

8 Appendices

8.1 Essential genes from day 0

For full list of genes from day 0, 1, 3 and 6, see folder Appendix 1 in the CD.

Total inserts	Total reads	Gene length	Sys.ID	Name	Pvalue essential	Log likelihood ratio	Pvalue of no hit
0	0	920	t0047	<i>ribF</i>	1.00	-174.93	6.14E-30
0	0	2816	t0048	<i>ileS</i>	1.00	-174.93	3.85E-90
0	0	482	t0049	<i>lspA</i>	1.00	-174.93	4.96E-16
0	0	1748	t0126	<i>ftsI</i>	1.00	-174.93	3.14E-56
0	0	1469	t0127	<i>murE</i>	1.00	-174.93	2.27E-47
0	0	1064	t0129	<i>mraY</i>	1.00	-174.93	1.64E-34
0	0	1298	t0130	<i>murD</i>	1.00	-174.93	6.11E-42
0	0	1457	t0133	<i>murC</i>	1.00	-174.93	5.46E-47
0	0	1244	t0136	<i>ftsA</i>	1.00	-174.93	3.16E-40
0	0	806	t0214	<i>dapD</i>	1.00	-174.93	2.56E-26
0	0	833	t0218	<i>tsf</i>	1.00	-174.93	3.55E-27
0	0	707	t0219	<i>pyrH</i>	1.00	-174.93	3.56E-23
0	0	1178	t0221	<i>dxr</i>	1.00	-174.93	3.94E-38
0	0	437	t0228	<i>fabZ</i>	1.00	-174.93	1.33E-14
0	0	770	t0229	<i>lpxA</i>	1.00	-174.93	3.56E-25
0	0	3464	t0232	<i>dnaE</i>	1.00	-174.93	1.02E-110
0	0	941	t0233	<i>accA</i>	1.00	-174.93	1.32E-30
0	0	1337	t0258	<i>pssA</i>	1.00	-174.93	3.53E-43
0	0	362	t0280	<i>acpS</i>	1.00	-174.93	3.2E-12
0	0	1100	t0333	<i>gcpE</i>	1.00	-174.93	1.18E-35
0	0	1454	t0337	-	1.00	-174.93	6.8E-47
0	0	1109	t0376	<i>dapE</i>	1.00	-174.93	6.12E-36
0	0	1997	t0431	<i>ligA</i>	1.00	-174.93	3.9E-64
0	0	134	t0535	-	1.00	-174.93	0.0000556
0	0	2267	t0587	<i>nrdA</i>	1.00	-174.93	1.04E-72
0	0	650	t0662	<i>folE</i>	1.00	-174.93	2.3E-21
0	0	530	t0931	<i>pgsA</i>	1.00	-174.93	1.48E-17
0	0	1715	t0968	<i>argS</i>	1.00	-174.93	3.51E-55
0	0	1754	t0976	<i>aspS</i>	1.00	-174.93	2.03E-56
0	0	929	t1096	<i>prsA</i>	1.00	-174.93	3.18E-30
0	0	833	t1097	<i>ipk</i>	1.00	-174.93	3.55E-27
0	0	605	t1098	<i>hemM</i>	1.00	-174.93	6.17E-20
0	0	1238	t1099	<i>hemA</i>	1.00	-174.93	4.91E-40
0	0	1064	t1100	<i>prfA</i>	1.00	-174.93	1.64E-34
0	0	809	t1189	<i>nadE</i>	1.00	-174.93	2.05E-26

Total inserts	Total reads	Gene length	Sys.ID	Name	Pvalue essential	Log likelihood ratio	Pvalue of no hit
0	0	1910	t1213	<i>thrS</i>	1.00	-174.93	2.26E-61
0	0	524	t1214	<i>infC</i>	1.00	-174.93	2.3E-17
0	0	179	t1215	<i>rpmI</i>	1.00	-174.93	0.00000207
0	0	338	t1216	<i>rplT</i>	1.00	-174.93	1.85E-11
0	0	26	t1217	<i>pheM</i>	1.00	-174.93	0.149432419
0	0	965	t1218	<i>pheS</i>	1.00	-174.93	2.29E-31
0	0	2369	t1219	<i>pheT</i>	1.00	-174.93	6.01E-76
0	0	1256	t1317	<i>tyrS</i>	1.00	-174.93	1.32E-40
0	0	212	t1378	-	1.00	-174.93	0.000000186
0	0	1151	t1621	-	1.00	-174.93	2.84E-37
0	0	683	t1702	-	1.00	-174.93	2.06E-22
0	0	623	t1720	<i>tmk</i>	1.00	-174.93	1.65E-20
0	0	716	t1725	<i>fabG</i>	1.00	-174.93	1.84E-23
0	0	1382	t1934	<i>asnS</i>	1.00	-174.93	1.31E-44
0	0	1304	t1942	<i>mukF</i>	1.00	-174.93	3.94E-42
0	0	728	t1946	<i>kdsB</i>	1.00	-174.93	7.66E-24
0	0	164	t1947	-	1.00	-174.93	0.0000062
0	0	1730	t1950	<i>msbA</i>	1.00	-174.93	1.17E-55
0	0	596	t1973	<i>lolA</i>	1.00	-174.93	1.19E-19
0	0	200	t1980	<i>infA</i>	1.00	-174.93	0.000000446
0	0	2564	t2219	<i>leuS</i>	1.00	-174.93	3.87E-82
0	0	1094	t2228	<i>mrdB</i>	1.00	-174.93	1.83E-35
0	0	1367	t2324	<i>cysS</i>	1.00	-174.93	3.93E-44
0	0	626	t2372	<i>adk</i>	1.00	-174.93	1.33E-20
0	0	452	t2446	<i>ribH</i>	1.00	-174.93	4.45E-15
0	0	560	t2540	<i>gmhA</i>	1.00	-174.93	1.66E-18
0	0	713	t2601	<i>dnaQ</i>	1.00	-174.93	2.29E-23
0	0	29	t2621	-	1.00	-174.93	0.120001994
0	0	530	t2630	<i>yfiA</i>	1.00	-174.93	1.48E-17
0	0	230	t2631	<i>rpsP</i>	1.00	-174.93	4.98E-08
0	0	167	t2727	<i>csrA</i>	1.00	-174.93	0.00000498
0	0	2612	t2728	<i>alaS</i>	1.00	-174.93	1.16E-83
0	0	461	t2830	<i>ygbB</i>	1.00	-174.93	2.3E-15
0	0	857	t2911	<i>lgt</i>	1.00	-174.93	6.14E-28
0	0	1080	t2959	<i>prfB</i>	1.00	-174.93	5.1E-35
0	0	719	t3094	<i>plsC</i>	1.00	-174.93	1.48E-23
0	0	1874	t3102	<i>parE</i>	1.00	-174.93	3.14E-60
0	0	344	t3126	<i>folB</i>	1.00	-174.93	1.19E-11
0	0	995	t3128	-	1.00	-174.93	2.55E-32
0	0	1727	t3130	<i>dnaG</i>	1.00	-174.93	1.46E-55
0	0	209	t3166	-	1.00	-174.93	0.000000231
0	0	1319	t3211	-	1.00	-174.93	1.32E-42
0	0	239	t3220	<i>rpmA</i>	1.00	-174.93	2.58E-08
0	0	293	t3221	<i>rplU</i>	1.00	-174.93	4.97E-10

Total inserts	Total reads	Gene length	Sys.ID	Name	Pvalue essential	Log likelihood ratio	Pvalue of no hit
0	0	953	t3222	<i>ispB</i>	1.00	-174.93	5.5E-31
0	0	707	t3236	-	1.00	-174.93	3.56E-23
0	0	410	t3261	<i>rplM</i>	1.00	-174.93	9.59E-14
0	0	1025	t3289	<i>mreB</i>	1.00	-174.93	2.84E-33
0	0	452	t3294	<i>accB</i>	1.00	-174.93	4.45E-15
0	0	527	t3311	<i>hemG</i>	1.00	-174.93	1.85E-17
0	0	1460	t3319	<i>yigC</i>	1.00	-174.93	4.38E-47
0	0	737	t3327	<i>ubiE</i>	1.00	-174.93	3.97E-24
0	0	1046	t3464	<i>hemE</i>	1.00	-174.93	6.13E-34
0	0	347	t3475	<i>rplL</i>	1.00	-174.93	9.59E-12
0	0	122	t3680	<i>rpmH</i>	1.00	-174.93	0.000133734
0	0	1382	t3681	<i>dnaA</i>	1.00	-174.93	1.31E-44
0	0	437	t3787	<i>dut</i>	1.00	-174.93	1.33E-14
0	0	1205	t3788	<i>dfp</i>	1.00	-174.93	5.48E-39
0	0	218	t3790	<i>rpmB</i>	1.00	-174.93	0.00000012
0	0	461	t3793	<i>coaD</i>	1.00	-174.93	2.3E-15
0	0	650	t3952	<i>ftsE</i>	1.00	-174.93	2.3E-21
0	0	1088	t3981	<i>asd</i>	1.00	-174.93	2.84E-35
0	0	356	t4057	<i>rpsL</i>	1.00	-174.93	4.97E-12
0	0	452	t4058	<i>rpsG</i>	1.00	-174.93	4.45E-15
0	0	293	t4064	<i>rpsJ</i>	1.00	-174.93	4.97E-10
0	0	284	t4067	<i>rplW</i>	1.00	-174.93	9.6E-10
0	0	803	t4068	<i>rplB</i>	1.00	-174.93	3.18E-26
0	0	260	t4069	<i>rpsS</i>	1.00	-174.93	5.55E-09
0	0	314	t4070	<i>rplV</i>	1.00	-174.93	1.07E-10
0	0	683	t4071	<i>rpsC</i>	1.00	-174.93	2.06E-22
0	0	392	t4072	<i>rplP</i>	1.00	-174.93	3.57E-13
0	0	173	t4073	<i>rpmC</i>	1.00	-174.93	0.00000321
0	0	236	t4074	<i>rpsQ</i>	1.00	-174.93	3.21E-08
0	0	353	t4075	<i>rplN</i>	1.00	-174.93	6.19E-12
0	0	296	t4076	<i>rplX</i>	1.00	-174.93	3.99E-10
0	0	521	t4077	<i>rplE</i>	1.00	-174.93	2.87E-17
0	0	287	t4078	<i>rpsN</i>	1.00	-174.93	7.71E-10
0	0	374	t4079	<i>rpsH</i>	1.00	-174.93	1.33E-12
0	0	515	t4080	<i>rplF</i>	1.00	-174.93	4.44E-17
0	0	335	t4081	<i>rplR</i>	1.00	-174.93	2.31E-11
0	0	485	t4082	<i>rpsE</i>	1.00	-174.93	3.98E-16
0	0	161	t4083	<i>rpmD</i>	1.00	-174.93	0.00000773
0	0	416	t4084	<i>rplO</i>	1.00	-174.93	6.18E-14
0	0	338	t4087	<i>rpsM</i>	1.00	-174.93	1.85E-11
0	0	371	t4088	<i>rpsK</i>	1.00	-174.93	1.66E-12
0	0	602	t4089	<i>rpsD</i>	1.00	-174.93	7.68E-20
0	0	971	t4090	<i>rpoA</i>	1.00	-174.93	1.47E-31
0	0	512	t4161	<i>ssb</i>	1.00	-174.93	5.53E-17

Total inserts	Total reads	Gene length	Sys.ID	Name	Pvalue essential	Log likelihood ratio	Pvalue of no hit
0	0	614	t4337	<i>cI</i>	1.00	-174.93	3.19E-20
0	0	275	t4381	<i>groES</i>	1.00	-174.93	1.85E-09
0	0	527	t4402	<i>orn</i>	1.00	-174.93	1.85E-17
0	0	377	t4442	<i>rpsF</i>	1.00	-174.93	1.07E-12
0	0	296	t4443	<i>priB</i>	1.00	-174.93	3.99E-10
0	0	512	t4468	<i>ppa</i>	1.00	-174.93	5.53E-17
0	0	2837	t4510	<i>valS</i>	1.00	-174.93	8.3E-91
0	0	1082	t4513	-	1.00	-174.93	4.41E-35
0	0	719	t4586	<i>dnaC</i>	1.00	-174.93	1.48E-23
0	0	521	t4587	<i>dnaT</i>	1.00	-174.93	2.87E-17
1	2	2396	t3684	<i>gyrB</i>	0.83	-44.08	8.35E-77
1	9	2240	t3095	<i>parC</i>	0.82	-43.35	7.5E-72
1	1	2180	t3523	<i>priA</i>	0.81	-43.06	6.03E-70
1	2	1844	t2441	<i>dxs</i>	0.78	-41.23	2.81E-59
1	7	1628	t3678	<i>yidC</i>	0.76	-39.87	2.03E-52
1	4	1628	t4382	<i>groEL</i>	0.76	-39.87	2.03E-52
1	2	1499	t2958	<i>lysS</i>	0.74	-38.97	2.53E-48
3	6	4448	t1940	<i>mukB</i>	0.74	-38.85	5.84E-142
1	1	1409	t0160	<i>lpdA</i>	0.72	-38.29	1.82E-45
1	1	1397	t4152	<i>dnaB</i>	0.72	-38.20	4.39E-45
1	4	1352	t3657	<i>glmU</i>	0.71	-37.84	1.18E-43
1	4	1340	t0128	<i>murF</i>	0.71	-37.74	2.83E-43
3	6	4010	t3474	<i>rpoB</i>	0.71	-37.71	4.72E-128
1	1	1334	t0224	<i>yaeL</i>	0.71	-37.69	4.39E-43
1	6	1331	t3295	<i>accC</i>	0.71	-37.67	5.47E-43
1	5	1313	t4085	<i>priA</i>	0.71	-37.52	2.04E-42
2	4	2618	t0592	<i>gyrA</i>	0.71	-37.48	7.46E-84
1	1	1274	t1971	<i>serS</i>	0.70	-37.18	3.53E-41
1	6	1241	t3224	<i>murA</i>	0.69	-36.90	3.94E-40
1	1	1241	t3380	<i>rho</i>	0.69	-36.90	3.94E-40
1	1	1226	t1701	-	0.69	-36.76	1.18E-39
2	10	2336	t0096	<i>imp</i>	0.68	-36.23	6.71E-75
1	1	1133	t0137	<i>ftsZ</i>	0.67	-35.89	1.06E-36
1	29	1130	t0230	<i>lpxB</i>	0.67	-35.86	1.32E-36
1	2	1112	t0586	<i>nrdB</i>	0.66	-35.68	4.92E-36
1	1	1082	t3682	<i>dnaN</i>	0.66	-35.38	4.41E-35
1	1	1061	t2987	<i>fba</i>	0.65	-35.16	2.05E-34
1	1	1049	t0132	<i>murG</i>	0.65	-35.04	4.92E-34
2	6	1964	t3131	<i>rpoD</i>	0.63	-34.31	4.35E-63
1	3	977	t1169	<i>gapA</i>	0.63	-34.25	9.51E-32
1	1	968	t0429	-	0.62	-34.15	1.84E-31
1	3	959	t1949	<i>lpxK</i>	0.62	-34.04	3.55E-31
1	1	956	t2492	<i>hemB</i>	0.62	-34.01	4.42E-31
1	2	944	t2371	<i>hemH</i>	0.62	-33.87	1.06E-30

Total inserts	Total reads	Gene length	Sys.ID	Name	Pvalue essential	Log likelihood ratio	Pvalue of no hit
1	5	911	t1726	<i>fabD</i>	0.61	-33.47	1.19E-29
3	9	2660	t3204	<i>infB</i>	0.60	-33.17	3.46E-85
1	11	881	t2440	<i>ispA</i>	0.60	-33.10	1.06E-28
1	6	860	t0370	<i>dapA</i>	0.59	-32.83	4.93E-28
1	4	860	t2637	<i>yjfB</i>	0.59	-32.83	4.93E-28
2	10	1700	t0245	<i>proS</i>	0.58	-32.70	1.05E-54
1	30	836	t1104	<i>kdsA</i>	0.58	-32.51	2.85E-27
1	10	836	t3954	<i>rpoH</i>	0.58	-32.51	2.85E-27
1	1	803	t0066	<i>dapB</i>	0.57	-32.06	3.18E-26
3	13	2402	t4141	<i>plsB</i>	0.57	-32.03	5.39E-77
3	6	2393	t0225	<i>yaeT</i>	0.56	-31.99	1.04E-76
2	12	1520	t2207	<i>lnt</i>	0.55	-31.44	5.45E-49
1	9	740	t0222	-	0.54	-31.14	3.19E-24
2	24	1457	t3951	<i>ftsY</i>	0.53	-30.97	5.46E-47
1	13	722	t3360	<i>hemD</i>	0.53	-30.87	1.19E-23
1	11	719	t2619	-	0.53	-30.82	1.48E-23
1	3	704	t2326	<i>ybbF</i>	0.52	-30.58	4.43E-23
1	1	644	t0176	<i>yadF</i>	0.49	-29.57	3.56E-21
1	1	638	t1316	<i>pdxH</i>	0.49	-29.47	5.52E-21
2	22	1256	t0334	<i>hisS</i>	0.48	-29.29	1.32E-40
3	19	1883	t2227	<i>pbpA</i>	0.48	-29.28	1.62E-60
1	1	623	t1294	<i>ribE</i>	0.48	-29.20	1.65E-20
1	7	614	t3620	-	0.48	-29.03	3.19E-20
1	1	611	t4065	<i>rplC</i>	0.47	-28.98	3.98E-20
1	1	602	t0146	<i>yacE</i>	0.47	-28.81	7.68E-20
2	15	1196	t0486	<i>fabB</i>	0.47	-28.73	1.06E-38
2	8	1190	t2139	<i>sucB</i>	0.46	-28.67	1.64E-38
1	2	587	t4066	<i>rplD</i>	0.46	-28.52	2.3E-19
2	2	1145	t2988	<i>pgk</i>	0.45	-28.23	4.4E-37
1	5	572	t1624	<i>ribA</i>	0.45	-28.22	6.88E-19
1	6	572	t2220	<i>rlpB</i>	0.45	-28.22	6.88E-19
2	8	1136	t3002	<i>metK</i>	0.45	-28.14	8.5E-37
1	12	557	t0270	<i>rpoE</i>	0.44	-27.92	2.06E-18
1	3	554	t4102	<i>yrdC</i>	0.44	-27.86	2.57E-18
5	18	2768	t3621	<i>polA</i>	0.44	-27.85	1.29E-88
2	6	1088	t1686	<i>trmU</i>	0.43	-27.65	2.84E-35
3	11	1619	t2854	<i>pyrG</i>	0.43	-27.56	3.92E-52
1	1	539	t0220	<i>frr</i>	0.43	-27.54	7.68E-18
2	12	1064	t4514	-	0.42	-27.39	1.64E-34
1	6	527	t3479	<i>nusG</i>	0.42	-27.29	1.85E-17
4	13	2096	t4059	<i>fusA</i>	0.42	-27.22	2.8E-67
4	10	2051	t3864	<i>glyS</i>	0.41	-26.97	7.52E-66
1	1	500	t1853	<i>fabA</i>	0.40	-26.68	1.33E-16
3	9	1475	t1750	<i>mviN</i>	0.40	-26.49	1.46E-47

Total inserts	Total reads	Gene length	Sys.ID	Name	Pvalue essential	Log likelihood ratio	Pvalue of no hit
1	1	491	t4098	<i>fms</i>	0.40	-26.47	2.57E-16
2	2	971	t2277	<i>fepG</i>	0.39	-26.34	1.47E-31
3	9	1415	t3120	<i>rfaE</i>	0.38	-26.01	1.18E-45
4	8	1871	t0159	<i>aceF</i>	0.38	-25.91	3.91E-60
2	2	935	t1727	<i>fabH</i>	0.38	-25.90	2.05E-30
2	30	929	t4097	<i>fmt</i>	0.37	-25.83	3.18E-30
2	6	923	t3359	<i>hemC</i>	0.37	-25.75	4.93E-30
4	11	1829	t2456	<i>secD</i>	0.37	-25.65	8.42E-59
2	3	914	t3809	<i>rfaD</i>	0.37	-25.64	9.52E-30
3	6	1352	t1688	<i>purB</i>	0.36	-25.48	1.18E-43
2	7	893	t3863	<i>glyQ</i>	0.36	-25.37	4.42E-29
1	1	443	t4408	<i>yjeE</i>	0.36	-25.28	8.59E-15
2	3	854	t4140	<i>ubiA</i>	0.34	-24.85	7.65E-28
3	117	1259	t3794	<i>kdtA</i>	0.34	-24.65	1.06E-40
2	2	839	t0223	<i>cdsA</i>	0.34	-24.64	2.29E-27
3	5	1250	t0499	<i>folC</i>	0.33	-24.56	2.04E-40
1	9	410	t3478	<i>rplK</i>	0.33	-24.37	9.59E-14
2	12	812	t0135	<i>ftsQ</i>	0.33	-24.26	1.65E-26
2	10	806	t3350	<i>dapF</i>	0.32	-24.17	2.56E-26
1	2	386	t1920	-	0.31	-23.66	5.54E-13
2	7	770	t1613	<i>fabI</i>	0.31	-23.63	3.56E-25
1	4	383	t3203	<i>rbfA</i>	0.30	-23.57	6.9E-13
5	11	1910	t2376	<i>dnaX</i>	0.30	-23.54	2.26E-61
5	10	1898	t0012	<i>dnaK</i>	0.30	-23.47	5.43E-61
7	11	2645	t0158	<i>aceE</i>	0.30	-23.41	1.04E-84
2	10	749	t2629	<i>trmD</i>	0.30	-23.31	1.65E-24
1	1	371	t0205	<i>yadR</i>	0.29	-23.20	1.66E-12
1	5	365	t3480	<i>secE</i>	0.29	-23.00	2.57E-12
1	2	365	t4091	<i>rplQ</i>	0.29	-23.00	2.57E-12
3	26	1085	t2447	<i>ribD</i>	0.28	-22.89	3.54E-35
2	21	710	t0588	<i>ubiG</i>	0.28	-22.67	2.86E-23
2	16	707	t0217	<i>rpsB</i>	0.28	-22.62	3.56E-23
1	2	347	t0125	<i>ftsL</i>	0.27	-22.40	9.59E-12
1	6	341	t3679	<i>rnpA</i>	0.26	-22.19	1.49E-11
2	20	677	t1057	-	0.26	-22.10	3.19E-22
5	9	1622	t3325	<i>aarF</i>	0.25	-21.60	3.15E-52
2	11	635	t3115	<i>ribB</i>	0.24	-21.34	6.88E-21
2	26	623	t2222	-	0.23	-21.11	1.65E-20
3	32	932	t0051	<i>lytB</i>	0.23	-21.07	2.55E-30
4	24	1223	t3124	<i>cca</i>	0.23	-20.88	1.47E-39
3	8	899	t0138	<i>lpxC</i>	0.22	-20.64	2.85E-29
3	11	896	t0498	<i>accD</i>	0.22	-20.60	3.55E-29
2	6	590	t4143	<i>lexA</i>	0.21	-20.45	1.85E-19
1	2	293	t2832	-	0.21	-20.37	4.97E-10

Total inserts	Total reads	Gene length	Sys.ID	Name	Pvalue essential	Log likelihood ratio	Pvalue of no hit
4	27	1157	t2202	<i>yleB</i>	0.21	-20.21	1.83E-37
5	14	1397	t0442	<i>gltX</i>	0.20	-19.79	4.39E-45
6	80	1649	t2189	<i>glnS</i>	0.19	-19.58	4.37E-53
7	60	1916	t3213	<i>ftsH</i>	0.19	-19.53	1.46E-61
10	30	2687	t0140	<i>secA</i>	0.18	-19.31	4.81E-86
5	35	1343	t2632	<i>ffh</i>	0.18	-19.30	2.27E-43
2	9	533	t0289	<i>yfhC</i>	0.18	-19.21	1.19E-17
1	1	266	t0630	<i>rplY</i>	0.18	-19.18	3.58E-09
4	16	1037	t3953	<i>ftsX</i>	0.17	-18.87	1.18E-33
3	11	776	t0216	<i>map</i>	0.17	-18.84	2.29E-25
3	5	776	t2910	<i>thyA</i>	0.17	-18.84	2.29E-25
2	24	512	t2181	<i>fldA</i>	0.17	-18.71	5.53E-17
5	16	1274	t0238	<i>mesJ</i>	0.17	-18.65	3.53E-41
4	21	1013	t2221	<i>holA</i>	0.17	-18.58	6.84E-33
4	10	1007	t0227	<i>lpxD</i>	0.16	-18.50	1.06E-32
1	3	251	t3201	<i>rpsO</i>	0.16	-18.47	1.07E-08
4	29	986	t1719	<i>holB</i>	0.16	-18.24	4.93E-32
5	12	1226	t0131	<i>ftsW</i>	0.16	-18.18	1.18E-39
3	45	722	t3415	-	0.15	-17.94	1.19E-23
4	10	959	t2444	-	0.15	-17.90	3.55E-31
4	27	956	t0275	<i>lepB</i>	0.15	-17.86	4.42E-31
4	21	950	t4400	<i>psd</i>	0.15	-17.78	6.85E-31
4	23	935	t3807	<i>waaC</i>	0.14	-17.58	2.05E-30
4	102	932	t3487	<i>coaA</i>	0.14	-17.54	2.55E-30
3	16	692	t2831	<i>ygbP</i>	0.14	-17.41	1.07E-22
4	11	887	t0276	<i>era</i>	0.13	-16.92	6.85E-29
3	20	659	t1941	<i>mukE</i>	0.13	-16.80	1.19E-21
1	8	218	t1724	<i>acpP</i>	0.12	-16.70	0.00000012
6	53	1292	t1703	-	0.12	-16.55	9.47E-42
4	24	848	t2321	<i>folD</i>	0.12	-16.35	1.19E-27
5	25	1034	t3288	<i>mreC</i>	0.11	-16.03	1.47E-33
3	7	608	t3214	<i>ftsJ</i>	0.11	-15.77	4.95E-20
2	16	401	t2445	<i>nusB</i>	0.10	-15.63	1.85E-13
2	7	398	t3009	-	0.10	-15.54	2.3E-13
14	38	2783	t2140	<i>sucA</i>	0.10	-15.52	4.3E-89
1	1	197	t3129	<i>rpsU</i>	0.10	-15.41	0.000000556
4	27	785	t0310	<i>suhB</i>	0.10	-15.36	1.19E-25
3	10	587	t3326	<i>yigP</i>	0.10	-15.32	2.3E-19
12	116	2336	t2410	<i>lon</i>	0.10	-15.25	6.71E-75
4	4	776	t2278	<i>fepC</i>	0.10	-15.21	2.29E-25
6	14	1160	t2975	<i>visB</i>	0.09	-15.17	1.47E-37
4	36	764	t3494	<i>murI</i>	0.09	-15.01	5.51E-25
2	4	374	t3260	<i>rpsI</i>	0.09	-14.73	1.33E-12
9	28	1655	t1953	<i>rpsA</i>	0.08	-14.52	2.82E-53

Total inserts	Total reads	Gene length	Sys.ID	Name	Pvalue essential	Log likelihood ratio	Pvalue of no hit
3	70	551	t3402	<i>cI</i>	0.08	-14.50	3.2E-18
6	50	1052	t3265	<i>degS</i>	0.07	-13.89	3.95E-34
2	6	338	t4055	<i>yheM</i>	0.07	-13.41	1.85E-11
10	16	1622	t2177	<i>pgm</i>	0.06	-12.86	3.15E-52
6	55	962	t2966	-	0.06	-12.71	2.85E-31
4	11	641	t2981	<i>rpiA</i>	0.06	-12.70	4.43E-21
8	64	1280	t2853	<i>eno</i>	0.06	-12.68	2.28E-41
3	12	473	t3287	<i>mreD</i>	0.06	-12.48	9.58E-16
2	3	311	t1835	-	0.05	-12.30	1.33E-10
13	29	1973	t2996	<i>tktA</i>	0.05	-11.97	2.25E-63
4	6	605	t3778	<i>gmk</i>	0.05	-11.92	6.17E-20
7	16	1043	t2730	<i>recA</i>	0.05	-11.72	7.63E-34
9	47	1340	t3369	<i>rffT</i>	0.05	-11.71	2.83E-43
3	22	440	t0123	<i>yabB</i>	0.04	-11.50	1.07E-14
1	7	146	t3157	-	0.04	-11.44	0.0000231
4	23	572	t2636	<i>grpE</i>	0.04	-11.16	6.88E-19
7	14	992	t0983	<i>ruvB</i>	0.04	-11.03	3.18E-32
5	73	707	t3670	<i>phoU</i>	0.04	-11.00	3.56E-23
7	104	953	t2455	<i>secF</i>	0.04	-10.48	5.5E-31
1	6	131	t4531	-	0.03	-9.94	0.0000693
16	34	2006	t3384	<i>rep</i>	0.03	-9.33	2.02E-64
4	13	500	t3235	-	0.03	-9.28	1.33E-16
8	13	989	t2276	<i>fepD</i>	0.02	-9.13	3.96E-32
4	12	491	t0424	<i>crr</i>	0.02	-9.03	2.57E-16
35	903	4205	t3473	<i>rpoC</i>	0.02	-8.72	3.04E-134
4	16	479	t3476	<i>rplJ</i>	0.02	-8.67	6.18E-16
17	85	2015	t0701	<i>metG</i>	0.02	-8.53	1.05E-64
8	29	932	t4411	<i>miaA</i>	0.02	-8.28	2.55E-30
10	63	1154	t3218	-	0.02	-8.14	2.28E-37
11	32	1262	t0203	<i>hemL</i>	0.02	-8.06	8.49E-41
9	13	1028	t3808	<i>waaF</i>	0.02	-7.99	2.28E-33
4	26	455	t2205	-	0.02	-7.93	3.57E-15
2	3	227	t3944	<i>yhhP</i>	0.02	-7.90	0.000000062
3	12	329	t2628	<i>rplS</i>	0.02	-7.40	3.58E-11
11	58	1196	t0313	-	0.02	-7.28	1.06E-38
10	48	1058	t4401	<i>yjeQ</i>	0.01	-6.87	2.55E-34
4	23	419	t4600	<i>hold</i>	0.01	-6.73	4.96E-14
2	23	209	t4444	<i>rpsR</i>	0.01	-6.69	0.000000231
12	54	1235	t0301	<i>glyA</i>	0.01	-6.46	6.11E-40
9	70	923	t0124	<i>yabC</i>	0.01	-6.41	4.93E-30
4	21	404	t3206	-	0.01	-6.18	1.49E-13
9	37	902	t1765	<i>htrB</i>	0.01	-6.07	2.29E-29
1	2	98	t4086	<i>rpmJ</i>	0.01	-5.73	0.0007732
3	13	290	t1622	-	0.01	-5.52	6.19E-10

Total inserts	Total reads	Gene length	Sys.ID	Name	Pvalue essential	Log likelihood ratio	Pvalue of no hit
10	36	938	t2274	<i>fepB</i>	0.01	-5.06	1.65E-30
5	8	458	t2641	-	0.01	-4.70	2.87E-15
1	2	89	t0694	-	0.01	-4.25	0.001493005
14	37	1232	t1682	<i>icdA</i>	0.01	-4.08	7.61E-40
17	75	1484	t3205	<i>nusA</i>	0.01	-3.95	7.58E-48
38	176	3185	t1734	<i>rne</i>	0.00	-3.31	7.4E-102
8	15	665	t1954	<i>cmk</i>	0.00	-3.18	7.67E-22
13	100	1067	t0480	<i>aroC</i>	0.00	-2.98	1.32E-34
21	53	1703	t1978	<i>cydC</i>	0.00	-2.78	8.44E-55
3	15	239	t2724	-	0.00	-2.50	2.58E-08
7	101	557	t3234	-	0.00	-2.48	2.06E-18
4	34	314	t2457	<i>yajC</i>	0.00	-2.26	1.07E-10
13	274	1010	t3489	<i>murB</i>	0.00	-2.09	8.52E-33

8.2 List of chromosomal genes comparing the differences between non-CmP6 and CmP6 passages

This list is the extension of Table 3-1. See folder Appendix 2 on CD.

8.3 List of plasmid stability genes

This list is the extension of Table 3-2. See folder Appendix 3 on CD.

8.4 TraDIS analysis scripts

See folder Appendix 4 on CD.

8.5 Isolates used for SNP typing

Strain name	Year	Country	Haplotype	Haplo-group	PST	Source
Ty2	1916	Russia	H10	H52	no	Kathryn Holt
M223	1939	unk	H8	H50b	no	Kathryn Holt
12-58	1958	Cameroon	H46	H81	no	François-Xavier Weill
27-58	1958	Morocco	H69	H52	no	François-Xavier Weill
14-58	1958	Cameroon	H77	H50a	no	François-Xavier Weill
05-59	1959	Viet Nam	H50	H50a	no	François-Xavier Weill
68-61	1961	Tunisia	H52	H52	no	François-Xavier Weill

Strain name	Year	Country	Haplotype	Haplo-group	PST	Source
66-61	1961	Tunisia	H50	H50b	no	François-Xavier Weill
69-61	1961	Tunisia	H56	H29	no	François-Xavier Weill
07-62	1962	Senegal	H52	H52	no	François-Xavier Weill
12-62	1962	Senegal	H52	H52	no	François-Xavier Weill
28-62	1962	Chad	H50	H50a	no	François-Xavier Weill
06-62	1962	Senegal	H50	H50a	no	François-Xavier Weill
13-62	1962	Senegal	H42	H50a	no	François-Xavier Weill
41-63	1963	Chad	H52	H52	no	François-Xavier Weill
63-63	1963	Chad	H52	H52	no	François-Xavier Weill
64-63	1963	Chad	H52	H50a	no	François-Xavier Weill
67-63	1963	Chad	H50	H50a	no	François-Xavier Weill
68-63	1963	Chad	H50	H50a	no	François-Xavier Weill
43-64	1964	Chad	H50	H58	no	François-Xavier Weill
06-64	1964	Chad	H52	H52	no	François-Xavier Weill
08-64	1964	Chad	H52	H52	no	François-Xavier Weill
10-64	1964	Chad	H52	H52	no	François-Xavier Weill
27-64	1964	Chad	H52	H52	no	François-Xavier Weill
62-65	1965	Ivory Coast	H83	H81	no	François-Xavier Weill
48-65	1965	Madagascar	H15	H52	no	François-Xavier Weill
49-65	1965	Madagascar	H15	H52	no	François-Xavier Weill
129-66	1966	Congo	H46	H81	no	François-Xavier Weill
29-66	1966	Algeria	H52	H52	no	François-Xavier Weill
19-66	1966	Congo	H52	H52	no	François-Xavier Weill
12-66	1966	Madagascar	H15	H52	no	François-Xavier Weill
171-66	1966	Morocco	H52	H52	no	François-Xavier Weill
84-66	1966	Tunisia	H52	H52	no	François-Xavier Weill
31-66	1966	Algeria	H36	H50b	no	François-Xavier Weill
49-66	1966	Algeria	H50	H50b	no	François-Xavier Weill
32-66	1966	Cameroon	H50	H50b	no	François-Xavier Weill
162-66	1966	Algeria	H50	H50a	no	François-Xavier Weill
37-66	1966	Cameroon	H50	H50a	no	François-Xavier Weill
102-66	1966	Senegal	H39	H50a	no	François-Xavier Weill
133-67	1967	Congo	H46	H81	no	François-Xavier Weill
42-67	1967	Ivory Coast	H81	H81	no	François-Xavier Weill
05-67	1967	Congo	H52	H52	no	François-Xavier Weill
31-67	1967	Congo	H42	H52	no	François-Xavier Weill
75-67	1967	Morocco	H42	H52	no	François-Xavier Weill
27-67	1967	Senegal	H52	H52	no	François-Xavier Weill
66-67	1967	Viet Nam	H1	H52	no	François-Xavier Weill
104-67	1967	Ivory Coast	H50	H50a	no	François-Xavier Weill
106-67	1967	Ivory Coast	H39	H50a	no	François-Xavier Weill
131-67	1967	Ivory Coast	H39	H50a	no	François-Xavier Weill
39-67	1967	Ivory Coast	H39	H50a	no	François-Xavier Weill

Strain name	Year	Country	Haplotype	Haplo-group	PST	Source
40-67	1967	Madagascar	H50	H50a	no	François-Xavier Weill
134-67	1967	Senegal	H39	H50a	no	François-Xavier Weill
49-67	1967	Viet Nam	H50	H50a	no	François-Xavier Weill
50-67	1967	Congo	H42	H42	no	François-Xavier Weill
67-67	1967	Viet Nam	H1	H1	no	François-Xavier Weill
69-67	1967	Viet Nam	H1	H1	no	François-Xavier Weill
72-1907	1972	Viet Nam	H68	H52	ST2	François-Xavier Weill
72-1910	1972	Viet Nam	H87	H52	no	François-Xavier Weill
72-1258	1972	Mexico	H11	H50a	ST3	François-Xavier Weill
ST3-40R181	1972	Mexico	none		ST3	Henry Smith
ST4-42R917	1972	Viet Nam	none		ST4	Henry Smith
73-43	1973	France	H52	H52	no	François-Xavier Weill
73-1102	1973	Viet Nam	H87	H52	ST4	François-Xavier Weill
73-114	1973	Viet Nam	H50	H50a	no	François-Xavier Weill
73-99	1973	Viet Nam	H50	H50a	no	François-Xavier Weill
75-2507	1975	India	H55	H50a	ST2	François-Xavier Weill
76-1292	1976	Zaire	H6	H81	no	François-Xavier Weill
76-54	1976	Chile	H50	H50b	7654	François-Xavier Weill
76-1261	1976	Zaire	H50	H50a	no	François-Xavier Weill
76-1406	1976	Indonesia	H42	H1	ST2	François-Xavier Weill
77-302	1977	India	H55	H50a	ST2	François-Xavier Weill
77-303	1977	India	H55	H50a	ST2	François-Xavier Weill
78-851	1978	Tunisia	H9	H52	ST2	François-Xavier Weill
80-2002	1980	Madagascar	H50	H50a	no	François-Xavier Weill
81-424	1981	Peru	H77	H50b	ST8	François-Xavier Weill
81-918	1981	Peru	H77	H50b	ST8	François-Xavier Weill
81-863	1981	Peru	H50	H50a	ST8	François-Xavier Weill
83-531	1983	Peru	H86	H50a	no	François-Xavier Weill
404ty	1983	Indonesia	H59	H29	no	Kathryn Holt
J-185SM	1985	Indonesia	H85	H29	no	Kathryn Holt
CT18	1993	Viet Nam	H1	H1	ST1	Kathryn Holt
ST1-pHCM1	1993	Viet Nam	none		ST1	John Wain
2T7466	1995	Ealing, UK	H58	H58	ST6	Fiona Cooke
230/95	1995	Viet Nam	H58	H58	no	François-Xavier Weill
162/95	1995	Viet Nam	H75	H50a	no	François-Xavier Weill
14/96	1996	Viet Nam	H58	H58	ST6	François-Xavier Weill
ST6-pSTY7	1996	Viet Nam	none		ST6	John Wain
205(97)S	1997	Viet Nam	H58	H58	ST6	François-Xavier Weill
209(97)S	1997	Viet Nam	H58	H58	ST6	François-Xavier Weill
226(97)S	1997	Viet Nam	H61	H58	ST6	François-Xavier Weill
43(97)S	1997	Viet Nam	H63	H58	ST6	François-Xavier Weill

Strain name	Year	Country	Haplotype	Haplo-group	PST	Source
E97-3246	1997	Madagascar	H17	H50a	no	François-Xavier Weill
E97-9141	1997	Turkey	H18	H50a	no	François-Xavier Weill
E98-8120	1998	Cameroon	H23	H81	no	François-Xavier Weill
E98-8119	1998	Peru	H22	H81	no	François-Xavier Weill
150(98)S	1998	Viet Nam	H63	H58	no	Kathryn Holt
30(98)S	1998	Viet Nam	H58	H58	no	François-Xavier Weill
31(98)S	1998	Viet Nam	H58	H58	ST6	François-Xavier Weill
318(98)N	1998	Viet Nam	H58	H58	no	François-Xavier Weill
339/98	1998	Viet Nam	H58	H58	ST6	François-Xavier Weill
358/98	1998	Viet Nam	H58	H58	ST6	François-Xavier Weill
38(98)S	1998	Viet Nam	H58	H58	ST6	François-Xavier Weill
39(98)S	1998	Viet Nam	H58	H58	no	François-Xavier Weill
43(98)S	1998	Viet Nam	H58	H58	ST6	François-Xavier Weill
49(98)S	1998	Viet Nam	H58	H58	ST6	François-Xavier Weill
E98-6926	1998	Mauritania	H21	H52	no	François-Xavier Weill
E98-3139	1998	Mexico	H50	H50b	no	Kathryn Holt
E98-0664	1998	Kenya	H55	H50a	no	Kathryn Holt
E98-4364	1998	Mexico	H50	H50a	no	François-Xavier Weill
E98-2107	1998	Senegal	H19	H50a	no	François-Xavier Weill
E98-2068	1998	Bangladesh	H42	H42	no	Kathryn Holt
E99-8067	1999	Algeria	H48	H81	no	François-Xavier Weill
E99-6785	1999	Morocco	H30	H81	no	François-Xavier Weill
E99-1028	1999	Senegal	H24	H81	no	François-Xavier Weill
E99-8635	1999	Nepal	H34	H58	no	François-Xavier Weill
192(99)S	1999	Viet Nam	H63	H58	no	François-Xavier Weill
197(99)S	1999	Viet Nam	H63	H58	no	François-Xavier Weill
219(99)S	1999	Viet Nam	H58	H58	ST6	François-Xavier Weill
E99-8095	1999	Algeria	H33	H52	no	François-Xavier Weill
E99-9794	1999	Comoros	H35	H52	no	François-Xavier Weill
E99-5920	1999	Tunisia	H26	H50b	no	François-Xavier Weill
E99-6359	1999	Mali	H27	H50a	no	François-Xavier Weill
E99-4879	1999	Morocco	H25	H50a	no	François-Xavier Weill
E99-8013	1999	Morocco	H32	H50a	no	François-Xavier Weill
E99-6646	1999	Algeria	H29	H29	no	François-Xavier Weill
E99-6478	1999	Guinea	H28	H29	no	François-Xavier Weill
E99-7012	1999	Morocco	H31	H29	no	François-Xavier Weill
E00-9821	2000	Congo	H46	H81	no	François-Xavier Weill
E00-7866	2000	Morocco	H46	H81	no	Kathryn Holt
E00-6111	2000	India	H58	H58	no	François-Xavier Weill
E00-9345	2000	India	H58	H58	no	François-Xavier Weill
CT111	2000	Viet Nam	H58	H58	no	OUCRU
CT115	2000	Viet Nam	H58	H58	ST6	OUCRU
E00-6172	2000	Indonesia	H52	H52	no	François-Xavier Weill

Strain name	Year	Country	Haplotype	Haplo-group	PST	Source
E00-6924	2000	Algeria	H36	H50b	no	François-Xavier Weill
E00-4624	2000	China	H8	H50b	no	François-Xavier Weill
E00-2756	2000	India	H37	H50b	no	François-Xavier Weill
E00-5869	2000	Bangladesh	H40	H50a	no	François-Xavier Weill
E00-6599	2000	Cape Verde	H41	H50a	no	François-Xavier Weill
E00-3201	2000	Mali	H38	H50a	no	François-Xavier Weill
E00-6999	2000	Peru	H43	H42	no	François-Xavier Weill
E00-7463	2000	Morocco	H44	H29	no	François-Xavier Weill
30laos	2000	Laos	H1	H1	no	OUCRU
57Laos	2000	Laos	H1	H1	ST1a	OUCRU
CT114	2000	Viet Nam	H1	H1	no	OUCRU
CT117	2000	Viet Nam	H1	H1	no	OUCRU
E01-5741	2001	Angola	H6	H81	no	François-Xavier Weill
E01-1747	2001	Cameroon	H47	H81	no	François-Xavier Weill
44Laos	2001	Laos	H58	H58	ST6	OUCRU
CT118	2001	Viet Nam	H58	H58	ST6	OUCRU
CT119	2001	Viet Nam	H58	H58	ST6	OUCRU
CT142	2001	Viet Nam	H58	H58	ST6	OUCRU
CT143	2001	Viet Nam	H58	H58	no	OUCRU
CT146	2001	Viet Nam	H58	H58	no	OUCRU
CT147	2001	Viet Nam	H58	H58	ST6	OUCRU
CT148	2001	Viet Nam	H58	H58	ST6	OUCRU
E01-7006	2001	Lebanon	H51	H52	no	François-Xavier Weill
E01-6750	2001	Senegal	H52	H52	no	Kathryn Holt
E01-8716	2001	Sri lanka	H53	H52	no	François-Xavier Weill
E01-5612	2001	Indonesia	H8	H50b	no	François-Xavier Weill
E01-7923	2001	Ivory Coast	H39	H50a	no	François-Xavier Weill
E01-1811	2001	Mali	H49	H50a	no	François-Xavier Weill
E01-9538	2001	Senegal	H80	H50a	no	François-Xavier Weill
E01-7101	2001	Togo	H39	H50a	no	François-Xavier Weill
CT120	2001	Viet Nam	H1	H1	no	OUCRU
E02-1180	2002	India	H45	H81	no	Kathryn Holt
E02-1497	2002	Ivory Coast	H81	H81	no	François-Xavier Weill
E02-2759	2002	India	H58	H58	no	Kathryn Holt
E02-1963	2002	Laos	H57	H58	no	François-Xavier Weill
E02-2159	2002	Sri lanka	H58	H58	ST6	François-Xavier Weill
DT003	2002	Viet Nam	H58	H58	ST6	OUCRU
DT006	2002	Viet Nam	H58	H58	ST6	OUCRU
DT007	2002	Viet Nam	H58	H58	ST6	OUCRU
DT008	2002	Viet Nam	H58	H58	ST6	OUCRU
DT009	2002	Viet Nam	H58	H58	ST6	OUCRU
DT014	2002	Viet Nam	H58	H58	ST6	OUCRU
DT015	2002	Viet Nam	H58	H58	ST6	OUCRU

Strain name	Year	Country	Haplotype	Haplo-group	PST	Source
DT019	2002	Viet Nam	H58	H58	ST6	OUCRU
DT021	2002	Viet Nam	H58	H58	ST6	OUCRU
DT023	2002	Viet Nam	H58	H58	ST6	OUCRU
DT025	2002	Viet Nam	H58	H58	ST6	OUCRU
DT026	2002	Viet Nam	H58	H58	ST6	OUCRU
DT027	2002	Viet Nam	H58	H58	ST6	OUCRU
DT029	2002	Viet Nam	H58	H58	ST6	OUCRU
DT030	2002	Viet Nam	H58	H58	ST6	OUCRU
DT031	2002	Viet Nam	H58	H58	ST6	OUCRU
DT032	2002	Viet Nam	H58	H58	ST6	OUCRU
DT033	2002	Viet Nam	H58	H58	ST6	OUCRU
DT034	2002	Viet Nam	H58	H58	ST6	OUCRU
DT035	2002	Viet Nam	H58	H58	ST6	OUCRU
DT036	2002	Viet Nam	H58	H58	ST6	OUCRU
DT037	2002	Viet Nam	H58	H58	ST6	OUCRU
DT038	2002	Viet Nam	H58	H58	ST6	OUCRU
DT039	2002	Viet Nam	H58	H58	ST6	OUCRU
DT040	2002	Viet Nam	H58	H58	ST6	OUCRU
DT041	2002	Viet Nam	H58	H58	no	OUCRU
DT042	2002	Viet Nam	H58	H58	ST6	OUCRU
DT043	2002	Viet Nam	H58	H58	ST6	OUCRU
DT044	2002	Viet Nam	H58	H58	ST6	OUCRU
DT045	2002	Viet Nam	H58	H58	ST6	OUCRU
DT046	2002	Viet Nam	H58	H58	ST6	OUCRU
DT047	2002	Viet Nam	H58	H58	ST6	OUCRU
DT048	2002	Viet Nam	H58	H58	ST6	OUCRU
DT049	2002	Viet Nam	H58	H58	ST6	OUCRU
DT050	2002	Viet Nam	H58	H58	ST6	OUCRU
DT051	2002	Viet Nam	H58	H58	ST6	OUCRU
DT052	2002	Viet Nam	H58	H58	ST6	OUCRU
DT053	2002	Viet Nam	H58	H58	ST6	OUCRU
DT054	2002	Viet Nam	H58	H58	no	OUCRU
DT055	2002	Viet Nam	H58	H58	ST6	OUCRU
DT057	2002	Viet Nam	H58	H58	ST6	OUCRU
DT058	2002	Viet Nam	H58	H58	ST6	OUCRU
DT059	2002	Viet Nam	H58	H58	ST6	OUCRU
DT061	2002	Viet Nam	H58	H58	ST6	OUCRU
DT062	2002	Viet Nam	H58	H58	ST6	OUCRU
DT063	2002	Viet Nam	H58	H58	ST6	OUCRU
DT064	2002	Viet Nam	H58	H58	ST6	OUCRU
DT065	2002	Viet Nam	H58	H58	ST6	OUCRU
DT066	2002	Viet Nam	H58	H58	ST6	OUCRU
DT068	2002	Viet Nam	H58	H58	ST6	OUCRU

Strain name	Year	Country	Haplotype	Haplo-group	PST	Source
DT069	2002	Viet Nam	H58	H58	ST6	OUCRU
DT070	2002	Viet Nam	H58	H58	ST6	OUCRU
DT071	2002	Viet Nam	H58	H58	ST6	OUCRU
DT073	2002	Viet Nam	H58	H58	ST6	OUCRU
DT074	2002	Viet Nam	H58	H58	ST6	OUCRU
DT075	2002	Viet Nam	H58	H58	ST6	OUCRU
DT076	2002	Viet Nam	H58	H58	ST6	OUCRU
DT078	2002	Viet Nam	H58	H58	ST6	OUCRU
DT080	2002	Viet Nam	H58	H58	ST6	OUCRU
DT081	2002	Viet Nam	H58	H58	ST6	OUCRU
DT082	2002	Viet Nam	H58	H58	ST6	OUCRU
DT083	2002	Viet Nam	H58	H58	ST6	OUCRU
DT084	2002	Viet Nam	H58	H58	ST6	OUCRU
DT085	2002	Viet Nam	H58	H58	ST6	OUCRU
DT086	2002	Viet Nam	H58	H58	ST6	OUCRU
DT087	2002	Viet Nam	H58	H58	ST6	OUCRU
DT088	2002	Viet Nam	H58	H58	ST6	OUCRU
DT089	2002	Viet Nam	H58	H58	ST6	OUCRU
DT090	2002	Viet Nam	H58	H58	no	OUCRU
DT091	2002	Viet Nam	H58	H58	ST6	OUCRU
DT092	2002	Viet Nam	H58	H58	no	OUCRU
DT093	2002	Viet Nam	H58	H58	ST6	OUCRU
DT094	2002	Viet Nam	H58	H58	ST6	OUCRU
DT095	2002	Viet Nam	H58	H58	ST6	OUCRU
DT096	2002	Viet Nam	H58	H58	no	OUCRU
DT097	2002	Viet Nam	H58	H58	ST6	OUCRU
DT098	2002	Viet Nam	H58	H58	no	OUCRU
DT099	2002	Viet Nam	H58	H58	ST6	OUCRU
1(02)C	2002	Viet Nam	H58	H58	no	François-Xavier Weill
11(02)S	2002	Viet Nam	H58	H58	ST6	François-Xavier Weill
12(02)S	2002	Viet Nam	H58	H58	no	François-Xavier Weill
14(02)S	2002	Viet Nam	H60	H58	no	François-Xavier Weill
17(02)S	2002	Viet Nam	H58	H58	ST6	François-Xavier Weill
19(02)S	2002	Viet Nam	H58	H58	ST6	François-Xavier Weill
2(02)N	2002	Viet Nam	H58	H58	ST6	François-Xavier Weill
2(02)S	2002	Viet Nam	H58	H58	no	François-Xavier Weill
20(02)N	2002	Viet Nam	H58	H58	no	François-Xavier Weill
3(02)C	2002	Viet Nam	H58	H58	no	François-Xavier Weill
4(02)C	2002	Viet Nam	H58	H58	ST6	François-Xavier Weill
4(02)N	2002	Viet Nam	H58	H58	ST6	François-Xavier Weill
4(02)S	2002	Viet Nam	H58	H58	no	François-Xavier Weill
7(02)N	2002	Viet Nam	H58	H58	no	François-Xavier Weill
8(02)C	2002	Viet Nam	H58	H58	ST6	François-Xavier Weill

Strain name	Year	Country	Haplotype	Haplo-group	PST	Source
8(02)S	2002	Viet Nam	H58	H58	no	François-Xavier Weill
SonLa-1	2002	Viet Nam	H68	H52	no	François-Xavier Weill
E02-0232	2002	French Guiana	H54	H50a	no	François-Xavier Weill
E02-0530	2002	Nigeria	H4	H50a	no	François-Xavier Weill
E02-1687	2002	Thailand	H79	H50a	no	François-Xavier Weill
E02-1687	2002	Thailand	H79	H50a	no	François-Xavier Weill
E02-5919	2002	China	H28	H29	no	François-Xavier Weill
E03-0658	2003	Philippines	H45	H81	no	François-Xavier Weill
E03-6418	2003	Bangladesh	H58	H58	no	François-Xavier Weill
E03-5712	2003	Cambodia	H58	H58	ST6	François-Xavier Weill
SD_A 102	2003	India	H64	H58	no	Shanta Dutta
SD_B0031	2003	India	H58	H58	ST6	Shanta Dutta
SD_B0111	2003	India	H58	H58	ST6	Shanta Dutta
SD_C 777	2003	India	H58	H58	no	Shanta Dutta
SD_C0294	2003	India	H58	H58	ST6	Shanta Dutta
SD_D 641	2003	India	H58	H58	ST6	Shanta Dutta
SD_D 878	2003	India	H58	H58	ST6	Shanta Dutta
SD_D0964	2003	India	H58	H58	no	Shanta Dutta
SD_E0176	2003	India	H58	H58	no	Shanta Dutta
ISP-03-07467	2003	Morocco	H58	H58	ST6	Kathryn Holt
E03-9804	2003	Nepal	H58	H58	ST6	Kathryn Holt
AG020	2003	Viet Nam	H58	H58	no	OUCRU
AG021	2003	Viet Nam	H58	H58	no	OUCRU
AG024	2003	Viet Nam	H58	H58	ST6	OUCRU
AG026	2003	Viet Nam	H58	H58	no	OUCRU
AG027	2003	Viet Nam	H58	H58	no	OUCRU
AG030	2003	Viet Nam	H58	H58	ST6	OUCRU
AG033	2003	Viet Nam	H58	H58	no	OUCRU
AG034	2003	Viet Nam	H58	H58	no	OUCRU
AG035	2003	Viet Nam	H58	H58	no	OUCRU
AG036	2003	Viet Nam	H58	H58	no	OUCRU
AG038	2003	Viet Nam	H58	H58	ST6	OUCRU
AG039	2003	Viet Nam	H58	H58	no	OUCRU
E03-6643	2003	India	H50	H50a	no	François-Xavier Weill
SD_B 765	2003	India	H42	H42	no	Shanta Dutta
E03-4983	2003	Indonesia	H59	H29	no	Kathryn Holt
03-4747	2003	Togo	H42	H29	ST2	François-Xavier Weill
ST8-SPA568	2003	Karachi, Pakistan	ParaA		ST8	Rumina Hasan
ISP-04-06979	2004	Central Africa	H58	H58	ST6	Kathryn Holt
04-2176	2004	India	H58	H58	no	François-Xavier Weill
SD_A 1672	2004	India	H58	H58	no	Shanta Dutta

Strain name	Year	Country	Haplotype	Haplo-group	PST	Source
SD_B3235	2004	India	H58	H58	no	Shanta Dutta
SD_B1868	2004	India	H58	H58	ST6	Shanta Dutta
SD_B3274	2004	India	H58	H58	no	Shanta Dutta
SD_C2114	2004	India	H58	H58	no	Shanta Dutta
SD_C2115	2004	India	H58	H58	no	Shanta Dutta
SD_D2190	2004	India	H58	H58	no	Shanta Dutta
SD_D1604	2004	India	H64	H58	no	Shanta Dutta
SD_G0677	2004	India	H64	H58	no	Shanta Dutta
ST148	2004	Jordan	H58	H58	no	Bianca Paglietti
ST298	2004	Jordan	H58	H58	no	Bianca Paglietti
ST661	2004	Jordan	H58	H58	ST6	Bianca Paglietti
ST721	2004	Jordan	H58	H58	ST6	Bianca Paglietti
SK_5982	2004	Kenya	H58	H58	ST6	Sam Kariuki
SK_5990	2004	Kenya	H58	H58	ST6	Sam Kariuki
8(04)N	2004	Viet Nam	H58	H58	no	Kathryn Holt
AG052	2004	Viet Nam	H58	H58	ST6	OUCRU
AG053	2004	Viet Nam	H58	H58	no	OUCRU
AG054	2004	Viet Nam	H58	H58	no	OUCRU
AG059	2004	Viet Nam	H58	H58	no	OUCRU
AG066	2004	Viet Nam	H58	H58	ST6	OUCRU
AG068	2004	Viet Nam	H58	H58	ST6	OUCRU
AG069	2004	Viet Nam	H58	H58	ST6	OUCRU
AG075	2004	Viet Nam	H58	H58	no	OUCRU
AG076	2004	Viet Nam	H58	H58	ST6	OUCRU
AG077	2004	Viet Nam	H58	H58	ST6	OUCRU
AG078	2004	Viet Nam	H58	H58	no	OUCRU
AG080	2004	Viet Nam	H58	H58	no	OUCRU
AG081	2004	Viet Nam	H58	H58	ST6	OUCRU
AG082	2004	Viet Nam	H58	H58	ST6	OUCRU
AG085	2004	Viet Nam	H58	H58	no	OUCRU
AG086	2004	Viet Nam	H58	H58	ST6	OUCRU
AG092	2004	Viet Nam	H58	H58	ST6	OUCRU
AG105	2004	Viet Nam	H58	H58	ST6	OUCRU
AG108	2004	Viet Nam	H58	H58	ST6	OUCRU
AG183	2004	Viet Nam	H58	H58	no	OUCRU
AG211	2004	Viet Nam	H58	H58	no	OUCRU
AG224	2004	Viet Nam	H58	H58	no	OUCRU
AG242	2004	Viet Nam	H58	H58	no	OUCRU
AG3	2004	Viet Nam	H58	H58	no	Kathryn Holt
16(04)S	2004	Viet Nam	H58	H58	ST6	François-Xavier Weill
2(04)S	2004	Viet Nam	H63	H58	no	François-Xavier Weill
21(04)S	2004	Viet Nam	H58	H58	no	François-Xavier Weill
3(04)C	2004	Viet Nam	H58	H58	ST6	François-Xavier Weill

Strain name	Year	Country	Haplotype	Haplo-group	PST	Source
4(04)C	2004	Viet Nam	H58	H58	no	François-Xavier Weill
8(04)S	2004	Viet Nam	H58	H58	no	François-Xavier Weill
SD_B1714	2004	India	H42	H42	no	Shanta Dutta
SD_C1449	2004	India	H42	H42	no	Shanta Dutta
SD_E728	2004	India	H42	H42	no	Shanta Dutta
K1071	2004	United States	H42	H42	no	CDC
K1124	2004	United States	H42	H42	no	CDC
04_6845	2004	Benin	H42	H29	ST2	François-Xavier Weill
1(04)C	2004	Viet Nam	H1	H1	no	François-Xavier Weill
05-3275	2005	Morocco	H6	H81	no	François-Xavier Weill
3T512	2005	Ealing, UK	H58	H58	no	Fiona Cooke
230	2005	India	H58	H58	no	Rajni Gaind
238	2005	India	H58	H58	no	Rajni Gaind
SD_A_1919	2005	India	H58	H58	no	Shanta Dutta
SD_A1921	2005	India	H64	H58	no	Shanta Dutta
SD_A2467	2005	India	H64	H58	no	Shanta Dutta
SD_B4716	2005	India	H58	H58	no	Shanta Dutta
SD_C_3495	2005	India	H64	H58	no	Shanta Dutta
SD_C_3634	2005	India	H64	H58	no	Shanta Dutta
SD_C_4277	2005	India	H58	H58	no	Shanta Dutta
SD_C_4932	2005	India	H58	H58	ST6	Shanta Dutta
SD_C4404	2005	India	H58	H58	no	Shanta Dutta
SD_C4529	2005	India	H58	H58	no	Shanta Dutta
SD_C4826	2005	India	H58	H58	no	Shanta Dutta
SD_C4903	2005	India	H58	H58	ST6	Shanta Dutta
SD_D_5140	2005	India	H58	H58	no	Shanta Dutta
SD_D4019	2005	India	H58	H58	no	Shanta Dutta
SD_E0856	2005	India	H58	H58	no	Shanta Dutta
SK_6010	2005	Kenya	H58	H58	ST6	Sam Kariuki
SK_6031	2005	Kenya	H58	H58	ST6	Sam Kariuki
SK_6066	2005	Kenya	H58	H58	ST6	Sam Kariuki
SK_6067	2005	Kenya	H58	H58	no	Sam Kariuki
SK_6073	2005	Kenya	H58	H58	ST6	Sam Kariuki
SK_6076	2005	Kenya	H58	H58	ST6	Sam Kariuki
SK_6130	2005	Kenya	H58	H58	no	Sam Kariuki
SK_6151	2005	Kenya	H58	H58	ST6	Sam Kariuki
SK_6152	2005	Kenya	H58	H58	ST6	Sam Kariuki
SK_6153	2005	Kenya	H58	H58	ST6	Sam Kariuki
SK_6155	2005	Kenya	H58	H58	ST6	Sam Kariuki
SK_6160	2005	Kenya	H58	H58	ST6	Sam Kariuki
AG118	2005	Viet Nam	H58	H58	ST6	OUCRU
AG119	2005	Viet Nam	H58	H58	ST6	OUCRU
AG121	2005	Viet Nam	H58	H58	ST6	OUCRU

Strain name	Year	Country	Haplotype	Haplo-group	PST	Source
AG123	2005	Viet Nam	H58	H58	ST6	OUCRU
AG126	2005	Viet Nam	H58	H58	ST6	OUCRU
AG128	2005	Viet Nam	H58	H58	ST6	OUCRU
AG129	2005	Viet Nam	H58	H58	ST6	OUCRU
AG130	2005	Viet Nam	H58	H58	ST6	OUCRU
AG142	2005	Viet Nam	H58	H58	ST6	OUCRU
AG144	2005	Viet Nam	H58	H58	ST6	OUCRU
AG148	2005	Viet Nam	H58	H58	ST6	OUCRU
AG152	2005	Viet Nam	H58	H58	ST6	OUCRU
AG153	2005	Viet Nam	H58	H58	ST6	OUCRU
AG165	2005	Viet Nam	H58	H58	ST6	OUCRU
AG167	2005	Viet Nam	H58	H58	ST6	OUCRU
AG169	2005	Viet Nam	H58	H58	no	OUCRU
AG172	2005	Viet Nam	H58	H58	ST6	OUCRU
AG174	2005	Viet Nam	H58	H58	ST6	OUCRU
AG175	2005	Viet Nam	H58	H58	ST6	OUCRU
AG270	2005	Viet Nam	H58	H58	ST6	OUCRU
AG282	2005	Viet Nam	H58	H58	ST6	OUCRU
AG284	2005	Viet Nam	H58	H58	ST6	OUCRU
SD_D5499	2005	India	H50	H50a	no	Shanta Dutta
SD_C 4190	2005	India	H42	H42	no	Shanta Dutta
SD_C 4809	2005	India	H42	H42	no	Shanta Dutta
SD_C4881	2005	India	H42	H42	no	Shanta Dutta
SD_C4892	2005	India	H42	H42	no	Shanta Dutta
SD_C5029	2005	India	H42	H42	no	Shanta Dutta
SD_C5146	2005	India	H42	H42	no	Shanta Dutta
SD_G 1197	2005	India	H42	H42	ST6	Shanta Dutta
SD_G1138	2005	India	H42	H42	no	Shanta Dutta
7	2006	India	H58	H58	no	Rajni Gaind
SK_6091	2006	Kenya	H58	H58	ST6	Sam Kariuki
SK_6301	2006	Kenya	H58	H58	ST6	Sam Kariuki
SK_6320	2006	Kenya	H58	H58	no	Sam Kariuki
SK_6322	2006	Kenya	H58	H58	ST6	Sam Kariuki
SK_6335	2006	Kenya	H58	H58	ST6	Sam Kariuki
SK_6335	2006	Kenya	H58	H58	ST6	Sam Kariuki
SK_6338	2006	Kenya	H58	H58	ST6	Sam Kariuki
JA_1031	2006	Kuwait	H58	H58	no	John Albert
JA_1050	2006	Kuwait	H58	H58	no	John Albert
JA_2076	2006	Kuwait	H62	H58	no	John Albert
JA_2342	2006	Kuwait	H62	H58	no	John Albert
JA_2553	2006	Kuwait	H58	H58	no	John Albert
JA_2610	2006	Kuwait	H58	H58	ST6	John Albert
JA_2739	2006	Kuwait	H58	H58	no	John Albert

Strain name	Year	Country	Haplotype	Haplo-group	PST	Source
JA_2756	2006	Kuwait	H58	H58	ST6	John Albert
JA_2827	2006	Kuwait	H58	H58	no	John Albert
JA_2849	2006	Kuwait	H58	H58	no	John Albert
JA_2895	2006	Kuwait	H62	H58	no	John Albert
JA_2941	2006	Kuwait	H58	H58	no	John Albert
JA_3059	2006	Kuwait	H62	H58	no	John Albert
JA_310	2006	Kuwait	H58	H58	no	John Albert
JA_3107	2006	Kuwait	H62	H58	no	John Albert
JA_3164	2006	Kuwait	H58	H58	no	John Albert
JA_3189	2006	Kuwait	H64	H58	no	John Albert
JA_3213	2006	Kuwait	H58	H58	ST6	John Albert
JA_3216	2006	Kuwait	H58	H58	ST6	John Albert
JA_3230	2006	Kuwait	*H58 precursor	H58	ST6	John Albert
JA_892	2006	Kuwait	H58	H58	no	John Albert
JA_182	2006	Kuwait	H52	H52	no	John Albert
JA_2815	2006	Kuwait	H25	H50b	no	John Albert
GG_871	2006	Ethiopia	H50	H50a	no	Getenet Bevene
JA_1251	2006	Kuwait	H42	H42	no	John Albert
JA_1254	2006	Kuwait	H42	H42	no	John Albert
JA_2316	2006	Kuwait	H42	H42	no	John Albert
GG_6	2006	Ethiopia	H31	H29	no	Getenet Bevene
84	2007	India	H58	H58	no	Rajni Gaind
90	2007	India	H58	H58	no	Rajni Gaind
SK_6665	2007	Kenya	H58	H58	ST6	Sam Kariuki
4968	2007	India	H42	H42	no	Rajni Gaind
4969	2007	India	H42	H42	no	Rajni Gaind
133	2007	India	H1	H1	no	Rajni Gaind
V.03052	?	Viet Nam	H58	H58	ST6	OUCRU
V.03818	?	Viet Nam	H58	H58	ST6	OUCRU
ST2-44R311	1970s	Thailand	none		ST2	Henry Smith
57	2005-2007	India	H58	H58	no	Rajni Gaind
32-TFS	unk	Bangladesh	H58	H58	no	OUCRU
40-TFS	unk	Bangladesh	H62	H58	no	OUCRU
CIS9662/06	unk	unk	H52	H52	no	François-Xavier Weill
M453	unk	unk	H52	H52	no	Derek Pikard
M464	unk	unk	H53	H52	no	Derek Pikard
CIS9661/06	unk	unk	H50	H50a	no	François-Xavier Weill
M513	unk	unk	H50	H50a	no	Derek Pikard
SD_C 1468	unk	India	ParaA		no	Shanta Dutta
SD_D 3581	unk	India	ParaA		no	Shanta Dutta

8.6 SNP data in phylip format

See folder Appendix 6 on CD

8.7 List of SNP used in the GoldenGate assay

See folder Appendix 7 on CD

8.8 Mobile elements and resistant genes detected by GoldenGate assay

See folder Appendix 8 on CD