothetical membrane protein		
OG1RF_0117	1272374	1272883	+	170	ECF family DNA directed RNA polymerase sigma	89096444	
OG1RF_0118	1273721	1273981	+	87	hypothetical protein	52081095	
OG1RF_0119	1272884	1273981	+	366	conserved hypothetical protein	34496255	
OG1RF_0120	1290363	1291844	+	494	BglG family transcriptional antiterminator	47095712	
OG1RF_0121	1291834	1292286	+	151	PTS family porter component IIA	15901457	A4
OG1RF_0122	1292286	1292603	+	106	PTS family porter component IIB	15901455	A5
OG1RF_0123	1292623	1293072	+	150	PTS family porter component IIA	76788396	B9
OG1RF_0124	1293182	1294282	+	367	PTS family porter component IIC	15901454	A2
OG1RF_0125	1294420	1295109	+	230	ribulose-phosphate 3-epimerase	15901453	
OG1RF_0126	1512391	1513491	-	367	ABC superfamily ATP binding cassette transporter, membrane protein	69245312	
OG1RF_0127	1513484	1514176	-	231	ABC superfamily ATP binding cassette transporter, binding protein	124520827	C5
OG1RF_0128	1602425	1603462	-	346	conserved hypothetical membrane protein	16799878	
OG1RF_0129	1603504	1604055	-	184	WxL domain surface protein	15673181	
OG1RF_0130	1604048	1604407	-	120	LPxTG-domain surface protein		
OG1RF_0131	1604383	1607043	-	887	conserved hypothetical protein	15673179	
OG1RF_0132	1607271	1608728	+	486	conserved hypothetical protein	116872203	
OG1RF_0133	1608837	1610759	+	641	conserved hypothetical membrane protein	77974891	
OG1RF_0134	1610944	1611780	-	279	PP-loop superfamily ATP-binding protein	116493418	
OG1RF_0135	1611886	1612599	-	238	ABC superfamily ATP binding cassette transporter, ABC protein	55820385	
OG1RF_0136	1612601	1613386	-	262	protein	55822275	
OG1RF_0137	1613386	1614372	-	329	protein	55822274	
OG1RF_0138	1614391	1615047	-	219	transcriptional regulator	116493423	
OG1RF_0139	1615207	1616481	+	425	conserved hypothetical protein	116493422	
OG1RF_0140	1616519	1617262	+	248	NCAIR mutase	116493421	
OG1RF_0141	1664191	1665858	-	556	glycosyl hydrolase	81428811	B1
OG1RF_0142	1665873	1667582	-	570	PTS family porter component IIABC	30023990	C3
OG1RF_0143	1667742	1668449	-	236	GntR family transcriptional regulator	82745913	
OG1RF_0144	1687265	1688902	-	546	conserved hypothetical protein	15923072	A10

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OG1RF_0145	1688928	1689056	- 43	pseudogene of conserved hypothetical protein	29376482	
OG1RF_0146	1689467	1690453	- 329	conserved hypothetical protein	51245884	
OG1RF_0147	1690471	1691562	- 364	DNA (cytosine-5-)-methyltransferase	42779446	
OG1RF_0148	1716523	1716969	- 149	conserved hypothetical secreted protein	69244407	
OG1RF_0150	1777278	1778780	+ 501	conserved hypothetical protein	116873914	A7
OG1RF_0151	1783816	1784796	- 327	possible glycosyltransferase	16804588	
OG1RF_0152	1786113	1786217	+ 35	hypothetical protein		
OG1RF_0153	1786477	1786602	- 42	hypothetical protein		
OG1RF_0154	1787005	1787118	- 38	hypothetical protein		
OG1RF_0155	1787521	1788945	- 475	MOP superfamily multidrug/oligosaccharidyl-lipid/polysaccharide flippase transporter	124521111	
OG1RF_0156	1788993	1790378	- 462	probable O-antigen polymerase (EF2169)	29376677	
OG1RF_0157	1790393	1791604	- 404	CDP-glycerol:poly(glycerophosphate) glycerophosphotransferase	106887729	
OG1RF_0158	1791650	1792051	- 134	glycerol-3-phosphate cytidyltransferase	28377193	
OG1RF_0159	1792080	1793285	- 402	CDP-glycerol:poly(glycerophosphate) glycerophosphotransferase	106887729	
OG1RF_0160	1793311	1794291	- 327	glycosyltransferase (EF2170)	29376678	
OG1RF_0161	1794302	1795279	- 326	glycosyltransferase	55823030	
OG1RF_0162	1796446	1796670	+ 75	pseudogene of transposase	69248334	
OG1RF_0163	1796720	1799176	- 819	conserved hypothetical protein	29376682	C2
OG1RF_0164	1799420	1799623	- 68	pseudogene of licD-related protein	29376683	
OG1RF_0165	1846772	1852468	- 1899	probable adhesin (EF2224)	29376731	
OG1RF_0166	1873057	1873362	- 102	PTS family possible cellobiose porter component IIB	69244697	
OG1RF_0167	1873390	1874985	- 532	SSS family solute:sodium (Na+) symporter	56962210	
OG1RF_0168	1875009	1875899	- 297	myo-inositol catabolism protein IolE	28210254	
OG1RF_0169	1875921	1876940	- 340	inositol 2-dehydrogenase	28210255	A11
OG1RF_0170	1876964	1877971	- 336	inositol 2-dehydrogenase	16081021	
OG1RF_0171	1878145	1879602	- 486	methylmalonate-semialdehyde dehydrogenase (acylating)	52082532	
OG1RF_0172	1879642	1880481	- 280	myo-inositol catabolism protein IolB	16799479	D3
OG1RF_0173	1880520	1882436	- 639	myo-inositol catabolism protein IolD	15614881	
OG1RF_0174	1882447	1883481	- 345	2-dehydro-3-deoxygluconokinase	18309069	
OG1RF_0175	1883639	1884655	- 339	DNA binding protein	15890504	
OG1RF_0176	1884841	1886676	- 612	membrane GTP-binding protein LepA (EF2352)	29376853	
OG1RF_0177	1914552	1914887	- 112	hypothetical protein		
OG1RF_0178	1914891	1915181	- 97	conserved hypothetical protein	125718554	
OG1RF_0179	1915195	1916508	- 438	conserved hypothetical protein	125718555	
OG1RF_0180	1917467	1918003	- 179	conserved hypothetical protein	125718556	
OG1RF_0181	1923812	1925998	- 729	possible ATP-binding protein	106894227	
OG1RF_0182	1926001	1927263	- 421	possible methyltransferase	42784651	
OG1RF_0183	1943002	1943193	- 64	hypothetical protein		
OG1RF_0184	2000283	2004539	- 1419	cell surface anchor protein CnaB (EF2466)	29376960	
OG1RF_0185	2018677	2018778	- 34	hypothetical protein		
OG1RF_0186	2028700	2033007	- 1436	probable adhesin (EF2505)	29376997	
OG1RF_0187	2036086	2036412	+ 109	possible LIV-E family branched chain amino acid exporter AzID	69245522	
OG1RF_0188	2200969	2202471	+ 501	conserved hypothetical membrane protein	92089170	
OG1RF_0189	2216258	2217355	- 366	conserved hypothetical membrane protein	29377266	
OG1RF_0190	2273034	2274098	+ 355	conserved hypothetical lipoprotein		
OG1RF_0191	2281411	2282121	- 237	M15 family muramoylpentapeptide carboxypeptidase	29376800	
OG1RF_0192	2282219	2283331	- 371	sensor histidine kinase VanSG	119635646	C4
OG1RF_0193	2283324	2284028	- 235	response regulator VanRG	119635645	B10

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OG1RF_0194	2357843	2359177	-	445	probable S1 family extracellular protease	116873306	
OG1RF_0195	2359316	2360152	+	279	conserved hypothetical protein	116515314	D2
OG1RF_0196	2375652	2375762	+	37	enterococcal conserved hypothetical protein		
OG1RF_0197	2502166	2502267	+	34	hypothetical protein		
OG1RF_0198	2514398	2515117	-	240	response regulator	47567135	
OG1RF_0199	2515119	2516447	-	443	sensor histidine kinase	47567134	
OG1RF_0200	2516676	2517908	-	411	ABC superfamily ATP binding cassette transporter, membrane protein	16078054	
OG1RF_0201	2517910	2518818	-	303	ABC superfamily ATP binding cassette transporter ABC protein	56965674	
OG1RF_0202	2546408	2546986	-	193	phosphatidyltransferase	29377600	
OG1RF_0203	2547406	2547639	-	78	pseudogene of conserved hypothetical protein	16799475	
OG1RF_0204	2547682	2547975	-	98	hypothetical protein		
OG1RF_0205	2547985	2548284	-	100	hypothetical protein		
OG1RF_0206	2548307	2549707	-	467	pseudogene of conserved hypothetical protein	16799475	
OG1RF_0207	2549698	2550060	-	121	conserved hypothetical protein	22855014	
OG1RF_0208	2550070	2550324	-	85	conserved hypothetical protein	125718209	A1
OG1RF_0209	2554926	2555630	-	235	WxL domain surface protein (EF3154, EF3153)	29377607	C9
OG1RF_0210	2555726	2556439	-	238	WxL domain surface protein (EF3154, EF3153)	29377606	
OG1RF_0211	2562516	2562659	-	48	enterococcal conserved hypothetical protein	29377690	
OG1RF_0212	2563068	2563193	-	42	enterococcal conserved hypothetical protein		
OG1RF_0213	2589319	2593980	-	1554	WxL domain surface protein (EF3188)	29377638	
OG1RF_0214	2615176	2617656	-	827	probable choline binding protein	29377145	
OG1RF_0215	2618051	2618206	-	52	hypothetical protein		
OG1RF_0216	2618199	2618339	-	47	hypothetical protein		
OG1RF_0217	2618802	2619362	-	187	hypothetical protein		
OG1RF_0218	2619552	2622569	-	1006	probable phosphatidylglycerol--membrane-oligosaccharide glycerophosphotransferase	69244263	
OG1RF_0219	2635203	2635340	-	46	enterococcal conserved hypothetical protein		
OG1RF_0220	2635352	2635693	-	114	probable endoribonuclease MazF	69244828	
OG1RF_0221	2635693	2635923	-	77	probable antitoxin MazE	69244829	
OG1RF_0222	2637707	2638345	-	213	probable chitin binding protein	29375001	
OG1RF_0223	2641016	2641120	+	35	enterococcal conserved hypothetical protein (EF3249)	29377692	
OG1RF_0224	2641315	2646006	-	1564	WxL domain surface protein (EF3248)	29377691	C12
OG1RF_0225	2646355	2648313	-	653	WxL domain surface protein (EF3250)	29377693	
OG1RF_0226	2648416	2649352	-	312	conserved hypothetical membrane protein	29377694	
OG1RF_0227	2649683	2653549	-	1289	WxL domain surface protein (EF3252)	29377695	
OG1RF_0228	1714318	1715325		336	probable DNA methyltransferase	69244404	

^a Only the ORFs unique in OG1RF were labeled

^b The GI number of the best hit or the most relevant is indicated

^c New Tn917 insertion mutants identified in OG1RF unique sequence (plate 7 with coordinates as indicated).

^d Orientation of the ORF

^e An "EFxxxx" locus tag number in parentheses indicates polymorphism at the protein level between V583 and OG1RF