Supplemental file 1: Primer and probe sequences.

Hybridisation Probes

No	Name	Sequence
1	hp-101-abiGI	AGAGGCTACCGCTTTAATACTCCTCCA
2	hp-102-abiGI	AGGTTACCGTTTCAGGAATACTCCATTGA
3	hp-103-abiGII	TCCATTTGGATATTGCGACAGGTGATGT
4	hp-104-abiGII	ACAAATGATCCATCTAGATATTGCAACTGGTGA
5	hp-105-alp	TGAATTGACTACTGTTGGTGCAGCTAGT
6	hp-106-alp	CCAGGTACAGCTACTATTACGTACAACATCC
7	hp-107-alp	CTGATTAAATTGGAACCGGGATACACTGC
8	hp-108-alp	GTGTTAGCAGCTGAAGTAGTTGAAGGAAG
9	hp-109-alp	AGTTGCTGCATCTACAATTCCAGGGA
10	hp-110-alp	CAGAGTACAGGAAGGGCTAGTCTTACCT
11	hp-111-alp	GTTTGCAGCTGAGGTGATTTCAGGAAG
12	hp-112-alp	TGTGTTTGCAGCTGAAGTAATTTCAGGAAG
13	hp-113-alp	TGACAGCTGTTGGTGTAGCTACTATCA
14	hp-114-alp	TCTTCCGCTTAAGGATAGCAACGAAC
15	hp-115-alp	ACAGGATTAGTGAAGATTCCAGAAGGATCA
16	hp-116-bac	AGCAACTAGAAGAGGAAGCTCATTCGA
17	hp-117-bac	CCTAAGCTTCCAGATGCACCGAAGT
18	hp-118-bac	ACGAACCACTTCAGTTTGTTTGCGA
19	hp-119-bps	GCAACTTTAGCAGCAACATCACCAAC
20	hp-120-cadC	GGTGTTACGGTTGCAAATACCTCTCATC
21	hp-121-cadD	GGACAATTTCTAGGCTCTGTTAGTCTAATATTCC
22	hp-122-cadD	AGTCCCTTCTGTTGGAGAAACTTTGGA
23	hp-123-clp	GGTTAAGATTGTTGGTATTGCTGCTTCG
24	hp-124-tetM	ACGCCAGGACATATGGATTTCTTAGCA
25	hp-125-ssp5	ACTGGTAAAGAGACAAATGCTTGGGTTG
26	hp-126-ssp5	GTGACGGATGATGTTCTTGCCAAGG
27	hp-127-ssp5	CAAGGAGATATGCCAACCCAAGTGG
28	hp-128-ssp5	ACTATTGTGAATCCGATGACGGTTCGT

Labeling primers

No	Name	Sequence
1	lb-501-abiGI	GGAGTAGGTACAGTAGTCATTCC
2	lb-502-abiGI	AGGAGTTTCTACACTAATAACTCCA
3	lb-503-abiGII	AGCTTTATAGTCGTATGTTATCGG
4	lb-504-abiGII	TTGCTTTATAGTCATAGGTAACGG
5	lb-505-alp	CTCCGAAACATTTGCATAAACT
6	lb-506-alp	CAAGACTTACAATATCTATTTGACCA
7	lb-507-alp	CAACACTAACTATATCAATTTGTCCA
8	lb-508-alp	GTCATGGCAGTATTTAATGTTGC
9	lb-509-alp	AGTGATGCTTGTATTTAAGGTCG
10	lb-510-alp	ACTAAAGCGGAATTTAATGTAGCA
11	lb-511-alp	AGTCATATTTGTGTTTAACGTAACAG
12	lb-512-alp	CTTCGTATGAGGACTTCCATCT
13	lb-513-alp	CGTTTACAATATCCACTTGACCA
14	lb-514-alp	CTGGTACGTCTGTATTCGGA
15	lb-515-alp	CTCCTACTTTGACCGTTTGG
16	lb-516-bac	CCTCCACAACTTGTTTCAACT
17	lb-517-bac	CTGCTTGTCCAACTTTATTTAACC
18	lb-518-bac	GTAGAAGGTTTAGTCTGCTTCG
19	lb-519-bps	CGTCCTCTTGTCTACTGATGG
20	lb-520-cadC	ACTTAACAATCCCTTGCTTATGG
21	lb-521-cadD	TGGAATCAAACCGAGTAAACCT
22	lb-522-cadD	CCCAATCCTAAATAGACAACGG
23	lb-523-clp	GGACTAATCTCAACAACATCACC
24	lb-524-tetM	TGCAGAAATCAGTAGAATTGCC
25	lb-525-ssp5	CACATCAGCATCTGCATACC
26	lb-526-ssp5	CTGGGTAATCGTCTACCATGT
27	lb-527-ssp5	GGATTGTAGGGAGTCACTGT
28	lb-528-ssp5	CCACATTATCATAAGACTTCCCT

Hybridisation Probes

29	hp-129-srr	TCAACCGAGAGCGATGAGAGTTGTATC
30	hp-130-srr	CCGAATCTCAACACGAAGTTAAGCATCA
31	hp-131-srr	CCACAAGTTCTTCAAGCTCAGTGACTTC
32	hp-132-srr	AAGATGTATCAAGCGAGTTGCAGAAAGT
33	hp-133-srr	GGTAAAGACGTATCAAGTGAGTTTCAGAAAGT
34	hp-134-speM	TGGTATCAAGATAAAGACCATGTGAAGGGT
35	hp-135-sip	GCTGATTTGGTAAAGCAAGACAATAAATCATCA
36	hp-136-sip	AGTATTTATGGACCTGCTAATACTTGGAATGC
37	hp-137-scpB	ACTAGTATGTCTGCGCCATTAGTAGCG
38	hp-138-scpB	ACTAGTATGTCTGCACCATTGGTAGCG
39	hp-139-scpB	AGCGTATTGCTTATACTTACATGGATGAGGA
40	hp-140-scpB	AGCGTATTGCTTACACTTATATGGATGAGGA
41	hp-141-rogB	TCATGTCATCAACTTGGTTTATCTGAACTACT
42	hp-142-rogB	CGACTCCACTTATCACCAGTTGAGC
43	hp-143-rogB	TCCTTTGTGCTCACCTAGAAAGAATTATCAA
44	hp-144-rogB	CTTCTCCTTTGTACTCATCTAGAAAGAATCATCAA
45	hp-145-rogB	TCTTATTCTGTGCTCATCTGGAAAGGGTG
46	hp-146-rogB	TGCTCTGTGCTCACCTTGAAAGAGT
47	hp-147-Q3K0L2	CGACAATGTATGAAATCGTTTGGCGTTTG
48	hp-148-Q3K0L6	TGGAGTTGTTATAACGAGAATATTAGGGAACAAA
49	hp-149-rhaD	ACCACCGTGTTGTTATTCATAATCACGC
50	hp-150-rgfD	GGTTTATCTATTAGAACAATTAATACGAGGAGACGA
51	hp-151-rgfC	CCAATTTACGAATGGGTGCATGGTGA
52	hp-152-rgfC	TCTCCAATTTACGAATGGTTGTATGGTCAGT
53	hp-153-rgfC	TGAAAGTTATTGACCGTTATCCCAATGCA
54	hp-154-rgfC	TGTCAGGGGAGTTATCAATCGTTATCCA
55	hp-155-rgfB	TCCTACTGGAAATCAGGGTTATGAACTTGT
56	hp-156-rgfA	AGCAGAAGGATTGAAGAAGTTTTACTATATGCT
57	hp-157-rgfA	GCCAAAGGATTGAGGAAGTATTGTTGTACG
58	hp-158-rgfA	AGAATGGAATTCACAGCCACTTTGGG
59	hp-159-Q8DZ44	ACAAGGGGATGTGATAGACTTTGTACAGT
60	hp-160-Q8DZ44	CAGGGAGATGTGATTGACTTTGTTCAGT

Labeling primers

29	lb-529-srr	ACAGTTGTTACATCTCCTTCAC
30	lb-530-srr	TAGAAGGTAAGGCAGAATACACC
31	lb-531-srr	CCGAGTTATCACCTGTTTCTG
32	lb-532-srr	AGGCTCACTAAGAGTGTTATCT
33	lb-533-speM	CGTTGATAAGTCAACTTCTTCTTC
34	lb-534-sip	GCTTAGTGTATCACCATATTTCACA
35	lb-535-sip	GTAACGCCACCACGATCT
36	lb-536-scpB	TGGTGTCATATCAGGATACTGT
37	lb-537-scpB	GGAAGAGTAAAGGTACCATCTTCA
38	lb-538-rogB	TCGATATTCAGAGAGAGTTGACT
39	lb-539-rogB	GGATATGGATAGAAAGTTTATGACCA
40	lb-540-rogB	TAAAGTCTGTAGTTAGTACGGCT
41	lb-541-rogB	CAACACAACTCTTATAGGAGGC
42	lb-542-rogB	GCAACACAATATTTATAGGAGGC
43	lb-543-Q3K0L2	TTCAAACATTTCTCCAACTACATGT
44	lb-544-Q3K0L6	GTACTGCATGAACTTGTTGAGA
45	lb-545-rhaD	TCTATCGTTAAACGTCGACTAGT
46	lb-546-rgfD	TCTCTAAACGTGCCTGTTGA
47	lb-547-rgfC	CGGTAAATAACAGTATTGATGGCT
48	lb-548-rgfC	TCGAAAGTTTGGCAGAAACT
49	lb-549-rgfC	CTAAGCCCTGACGGAAAGT
50	lb-550-rgfB	GCTATCCTTTAATGCTAATGGACT
51	lb-551-rgfA	GGTACTTGTACTTGACTATAGCG
52	lb-552-rgfA	GTAATTGTACCTGGCTGTAACG
53	lb-553-rgfA	GATGACATTGAAAGAGCCTAGG
54	lb-554-Q8DZ44	CCAGTTTCAAGGTAAGACAAGG
55	lb-555-Q8DZ44	CCCGTTTCAAGATAGGATAGAG
56	lb-556-Q8DZ34	GCTCATCATCAAAAGGAGTATCA
57	lb-557-Q8DZ34	GATACTCATGACAAAGCTCATCA
58	lb-558-pilC2b	TGAACAGCTTTTGTTAGTAGATTGA
59	lb-559-pilC2b	TGCTACTGTAGGAGTAATCGTC
60	lb-560-pilC2a	TCAGTAGGAGAAGTCAAGATACTC

Hybridisation Probes

61	hp-161-Q8DZ34	GGGAAATCCTTTGACTTGGATTGTCTCA
62	hp-162-Q8DZ34	GCAAATCCCATCACCTGGATTGTGT
63	hp-163-pilC2b	ACACAAGTAAACCTTGATAGTAACCAAGCC
64	hp-164-pilC2b	CCTAAGGATGGGAAGTACGATATTACAGCA
65	hp-165-pilC2a	AGCCAAATGACAGATAGCGAATTGAACC
66	hp-166-pilC2a	GGACGATTTACGACCGATCAAGATGG
67	hp-167-pilC1	GCTTAAAGTTGGTGTGGATGGTGATACC
68	hp-168-pilC1	CAGATTCATCAGGGCATATCAGAATTTCCG
69	hp-169-pilB2b	AGCCAGGTAACTTCATCAACATCTAGTTCTC
70	hp-170-pilB2b	AGCCAATGTTGGAAATAACCAAGTTGGA
71	hp-171-pilB2b	CGTTACCTAACTTCAACTGGAGTATCAGGA
72	hp-172-pilB2a	CTGGTTACGCTAAATTAGCAGGTGATGT
73	hp-173-pilB2a	CCAACTGGTTATGCTAAATTATCAGGTGATGT
74	hp-174-pilB2a	CCAACAGGTTATGCTAAATTGTCAAGTGATGT
75	hp-175-pilB2a	AGGTTATGCGACATTGTCAGGTGATGT
76	hp-176-pilB2a	GCTCCAGCAGGATTTGCTAAGTTGG
77	hp-177-pilB2a	CAGGTTATGCTAAATTGTCAGGCGACA
78	hp-178-pilB2a	ACTTTGGCGAGGGATCTAAAGAAATCGA
79	hp-179-pilB2a	AGGTTCTAAAGAAATTGACGGTGCTTTCT
80	hp-180-pilB2a	GGATATTTTGGGCAAGGTTCTAAAGAAATCG
81	hp-181-pilB2a	CCTTAAATCTTATTTTGGCTCAACCGATGCT
82	hp-182-pilB2a	GCGAAAGAAATCGCAGGTGCTTACT
83	hp-183-pilB2a	TGGATAGCTACTTTGGCAATGACTCAAAAGA
84	hp-184-pilB1	TCGGAAATTACTTCTAATGGTGGTATCGAGA
85	hp-185-pilB1	AGACGGTACGTTTGAGATTAAAGGTTTGG
86	hp-186-pilA2b	ACAAGGTAAGGAGACAATGTATCAGTCATCC
87	hp-187-pilA2b	TCCTCAAGGTAAAGAAGCTGAGTATAAAGCT
88	hp-188-pilA2b	GAGTTGCCTTCAACAGGTGGTATTGG
89	hp-189-pilA2a	GATTTCTGAATATCATGAGGAAGGTGACAAGC
90	hp-190-pilA2a	ACCTACTTCACACTCAGAAAGCAAAGTAGA
91	hp-191-pilA2a	GCAAACAGTGATAATAGGGTTGCATTAGTTACC
92	hp-192-pilA2a	TGTTGAAAACCGAGCAGCTTTAGTTACT

Labeling primers

61	lb-561-pilC2a	CCTCAATTTCTCCCTTATCATCA
62	lb-562-pilC1	TCATAAAGTTCAAAGACAACGC
63	lb-563-pilC1	TGATATCCTGACTGTGTCTCG
64	lb-564-pilB2b	TCTGTTACACTAGAAGCAGGAG
65	lb-565-pilB2b	TCATTAGGTAAAATGAACTCACCC
66	lb-566-pilB2b	CACTGGGAAGTATAAACTCACC
67	lb-567-pilB2a	ACCTGTTATGTATGACCCTTGA
68	lb-568-pilB2a	CCTTTGCTATATGATGTGGCAG
69	lb-569-pilB2a	AGAACCTTTACTGTATGAAGTAGC
70	lb-570-pilB2a	CCCTTCGCTATACGATGTATCA
71	lb-571-pilB2a	TCTGCTTTTGAGCTGTTTCC
72	lb-572-pilB2a	ACTTGTGTAAGAATCGTGTCC
73	lb-573-pilB2a	TCAAAGCTAAAGCAAAGAACG
74	lb-574-pilB2a	CCTTAACATATTGTACGACACCA
75	lb-575-pilB2a	TGTCTGACTTTCATTCATAACCG
76	lb-576-pilB2a	CCAAAGTATCGACTTCCTTACC
77	lb-577-pilB2a	GTGATGTATTTAGTACCAGCTTCA
78	lb-578-pilB2a	TCATTAGCTTTGATATATTCACCCT
79	lb-579-pilB1	ACATTGTCACCAAGTTTAGCA
80	lb-580-pilB1	TGTAAGTTACTGCTGTACCCT
81	lb-581-pilA2b	GTTCTCCCTCCATTAGTAGTTGT
82	lb-582-pilA2b	CCTCCTGTAGTTGAGGTCG
83	lb-583-pilA2b	CACGATACCTGCTCCTATTACT
84	lb-584-pilA2a	CACCTGTTACCTCAGTAGTTACT
85	lb-585-pilA2a	GGTGGAATATGCGTGTTGG
86	lb-586-pilA2a	GACATCTACACTCCTACCATCA
87	lb-587-pilA2a	AACTTTAACTGTCCTTCCATCAA
88	lb-588-pilA1	ACTGTAATTATGTGTAGTTGCTGT
89	lb-589-pilA1	CCCTCATTACTCATTACAGAGAGT
90	lb-590-pepS8	CAATAACTGCAACAACAGTTCC
91	lb-591-pepS8	TGATATTGTTATACGTGCTTCTGG
92	lb-592-nss2	TGATATGGCTCTTTAACCACAG

Hybridisation Probes

93	hp-193-pilA1	GGTAAAGCGCTGAATGATAGTGTATCATGG
94	hp-194-pilA1	AGTTCCTGTTACTGGAGGAACGACAC
95	hp-195-pepS8	TGGTTTGCCAGAAGTTTGGAACAACTC
96	hp-196-pepS8	GCAGTCAATTATTAGTTGAATCAGAAGCAGCT
97	hp-197-nss2	CGAGTTACATGTTTATACTGACCATAACATGCA
98	hp-198-nss2	GAGGAATATATGGAAATTGTTAGCGATGTCAGG
99	hp-199-pavA	AGCTAAGCAACAAGACGAACTTCTAGCT
100	hp-200-pavA	GAGTTGTGGTTTCATGCCAAGGATATCC
101	hp-201-nss1	CGTCAACTTGGTTATGATGAAATGGGAATCT
102	hp-202-nss1	AGAAGATAGCAACTCTCTTGCGAAATGGT
103	hp-203-merR	TCATATGATGACGTTAAGCGTGTTGGG
104	hp-204-merA	GTCTAGTTATCGTCGTGGTGAAGCAGT
105	hp-205-merA	GGCAGTAGAGAAGTCATTGAATCAGATCAGT
106	hp-206-hylB	CCTGTATCTGGAAGCTGGTCACATACA
107	hp-207-hylB	AGTCAATGGACAAATCTTTACGGAGCCA
108	hp-208-hylB	AGCTATTCGTACTGTAAAAGAGAGTCTGGC
109	hp-209-gtfB	GTAGTGGTGCTGATATTGTTGACTTAGGTGT
110	hp-210-gtfB	TTGGGAGATAAAGGGAAATAATATAGAGGCTGA
111	hp-211-gtfB	ACATAGGTGCTTTGACCGAGATGTCTAG
112	hp-212-gtfB	TCATATTGCAGCGTACACAGAAATGTCTT
113	hp-213-gtfA	GGATAAAGTGCATCGTGTAGAAATCGTTTCAA
114	hp-214-gtfA	ACATCGTCCAAAGGGTAGAGTATCTTATGG
115	hp-215-gtfA	GTGAGGGGTTTGGCTTAACTTTACTTGAAG
116	hp-216-gtfA	GGTTTAACCTTGATGGAGGCAATCGG
117	hp-217-gbsi1	CACTATCGAGCAGATGGATGACTATCTTCAC
118	hp-218-gbsi1	TGTCCCTGGTTCATAATATCATTCAAGATGG
119	hp-219-femH	ACCTTATGATACCTACCAAGAGTTTACTGGTG
120	hp-220-femH	TCGTCAACGTACTGAGCTTGTCAATCA
121	hp-221-femH	TGATGATTACCAATTATTCACTAGTTCGGGAGT
122	hp-222-femH	TCATAGGCAACGCTCTGAAATAATTAATCAACTG
123	hp-223-fbsB	CGATAGTCAAGTATAATGCGGGTAATGTAGA
124	hp-224-fbsB	TGGTGCAGTCAATGTATTGAGAGAAGATACA

Labeling primers

93	lb-593-nss2	ACTGCATCGGTTAATAGTTTTCG
94	lb-594-pavA	AGATAGGTAGTTAGAAGCTCTCCT
95	lb-595-pavA	GTCACTTGGATTGAGGTTATCC
96	lb-596-nss1	CCTAGTACTTCTTTCACCATGC
97	lb-597-nss1	CATATGCACAGCATCTATCAACA
98	lb-598-merR	TAAATCTCGCTTAAAGAGAAACCA
99	lb-599-merA	CACTTTCAACCTCAATATCATCG
100	lb-600-merA	CGTATTTGGTTTTCTTCCAGTG
101	lb-601-hylB	TCTTTATCAATCCAAGCAGACC
102	lb-602-hylB	TGGTCGATATAAGTATTCCAATCC
103	lb-603-hylB	TTGGCAGAGCCTTCTATATCT
104	lb-604-gtfB	CGCTTATGATTTGGGTTTGC
105	lb-605-gtfB	ACGTTTATACTTCGGCTCTTGA
106	lb-606-gtfB	GTGATATTTGGGTAGAGTACAACA
107	lb-607-gtfB	TGAAATATTCGGATATAGCGTTACA
108	lb-608-gtfA	ACTCTGAGAAAGTACGTGTATAACT
109	lb-609-gtfA	TCTTCGGGAGCATAATATTCTGA
110	lb-610-gtfA	GAACATCAAACCCAATCAAAGGA
111	lb-611-gtfA	GGAACATCTAAACCAATTATCGGA
112	lb-612-gbsi1	GAACCGGTTGAGGTTTATAGC
113	lb-613-gbsi1	GTACTTACGAATCAGTGACTCC
114	lb-614-femH	CATCAATAAGATAGGTGTTCGGT
115	lb-615-femH	TCTTTGCGACGTTTATCTAAACT
116	lb-616-femH	TCTTCAATCAGATTATCATTTCCCT
117	lb-617-femH	GACTGAACTTCTTGTCGTCG
118	lb-618-fbsB	GCGTTCAAGTTCATCTACTATAACA
119	lb-619-fbsB	AGCACGATTCCAAATCATATTCTC
120	lb-620-fbsB	GCAGTATCCAATAAATAACGAAAATCA
121	lb-621-fbsB	CTCCTTGAATGCCTACAGAAG
122	lb-622-fbsB	CCAGGAGCATCTTTTGAAACA
123	lb-623-fbsB	TCTCTATCTCTGATATGTGAAACCC
124	lb-624-fbsB	CCATTTACTTCAGTATCAGTAGTCG

Hybridisation Probes

125	hp-225-fbsB	TTCGGTCATAAAATAGCGTATGGATGGAAA
126	hp-226-fbsB	AGTTACAGAACTGTTGGAACGAATGAAATCG
127	hp-227-fbsB	GGGAGCATAAAGATGAAGCAGAAATACTGG
128	hp-228-fbsB	TCCAGGACCCTATATTAGAAGGGTTAGTGAG
129	hp-229-fbsB	GAGGAGTCATCTCAGAAAGCAAGGATAAC
130	hp-230-fbsB	TCTAAGATTCAGCATTCGAAGACGGATTTGA
131	hp-231-ermC	GGCAGAAGTTGATATTTCTATATTAAGTATGGTTCC
132	hp-232-ermC	AGCACAGCTACAGAAAGTTATTTAATAGTGGA
133	hp-233-ermC	TGTCTTTGAAAGTGAAGCAACAGTTAGTTACT
134	hp-234-ermB	TCGTGTCACTTTAATTCACCAAGATATTCTACA
135	hp-235-ermB	TTCACCGAACACTAGGGTTGCTCTT
136	hp-236-ermA	TGAAAGCAATTCGAAATATAGTTACCTTATTGTGG
137	hp-237-ermA	CGTTGAGAAGGGATTTGCGAAAAGATTG
138	hp-238-ermA	TGTAGAGAGGGGATTTGCTAAAAGGTTG
139	hp-239-ermA	CGACATCAACCATTGATTTCAAAGAAGGACT
140	hp-240-ermA	TGAAAGGCATAAACCATTTATTTTAAAGAAGGACT
141	hp-241-emrB	AGTAGGACGTATTATTCAAGCGATTTCTGTAGG
142	hp-242-emrB	TGGAGCTGTATATGATAAAGTTGGTGCAAGA
143	hp-243-cpsQ	ACGATTACCCTCAGAATGTTACTATTCGCTATAC
144	hp-244-cpsQ	TCACCAATATAAGTCTGTAGTAAGAAGGAGTGAG
145	hp-245-cpsR8	TGGAGTATTCCTGTACGTCGCTATTGG
146	hp-246-cpsP	ACCTCCTCTTCGTAAGGGAAGTCAGT
147	hp-247-cpsN	AGATATGTAGGCCTTGTTTATCCTCGATATTCA
148	hp-248-cpsN	GGTAATACCTACACTAAAGAGTGAAGAGGCT
149	hp-249-cpsM	AGTTATACATTATTGTTGGTTTGGAGGAAATCCCT
150	hp-250-cpsM	AGCTAGGGAGTTAAGTTATGATGTGAATACAG
151	hp-251-cpsM	GGTAAGGTTGATTGTCTGACTAGTGTTACC
152	hp-252-cpsM	GCAAGGGAGATTAGTTGTGATGTGAATACAG
153	hp-253-cpsM	CTTGTGAGCTACCTGGAGAGGTTAATACAG
154	hp-254-cpsM	TGCTTTCGTGTCTGATTATGCTAGATTGGA
155	hp-255-cpsG	TGCTATTGATCAAGAAGTGTTCATTCAAACG
156	hp-256-cpsG	GGAGAAAGCAGTTTGGTGAACATATCAATGA

Labeling primers

125	lb-625-fbsB	GCAATTTCTCTTAAATCATTGAAGC
126	lb-626-ermC	GTGAACGATTTGTATTTAGCAACC
127	lb-627-ermC	GCTATTCACTTTAGGTTTAGGATGA
128	lb-628-ermC	AGAACGATTTGTATTGAGTAGCC
129	lb-629-ermB	CCTCTGTTTGTTAGGGAATTGA
130	lb-630-ermB	ACTGTTTACTTTTGGTTTAGGATGA
131	lb-631-ermA	TCTCCACCATTAATAGTAAACCCA
132	lb-632-ermA	CGATATTCACGGTTTACCCA
133	lb-633-ermA	TTCCACCATTAACAGCAAACC
134	lb-634-ermA	CCACCATCAATAGCAAACCT
135	lb-635-ermA	ACATGATATTCCCTGTTTACCCA
136	lb-636-emrB	CATAACAACCTGCATCAAAGG
137	lb-637-emrB	CGTCGCTACACCTAGTATGG
138	lb-638-cpsQ	GACTTCATTTCGGAACTCTTCA
139	lb-639-cpsQ	ACCTAGCATCTAAATCAACTTTCA
140	lb-640-cpsR8	AGCATACTTAACCATTAGTCTTTCT
141	lb-641-cpsP	CCAATAATCCAGTCAGTAAACTCTC
142	lb-642-cpsN	GGATTCAACCAATTATTACCTTGG
143	lb-643-cpsN	ACCTTGCTACCTTCCAAAGA
144	lb-644-cpsM	TCATAATCCGGACATTGTTCTC
145	lb-645-cpsM	CGTAATCTGGACATTGTTCTCTC
146	lb-646-cpsM	TCTTCGTATACCGACATATTGTCT
147	lb-647-cpsM	CCAACTTCCTTCGTAATGATGT
148	lb-648-cpsM	AGTGATGTCCTTTAACAGCG
149	lb-649-cpsM	AGTAAATCTGTGGTAATTGCCA
150	lb-650-cpsM	CATCTGTATCTAAATATATCCCACCA
151	lb-651-cpsG	TGACCACTGACAATTCTGAGG
152	lb-652-cpsG	TGTAACCTTTCAATATCTACAACGA
153	lb-653-cpsG	CCAAGCCAAGGGATACAGG
154	lb-654-cpsG	TCAACTTGACCTTATTAACAAAATCT
155	lb-655-cpsG	TTCATATTTCAAGAATAACTCTTTCAAA
156	lb-656-cpsH	AGTAAAGAAACGGTAGATAAATAGCA

Hybridisation Probes			Labeling primers		
157	hp-257-cpsG	CCATAGTAGTTCCCAGACAAGAACAGTTTG	157	lb-657-cpsH	CTTCGCGTAATAAATTCTACCAC
158	hp-258-cpsG	AGAACAGTTTGGAGAGCATGTGAATAATCA	158	lb-658-cpsH	GAATAAAGTTAGGATGACCAAAACC
159	hp-259-cpsH	TGGATTTAATCATCCCAATACCTTACATGCCT	159	lb-659-cpsH	CTCTCCCTACTATACCTAATGTAGT
160	hp-260-cpsH	GCACCGTATGTACAGTTTATTGCGATGT	160	lb-660-cpsH	AGCCCTTCCCACTATACCA
161	hp-261-cpsH	AGGGATGGACAATTTATTCTGAGAAGTGACT	161	lb-661-cpsH	TGAGTACCTCTAATGAGTATTGCA
162	hp-262-cpsH	TGAAGAATTTGATCCTAATCATTGGAGTGTTG	162	lb-662-cpsH	TGAATAAAGTTGGGATGCCCA
163	hp-263-cpsH	TTGAGGAAATAGATCCTAATCATTGGAGTATTGT	163	lb-663-cpsH	TGATCACGAGTTTTCTTCTTTCA
164	hp-264-cpsH	TGGAAGAGTGAGTTTAGAATATCTATAAGCAATTCT	164	lb-664-cpsH	AGATAGTAACGAGTTTTCTTCTTTCA
165	hp-265-cpsH	AGAGATGGACATTTCATTCTGAGAAGTGACT	165	lb-665-cpsH	ATGATAACGAGTTTTCTTCTTTCAA
166	hp-266-cpsH	AGTGATGTTAGTTGCAATTTTACTGTGTGGAA	166	lb-666-cpsH	ACCTAAAGAAGTGGCACCA
167	hp-267-cpsH	AGTAATGTTAGTTGCAATCTTATTGTGTGCAA	167	lb-667-cpsH	ACATTTACGATATAGTTCTCAACAGT
168	hp-268-cpsH	GATGTTTGTTGCAATCTTCTTGTGTGGAA	168	lb-668-cpsH	CCATTGCTCTTTGAGTATGCA
169	hp-269-cpsH	TCTATCAAGTTCCCATGTTTACTGTTGCAG	169	lb-669-cpsH	TGGTAAAATAATAAGGACACAACCC
170	hp-270-cpsH	ACTAGTGATTATCCCATTATTGATGTCGGCA	170	lb-670-cpsH	CACCATACATACTCAATAACATAGAGT
171	hp-271-cpsH	GGTAGAGATTTGATTGGGTCAGACTGGA	171	lb-671-cylD	CCTTTGTTAGTCATCACGTCA
172	hp-272-cpsH	GAGTCATTGCTGCATTCAATTCACTGG	172	lb-672-cylF	CTGATCTGATGTGCTCTAACAAG
173	hp-273-cpsH	TCATTTACAACTTGTAGACGGCTTAACTCTTTT	173	lb-673-cpsI	GAGTTTTCGTTGAATTTCTGATTCA
174	hp-274-cpsH	CATTTACAGCTTGTAGACGGCTTAACTCTTTT	174	lb-674-cpsI	TGTCCACTGTAACTCTATCTGAG
175	hp-275-cylD	GTGTAATTGCTATGGATCAAGTCAACCGT	175	lb-675-cpsI	ACAATGTTTCGACGAAAGAAAGT
176	hp-276-cylF	TCACAAAGGAAGAATTTAGAGGTCGCGA	176	lb-676-cpsI	TCAGTTGAGCCATCACAACA
177	hp-277-cpsI	GTCAAGAGCACCGTATAGTCGTAGATACG	177	lb-677-cpsI	GGAATCCAAGAAAGCAATCCA
178	hp-278-cpsI	AGAAGATGTGATAGTTGGTGAAGATATGCT	178	lb-678-cpsI	GCGATCACTAGAGCCATCA
179	hp-279-cpsI	AGATATTTGCAAGAGGTTAGACACTACAGCA	179	lb-679-cpsI	GGAAACTCCATAAGTTTTCCCA
180	hp-280-cpsI	ACATCGAAGAAACATTAGAAAGTGTCATGG	180	lb-680-cpsI	AGATTCTACACAGTTCTCAATCAC
181	hp-281-cpsI	GCTAGAAATTTAGGAGTCAAACTAGCTGAAGG	181	lb-681-cpsI	TCACCTTCTGCCATCTCAAG
182	hp-282-cpsI	ACTTTATACTTTAGAGGTGGCGTTGGAAGA	182	lb-682-cpsI	GCTTGATTGTCCTCCATTTGT
183	hp-283-cpsI	TGGGAGATGTCTAGATAGTATTCTTGAGCA	183	lb-683-cpsI	GCACATTATAGTATTCAGGTCCA
184	hp-284-cpsI	AGTGTGATTGTTCCAGTTTATAATTCGGAGT	184	lb-684-cpsI	GAATTTTCGTTGAACTCCTGATTC
185	hp-285-cpsI	GAGGTGCATCATCAGCAAGAAATGTG	185	lb-685-cpsI	TGGATGAGTCTGTTGTAGTACG
186	hp-286-cpsI	ACAGATGGTAGTAAAGAGTTATGTGAGGAGA	186	lb-686-cpsJ	TCTCACTTTGAAATACTAAGTCTGG
187	hp-287-cpsI	TGAAGATGAACAAGTAGACTGGGTGCA	187	lb-687-cpsJ	TCGCTTGCTAGATATGTTTGC
188	hp-288-cpsI	TCAAGAGCACTGCATAGTCGTAGATACG	188	lb-688-cpsJ	CGATTAAACCACATTTAATTCCTGA

Hybridisation Probes

189	hp-289-cpsI	AGTAACAGTCATTATACCTATATACAACTCAGAAGC
190	hp-290-cpsJ	GGCTACATGCTGTAGAAGCACTTAAGGA
191	hp-291-cpsJ	TGTGATTGATAACCCTGACAGAGAAGATGT
192	hp-292-cpsJ	GCTAGATGGATATAGAAACATTGTTCCTGCA
193	hp-293-cpsJ	TGGATCGACTGATAATAGTATGAGCTACTGT
194	hp-294-cpsJ	AGTTTCTCATCTCATGGCATGTCTGGA
195	hp-295-cpsJ	CCAATTGGTAAACTACACGAGGATGAATTTACA
196	hp-296-cpsJ	AGACCATTATATGCCTATCGATTTCGAAGTG
197	hp-297-cpsJ	TGAGCCTTTAAATTATGTGAGAGATTCAGTAGAA
198	hp-298-cpsJ	AGCATCAAGTTTGAACAAAGCGGTGA
199	hp-299-cpsJ	TGGGTTGTCAGAAGCTAGAAACTATGGA
200	hp-300-cpsJ	AGTTGAATGTATAGAAAGCCTTATTGTTCAAACA
201	hp-301-cpsJ	ACGTTCAATCTTTCCTAAACGAGTGTATAGA
202	hp-302-cpsJ	TGAATGTATAGATAGTGTTTTGGCTCAAACGT
203	hp-303-cpsJ	AGATTACATGCTATAGAAGCACTCCAGGA
204	hp-304-cpsJ	CAACAGTTTAATTGAGTATAAGGCTGATATTGCT
205	hp-305-cpsK	CCTTCAGACTATAATTGCTGAACGGATTATTGA
206	hp-306-cpsK	TGTGATACTATCCCTGATTATGGAGCTTGG
207	hp-307-cpsK	TGTGACACTATCACGGATTATGAAACTTGG
208	hp-308-cpsK	CCAAGTTATTCTTGGGTGGTTCTGTCG
209	hp-309-cpsK	CTCCAAAGTCAGTATTATTGTTGACACAGC
210	hp-310-cpsK	GGAGCAGTAAGAGTTAGTATTAAATCACCTTCAG
211	hp-311-cpsK	TCATGGCTTCAGTAAGTATTGTAAGACGATAGA
212	hp-312-cpsK	TGGAGCAGTAAAAGTTAGTATTAATTCACCTTCA
213	hp-313-cpsE8	AGTGCCATTACTGACTTTGAGGAAGTTG

Labeling primers

189	lb-689-cpsJ	TCTAAACCTTAAATCTTCGCATACT
190	lb-690-cpsJ	TGGATCACAAATTGCAAGATCC
191	lb-691-cpsJ	TGGTTCTGGTACAAAGGCT
192	lb-692-cpsJ	TGATAACCACTTCTTGTAATGCTC
193	lb-693-cpsJ	CCTCTACTTGGATTATCAATGACA
194	lb-694-cpsJ	TGAAATATCATCAGCATCCATTCT
195	lb-695-cpsJ	GGAAACTTTATCATCTGAATCAACA
196	lb-696-cpsJ	CCGTCGAACCATCATTAATCA
197	lb-697-cpsJ	CGGAATTATCTGTAGAGCCATC
198	lb-698-cpsJ	GTATCCGTAGAGCCATCATCA
199	lb-699-cpsJ	CACTTTGAAATACTAACTCTGGGT
200	lb-700-cpsJ	GTTCTTTGGAATTTGCCAAATGA
201	lb-701-cpsK	CTTCAAATGATTCATTGGGAAACA
202	lb-702-cpsK	CTGTTCCCGATAATCTAGCTCT
203	lb-703-cpsK	ACTTTGAAACCTCTCTGTAGGT
204	lb-704-cpsK	TGTTCTTCGGACGTTTCTATCT
205	lb-705-cpsK	CTGTTGGTAAATCTTTCAAACTACT
206	lb-706-cpsK	CCACTAAAGAATTAACCTCAATTGA
207	lb-707-cpsK	GATTCAGTTCTTATTCCCTGATCA
208	lb-708-cpsE8	TCTTAATATCTTCTGACAATGACCA

Supplemental file 3: *S. agalactiae* MLST profiles as of June 2014.

ST	*adhP*	*pheS*	*atr*	*glnA*	*sdhA*	*glcK*	*tkt*
1	1	1	2	1	1	2	2
2	1	1	3	1	1	2	2
3	1	1	4	1	1	3	2
4	1	1	4	1	1	3	4
5	12	1	4	1	1	3	4
6	9	1	2	1	3	2	2
7	10	1	2	1	3	2	2
8	4	1	4	1	3	3	2
9	8	1	4	1	3	3	2
10	9	1	4	1	3	3	2
11	9	3	7	1	3	3	2
12	10	1	4	1	3	3	2
13	11	3	4	1	3	3	2
14	1	1	2	1	5	2	2
15	9	1	4	1	5	3	2
16	1	1	4	1	6	3	4
17	2	1	1	2	1	1	1
18	3	1	1	2	1	1	1
19	1	1	3	2	2	2	2
20	1	2	3	2	2	2	2
21	1	9	3	2	2	2	2
22	13	3	1	3	1	1	1
23	5	4	6	3	2	1	3
24	5	4	4	3	2	3	3
25	5	4	6	3	8	1	3
26	1	1	5	4	1	4	6
27	1	1	3	4	2	2	2
28	1	1	3	5	2	2	2
29	2	1	1	8	1	1	1
30	1	1	8	2	2	2	2
31	2	1	1	6	1	1	1
32	2	1	1	2	7	1	1
33	5	6	4	3	2	1	3
34	5	7	6	3	2	1	3
35	1	1	3	2	2	5	2
36	1	1	3	2	2	2	7
37	13	3	9	3	1	1	1
38	9	1	10	1	3	2	2
39	13	3	11	3	1	1	1
40	13	3	1	3	1	7	1
41	10	1	12	1	3	2	2
42	1	1	3	2	3	2	2
43	10	1	4	1	2	3	2
44	1	1	3	2	1	2	2
45	13	3	1	3	3	1	1
46	1	1	4	1	3	3	4
47	9	1	4	1	1	3	2
48	2	1	1	2	2	1	1
49	1	1	2	1	2	2	2
50	1	1	2	11	1	2	2
51	10	1	3	1	3	2	2
52	5	4	6	3	1	1	3
53	4	1	4	1	1	3	2
54	1	1	4	1	9	3	4
55	5	1	6	3	2	1	3
56	1	1	2	1	2	8	2
57	1	1	13	1	2	2	2
58	16	1	6	2	2	9	2

ST	*adhP*	*pheS*	*atr*	*glnA*	*sdhA*	*glcK*	*tkt*
59	1	1	3	4	2	2	5
60	16	1	6	2	1	9	2
61	13	1	1	13	1	1	1
62	13	1	1	13	11	1	5
63	13	1	1	2	1	10	1
64	13	1	1	2	1	1	1
65	9	11	4	1	3	3	2
66	1	1	3	14	1	12	2
67	13	1	1	13	1	1	5
68	1	1	3	1	11	2	2
69	13	1	1	16	1	1	5
70	2	1	1	2	13	1	1
71	1	1	2	1	1	2	8
72	13	1	1	13	1	2	5
73	13	1	1	13	14	9	5
74	13	1	1	13	1	13	5
75	13	1	14	13	1	1	5
76	13	1	1	13	1	14	1
77	13	1	1	13	1	14	5
78	9	1	4	1	3	11	2
79	13	1	1	13	14	1	5
80	19	1	1	13	1	1	5
81	1	12	3	2	2	1	2
82	20	13	15	1	15	1	5
83	2	1	1	2	14	1	1
84	10	1	2	1	3	1	2
85	13	1	17	15	1	1	5
86	1	1	3	2	2	1	2
87	18	1	3	2	2	2	2
88	5	10	6	3	2	1	3
89	10	1	19	1	3	2	2
90	5	4	6	19	2	1	3
91	25	1	1	13	1	15	1
92	26	4	6	3	2	1	3
93	9	4	4	1	18	3	4
94	5	4	18	3	2	1	3
95	2	1	1	12	1	1	1
96	1	1	3	5	10	2	2
97	1	1	2	18	1	2	2
98	1	1	3	20	2	2	2
99	1	1	20	2	2	2	2
100	13	1	1	13	1	17	5
101	13	1	1	13	1	18	5
102	24	10	6	3	2	1	3
103	16	1	6	2	9	9	2
104	21	1	4	1	5	3	2
105	27	1	1	13	1	16	1
106	1	1	3	4	2	5	2
107	15	1	3	2	2	2	2
108	2	1	1	2	1	6	1
109	2	1	1	10	1	1	1
110	1	1	3	2	2	2	9
111	28	1	1	2	1	1	1
112	1	1	3	2	17	2	2
113	22	1	4	1	3	3	2
114	15	4	6	3	2	1	3
115	23	1	1	2	1	1	1
116	4	14	4	1	3	3	2
117	30	1	3	1	1	2	2
118	31	1	4	1	3	3	2
119	2	1	21	2	1	1	1
120	2	15	1	2	1	1	1
121	32	1	3	2	2	2	2

ST	*adhP*	*pheS*	*atr*	*glnA*	*sdhA*	*glcK*	*tkt*
122	1	1	3	2	2	19	2
123	1	1	23	2	2	2	2
124	1	1	22	2	2	2	2
125	2	1	1	2	19	1	1
126	2	1	1	2	1	1	10
127	1	1	4	4	1	3	6
128	2	1	1	19	1	1	1
129	2	1	1	2	21	20	1
130	9	8	4	1	5	3	4
131	1	1	3	2	2	3	2
132	5	4	24	3	2	1	3
133	2	1	1	9	1	1	1
134	29	1	4	1	3	3	2
135	1	1	3	23	2	2	2
136	1	1	3	1	22	12	2
137	14	1	1	2	1	1	1
138	1	1	4	2	2	2	2
139	1	1	4	1	1	2	2
140	9	1	1	1	3	2	2
141	9	5	2	1	3	2	2
142	2	1	1	21	1	1	1
143	5	10	6	3	23	1	3
144	5	4	1	3	2	1	3
145	33	4	6	3	2	1	3
146	2	1	1	1	1	1	1
147	2	1	1	22	1	1	1
148	2	1	1	24	1	1	1
149	1	1	3	2	2	2	11
150	2	1	1	2	1	1	12
151	34	1	2	1	1	2	2
152	37	1	3	2	2	2	2
153	36	1	2	1	1	2	2
154	35	1	3	2	2	2	2
155	13	3	1	3	24	1	1
156	1	1	1	1	1	2	2
157	9	1	1	1	3	3	2
158	1	1	6	2	2	2	2
159	10	1	1	3	3	3	2
160	9	5	6	1	3	3	2
161	5	4	2	3	2	1	3
162	5	4	3	3	2	3	3
163	5	4	4	3	2	1	3
164	1	1	2	2	2	2	2
165	9	1	6	1	3	3	2
166	5	4	3	3	2	1	3
167	1	1	6	1	1	2	2
168	13	3	4	25	1	1	1
169	13	3	4	3	1	1	1
170	2	1	2	2	1	1	1
171	2	1	3	2	1	1	1
172	1	1	3	1	1	3	4
173	38	1	2	1	1	2	2
174	2	1	1	3	1	1	1
175	1	1	3	3	2	2	2
176	1	1	3	2	2	9	2
177	2	1	1	6	2	1	1
178	1	1	3	2	2	2	3
179	2	1	1	2	1	1	3
180	2	4	1	2	1	1	1
181	30	1	3	2	2	2	2
182	1	1	3	2	18	2	2
183	48	1	2	1	1	2	2
184	1	4	2	1	2	2	3

ST	*adhP*	*pheS*	*atr*	*glnA*	*sdhA*	*glcK*	*tkt*
185	2	4	1	2	2	1	3
186	1	1	2	1	1	2	5
187	5	1	6	2	2	2	3
188	2	1	1	2	1	1	2
189	13	4	1	3	1	1	1
190	1	4	3	2	2	2	2
191	2	4	1	12	1	1	1
192	2	1	16	6	1	1	1
193	1	1	3	2	2	2	1
194	39	1	1	2	1	1	1
195	9	1	1	1	3	2	1
196	1	1	3	1	1	12	2
197	1	1	3	1	2	2	2
198	13	4	6	3	2	1	3
199	5	4	6	3	2	1	2
200	9	1	4	1	3	3	5
201	2	1	25	2	1	1	1
202	40	1	3	1	1	2	2
203	5	4	6	3	2	3	1
204	1	1	4	3	1	3	3
205	5	4	1	3	2	2	1
206	5	4	1	3	2	1	1
207	1	1	2	1	2	2	3
208	1	1	6	1	2	2	3
209	1	1	10	1	2	2	3
210	5	4	6	3	2	1	14
211	5	4	6	3	2	22	3
212	5	4	6	3	2	1	15
213	43	4	6	3	2	1	3
214	44	4	6	3	2	1	3
215	5	4	26	3	2	1	3
216	5	4	27	3	2	1	3
217	1	1	2	1	1	2	13
218	41	1	3	2	2	2	2
219	42	1	3	2	2	2	2
220	1	4	6	3	2	1	3
221	5	4	6	3	2	2	3
222	5	4	6	3	2	1	4
223	5	4	6	3	2	1	1
224	5	10	6	1	2	1	4
225	1	10	4	1	1	3	3
226	16	1	2	2	9	1	2
227	4	1	4	3	3	3	3
228	5	1	2	1	1	2	2
229	2	1	1	6	1	1	10
230	8	1	28	1	3	23	2
231	1	1	2	1	1	24	2
232	45	1	3	2	2	2	2
233	46	1	3	2	2	2	2
234	5	4	6	3	2	1	16
235	47	1	2	1	1	2	2
236	4	1	2	1	1	3	2
237	2	1	1	2	1	1	17
238	4	1	2	1	1	2	2
239	10	1	4	1	3	3	18
240	9	8	4	1	3	3	4
241	1	16	3	2	2	2	2
242	1	1	29	26	1	2	2
243	1	1	4	1	25	3	4
244	2	1	30	2	1	1	1
245	46	1	4	1	3	3	2
246	49	17	31	4	26	25	19
247	13	1	2	2	27	9	1

ST	*adhP*	*pheS*	*atr*	*glnA*	*sdhA*	*glcK*	*tkt*
248	16	18	2	2	9	2	2
249	5	4	6	1	2	1	3
250	1	1	3	1	12	2	2
251	1	1	2	27	1	2	2
252	50	1	2	2	1	1	1
253	5	19	6	3	2	1	3
254	9	1	3	2	2	2	2
255	9	1	2	2	3	2	2
256	51	1	5	4	1	4	6
257	52	17	31	4	26	2	19
258	10	17	2	2	26	26	2
259	52	17	31	28	26	26	2
260	52	17	31	28	26	26	19
261	54	17	31	4	26	25	19
262	5	4	32	3	2	1	3
263	1	1	33	1	1	2	2
264	4	1	4	1	3	3	20
265	53	1	4	1	3	3	2
266	1	1	3	29	28	2	2
267	32	1	3	5	2	2	2
268	10	1	4	2	3	3	2
269	13	3	1	3	1	1	2
270	13	1	1	3	1	1	1
271	13	1	1	2	1	1	5
272	10	1	4	1	3	3	21
273	4	22	4	1	3	3	2
274	1	21	3	2	2	2	9
275	4	1	4	31	3	3	2
276	5	20	6	30	2	1	3
277	55	1	2	1	1	2	2
278	2	1	1	2	1	27	1
279	5	4	6	3	30	1	3
280	5	4	6	3	29	1	3
281	57	1	2	1	1	2	5
282	2	24	1	2	1	1	1
283	9	5	7	1	3	3	2
284	59	10	6	3	2	1	3
285	1	1	36	2	2	2	2
286	1	1	37	2	2	2	2
287	2	1	1	2	1	31	1
288	1	1	4	1	1	30	2
289	1	1	3	36	2	2	9
290	2	26	1	2	1	1	1
291	2	25	1	2	1	1	1
292	1	1	3	5	32	2	2
293	1	1	3	1	1	2	5
294	60	1	3	2	2	2	2
295	58	1	3	2	2	2	2
296	8	1	4	1	3	23	2
297	1	1	2	2	1	2	2
298	13	1	2	3	1	1	5
299	61	1	4	1	1	3	4
300	56	23	34	37	3	9	4
301	13	1	1	13	1	28	5
302	56	23	6	33	3	9	4
303	56	23	35	37	3	9	4
304	9	1	2	4	3	2	2
305	5	4	6	32	2	1	3
306	1	1	3	1	12	2	1
307	5	7	6	3	2	1	1
308	1	1	2	34	1	29	3
309	13	1	1	2	1	9	1
310	13	1	1	13	1	9	1

ST	*adhP*	*pheS*	*atr*	*glnA*	*sdhA*	*glcK*	*tkt*
311	5	4	6	35	2	1	3
312	13	1	1	13	1	9	5
313	13	1	1	2	1	28	5
314	16	1	2	2	9	2	2
315	2	1	1	2	31	1	1
316	63	1	1	2	1	1	1
317	1	1	2	1	33	2	2
318	1	1	2	3	1	1	2
319	2	1	1	2	1	1	22
320	5	4	6	3	2	1	23
321	64	1	2	1	1	2	2
322	5	4	4	3	2	3	2
323	1	1	39	4	1	4	6
324	1	1	40	2	2	2	2
325	5	4	6	4	2	1	3
326	5	4	41	3	2	3	3
327	1	1	4	2	20	3	2
328	1	1	4	2	2	3	2
329	2	1	1	38	1	1	1
330	1	27	4	2	2	3	2
331	1	1	3	5	2	2	3
332	4	1	3	1	3	3	2
333	1	1	3	1	1	12	5
334	5	4	42	3	2	1	3
335	1	1	43	2	2	2	2
336	1	1	44	2	2	32	2
337	13	1	1	13	1	2	1
338	56	23	6	33	3	9	24
339	13	1	1	13	1	34	5
340	56	23	34	37	3	9	24
341	13	1	1	2	1	1	4
342	1	1	2	34	1	29	2
343	13	1	1	2	27	9	1
344	56	23	35	37	3	9	24
345	62	1	2	1	1	22	2
346	1	1	45	1	1	2	2
347	65	1	3	5	2	2	2
348	1	1	3	2	16	2	2
349	35	1	2	1	1	2	2
350	9	1	4	39	3	3	2
351	66	1	3	2	2	2	2
352	1	1	1	40	1	1	2
353	10	15	12	1	3	2	2
354	13	1	1	13	1	1	25
355	2	1	46	2	1	1	1
356	13	1	2	41	1	1	5
357	2	1	1	2	1	3	1
358	1	1	4	1	3	3	2
359	2	1	1	2	1	35	1
360	2	1	1	2	1	36	1
361	10	1	4	1	1	3	2
362	4	1	4	1	2	3	2
363	67	1	47	1	3	2	2
364	1	1	2	1	1	2	26
365	1	1	5	4	3	4	27
366	5	4	6	3	35	1	3
367	68	1	2	1	1	2	2
368	1	1	3	5	2	1	2
369	1	1	48	4	2	2	2
370	1	1	2	1	1	1	2
371	1	1	6	1	1	1	2
372	69	1	4	1	3	3	2
373	70	1	4	1	3	3	2

ST	*adhP*	*pheS*	*atr*	*glnA*	*sdhA*	*glcK*	*tkt*
374	10	1	49	1	3	3	2
375	1	1	2	1	1	2	28
376	2	1	1	2	36	1	1
377	1	1	4	5	2	2	2
378	1	1	3	1	1	2	29
379	1	1	3	2	34	2	2
380	5	28	6	3	2	1	3
381	71	1	4	1	3	3	2
382	72	1	3	2	2	2	2
383	1	1	2	42	1	2	2
384	2	1	1	2	1	37	1
385	5	4	6	3	2	1	30
386	15	1	3	5	2	2	2
387	1	1	2	1	1	3	2
388	1	1	5	1	1	4	6
389	1	1	3	2	2	2	5
390	4	1	4	1	3	9	2
391	1	1	6	3	2	1	3
392	1	1	3	43	2	2	2
393	1	1	3	2	2	2	31
394	73	1	2	1	1	2	2
395	1	1	50	2	2	2	2
396	1	1	3	2	10	2	2
397	5	25	4	1	2	1	3
398	1	1	4	1	1	4	2
399	10	1	4	1	3	1	2
400	12	1	4	1	3	3	2
401	1	8	4	1	5	3	2
402	2	1	3	1	3	2	2
403	5	4	6	3	2	2	2
404	5	1	3	2	2	1	3
405	2	1	4	2	1	1	2
406	5	4	6	6	2	1	3
407	13	3	1	1	1	1	1
408	1	1	51	2	2	2	2
409	1	1	3	2	37	1	2
410	5	10	3	2	2	2	2
411	30	1	2	1	1	2	2
412	5	4	38	3	2	1	3
413	1	1	2	4	1	2	2
414	1	1	4	2	1	3	2
415	13	1	2	13	1	1	5
416	76	1	1	13	1	1	1
417	5	28	6	13	2	1	3
418	13	1	1	2	1	1	33
419	77	1	1	13	1	9	1
420	1	1	1	2	1	1	2
421	1	1	2	46	1	29	2
422	1	1	1	13	1	2	1
423	13	1	3	1	12	2	2
424	1	1	2	1	12	2	2
425	13	1	2	1	1	2	2
426	78	4	6	3	2	1	3
427	5	1	6	3	2	1	2
428	1	1	2	46	40	2	2
429	1	1	2	46	1	2	2
430	1	1	3	1	9	2	2
431	13	1	1	2	1	9	5
432	9	1	1	1	5	2	2
433	1	1	1	2	1	1	33
434	1	2	1	1	1	2	2
435	74	10	6	3	2	1	3
436	75	1	1	2	1	1	1

ST	*adhP*	*pheS*	*atr*	*glnA*	*sdhA*	*glcK*	*tkt*
437	2	29	1	12	1	1	1
438	2	30	1	6	1	1	1
439	5	4	6	3	38	1	3
440	2	1	1	2	1	1	32
441	5	31	6	3	2	1	3
442	5	4	6	44	2	1	3
443	5	4	6	3	2	38	3
444	5	4	52	3	2	1	3
445	5	4	53	3	2	1	3
446	5	4	6	45	2	1	3
447	1	1	3	2	39	2	2
448	1	1	2	1	1	39	2
449	2	1	3	2	18	2	1
450	79	1	1	2	1	1	1
451	2	32	1	2	1	1	1
452	5	25	4	3	2	3	3
453	1	1	54	1	1	2	2
454	4	1	1	1	3	3	2
455	5	1	1	2	1	1	1
456	1	1	1	2	2	2	2
457	2	1	6	3	2	1	3
458	1	1	2	1	1	2	3
459	1	1	3	1	41	12	2
460	1	33	2	1	1	2	2
461	16	1	6	2	9	9	34
462	86	1	2	1	1	2	2
463	1	1	2	3	1	2	2
464	5	4	4	3	2	3	1
465	2	1	1	24	1	1	2
466	2	1	16	2	1	1	1
467	2	1	1	2	1	32	1
468	5	25	4	3	2	3	1
469	2	1	1	48	1	1	1
470	2	1	1	2	42	1	35
471	1	1	55	2	2	2	2
472	1	1	3	5	43	2	2
473	1	1	3	49	1	12	2
474	9	1	4	1	44	3	2
475	1	1	3	2	45	2	2
476	2	1	1	2	1	1	36
477	5	4	6	50	2	1	3
478	1	1	2	5	1	2	2
479	1	1	3	5	46	2	2
480	1	1	4	1	1	1	5
481	5	4	6	51	2	1	3
482	2	1	1	2	47	1	1
483	13	1	56	13	1	9	1
484	2	1	57	2	1	1	1
485	16	1	4	2	9	3	2
486	16	1	6	2	9	1	2
487	1	1	2	1	1	2	1
488	25	1	1	13	1	1	1
489	13	1	2	13	1	41	5
490	13	1	1	13	1	1	37
491	9	5	7	1	3	3	38
492	5	4	6	52	2	1	3
493	2	1	1	2	1	1	39
494	2	1	1	2	48	1	1
495	5	4	6	2	2	1	40
496	2	34	1	2	1	1	1
497	87	1	3	1	1	2	2
498	5	35	4	3	2	3	3
499	1	1	58	2	1	2	2

ST	*adhP*	*pheS*	*atr*	*glnA*	*sdhA*	*glcK*	*tkt*
500	10	1	2	1	49	2	2
501	5	4	59	3	2	1	3
502	88	1	3	1	1	2	2
503	89	1	4	1	3	3	2
504	80	1	3	2	2	2	2
505	81	4	1	3	1	1	3
506	82	4	6	3	2	1	3
507	83	1	2	1	1	2	2
508	84	1	4	47	3	3	2
509	10	1	4	1	3	40	2
510	85	1	3	2	2	2	2
511	2	1	60	2	1	1	2
512	2	1	1	53	1	1	1
513	10	1	4	54	3	3	2
514	1	1	2	55	1	2	2
515	2	1	1	56	1	1	1
516	90	1	4	1	1	3	41
517	91	1	1	2	1	1	1
518	1	1	2	57	1	2	2
519	9	36	4	1	5	3	4
520	1	1	3	58	2	2	2
521	1	1	3	2	2	42	2
522	2	1	1	2	1	1	42
523	8	1	4	1	3	3	43
524	1	1	2	1	1	2	44
525	96	3	1	3	1	1	1
526	97	8	4	1	5	3	4
527	98	1	4	1	3	3	2
528	5	4	6	3	2	3	3
529	1	1	4	4	2	3	2
530	99	1	2	1	1	2	2
531	100	1	2	1	1	2	2
532	1	1	3	5	50	2	2
533	94	1	2	1	1	43	2
534	93	4	4	3	2	3	3
535	1	1	2	1	1	2	45
536	4	1	4	59	3	3	2
537	1	1	61	5	2	2	2
538	101	1	4	1	3	3	2
539	5	4	7	3	2	3	3
540	2	1	2	1	1	1	1
541	46	9	3	5	2	2	2
542	2	37	1	2	1	1	1
543	102	1	1	2	1	1	1
544	103	1	3	2	2	2	2
545	5	4	62	3	2	1	3
546	10	38	2	1	3	2	2
547	1	1	3	2	2	45	2
548	104	1	4	1	3	3	2
549	9	1	2	1	3	2	46
550	2	1	1	40	1	1	1
551	105	1	3	1	1	2	2
552	52	17	31	4	26	26	19
553	52	17	31	4	2	26	19
554	13	39	1	13	1	1	1
555	1	1	3	2	18	2	47
556	5	4	6	3	2	44	3
557	2	1	1	60	1	1	1
558	10	1	2	1	3	2	5
559	1	1	16	2	2	2	5
560	10	1	4	1	3	46	2
561	1	1	3	5	2	45	2
562	9	1	4	1	3	1	2

ST	*adhP*	*pheS*	*atr*	*glnA*	*sdhA*	*glcK*	*tkt*
563	1	10	3	1	1	12	2
564	2	1	1	2	1	47	1
565	95	1	4	1	1	2	2
566	1	1	3	2	2	2	48
567	106	1	3	1	1	2	2
568	16	1	6	2	51	9	2
569	9	1	1	1	3	1	2
570	16	1	1	2	1	1	5
571	9	1	4	1	3	48	2
572	1	1	3	2	2	49	2
573	9	1	4	1	3	9	2
574	108	1	1	2	1	1	1
575	1	1	43	61	2	2	2
576	2	1	6	10	1	1	1
577	2	4	1	10	1	1	1
578	2	1	6	2	1	1	1
579	9	1	4	1	2	3	2
580	9	1	3	5	39	2	2
581	5	4	6	3	9	1	1
582	5	1	6	2	1	1	1
583	4	1	4	1	1	3	1
584	2	1	1	62	1	1	1
585	10	1	12	1	3	2	5
586	13	3	1	63	1	1	1
587	65	1	3	2	2	2	2
588	1	1	3	1	52	2	2
589	1	1	2	64	1	2	2
590	10	1	4	1	53	3	2
591	13	1	6	13	1	1	1
592	13	3	65	3	1	1	1
593	1	1	64	2	1	2	2
594	1	1	63	2	2	2	2
595	1	1	66	2	2	2	2
596	1	1	1	2	2	1	2
597	5	9	6	3	2	1	3
598	4	3	4	1	3	3	2
599	5	4	6	3	2	1	49
600	109	1	2	1	1	2	2
601	92	1	3	2	2	2	2
602	92	1	2	1	1	2	2
603	1	1	3	1	1	5	2
604	110	1	2	2	3	2	2
605	1	1	3	1	1	50	2
606	1	1	2	1	1	51	2
607	28	25	1	2	1	1	1
608	58	42	3	2	18	2	2
609	56	40	4	66	1	53	4
610	13	40	6	65	3	52	50
611	13	40	68	65	54	52	51
612	111	40	6	65	3	52	51
613	111	40	67	65	3	52	51
614	56	41	4	66	1	53	4
615	13	40	6	65	3	52	51
616	13	40	68	65	55	52	4
617	13	40	68	65	3	52	51
618	111	40	69	65	3	52	51
619	62	1	2	1	1	2	2
620	1	43	3	2	2	2	2
621	13	1	6	13	1	2	1
622	13	1	6	13	1	1	52
623	16	5	4	2	9	3	2
624	5	4	6	2	2	1	3
625	10	1	2	67	3	2	2

ST	*adhP*	*pheS*	*atr*	*glnA*	*sdhA*	*glcK*	*tkt*
626	5	10	70	3	2	1	3
627	5	4	6	3	2	1	53
628	1	1	3	1	1	54	2
629	9	1	4	1	56	3	2
630	5	4	6	68	2	1	3
631	2	44	1	2	1	1	1
632	13	45	1	13	1	1	1
633	113	1	6	2	9	9	2
634	112	1	2	1	1	2	2
635	1	1	71	1	1	2	2
636	1	1	2	1	1	55	2
637	9	1	4	3	3	3	2
638	9	1	3	2	2	2	9
639	5	4	6	3	57	1	3
640	5	4	6	3	58	1	3
641	5	4	72	3	2	1	3
642	5	4	6	3	2	1	54
643	2	1	73	2	1	1	1
644	1	46	6	1	1	2	2
645	94	1	3	1	1	2	2
646	1	1	3	2	2	2	55
647	1	1	3	69	2	2	2
648	114	1	2	1	1	2	2
649	115	4	6	3	2	1	3
650	1	1	3	4	2	1	2
651	16	1	6	70	9	9	2
652	116	1	4	1	3	3	2
653	1	47	3	5	2	2	2
654	117	1	4	1	3	3	2
655	2	1	74	2	1	56	1
656	13	48	1	3	1	1	1
657	118	1	2	1	1	2	2
658	10	1	4	1	3	3	5
659	119	1	4	1	3	3	2
660	4	1	75	1	3	3	2
661	5	4	6	3	59	1	3
662	5	4	6	71	2	1	3
663	5	49	6	3	2	1	3
664	5	50	4	3	2	3	3
665	5	4	6	3	61	1	3
666	5	4	6	3	60	1	3
667	1	1	76	1	1	2	2
668	9	1	77	1	3	3	2
669	1	1	1	3	1	1	1
670	2	1	4	2	1	1	1
671	1	1	1	1	41	12	2
672	2	1	3	1	1	1	3
673	1	1	3	2	18	2	1
674	4	1	6	1	3	2	2
675	1	1	1	2	2	2	3
676	1	51	2	1	1	2	2
677	122	1	3	2	2	2	2
678	1	37	2	1	1	2	2
679	1	9	2	1	1	2	2
680	2	9	1	2	1	1	1
681	35	2	2	1	1	2	2
682	1	25	2	1	1	2	2
683	13	1	3	4	2	2	2
684	107	10	6	3	2	1	3
685	118	1	3	2	2	2	2
686	5	4	6	3	2	54	54
687	1	1	3	2	35	2	2
688	1	1	3	48	29	2	43

ST	*adhP*	*pheS*	*atr*	*glnA*	*sdhA*	*glcK*	*tkt*
689	1	1	3	1	14	2	2
690	9	1	7	1	3	3	2
691	1	33	4	2	2	2	2
692	10	1	4	1	3	3	28
693	46	1	2	1	1	2	2
694	122	1	2	1	1	2	2
695	1	33	3	1	1	12	2
696	4	4	4	1	3	3	2
697	46	1	3	1	1	2	2
698	1	37	2	1	22	2	2
699	10	1	2	1	1	3	2
700	1	1	2	37	1	2	2