

**Supplemental Table 1: Primer sequences**

Name	Sequence (5' → 3')	Length	GC	Tm
01_mecA_lp	CGTCATCTTTGAATAACCAAG	21	38	50.3
02_mecA_lp	ATCTTTAGATGCATAAAAGAATACG	25	28	51.2
03_mecA_lp	ATTTGGCTGTTTTTTGATGC	20	35	51.2
04_mecA_lp	TGAAATTTTTATCTTCAATTGCATC	25	24	51
05_mecA_lp	TTAATGGGACCAACATAACC	20	40	50.1
06_mecA_lp	ATTAATTGGACCCACATAACC	21	38	50.8
07_mecA_lp	TTAATTGGGCCAACATAACC	20	40	51.1
08_mecA_lp	TTAATAGGGCCAACATAACC	20	40	49.9
09_mecA_lp	ATTAATAGGGCCACATATCC	21	38	50
10_mecA_lp	AATTAATAGGGCCACGTATC	21	38	50.8
11_mecA_lp	AATAGTTAGTTGAATATCTTTGCC	24	29	50.5
12_mecA_lp	AGTCAGTTGAATATCTTTGCC	21	38	51.2
13_mecA_lp	GATGGTTAATTTAATATCTTTGCC	24	29	49.9
14_mecA_lp	CAATGGTTAATTTAATATCTTTGCC	25	28	50.9
15_mecA_lp	ATCAATGGTTAATTTAATATCTTTACC	27	22	50.1
16_mecA_lp	TATAGTTAAATGAAGATCTTTCCG	25	28	50.6
17_mecA_lp	TTTCTGTTTCATTAGTTGTAAGAT	24	25	49.9

**Supplemental Table 2: Probe sequences**

Name	Sequence (5' → 3')	Length	GC	Tm
01_mecA_hp	GTTCCACTTATTTTAATAGTTGTAGTTGTCGG	32	34	58.6
02_mecA_hp	GTTCCACTTATTTTAAAGTTTGTAGTTGTCGG	32	34	59.3
03_mecA_hp	CACTCATTTTAATAGTTGCAGCTGCCG	27	44	60.7
04_mecA_hp	AATAATTGCTCTACTCATTGATAGTTGCAGC	33	33	60.3
05_mecA_hp	TAATCATAGCCATCGTGGTTGTAATCATTGTT	32	34	60.7
06_mecA_hp	TAATCATAGCCATCGTGATAGTAATCATCGC	31	39	60.3
07_mecA_hp	TAATCATCGCCATCGTGATAGTAATCATCG	30	40	60.4
08_mecA_hp	TAATCATCGCCATCGTGATTGTAATCATC	29	38	59.4
09_mecA_hp	TTTATATTAGTGTGCTAGTTCTTTTACTAATTATGATTAT	40	20	56.7
10_mecA_hp	GTCGTAACATCCTCTAGAAGAAGCGAC	28	46	59.8
11_mecA_hp	GTCGTAACATCCTCTAGAAAAGCGACTT	30	40	60.1
12_mecA_hp	GTCGTAACATCCTCTAGAAAAGCGAC	28	46	60.2
13_mecA_hp	GTCGCAACTATCCTCTAGAAAAGCGA	27	44	60.4
14_mecA_hp	CGACAGTATCCGTTGAAGAAGCA	24	50	60.5
15_mecA_hp	GTCGACAATATCCGTTGAAGAAGCA	26	46	61
16_mecA_hp	GTCGAGAGTATCCGTTTGAAGAAGCAA	27	44	60.6
17_mecA_hp	AAAGCCGTGTTTATCCATTGAACGAAG	27	41	60.1
18_mecA_hp	TGTCACAATCGTTGACGATAATAGCAATAC	30	37	59.6
19_mecA_hp	GTCACAATCGTTAGAGTCGACGATAATAGC	30	43	60.9
20_mecA_hp	CTATCATGGACGATAATAGCAATAAAGTCGC	31	39	59.7
21_mecA_hp	GACGGATATCGGGTCACAATAATTGATAATAAT	33	33	59.2
22_mecA_hp	CGGGTATCGTGTGACAATTATTGATGATAATA	32	34	59.2
23_mecA_hp	CGGATACCGTGTGACAATAATTGATGATAATA	32	34	59.2
24_mecA_hp	GGATACCGTGTGACAATTATTGATGATCAAA	31	35	59.7
25_mecA_hp	GGTTTTAAGGTATCCATTGCAAATACTTATGAC	33	33	59
26_mecA_hp	GATGAATATTTAAGTGATTTTCGCAAAAAAATTC	34	24	56.8
27_mecA_hp	GATGAATATTTAAGAGATTTTCGCAAAAAAATTC	34	24	56.5
28_mecA_hp	GATACCTTCGTTCCACTTTAAAACCGTTAA	30	37	59.6
29_mecA_hp	GATACCTTCGTTCCACTTTAAAACCGTTAA	29	38	59.3

**Supplemental Table 3:** Alignments of known *mecA* alleles. A FASTA version of this file is available on request.

	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....
	5	15	25	35	45	55	65	75	85
AB546267_Sfleur	atgaaaga	taaaaattgt	tccacttatt	ttaatagttg	tagttgtcgg	gtttggtata	tatttgtatg	cttcaaaaga	taaagaaatt
Y13095_Ssci	atgaaaaaga	taaaaattgt	tccacttatt	ttaatagttg	tagttgtcgg	gtttggtata	tatttttatg	cttcaaaaga	taaagaaatt
AY786579_Saur	atgaaaaaga	taaaaattgt	tccacttatt	ttaatagttg	tagttgtcgg	gtttggtata	tatttttatg	cttcaaaaga	taaagaaatt
ABSA01000066_Saur_epi	atgaaaaaga	taaaaattgt	tccacttatt	ttaatagttg	tagttgtcgg	gtttggtata	tatttttatg	cttcaaaaga	taaagaaatt
GU235984_Saur	atgaaaaaga	taaaaattgt	tccacttatt	ttaatagttg	tagttgtcgg	gtttggtata	tatttttatg	cttcaaaaga	taaagaaatt
EU929081_Spseudin	atgaaaaaga	taaaaattgt	tccacttatt	ttaatagttg	tagttgtcgg	gtttggtata	tatttttatg	cttcaaaaga	taaggaaatt
GU370073_Saur_sap_vit_kloo.	atgaaaaaga	taaaaattgt	tccacttatt	ttaatagttg	tagttgtcgg	gtttggtata	tatttttatg	cttcaaaaga	taaagaaatt
AB037671_Saur	atgaaaaaga	taaaaattgt	tccacttatt	ttaatagttg	tagttgtcgg	gtttggtata	tatttttatg	cttcaaaaga	taaagaaatt
GU235983_Saur	atgaaaaaga	taaaaattgt	tccacttatt	ttaatagttg	tagttgtcgg	gtttggtata	tatttttatg	cttcaaaaga	taaagaaatt
AB221119_Saur	atgaaaaaga	taaaaattgt	tccacttatt	ttaatagttg	tagttgtcgg	gtttggtata	tatttttatg	cttcaaaaga	taaagaaatt
FN433596_TW20_Saur_ST239	atgaaaaaga	taaaaattgt	tccacttatt	ttaatagttg	tagttgtcgg	gtttggtata	tatttttatg	cttcaaaaga	taaagaaatt
BA000018_N315_Saur	atgaaaaaga	taaaaattgt	tccacttatt	ttaatagttg	tagttgtcgg	gtttggtata	tatttttatg	cttcaaaaga	taaagaaatt
GQ902038_Saur_haem_pseud	atgaaaaaga	taaaaattgt	tccacttatt	ttaatagttg	tagttgtcgg	gtttggtata	tatttttatg	cttcaaaaga	taaagaaatt
EU929082_Spseudin	atgaaaaaga	taaaaattgt	tccacttatt	ttaatagttg	tagttgtcgg	gtttggtata	tatttttatg	cttcaaaaga	taaagaaatt
AB546266_Sfleur	atgaaaaaga	taaaaattgt	tccacttatt	ttaatagttg	tagttgtcgg	gtttggtata	tatttttatg	cttcaaaaga	taaagaaatt
AM048805_Scapi	atgaaaaaga	taaaaattgt	tccacttatt	ttaatagttg	tagttgtcgg	gtttggtata	tatttttatg	cttcaaaaga	taaagaaatt
EU929079_Spseudin	atgaaaaaga	taaaaattgt	tccacttatt	ttaaagtttg	tagttgtcgg	gtttggtata	tatttttatg	cttcaaaaga	taaagaaatt
GU227428_Saur	atgaaaaaga	taaaaattgt	tccacttatt	ttaatagttg	tagttgtcgg	gtttggtata	tatttttatg	cttcaaaaga	taaagaaatt
Y14051_Saur	atgaaaaaga	taaaaattgt	tccacttatt	ttaatagttg	tagttgtcgg	gtttggtata	tatttttatg	cttcaaaaga	taaagaaatt
Y00688_Saur	atgaaaaaga	taaaaattgt	tccacttatt	ttaatagttg	tagttgtcgg	gtttggtata	tatttttatg	cttcaaaaga	taaagaaatt
EU929080_Spseudin	atgaaaaaga	taaaaattgt	tccacttatt	ttaatagttg	tagttgtcgg	gtttggtata	tatttttatg	cttcaaaaga	taaagaaatt
AM048807_Sklo_Scap	atgaaaaaga	taaaaattgt	tccactcatt	ttaatagttg	cagctgccgg	cgttggtaca	tatttttatg	cttcaaaaga	taaaaaaatt
AM048808_Sklo_cap_vit	atgaaaaaga	taaaaattgt	tccactcatt	ttaatagttg	cagctgccgg	cgttggtaca	tatttttatg	cttcaaaaga	taaaaaaatt
AB546780_Svit	atgaaaaaaa	taataattgc	tctactcatt	ttgataagttg	cagctgccgg	cgttggtaca	tatttttatg	cttcaaaaga	taaaaaaatt
AY820253_Ssci	atgaaaaaat	t---aatcat	agccatcgtg	gttgtaatca	ttgtttagtc	ttcaagcata	tttttttatg	catcaaaaaa	cagccaata
Y13052_Ssci	atgaaaaaat	t---aatcat	agccatcgtg	atagtaatca	tcgctgttgg	ttcaggcgta	ttcttttatg	catctaaaga	taagaaaata
AB547235_Ssci	atgaaaaaat	t---aatcat	cgccatcgtg	atagtaatca	tcgctgttgg	ttcaggcgta	ttcttttatg	catctaaaga	taagaaaata
S. sciuri 09-LEM-1/3	atgaaaaaat	t---aattat	agccatcgtg	atagtaatca	ttgctgttgg	ttcaggcgta	ttcttttatg	catctagaga	tgatcaaata
Y09223_Ssci	atgaaaaaat	t---aatcat	cgccatcgtg	attgtaatca	tcgctgttgg	ttcaggcgta	ttcttttatg	catctaaaga	taagaaaata
Y13094_Ssci	atgaaaaaat	t---aatcat	cgccatcgtg	attgtaatca	tcgctgttgg	ttcaggcgta	ttcttttatg	catctaaaga	taagaaaata
AB547236_Ssci	atgaaaaaat	t---aatcat	cgccatcgtg	attgtaatca	tcgctgttgg	ttcaggcgta	ttcttttatg	catctaaaga	taagaaaata
FR821779_Saur_LGA251	atgaaaaaaa	tttatattag	tgtgctagtt	cttttactaa	ttatgat---	-----tata	ataacttggg	tattcaaaga	tgacgatatt
FR823292_Saur_M10	atgaaaaaaa	tttatattag	tgtgctagtt	cttttactaa	ttatgat---	-----tata	ataacttggg	tattcaaaga	tgacgatatt

**Supplemental Table 3:** Alignments of known *mecA* alleles, continued

	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....
	95	105	115	125	135	145	155	165	175
AB546267_Sfleur	aataaaacta	ttgatgcaat	tgaagataaa	aatttcaaac	aagtttataa	agatagcagt	tataatttcta	aaagcgataa	tggcgaagta
Y13095_Ssci	aataatacta	ttgatgcaat	tggagataaa	aatttcaaac	aagtttataa	agatagcagt	tataatttcta	aaagcgataa	tggatgaagta
AY786579_Saur	aataatacta	ttgatgcaat	tgaagataaa	aatttcaaac	aagtttataa	agatagcagt	tataatttcta	aaagcgataa	tggatgaagta
ABSA01000066_Saur_epi	aataatacta	ttgatgcaat	tgaagataaa	aatttcaaac	aagtttataa	agatagcagt	tataatttcta	aaagcgataa	tggatgaagta
GU235984_Saur	aataatacta	ttgatgcaat	tgaagataaa	aatttcaaac	aagtttataa	agatagcagt	tataatttcta	aaagcgataa	tggatgaagta
EU929081_Spseudin	aataatacta	ttgatgcaat	tgaagataaa	aatttcaaac	aagtttataa	agatagcagt	tataatttcta	aaagcgataa	tggatgaagta
GU370073_Saur_sap_vit_kloo.	aataatacta	ttgatgcaat	tgaagataaa	aatttcaaac	aagtttataa	agatagcagt	tataatttcta	aaagcgataa	tggatgaagta
AB037671_Saur	aataatacta	ttgatgcaat	tgaagataaa	aatttcaaac	aagtttataa	agatagcagt	tataatttcta	aaagcgataa	tggatgaagta
GU235983_Saur	aataatacta	ttgatgcaat	tgaagataaa	aatttcaaac	aagtttataa	agatagcagt	tataatttcta	aaagcgataa	tggatgaagta
AB221119_Saur	aataatacta	ttgatgcaat	tgaagataaa	aatttcaaac	aagtttataa	agatagcagt	tataatttcta	aaagcgataa	tggatgaagta
FN433596_TW20_Saur_ST239	aataatacta	ttgatgcaat	tgaagataaa	aatttcaaac	aagtttataa	agatagcagt	tataatttcta	aaagcgataa	tggatgaagta
BA000018_N315_Saur	aataatacta	ttgatgcaat	tgaagataaa	aatttcaaac	aagtttataa	agatagcagt	tataatttcta	aaagcgataa	tggatgaagta
GQ902038_Saur_haem_pseud	aataatacta	ttgatgcaat	tgaagataaa	aatttcaaac	aagtttataa	agatagcagt	tataatttcta	aaagcgataa	tggatgaagta
EU929082_Spseudin	aataatacta	ttgatgcaat	tgaagataaa	aatttcaaac	aagtttataa	agatagcagt	tataatttcta	aaagcgataa	tggatgaagta
AB546266_Sfleur	aataatacta	ttgatgcaat	tgaagataaa	aatttcaaac	aagtttataa	agatagcagt	tataatttcta	aaagcgataa	tggatgaagta
AM048805_Scapi	aataatacta	ttgatgcaat	tgaagataaa	aatttcaaac	aagtttataa	agatagcagt	tataatttcta	aaagcgataa	tggatgaagta
EU929079_Spseudin	aataatacta	ttgatgcaat	tgaagataaa	aatttcaaac	aagtttataa	agatagcagt	tataatttcta	aaagcgataa	tggatgaagta
GU227428_Saur	aataatacta	ttgatgcaat	tgaagataaa	aatttcaaac	aagtttataa	agatagcagt	tataatttcta	aaagcgataa	tggatgaagta
Y14051_Saur	aataatacta	ttgatgcaat	tgaagataaa	aatttcaaac	aagtttataa	agatagcagt	tataatttcta	aaagcgataa	tggatgaagta
Y00688_Saur	aataatacta	ttgatgcaat	tgaagataaa	aatttcaaac	aagtttataa	agatagcagt	tataatttcta	aaagcgataa	tggatgaagta
EU929080_Spseudin	aataatacta	ttgatgcaat	tgaagataaa	aatttcaaac	aagtttataa	agatagcagt	tataatttcta	aaagcgataa	tggatgaagta
AM048807_Sklo_Scap	aatgaaactg	ttgatgcaat	tgaagataaa	aatttcaaac	aagtttataa	agatagcact	tatcgttcta	aaaatgataa	cggcgaagta
AM048808_Sklo_cap_vit	aatgaaactg	ttgatgcaat	tgaagataaa	aatttcaaac	aagtttataa	agatagcact	tatcgttcta	aaaatgataa	cggcgaagta
AB546780_Svit	aatgaaactg	ttgatgcaat	tgaagataaa	aatttcaaac	aagtttataa	agatagcact	tatcgttcta	aaaatgataa	cggcgaagta
AY820253_Ssci	aacgatcac	tagatgccat	tgaagacaaa	aatgttaagc	aagtgttcaa	agatagtact	taccaatcta	aaaatgataa	tggcgaagtg
Y13052_Ssci	aacgaaacaa	ttgatgccat	tgaagataaa	aacgttaagc	aagtctttaa	aaatagtact	taccaatcta	aaaacgataa	tggatgaagta
AB547235_Ssci	aacgaaacaa	ttgatgccat	tgaagataaa	aacgttaagc	aagtcttcaa	aaatagtact	taccaatcta	aaaacgataa	tggatgaagta
S. sciuri 09-LEM-1/3	aacgaaacaa	ttgatgcaat	tgaagataaa	aacgttaaag	aagtctttaa	aaatagtact	tatcaatcta	aaaatgataa	tggatgaagta
Y09223_Ssci	aacgaaacaa	ttgatgccat	tgaagataaa	aacgttaagc	aagtctttaa	aaatagtact	taccaatcta	aaaacgataa	tggatgaagta
Y13094_Ssci	aacgaaacaa	ttgatgccat	tgaagataaa	aacgttaagc	aagtctttaa	aaatagtact	taccaatcta	aaaacgataa	tggatgaagta
AB547236_Ssci	aacgaaacaa	ttgatgccat	tgaagataaa	aacgttaagc	aagtctttaa	aaatagtact	taccaatcta	aaaacgataa	tggatgaagta
FR821779_Saur_LGA251	gagaaaacaa	ttagtcttat	tgaaaaagga	aactataacg	aagtatataa	aaatagttca	gaaaaatcta	aactggcata	tggagaagaa
FR823292_Saur_M10	gagaaaacaa	ttagtcttat	tgaaaaagga	aactataacg	aagtatataa	aaatagttca	gaaaaatcta	aactggcata	tggagaagaa

**Supplemental Table 3:** Alignments of known *mecA* alleles, continued

	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....
	185	195	205	215	225	235	245	255	265	
AB546267_Sfleur	gaaatgactg	aacgtccgat	aaaaatata	aaaagttag	gcgttaaaga	tataaacatt	caggaccgca	aaataaaaa	aatatctaaa	
Y13095_Ssci	gaaatgactg	aacgtccgat	aaaaatata	aatagtttag	gcgttaaaga	tataaacatt	caggatcgta	aaataaaaa	agtatctaaa	
AY786579_Saur	gaaatgactg	aacgtccgat	aaaaatata	aatagtttag	gcgttaaaga	tataaacatt	caggatcgta	aaataaaaa	agtatctaaa	
ABSA01000066_Saur_epi	gaaatgactg	aacgtccgat	aaaaatata	aatagtttag	gcgttaaaga	tataaacatt	caggatcgta	aaataaaaa	agtatctaaa	
GU235984_Saur	gaaatgactg	aacgtccgat	aaaaatata	aatagtttag	gcgttaaaga	tataaacatt	caggatcgta	aaataaaaa	agtatctaaa	
EU929081_Spseudin	gaaatgactg	aacgtccgat	aaaaatata	aatagtttag	gcgttaaaga	tataaacatt	caggatcgta	aaataaaaa	agtatctaaa	
GU370073_Saur_sap_vit_kloo.	gaaatgactg	aacgtccgat	aaaaatata	aatagtttag	gcgttaaaga	tataaacatt	caggatcgta	aaataaaaa	agtatctaaa	
AB037671_Saur	gaaatgactg	aacgtccgat	aaaaatata	aatagtttag	gcgttaaaga	tataaacatt	caggatcgta	aaataaaaa	agtatctaaa	
GU235983_Saur	gaaatgactg	aacgtccgat	aaaaatata	aatagtttag	gcgttaaaga	tataaacatt	caggatcgta	aaataaaaa	agtatctaaa	
AB221119_Saur	gaaatgactg	aacgtccgat	aaaaatata	aatagtttag	gcgttaaaga	tataaacatt	caggatcgta	aaataaaaa	agtatctaaa	
FN433596_TW20_Saur_ST239	gaaatgactg	aacgtccgat	aaaaatata	aatagtttag	gcgttaaaga	tataaacatt	caggatcgta	aaataaaaa	agtatctaaa	
BA000018_N315_Saur	gaaatgactg	aacgtccgat	aaaaatata	aatagtttag	gcgttaaaga	tataaacatt	caggatcgta	aaataaaaa	agtatctaaa	
GQ902038_Saur_haem_pseud	gaaatgactg	aacgtccgat	aaaaatata	aatagtttag	gcgttaaaga	tataaacatt	caggatcgta	aaataaaaa	agtatctaaa	
EU929082_Spseudin	gaaatgactg	aacgtccgat	aaaaatata	aatagtttag	gcgttaaaga	tataaacatt	caggatcgta	aaataaaaa	agtatctaaa	
AB546266_Sfleur	gaaatgactg	aacgtccgat	aaaaatata	aaaagttag	gcgttaaaga	tataaacatt	caggatcgta	aaataaaaa	agtatctaaa	
AM048805_Scapi	gaaatgactg	aacgtccgat	aaaaatata	aaaagttag	gcgttaaaga	tataaacatt	caggatcgta	aaataaaaa	agtatctaaa	
EU929079_Spseudin	gaaatgactg	aacgtccgat	aaaaatata	aatagtttag	gcgttaaaga	tataaacatt	caggatcgta	aaataaaaa	agtatctaaa	
GU227428_Saur	gaaatgactg	aacgtccgat	aaaaatata	aatagtttag	gcgttaaaga	tataaacatt	caggatcgta	aaataaaaa	agtatctaaa	
Y14051_Saur	gaaatgactg	aacgtccgat	aaaaatata	aatagtttag	gcgttaaaga	tataaacatt	caggatcgta	aaataaaaa	agtatctaaa	
Y00688_Saur	gaaatgactg	aacgtccgat	aaaaatata	aatagtttag	gcgttaaaga	tataaacatt	caggatcgta	aaataaaaa	agtatctaaa	
EU929080_Spseudin	gaaatgactg	aacgtccgat	aaaaatata	aatagtttag	gcgttaaaga	tataaacatt	caggatcgta	aaataaaaa	agtatctaaa	
AM048807_Sklo_Scap	gaaatgactg	accgccgat	aaaaattat	gaaagttag	gcgttaaaga	tataaatatt	caggatcgta	aaataaagaa	agtatctaaa	
AM048808_Sklo_cap_vit	gaaatgactg	accgccgat	aaaaattat	gaaagttag	gcgttaaaga	tataaatatt	caggatcgta	aaataaagaa	agtatctaaa	
AB546780_Svit	gaaatgactg	accgccgat	aaaaattat	gaaagttag	gcgttaaaga	tataaatatt	caggatcgta	aaataaagaa	agtatctaaa	
AY820253_Ssci	gaaatgacag	accgccat	taagattat	gacagtctag	gtgtcaaagc	tatcaacatt	aaagatcgtg	atatcaaaaa	ggtttcaaaa	
Y13052_Ssci	gaaatgacag	accgccat	taagattat	gacagtctcg	gtgtcaaaga	tatcaacatt	aaagatcgtg	atatcaaaaa	ggtttcaaaa	
AB547235_Ssci	gaaatgacag	accgccat	taagattat	gacagtctcg	gcgtcaaaga	tatcaacatt	aaagatcgtg	atatcaaaaa	ggtttcaaaa	
S. sciuri 09-LEM-1/3	gaaatgacag	accgccat	taagattac	gacagtctcg	gcgtcaaaga	tatcaacatt	aaagatcgtg	atatcaaaaa	ggtttcaaaa	
Y09223_Ssci	gaaatgacag	accgccat	taagattat	gacagtctcg	gcgtcaaaga	tatcaacatt	aaagatcgtg	atatcaaaaa	ggtttcgaaa	
Y13094_Ssci	gaaatgacag	accgccat	taagattat	gacagtctcg	gcgtcaaaga	tatcaacatt	aaagatcgtg	atatcaaaaa	ggtttcgaaa	
AB547236_Ssci	gaaatgacag	accgccat	taagattat	gacagtctcg	gcgtcaaaga	tatcaacatt	aaagatcgtg	atatcaaaaa	ggtttcgaaa	
FR821779_Saur_LGA251	gaaattgtag	ataggaataa	aaaaattac	aaagatttaa	gtgtcaataa	cttaaaaatt	actaatcatg	aaattaaaaa	aactggaaaa	
FR823292_Saur_M10	gaaattgtag	ataggaataa	aaaaattac	aaagatttaa	gtgtcaataa	cttaaaaatt	actaatcatg	aaattaaaaa	aactggaaaa	

**Supplemental Table 3:** Alignments of known *mecA* alleles, continued

	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....
	275	285	295	305	315	325	335	345	355
AB546267_Sfleur	aataaaaaa	gagtagatgc	tcaatataaa	attaaaacaa	actacggtaa	cattgatcgc	aacgttcaat	ttaatTTTgt	taaagaagat
Y13095_Ssci	aataaaaaa	gagtagatgc	tcaatataaa	attaaaacaa	actacggtaa	cattgatcgc	aacgttcaat	ttaatTTTgt	taaagaagat
AY786579_Saur	aataaaaaa	gagtagatgc	tcaatataaa	attaaaacaa	actacggtaa	cattgatcgc	aacgttcaat	ttaatTTTgt	taaagaagat
ABSA01000066_Saur_epi	aataaaaaa	gagtagatgc	tcaatataaa	attaaaacaa	actacggtaa	cattgatcgc	aacgttcaat	ttaatTTTgt	taaagaagat
GU235984_Saur	aataaaaaa	gagtagatgc	tcaatataaa	attaaaacaa	actacggtaa	cattgatcgc	aacgttcaat	ttaatTTTgt	taaagaagat
EU929081_Spseudin	aataaaaaa	gagtagatgc	tcaatataaa	attaaaacaa	actacggtaa	cattgatcgc	aacgttcaat	ttaatTTTgt	taaagaagat
GU370073_Saur_sap_vit_kloo.	aataaaaaa	gagtagatgc	tcaatataaa	attaaaacaa	actacggtaa	cattgatcgc	aacgttcaat	ttaatTTTgt	taaagaagat
AB037671_Saur	aataaaaaa	gagtagatgc	tcaatataaa	attaaaacaa	actacggtaa	cattgatcgc	aacgttcaat	ttaatTTTgt	taaagaagat
GU235983_Saur	aataaaaaa	gagtagatgc	tcaatataaa	attaaaacaa	actacggtaa	cattgatcgc	aacgttcaat	ttaatTTTgt	taaagaagat
AB221119_Saur	aataaaaaa	gagtagatgc	tcaatataaa	attaaaacaa	actacggtaa	cattgatcgc	aacgttcaat	ttaatTTTgt	taaagaagat
FN433596_TW20_Saur_ST239	aataaaaaa	gagtagatgc	tcaatataaa	attaaaacaa	actacggtaa	cattgatcgc	aacgttcaat	ttaatTTTgt	taaagaagat
BA000018_N315_Saur	aataaaaaa	gagtagatgc	tcaatataaa	attaaaacaa	actacggtaa	cattgatcgc	aacgttcaat	ttaatTTTgt	taaagaagat
GQ902038_Saur_haem_pseud	aataaaaaa	gagtagatgc	tcaatataaa	attaaaacaa	actacggtaa	cattgatcgc	aacgttcaat	ttaatTTTgt	taaagaagat
EU929082_Spseudin	aataaaaaa	gagtagatgc	tcaatataaa	attaaaacaa	actacggtaa	cattgatcgc	aacgttcaat	ttaatTTTgt	taaagaagat
AB546266_Sfleur	aataaaaaa	gagtagatgc	tcaatataaa	attaaaacaa	actacggtaa	cattgatcgc	aacgttcaat	ttaatTTTgt	taaagaagat
AM048805_Scapi	aataaaaaa	gagtagatgc	tcaatataaa	attaaaacaa	actacggtaa	cattgatcgc	aacgttcaat	ttaatTTTgt	taaagaagat
EU929079_Spseudin	aataaaaaa	gagtagatgc	tcaatataaa	attaaaacaa	actacggtaa	cattgatcgc	aacgttcaat	ttaatTTTgt	taaagaagat
GU227428_Saur	aataaaaaa	gagtagatgc	tcaatataaa	attaaaacaa	actacggtaa	cattgatcgc	aacgttcaat	ttaatTTTgt	taaagaagat
Y14051_Saur	aataaaaaa	gagtagatgc	tcaatataaa	attaaaacaa	actacggtaa	cattgatcgc	aacgttcaat	ttaatTTTgt	taaagaagat
Y00688_Saur	aataaaaaa	gagtagatgc	tcaatataaa	attaaaacaa	actacggtaa	cattgatcgc	aacgttcaat	ttaatTTTgt	taaagaagat
EU929080_Spseudin	aataaaaaa	gagtagatgc	tcaatataaa	attaaaacaa	actacggtaa	cattgatcgc	aacgttcaat	ttaatTTTgt	taaagaagat
AM048807_Sklo_Scap	aataaaaaa	aagttgatgc	tcaatataaa	ctcaaaacaa	actacggta	catcgaccgc	aatgttcgat	ttaatTTcgt	taaagaagat
AM048808_Sklo_cap_vit	aataaaaaa	aagttgatgc	tcaatataaa	ctcaaaacaa	actacggta	catcgaccgc	aatgttcgat	ttaatTTcgt	taaagaagat
AB546780_Svit	aataaaaaa	aagttgatgc	tcaatataaa	atcaaaacaa	actacggta	catcgaccgc	aatgttcgat	ttaatTTcgt	taaagaagat
AY820253_Ssci	aacaaaaaa	aagtcactgc	aaaatatgaa	ctgcaaacaa	attacggcaa	aattaatcgt	gacgttaaat	taaactttat	taaagaagat
Y13052_Ssci	aacaaaaaa	aagtcacagc	aaaatatgaa	cttcaaacga	attacggcaa	aattaatcgc	gacgttaaat	taaactttat	taaagaagat
AB547235_Ssci	gacaaaaagc	aagtcacagc	aaaatatgaa	cttcaaacga	attacggcaa	aattaatcgc	gacgttaaat	taaactttat	taaagaagat
S. sciuri 09-LEM-1/3	gacaaaaagc	aagtcacagc	aaaatatgaa	cttcaaacga	attacggcaa	aattaatcgc	gacgtgaaat	taaactttat	taaagaagat
Y09223_Ssci	aacaaaaaa	aagtcacagc	aaagtatgaa	cttcaaacga	attacggcaa	aattaatcgt	gacgttaaat	taaactttat	taaagaagat
Y13094_Ssci	aacaaaaagc	aagtcacagc	aaagtatgaa	ctgcaaacga	attacggcaa	aattaatcat	gacgttaaat	taaactttat	taaagaagat
AB547236_Ssci	aacaaaaagc	aagtcacagc	aaagtatgaa	ctgcaaacga	attacggcaa	aattaatcgt	gacgttaaat	taaactttat	taaagaagat
FR821779_Saur_LGA251	gataaaaaa	aagttgatgt	taaataataac	atataatacaa	aatatggaac	tatacgacgt	aatacacaat	taaactttat	ttatgaagat
FR823292_Saur_M10	gataaaaaa	aagttgatgt	taaataataac	atataatacaa	aatatggaac	tatacgacgt	aatacacaat	taaactttat	ttatgaagat

**Supplemental Table 3:** Alignments of known *mecA* alleles, continued

	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....
	365	375	385	395	405	415	425	435	445	
AB546267_Sfleur	ggcatgtgga	aattagattg	ggatcatagc	gtcattattc	caggaatgca	gaaagaccaa	agcatacata	ttgaaaat	ttt	aaaatcagaa
Y13095_Ssci	ggtatgtgga	agttagattg	ggatcatagc	gtcattattc	caggaatgca	gaaagaccaa	agcatacata	ttgaaaat	ttt	aaaatcagaa
AY786579_Saur	ggtatgtgga	agttagattg	ggatcatagc	gtcattattc	caggaatgca	gaaagaccaa	agcatacata	ttgaaaat	ttt	aaaatcagaa
ABSA01000066_Saur_epi	ggtatgtgga	agttagattg	ggatcatagc	gtcattattc	caggaatgca	gaaagaccaa	agcatacata	ttgaaaat	ttt	aaaatcagaa
GU235984_Saur	ggtatgtgga	agttagattg	ggatcatagc	gtcattattc	caggaatgca	gaaagaccaa	agcatacata	ttgaaaat	ttt	aaaatcagaa
EU929081_Spseudin	ggtatgtgga	agttagattg	ggatcatagc	gtcattattc	caggaatgca	gaaagaccaa	agcatacata	ttgaaaat	ttt	aaaatcagaa
GU370073_Saur_sap_vit_kloo.	ggtatgtgga	agttagattg	ggatcatagc	gtcattattc	caggaatgca	gaaagaccaa	agcatacata	ttgaaaat	ttt	aaaatcagaa
AB037671_Saur	ggtatgtgga	agttagattg	ggatcatagc	gtcattattc	caggaatgca	gaaagaccaa	agcatacata	ttgaaaat	ttt	aaaatcagaa
GU235983_Saur	ggtatgtgga	agttagattg	ggatcatagc	gtcattattc	caggaatgca	gaaagaccaa	agcatacata	ttgaaaat	ttt	aaaatcaaaa
AB221119_Saur	ggtatgtgga	agttagattg	ggatcatagc	gtcattattc	caggaatgca	gaaagaccaa	agcatacata	ttgaaaaat		aaaatcagaa
FN433596_TW20_Saur_ST239	ggtatgtgga	agttagattg	ggatcatagc	gtcattattc	caggaatgca	gaaagaccaa	agcatacata	ttgaaaaat		aaaatcagaa
BA000018_N315_Saur	ggtatgtgga	agttagattg	ggatcatagc	gtcattattc	caggaatgca	gaaagaccaa	agcatacata	ttgaaaat	ttt	aaaatcagaa
GQ902038_Saur_haem_pseud	ggtatgtgga	agttagattg	ggatcatagc	gtcattattc	caggaatgca	gaaagaccaa	agcatacata	ttgaaaat	ttt	aaaatcagaa
EU929082_Spseudin	ggtatgtgga	agttagattg	ggatcatagc	gtcattattc	caggaatgca	gaaagaccaa	agcatacata	ttgaaaat	ttt	aaaatcagaa
AB546266_Sfleur	ggtatgtgga	agttagattg	ggatcatagc	gtcattattc	caggaatgca	gaaagaccaa	agcatacata	ttgaaaat	ttt	aaaatcagaa
AM048805_Scapi	ggtatgtgga	agttagattg	gaatcatagc	gtcattattc	caggaatgca	gaaagaccaa	agcatacata	ttgaaaat	ttt	aaaatcagaa
EU929079_Spseudin	ggtatgtgga	agttagattg	ggatcatagc	gtcattattc	caggaatgca	gaaagaccaa	agcatacata	ttgaaaat	ttt	aaaatcagaa
GU227428_Saur	ggtatgtgga	agttagattg	ggatcatagc	gtcattattc	caggaatgca	gaaagaccaa	agcatacata	ttgaaaat	ttt	aaaatcagaa
Y14051_Saur	ggtatgtgga	agttagattg	ggatcatagc	gtcattattc	caggaatgca	gaaagaccaa	agcatacata	ttgaaaat	ttt	aaaatcagaa
Y00688_Saur	ggtatgtgga	agttagattg	ggatcatagc	gtcattattc	caggaatgca	gaaagaccaa	agcatacata	ttgaaaat	ttt	aaaatcagaa
EU929080_Spseudin	ggtatgtgga	agttagattg	ggatcatagc	gtcattattc	caggaatgca	gaaagaccaa	agcatacata	ttgaaaat	ttt	aaaatcagaa
AM048807_Sklo_Scap	ggtaaatgga	aattagattg	gaatcaaagc	gtcattattc	cagacatgca	gaaagatcaa	agcattcata	tccaaccagt		taagtcggaa
AM048808_Sklo_cap_vit	ggtaaatgga	aattagattg	gaatcaaagc	gtcattattc	cagacatgca	gaaagatcaa	agcattcata	tccaaccagt		taagtcggaa
AB546780_Svit	ggtaaatgga	aattagattg	gaatcaaagc	gtcattattc	cagacatgca	gaaagatcaa	agcattcata	tccaaccagt		taagtcggaa
AY820253_Ssci	aaagattgga	aattgattg	gaatcaaagt	gtcatcattc	caggcatgca	gaaaaatcaa	tccatcaata	ttgaaccatt		gaaatcagaa
Y13052_Ssci	aaagattgga	aattggattg	gaatcaaagt	gtcattattc	caggcatgaa	gaaaaatcaa	tctatcaata	ttgaaccatt		gaaatcagaa
AB547235_Ssci	aaagattgga	aattggattg	gaatcaaagt	gtcattattc	caggcatgaa	gaaaaatcaa	tctatcaata	ttgaaccatt		gaaatcagaa
S. sciuri 09-LEM-1/3	aaagattgga	aattggattg	gaatcaaagt	gtcattattc	caggcatgga	gaaaaatcaa	tccatcaata	ttgaaccatt		gaaatcagaa
Y09223_Ssci	aaagattgga	aattggattg	gaatcaaat	gccattattc	caggcatgaa	gaaaaatcaa	tccatcaata	ttgaaccatt		gaaatcagaa
Y13094_Ssci	aaagattgga	aattggattg	gaatcaaagt	gtcattattc	caggcatgaa	gaaaaatcaa	tccatcaata	ttgaaccatt		gaaatcagaa
AB547236_Ssci	aaagattgga	aattggattg	gaatcaaagt	gtcattattc	caggcatgaa	gaaaaatcaa	tccatcaata	ttgaaccatt		gaaatcagaa
FR821779_Saur_LGA251	aagcattgga	aattagattg	gagaccagac	gtaatagtac	ctggtttgaa	aaatggacag	aaaattaata	tagaaacatt		aaaatcagag
FR823292_Saur_M10	aagcattgga	aattagattg	gagaccagac	gtaatagtac	ctggtttgaa	aaatggacag	aaaattaata	tagaaacatt		aaaatcagag

**Supplemental Table 3:** Alignments of known *mecA* alleles, continued

	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....
	455	465	475	485	495	505	515	525	535			
AB546267_Sfleur	cgtggtaaaa	ttttagaccg	aaacaatgtg	gaattggcca	atacaggaac	agcatatgag	a-taggcac	gttccaaaga	gtgtatctaa			
Y13095_Ssci	cgtggtaaaa	ttttagaccg	aaacaatgtg	gaattggcca	atacaggaac	agcatatgag	a-taggcac	gttccaaaga	atgtatctaa			
AY786579_Saur	cgtggtaaaa	ttttagaccg	aaacaatgtg	gaattggcca	atacaggaac	agcatatgag	a-taggcac	gttccaaaga	atgtatctaa			
ABSA01000066_Saur_epi	cgtggtaaaa	ttttagaccg	aaacaatgtg	gaattggcca	atacaggaac	agcatatgag	a-taggcac	gttccaaaga	atgtatctaa			
GU235984_Saur	cgtggtaaaa	ttttagaccg	aaacaatgtg	gaattggcca	atacaggaac	agcatatgag	a-taggcac	gttccaaaga	atgtatctaa			
EU929081_Spseudin	cgtggtaaaa	ttttagaccg	aaacaatgtg	gaattggcca	atacaggaac	agcatatgag	a-taggcac	gttccaaaga	atgtatctaa			
GU370073_Saur_sap_vit_kloo.	cgtggtaaaa	ttttagaccg	aaacaatgtg	gaattggcca	atacaggaac	agcatatgag	a-taggcac	gttccaaaga	atgtatctaa			
AB037671_Saur	cgtggtaaaa	ttttagaccg	aaacaatgtg	gaattggcca	atacaggaac	agcatatgag	a-taggcac	gttccaaaga	atgtatctaa			
GU235983_Saur	cgtggtaaaa	ttttagaccg	aaacaatgtg	gaattggcca	atacaggaac	agcatatgag	a-taggcac	gttccaaaga	atgtatctaa			
AB221119_Saur	cgtggtaaaa	ttttagaccg	aaacaatgtg	gaattggcca	atacaggaac	agcatatgag	a-taggcac	gttccaaaga	atgtatctaa			
FN433596_TW20_Saur_ST239	cgtggtaaaa	ttttagaccg	aaacaatgtg	gaattggcca	atacaggaac	agcatatgag	a-taggcac	gttccaaaga	atgtatctaa			
BA000018_N315_Saur	cgtggtaaaa	ttttagaccg	aaacaatgtg	gaattggcca	atacaggaac	agcatatgag	a-taggcac	gttccaaaga	atgtatctaa			
GQ902038_Saur_haem_pseud	cgtggtaaaa	ttttagaccg	aaacaatgtg	gaattggcca	atacaggaac	agcatatgag	a-taggcac	gttccaaaga	atgtatctaa			
EU929082_Spseudin	cgtggtaaaa	ttttagaccg	aaacaatgtg	gaattggcca	atacaggaac	agcatatgag	a-taggcac	gttccaaaga	atgtatctaa			
AB546266_Sfleur	cgtggtaaaa	ttttagaccg	aaacaatgtg	gaattggcca	atacaggaac	agcatatgag	a-taggcac	gttccaaaga	atgtatctaa			
AM048805_Scapi	cgtggtaaaa	ttttagaccg	aaacaatgtg	gaattggcca	atacaggaac	agcatatgag	a-taggcac	gttccaaaga	atgtatctaa			
EU929079_Spseudin	cgtggtaaaa	ttttagaccg	aaacaatgtg	gaattggcca	atacaggaac	agcatatgag	a-taggcac	gttccaaaga	atgtatctaa			
GU227428_Saur	cgtggtaaaa	ttttagaccg	aaacaatgtg	gaattggcca	atacaggaac	a-catatgag	attaggcac	gttccaaaga	atgtatctaa			
Y14051_Saur	cgtggtaaaa	ttttagaccg	aaacaatgtg	gaattggcca	atacaggaac	a-catatgag	attaggcac	gttccaaaga	atgtatctaa			
Y00688_Saur	cgtggtaaaa	ttttagaccg	aaacaatgtg	gaattggcca	atacaggaac	a-catatgag	attaggcac	gttccaaaga	atgtatctaa			
EU929080_Spseudin	cgtggtaaaa	ttttagaccg	aaacaatgtg	gaattggcca	atacaggaac	a-catatgag	attaggcac	gttccaaaga	atgtatctaa			
AM048807_Sklo_Scap	cgcggtaaaa	ttttagacag	aaacaacgta	gaattggcca	atacaggaac	agcacatgag	a-taggcatt	gttccaacga	gtgtgtctaa			
AM048808_Sklo_cap_vit	cgcggtaaaa	ttttagacag	aaacaacgta	gaattggcca	atacaggaac	agcacatgag	a-taggcatt	gttccaacga	gtgtgtctaa			
AB546780_Svit	cgcggtaaaa	ttttagacag	aaacaacgta	gaattggcca	atacaggaac	agcacatgag	a-taggcatt	gttccaacga	gtgtgtctaa			
AY820253_Ssci	cgaggtaaga	ttttagaccg	aaataatgta	gaattagcca	ctacaggaac	agcacatgaa	g-ttggcatt	gttcctaata	atgtttcgac			
Y13052_Ssci	cgaggtaaga	ttttagaccg	aaacaatgta	gagttagcca	ctacaggaac	agcacatgaa	g-ttggcatt	gttcctaata	atgtttcgac			
AB547235_Ssci	cgaggtaaga	ttttagaccg	aaacaatgta	gagttagcca	ctacaggaac	agcacatgaa	g-ttggcatt	gttcctaata	atgtttcgac			
S. sciuri 09-LEM-1/3	cgaggtaaga	ttttagaccg	aaacaatgta	gaattagcca	ctacaggaac	agcacatgaa	g-ttggcatt	gttcctaata	atgtttcgac			
Y09223_Ssci	cgaggtaaga	ttttagacag	gaacaatgta	gagttagcca	ctacaggaac	aacacatgaa	g-ttggatt	gttcctaata	atgtttccac			
Y13094_Ssci	cgtggtaaga	ttttagaccg	aaacaatgta	gagttagcca	ctacaggaac	agcacatgaa	g-ttggatt	gttcctaata	atgtttccac			
AB547236_Ssci	cgtggtaaga	ttttagaccg	aaacaatgta	gagttagcca	ctacaggaac	agcacatgaa	g-ttggatt	gttcctaata	atgtttccac			
FR821779_Saur_LGA251	cgaggcaaaa	taaaagatag	aaatggtata	gaattagcta	aaactggaaa	tacatatgaa	a-tcggatt	gtccctaaca	aaacacccaa			
FR823292_Saur_M10	cgaggcaaaa	taaaagatag	aaatggtata	gaattagcta	aaactggaaa	tacatatgaa	a-tcggatt	gtccctaaca	aaacacccaa			

**Supplemental Table 3:** Alignments of known *mecA* alleles, continued

	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....
	545	555	565	575	585	595	605	615	625
AB546267_Sfleur	aaaagattat	aaagcaatcg	ctaaagaact	aagtatttct	gaagactata	tcaaacaaca	aatggatcaa	aattgggtac	aagatgatac
Y13095_Ssci	aaaagattat	aaagccatcg	ctaaagaact	aagtatttct	gaagactata	tcaaacaaca	aatggatcaa	aattgggtac	aagatgatac
AY786579_Saur	aaaagattat	aaagcaatcg	ctaaagaact	aagtatttct	gaagactata	tcaaacaaca	aatggatcaa	aattgggtac	aagatgatac
ABSA01000066_Saur_epi	aaaagattat	aaagcaatcg	ctaaagaact	aagtatttct	gaagactata	tcaaacaaca	aatggatcaa	aattgggtac	aagatgatac
GU235984_Saur	aaaagattat	aaagcaatcg	ctaaagaact	aagtatttct	gaagactata	tcaaacaaca	aatggatcaa	aattgggtac	aagatgatac
EU929081_Spseudin	aaaagattat	aaagcaatcg	ctaaagaact	aagtatttct	gaagactata	tcaaacaaca	aatggatcaa	aattgggtac	aagatgatac
GU370073_Saur_sap_vit_kloo.	aaaagattat	aaagcaatcg	ctaaagaact	aagtatttct	gaagactata	tcaaacaaca	aatggatcaa	aattgggtac	aagatgatac
AB037671_Saur	aaaagattat	aaagcaatcg	ctaaagaact	aagtatttct	gaagactata	tcaaacaaca	aatggatcaa	aagtgggtac	aagatgatac
GU235983_Saur	aaaagattat	aaagcaatcg	ctaaagaact	aagtatttct	gaagactata	tcaaacaaca	aatggatcaa	aagtgggtac	aagatgatac
AB221119_Saur	aaaagattat	aaagcaatcg	ctaaagaact	aagtatttct	gaagactata	tcaaacaaca	aatggatcaa	aattgggtac	aagatgatac
FN433596_TW20_Saur_ST239	aaaagattat	aaagcaatcg	ctaaagaact	aagtatttct	gaagactata	tcaaacaaca	aatggatcaa	aagtgggtac	aagatgatac
BA000018_N315_Saur	aaaagattat	aaagcaatcg	ctaaagaact	aagtatttct	gaagactata	tcaaacaaca	aatggatcaa	aattgggtac	aagatgatac
GQ902038_Saur_haem_pseud	aaaagattat	aaagcaatcg	ctaaagaact	aagtatttct	gaagactata	tcaaacaaca	aatggatcaa	aattgggtac	aagatgatac
EU929082_Spseudin	aaaagattat	aaagcaatcg	ctaaagaact	aagtatttct	gaagactata	tcaaacaaca	aatggatcaa	aattgggtac	aagatgatac
AB546266_Sfleur	aaaagattat	aaagcaatcg	ctaaagaact	aagtatttct	gaagactata	tcaaacaaca	aatggatcaa	aattgggtac	aagatgatac
AM048805_Scapi	aaaagattat	aaagcaatcg	ctaaagaact	aagtatttct	gaagactata	tcaaacaaca	aatggatcaa	aattgggtac	aagatgatac
EU929079_Spseudin	aaaagattat	aaagcaatcg	ctaaagaact	aagtatttct	gaagactata	tcaaacaaca	aatggatcaa	aattgggtac	aagatgatac
GU227428_Saur	aaaagattat	aaagcaatcg	ctaaagaact	aagtatttct	gaagactata	tc-aacaaca	aatggatcaa	aattgggtac	aagatgatac
Y14051_Saur	aaaagattat	aaagcaatcg	ctaaagaact	aagtatttct	gaagactata	tc-aacaaca	aatggatcaa	aattgggtac	aagatgatac
Y00688_Saur	aaaagattat	aaagcaatcg	ctaaagaact	aagtatttct	gaagactata	tc-aacaaca	aatggatcaa	aattgggtac	aagatgatac
EU929080_Spseudin	aaaagattat	aaagcaatcg	ctaaagaact	aagtatttct	gaagactata	tc-aacaaca	aatggatcaa	aattgggtac	aagatgatac
AM048807_Sklo_Scap	agaagactat	aaagcaatcg	ctcaaaaact	aagtatttca	gaaggtcata	ttaaccaaca	aatgaaccaa	gattgggttc	aagatgatac
AM048808_Sklo_cap_vit	agaagactat	aaagcaatcg	ctcaaaaact	aagtatttca	gaaggtcata	ttaaccaaca	aatgaaccaa	gattgggttc	aagatgatac
AB546780_Svit	agaagactat	aaagcaatcg	ctcaaaaact	aagtatttca	gaagatcata	ttaaccaaca	aatgaaccaa	gattgggttc	aagatgatac
AY820253_Ssci	aagtgattac	aaagcaatcg	ctgaaaaatt	agaccttca	gaatcgtata	ttaacaaca	agctgaacag	gattgggtta	aagatgatac
Y13052_Ssci	aatgattat	aaagcaatcg	ctgaaaaatt	agaccttca	gaatcgtaca	ttaacaaca	aacagaacag	gactgggtta	aagatgatac
AB547235_Ssci	aatgattat	aaagcaatcg	ctgaaaaatt	agaccttca	gaatcgtaca	ttaacaaca	aacagaacag	gactgggtta	aagatgatac
S. sciuri 09-LEM-1/3	aagtgattac	aaagcaatcg	ctgaaaaatt	agaccttca	gaatcgtaca	ttaacaaca	aactgaacag	gactgggtta	aagatgatac
Y09223_Ssci	aagtgattac	aaagcaatcg	ctgaaaagt	agaccttca	gaatcgtata	ttaaacagca	aacagaacag	gattgggtta	aagatgatac
Y13094_Ssci	aagtgattac	aaagcaatcg	ctgaaaagt	agaccttca	gaatcgtata	ttaacaaca	aacagaacag	gattgggtta	aagatgatac
AB547236_Ssci	aagtgattac	aaagcaatcg	ctgaaaagt	agaccttca	gaatcgtata	ttaacaaca	aacagaacag	gattgggtta	aagatgatac
FR821779_Saur_LGA251	agaaaaatat	gatgatattg	ctcgtgactt	acaaattgat	acaaaagcta	taaccaataa	agttaatcaa	aaatgggttc	agccagattc
FR823292_Saur_M10	agaaaaatat	gatgatattg	ctcgtgactt	acaaattgat	acaaaagcta	taaccaataa	agttaatcaa	aaatgggttc	agccagattc



**Supplemental Table 3:** Alignments of known *mecA* alleles, continued

	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....						
	635	645	655	665	675	685	695	705	715						
AB546267_Sfleur	cttcg	ttcca	c-ttaaa	acc	gttaaaaa	tgga	gaaga	tttaagt	gat	ttcgcaaaa	aatttc	catct	tacaac	taac	gaaacagaaa
Y13095_Ssci	cttcg	ttcca	c-ttaaa	acc	gttaaaaa	tgga	gaata	tttaagt	gat	ttcgcaaaa	aatttc	catct	tacaac	taat	gaaacagaaa
AY786579_Saur	cttcg	ttcca	c-ttaaa	acc	gttaaaaa	tgga	gaata	tttaagt	gat	ttcgcaaaa	aatttc	catct	tacaac	taat	gaaacagaaa
ABSA01000066_Saur_epi	cttcg	ttcca	c-ttaaa	acc	gttaaaaa	tgga	gaata	tttaagt	gat	ttcgcaaaa	aatttc	catct	tacaac	taat	gaaacagaaa
GU235984_Saur	cttcg	ttcca	c-ttaaa	acc	gttaaaaa	tgga	gaata	tttaagt	gat	ttcgcaaaa	aatttc	catct	tacaac	taat	gaaacagaaa
EU929081_Spseudin	cttcg	ttcca	c-ttaaa	acc	gttaaaaa	tgga	gaata	tttaagt	gat	ttcgcaaaa	aatttc	catct	tacaac	taat	gaaacagaaa
GU370073_Saur_sap_vit_kloo.	cttcg	ttcca	c-ttaaa	acc	gttaaaaa	tgga	gaata	tttaagt	gat	ttcgcaaaa	aatttc	catct	tacaac	taat	gaaacagaaa
AB037671_Saur	cttcg	ttcca	c-ttaaa	acc	gttaaaaa	tgga	gaata	tttaagt	gat	ttcgcaaaa	aatttc	catct	tacaac	taat	gaaacagaaa
GU235983_Saur	cttcg	ttcca	c-ttaaa	acc	gttaaaaa	tgga	gaata	tttaagt	gat	ttcgcaaaa	aatttc	catct	tacaac	taat	gaaacagaaa
AB221119_Saur	cttcg	ttcca	c-ttaaa	acc	gttaaaaa	tgga	gaata	tttaagt	gat	ttcgcaaaa	aatttc	catct	tacaac	taat	gaaacagaaa
FN433596_TW20_Saur_ST239	cttcg	ttcca	c-ttaaa	acc	gttaaaaa	tgga	gaata	tttaagt	gat	ttcgcaaaa	aatttc	catct	tacaac	taat	gaaacagaaa
BA000018_N315_Saur	cttcg	ttcca	c-ttaaa	acc	gttaaaaa	tgga	gaata	tttaagt	gat	ttcgcaaaa	aatttc	catct	tacaac	taat	gaaacagaaa
GQ902038_Saur_haem_pseud	cttcg	ttcca	c-ttaaa	acc	gttaaaaa	tgga	gaata	tttaagag	at	ttcgcaaaa	aatttc	catct	tacaac	taat	gaaacagaaa
EU929082_Spseudin	cttcg	ttcca	c-ttaaa	acc	gttaaaaa	tgga	gaata	tttaagt	gat	ttcgcaaaa	aatttc	catct	tacaac	taat	gaaacagaaa
AB546266_Sfleur	cttcg	ttcca	c-ttaaa	acc	gttaaaaa	tgga	gaaga	tttaagt	gat	ttcgcaaaa	aatttc	catct	tacaac	taat	gaaacagaaa
AM048805_Scapi	cttcg	ttcca	c-ttaaa	acc	gttaaaaa	tgga	gaaga	tttaagt	gat	ttcgcaaaa	aatttc	catct	tacaac	taat	gaaacagaaa
EU929079_Spseudin	cttcg	ttcca	c-ttaaa	acc	gttaaaaa	tgga	gaata	tttaagag	at	ttcgcaaaa	aatttc	catct	tacaac	taat	gaaacagaaa
GU227428_Saur	cttcg	ttcca	ctttaaa	acc	gttaaaaa	tgga	gaata	tttaagt	gat	ttcgcaaaa	aatttc	catct	tacaac	taat	gaaacagaaa
Y14051_Saur	cttcg	ttcca	ctttaaa	acc	gttaaaaa	tgga	gaata	tttaagt	gat	ttcgcaaaa	aatttc	catct	tacaac	taat	gaaacagaaa
Y00688_Saur	cttcg	ttcca	ctttaaa	acc	gttaaaaa	tgga	gaata	tttaagt	gat	ttcgcaaaa	aatttc	catct	tacaac	taat	gaaacagaaa
EU929080_Spseudin	cttcg	ttcca	ctttaaa	acc	gttaaaaa	tgga	gaata	tttaagt	gat	ttcgcaaaa	aatttc	catct	tacaac	taat	gaaacagaaa
AM048807_Sklo_Scap	attcg	ttcca	c-ttaag	acc	gttaaaaca	tgga	taaaga	tttaagt	gat	ttcgtaaaa	aacat	catct	tacaac	taat	gaaacagaaa
AM048808_Sklo_cap_vit	attcg	ttcca	c-ttaag	acc	gttaaaaca	tgga	taaaga	tttaagt	gat	ttcgtaaaa	aacat	catct	tacaac	taat	gaaacagaaa
AB546780_Svit	attcg	ttcca	c-ttaag	acc	gttaaaaca	tgga	taaaga	tttaagt	gat	ttcgtaaaa	aacat	catct	tacaac	taat	gaaacagaaa
AY820253_Ssci	attcg	tcctt	c-tcaag	act	gttcaaaa	tgaat	caaga	cacaaag	cgt	tttgttgaaa	agtat	catct	cacaac	acaa	gaaacagaaa
Y13052_Ssci	attcg	tcctt	c-ttaag	act	gttcaaaa	tgaat	caaga	tacaaga	aat	tttgttgaga	agtat	catct	cacaac	acaa	gaaacagaaa
AB547235_Ssci	attcg	tcctt	c-ttaag	act	gttcaaaa	tgaat	caaga	tacaaga	aat	tttgttgaga	agtat	catct	cacaac	acaa	gaaacagaaa
S. sciuri 09-LEM-1/3	attcat	tcctt	c-ttaag	act	gttcaaaa	tgaat	caaga	tacaaga	aat	tttgttgaaa	agtat	catct	cacaac	acaa	gaaacagaaa
Y09223_Ssci	attcg	tcctt	c-tcaag	act	gttcaagata	tgaat	caaga	tttaaga	aat	tttgttgaaa	agtat	catct	cacat	cacag	gaaacagaaa
Y13094_Ssci	attcg	tcctt	c-tcaag	act	gttcaagata	tgaat	caaga	tttaaga	aat	tttgttgaaa	agtat	catct	cacat	cacag	gaaacagaaa
AB547236_Ssci	attcg	tcctt	c-tcaag	act	gttcaagata	tgaat	caaga	tttaaga	aat	tttgttgaaa	agtat	catct	cacat	cacag	gaaacagaaa
FR821779_Saur_LGA251	atttg	tacca	a-ttaaaa	aag	ataaataaac	aagat	gaata	tatagac	aaa	ttaattaaat	cataca	at	ttt	acaataaac	actataaaaa
FR823292_Saur_M10	atttg	tacca	a-ttaaaa	aag	ataaataaac	aagat	gaata	tatagac	aaa	ttaattaaat	cataca	at	ttt	acaataaac	actataaaaa

**Supplemental Table 3:** Alignments of known *mecA* alleles, continued

	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....
	725	735	745	755	765	775	785	795	805
AB546267_Sfleur	gtcgt <b>aa</b> cta	tcctc <b>ta</b> gaa	gaagc <b>ga</b> ctt	cacat <b>ct</b> att	agg <b>ttat</b> gtt	ggt <b>ccc</b> atta	act <b>ct</b> gaaga	att <b>aaa</b> caa	aa <b>ga</b> atata
Y13095_Ssci	gtcgt <b>aa</b> cta	tcctc <b>ta</b> gaa	aaagc <b>ga</b> ctt	cacat <b>ct</b> att	agg <b>ttat</b> gtt	ggt <b>ccc</b> atta	act <b>ct</b> gaaga	att <b>aaa</b> caa	aa <b>ga</b> atata
AY786579_Saur	gtcgt <b>aa</b> cta	tcctc <b>ta</b> gga	aaagc <b>ga</b> ctt	cacat <b>ct</b> att	agg <b>ttat</b> gtt	ggt <b>ccc</b> atta	act <b>ct</b> gaaga	att <b>aaa</b> caa	aa <b>ga</b> atata
ABSA01000066_Saur_epi	gtcgt <b>aa</b> cta	tcctc <b>ta</b> gga	aaagc <b>ga</b> ctt	cacat <b>ct</b> att	agg <b>ttat</b> gtt	ggt <b>ccc</b> atta	act <b>ct</b> gaaga	att <b>aaa</b> caa	aa <b>ga</b> atata
GU235984_Saur	gtcgt <b>aa</b> cta	tcctc <b>ta</b> gga	aaagc <b>ga</b> ctt	cacat <b>ct</b> att	agg <b>ttat</b> gtt	ggt <b>ccc</b> atta	act <b>ct</b> gaaga	att <b>aaa</b> caa	aa <b>ga</b> atata
EU929081_Spseudin	gtcgt <b>aa</b> cta	tcctc <b>ta</b> gga	aaagc <b>ga</b> ctt	cacat <b>ct</b> att	agg <b>ttat</b> gtt	ggt <b>ccc</b> atta	act <b>ct</b> gaaga	att <b>aaa</b> caa	aa <b>ga</b> atata
GU370073_Saur_sap_vit_kloo.	gtcgt <b>aa</b> cta	tcctc <b>ta</b> gaa	aaagc <b>ga</b> ctt	cacat <b>ct</b> att	agg <b>ttat</b> gtt	ggt <b>ccc</b> atta	act <b>ct</b> gaaga	att <b>aaa</b> caa	aa <b>ga</b> atata
AB037671_Saur	gtcgt <b>aa</b> cta	tcctc <b>ta</b> gaa	aaagc <b>ga</b> ctt	cacat <b>ct</b> att	agg <b>ttat</b> gtt	ggt <b>ccc</b> atta	act <b>ct</b> gaaga	att <b>aaa</b> caa	aa <b>ga</b> atata
GU235983_Saur	gtcgt <b>aa</b> cta	tcctc <b>ta</b> gaa	aaagc <b>ga</b> ctt	cacat <b>ct</b> att	agg <b>ttat</b> gtt	ggt <b>ccc</b> atta	act <b>ct</b> gaaga	att <b>aaa</b> caa	aa <b>ga</b> atata
AB221119_Saur	gtcgt <b>aa</b> cta	tcctc <b>ta</b> gaa	aaagc <b>ga</b> ctt	cacat <b>ct</b> att	agg <b>ttat</b> gtt	ggt <b>ccc</b> atta	act <b>ct</b> gaaga	att <b>aaa</b> caa	aa <b>ga</b> atata
FN433596_TW20_Saur_ST239	gtcgt <b>aa</b> cta	tcctc <b>ta</b> gaa	aaagc <b>ga</b> ctt	cacat <b>ct</b> att	agg <b>ttat</b> gtt	ggt <b>ccc</b> atta	act <b>ct</b> gaaga	att <b>aaa</b> caa	aa <b>ga</b> atata
BA000018_N315_Saur	gtcgt <b>aa</b> cta	tcctc <b>ta</b> gga	aaagc <b>ga</b> ctt	cacat <b>ct</b> att	agg <b>ttat</b> gtt	ggt <b>ccc</b> atta	act <b>ct</b> gaaga	att <b>aaa</b> caa	aa <b>ga</b> atata
GQ902038_Saur_haem_pseud	gtcgt <b>aa</b> cta	tcctc <b>ta</b> gga	aaagc <b>ga</b> ctt	cacat <b>ct</b> att	agg <b>ttat</b> gtt	ggt <b>ccc</b> atta	act <b>ct</b> gaaga	att <b>aaa</b> caa	aa <b>ga</b> atata
EU929082_Spseudin	gtcgt <b>aa</b> cta	tcctc <b>ta</b> gga	aaagc <b>ga</b> ctt	cacat <b>ct</b> att	agg <b>ttat</b> gtt	ggt <b>ccc</b> atta	act <b>ct</b> gaaga	att <b>aaa</b> caa	aa <b>ga</b> atata
AB546266_Sfleur	gtcgt <b>aa</b> cta	tcctc <b>ta</b> gaa	aaagc <b>ga</b> ctt	cacat <b>ct</b> att	agg <b>ttat</b> gtt	ggt <b>ccc</b> atta	act <b>ct</b> gaaga	att <b>aaa</b> caa	aa <b>ga</b> atata
AM048805_Scapi	gtcgt <b>aa</b> cta	tcctc <b>ta</b> gaa	aaagc <b>ga</b> ctt	cacat <b>ct</b> att	agg <b>ttat</b> gtt	ggt <b>ccc</b> atta	act <b>ct</b> gaaga	att <b>aaa</b> caa	aa <b>ga</b> atata
EU929079_Spseudin	gtcgt <b>aa</b> cta	tcctc <b>ta</b> gga	aaagc <b>ga</b> ctt	cacat <b>ct</b> att	agg <b>ttat</b> gtt	ggt <b>ccc</b> atta	act <b>ct</b> gaaga	att <b>aaa</b> caa	aa <b>ga</b> atata
GU227428_Saur	gtcgt <b>aa</b> cta	tcctc <b>ta</b> gaa	aaagc <b>ga</b> ctt	cacat <b>ct</b> att	agg <b>ttat</b> gtt	ggt <b>ccc</b> atta	act <b>ct</b> gaaga	att <b>aaa</b> caa	aa <b>ga</b> atata
Y14051_Saur	gtcgt <b>aa</b> cta	tcctc <b>ta</b> gaa	aaagc <b>ga</b> ctt	cacat <b>ct</b> att	agg <b>ttat</b> gtt	ggt <b>ccc</b> atta	act <b>ct</b> gaaga	att <b>aaa</b> caa	aa <b>ga</b> atata
Y00688_Saur	gtcgt <b>aa</b> cta	tcctc <b>ta</b> gga	aaagc <b>ga</b> ctt	cacat <b>ct</b> att	agg <b>ttat</b> gtt	ggt <b>ccc</b> atta	act <b>ct</b> gaaga	att <b>aaa</b> caa	aa <b>ga</b> atata
EU929080_Spseudin	gtcgt <b>aa</b> cta	tcctc <b>ta</b> gga	aaagc <b>ga</b> ctt	cacat <b>ct</b> att	agg <b>ttat</b> gtt	ggt <b>ccc</b> atta	act <b>ct</b> gaaga	att <b>aaa</b> caa	aa <b>ga</b> atata
AM048807_Sklo_Scap	gtc <b>gca</b> cta	tcctc <b>ta</b> gaa	aaagc <b>ga</b> cgt	cacat <b>tt</b> att	agg <b>ttat</b> gtt	gg <b>ccca</b> atta	act <b>ct</b> gaaga	att <b>aa</b> gaag	aa <b>ga</b> at <b>tt</b> a
AM048808_Sklo_cap_vit	gtc <b>gca</b> cta	tcctc <b>ta</b> gaa	aaagc <b>ga</b> cgt	cacat <b>tt</b> att	agg <b>ttat</b> gtt	gg <b>ccca</b> atta	act <b>ct</b> gaaga	att <b>aa</b> gaag	aa <b>ga</b> at <b>tt</b> a
AB546780_Svit	gtc <b>gca</b> cta	tcctc <b>ta</b> gaa	aaagc <b>ga</b> cgt	cacat <b>tt</b> att	agg <b>ttat</b> gtt	gg <b>ccca</b> atta	act <b>ct</b> gaaga	att <b>aa</b> gaag	aa <b>ga</b> at <b>tt</b> a
AY820253_Ssci	gtc <b>gac</b> agta	tcc <b>gc</b> ttgaa	gaagc <b>aa</b> caa	cgc <b>act</b> tgct	tgg <b>ttat</b> gtt	gg <b>ccct</b> atta	act <b>c</b> agaaga	att <b>aa</b> gcaa	aa <b>g</b> cat <b>tt</b> a
Y13052_Ssci	gtc <b>gaca</b> ata	tcc <b>gc</b> ttgaa	gaagc <b>aa</b> caa	cgc <b>act</b> tgct	tgg <b>ttat</b> gtt	gg <b>ccct</b> atta	act <b>c</b> agaaga	att <b>aa</b> gcaa	aa <b>g</b> cat <b>tt</b> a
AB547235_Ssci	gtc <b>gac</b> agta	tcc <b>gc</b> ttgaa	gaagc <b>aa</b> caa	cgc <b>act</b> tgct	tgg <b>ttat</b> gtt	gg <b>ccct</b> atta	act <b>c</b> agaaga	att <b>aa</b> gcaa	aa <b>g</b> cat <b>tt</b> a
S. sciuri 09-LEM-1/3	gtc <b>gac</b> agta	tcc <b>gc</b> ttgaa	gaagc <b>aa</b> caa	cgc <b>act</b> tgct	tgg <b>ttat</b> gtt	gg <b>ccct</b> atta	act <b>c</b> agaaga	att <b>aa</b> gcaa	aa <b>g</b> cat <b>tt</b> a
Y09223_Ssci	gtc <b>gac</b> agta	tcc <b>gc</b> ttgaa	gaagc <b>aa</b> caa	cgc <b>act</b> tact	tgg <b>at</b> atgtt	gg <b>ccct</b> atta	att <b>c</b> agaaga	att <b>g</b> aagcaa	aa <b>g</b> cat <b>tt</b> a
Y13094_Ssci	gtc <b>gag</b> agta	tcc <b>g</b> tttgaa	gaagc <b>aa</b> caa	cgc <b>act</b> tact	tgg <b>at</b> acgtt	gg <b>ccct</b> atta	att <b>c</b> agaaga	att <b>g</b> aagcaa	aa <b>g</b> cat <b>tt</b> a
AB547236_Ssci	gtc <b>gag</b> agta	tcc <b>g</b> tttgaa	gaagc <b>aa</b> caa	cgc <b>act</b> tact	tgg <b>at</b> acgtt	gg <b>ccct</b> atta	att <b>c</b> agaaga	att <b>g</b> aagcaa	aa <b>g</b> cat <b>tt</b> a
FR821779_Saur_LGA251	gcc <b>gt</b> ttta	tcc <b>att</b> gaac	gaagc <b>aa</b> cag	tac <b>ac</b> ctttt	agg <b>ttat</b> gtg	ggt <b>cca</b> atta	att <b>ct</b> gacga	gt <b>t</b> aaaaagt	aa <b>g</b> caat <b>tt</b> a
FR823292_Saur_M10	gcc <b>gt</b> ttta	tcc <b>att</b> gaac	gaagc <b>aa</b> cag	tac <b>ac</b> ctttt	agg <b>ttat</b> gtg	ggt <b>cca</b> atta	att <b>ct</b> gacga	gt <b>t</b> aaaaagt	aa <b>g</b> caat <b>tt</b> a

**Supplemental Table 3:** Alignments of known *mecA* alleles, continued

	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....									
	815	825	835	845	855	865	875	885	895									
AB546267_Sfleur	aagg	tataa	agat	gatgca	gtt	gttggta	aaa	agggact	cgaaaa	actt	tacga	tataaa	agct	ccaaca	tga	aatggc	tat	cgtgtca
Y13095_Ssci	aagg	tataa	agat	gatgca	gtt	tattggta	aaa	agggact	cgaaaa	actt	tacga	tataaa	agct	ccaaca	tga	aatggc	tat	cgtgtca
AY786579_Saur	aagg	tataa	agat	gatgca	gtt	tattggta	aaa	agggact	cgaaaa	actt	tacga	tataaa	agct	ccaaca	tga	aatggc	tat	cgtgtca
ABSA01000066_Saur_epi	aagg	tataa	agat	gatgca	gtt	tattggta	aaa	agggact	cgaaaa	actt	tacga	tataaa	agct	ccaaca	tga	aatggc	tat	cgtgtca
GU235984_Saur	aagg	tataa	agat	gatgca	gtt	tattggta	aaa	agggact	cgaaaa	actt	tacga	tataaa	agct	ccaaca	tga	aatggc	tat	cgtgtca
EU929081_Spseudin	aagg	tataa	agat	gatgca	gtt	tattggta	aaa	agggact	cgaaaa	actt	tacga	tataaa	agct	ccaaca	tga	aatggc	tat	cgtgtca
GU370073_Saur_sap_vit_kloo.	aagg	tataa	agat	gatgca	gtt	tattggta	aaa	agggact	cgaaaa	actt	tacga	tataaa	agct	ccaaca	tga	aatggc	tat	cgtgtca
AB037671_Saur	aagg	tataa	agat	gatgca	gtt	tattggta	aaa	agggact	cgaaaa	actt	tacga	tataaa	agct	ccaaca	tga	aatggc	tat	cgtgtca
GU235983_Saur	aagg	tataa	agat	gatgca	gtt	tattggta	aaa	agggact	cgaaaa	actt	tacga	tataaa	agct	ccaaca	tga	aatggc	tat	cgtgtca
AB221119_Saur	aagg	tataa	agat	gatgca	gtt	tattggta	aaa	agggact	cgaaaa	actt	tacga	tataaa	agct	ccaaca	tga	aatggc	tat	cgtgtca
FN433596_TW20_Saur_ST239	aagg	tataa	agat	gatgca	gtt	tattggta	aaa	agggact	cgaaaa	actt	tacga	tataaa	agct	ccaaca	tga	aatggc	tat	cgtgtca
BA000018_N315_Saur	aagg	tataa	agat	gatgca	gtt	tattggta	aaa	agggact	cgaaaa	actt	tacga	tataaa	agct	ccaaca	tga	aatggc	tat	cgtgtca
GQ902038_Saur_haem_pseud	aagg	tataa	agat	gatgca	gtt	tattggta	aaa	agggact	cgaaaa	actt	tacga	tataaa	agct	ccaaca	tga	aatggc	tat	cgtgtca
EU929082_Spseudin	aagg	tataa	agat	gatgca	gtt	tattggta	aaa	agggact	cgaaaa	actt	tacga	tataaa	agct	ccaaca	tga	aatggc	tat	cgtgtca
AB546266_Sfleur	aagg	tataa	agat	gatgca	gtt	tattggta	aaa	agggact	cgaaaa	actt	tacga	tataaa	agct	ccaaca	tga	aatggc	tat	cgtgtca
AM048805_Scapi	aagg	tataa	agat	gatgca	gtt	tattggta	aaa	agggact	cgaaaa	actt	tacga	tataaa	agct	ccaaca	tga	aatggc	tat	cgtgtca
EU929079_Spseudin	aagg	tataa	agat	gatgca	gtt	tattggta	aaa	agggact	cgaaaa	actt	tacga	tataaa	agct	ccaaca	tga	aatggc	tat	cgtgtca
GU227428_Saur	aagg	tataa	agat	gatgca	gtt	tattggta	aaa	agggact	cgaaaa	actt	tacga	tataaa	agct	ccaaca	tga	aatggc	tat	cgtgtca
Y14051_Saur	aagg	tataa	agat	gatgca	gtt	tattggta	aaa	agggact	cgaaaa	actt	tacga	tataaa	agct	ccaaca	tga	aatggc	tat	cgtgtca
Y00688_Saur	aagg	tataa	agat	gatgca	gtt	tattggta	aaa	agggact	cgaaaa	actt	tacga	tataaa	agct	ccaaca	tga	aatggc	tat	cgtgtca
EU929080_Spseudin	aagg	tataa	agat	gatgca	gtt	tattggta	aaa	agggact	cgaaaa	actt	tacga	tataaa	agct	ccaaca	tga	aatggc	tat	cgtgtca
AM048807_Sklo_Scap	aagg	ttatga	agat	gatgct	gtc	gttggta	aaa	aaggact	cgaaaa	actt	tatga	tataaa	agct	ccaaca	taa	aatggc	tat	cgtgtca
AM048808_Sklo_cap_vit	aagg	ttatga	agat	gatgct	gtc	gttggta	aaa	aaggact	cgaaaa	actt	tatga	tataaa	agct	ccaaca	taa	aatggc	tat	cgtgtca
AB546780_Svit	aagg	ttatga	agat	gatgct	gtc	gttggta	aaa	aaggact	cgaaaa	actt	tatga	tataaa	agct	ccaaca	taa	aatggc	tat	cgtgtca
AY820253_Ssci	aagg	ttataa	aaa	aatgccc	atc	gtcggta	aaa	aaggat	cgaaaa	actt	tacga	tataaa	acct	tcaaaa	taa	aacgga	tat	cgggtca
Y13052_Ssci	aagg	ttataa	aaa	aatgccc	atc	gtcggaa	aaa	aaggat	cgaaaa	actt	tacga	tataaa	acct	tcaaaa	taa	aacggg	tat	cgtgtca
AB547235_Ssci	aagg	ttataa	aaa	aatgccc	atc	gtcggta	aaa	aaggat	cgaaaa	actt	tacga	tataaa	acct	tcaaaa	taa	aacggg	tat	cgtgtca
S. sciuri 09-LEM-1/3	aagg	ttataa	aaa	aatgccc	atc	gtcggta	aaa	aaggat	cgaaaa	actt	tacga	tataaa	acct	tcaaaa	taa	aacgga	tacc	cggtca
Y09223_Ssci	aagg	ttataa	aaa	aatgccc	atc	gttggta	aaa	aaggat	cgaaaa	acta	tacga	tataaa	acct	tcaaaa	taa	aacgga	tacc	cgtgtca
Y13094_Ssci	aagg	ttataa	aaa	aatgccc	atc	gttggta	aaa	aaggat	cgaaaa	acta	tacga	tataaa	acct	tcaaaa	taa	aacgga	tacc	cgtgtca
AB547236_Ssci	aagg	ttataa	aaa	aatgccc	atc	gttggta	aaa	aaggat	cgaaaa	acta	tacga	tataaa	acct	tcaaaa	taa	aacgga	tacc	cgtgtca
FR821779_Saur_LGA251	gaa	actatag	caaaa	aatact	gtt	tattggaa	aaa	aaggctt	aga	acgctc	tat	gataaac	aatt	gcaaaa	cact	gatggt	ttta	aaggat
FR823292_Saur_M10	gaa	actatag	caaaa	aatact	gtt	tattggaa	aaa	aaggctt	aga	acgctc	tat	gataaac	aatt	gcaaaa	cact	gatggt	ttta	aaggat

**Supplemental Table 3:** Alignments of known *mecA* alleles, continued

	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....			
	905	915	925	935	945	955	965	975	985			
AB546267_Sfleur	caatc	ttt	---	gacgat	aatagcaata	caatcgcaca	tacattaata	gagaaaaaga	aaaagatgg	caaagatatt	caactaacta	
Y13095_Ssci	caatc	ggt	---	gacgat	aatagcaata	caatcgcaca	tacattaata	gagaaaaaga	aaaagatgg	caaagatatt	caactaacta	
AY786579_Saur	caatc	ggt	---	gacgat	aatagcaata	caatcgcaca	tacattaata	gagaaaaaga	aaaagatgg	caaagatatt	caactaacta	
ABSA01000066_Saur_epi	caatc	ggt	---	gacgat	aatagcaata	caatcgcaca	tacattaata	gagaaaaaga	aaaagatgg	caaagatatt	caactaacta	
GU235984_Saur	caatc	ggt	---	gacgat	aatagcaata	caatcgcaca	tacattaata	gagaaaaaga	aaaagatgg	caaagatatt	caactaacta	
EU929081_Spseudin	caatc	ggt	---	gacgat	aatagcaata	caatcgcaca	tacattaata	gagaaaaaga	aaaagatgg	caaagatatt	caactaacta	
GU370073_Saur_sap_vit_kloo.	caatc	ggt	---	gacgat	aatagcaata	caatcgcaca	tacattaata	gagaaaaaga	aaaagatgg	caaagatatt	caactaacta	
AB037671_Saur	caatc	ggt	---	gacgat	aatagcaata	caatcgcaca	tacattaata	gagaaaaaga	aaaagatgg	caaagatatt	caactaacta	
GU235983_Saur	caatc	ggt	---	gacgat	aatagcaata	caatcgcaca	tacattaata	gagaaaaaga	aaaagatgg	caaagatatt	caactaacta	
AB221119_Saur	caatc	ggt	---	gacgat	aatagcaata	caatcgcaca	tacattaata	gagaaaaaga	aaaagatgg	caaagatatt	caactaacta	
FN433596_TW20_Saur_ST239	caatc	ggt	---	gacgat	aatagcaata	caatcgcaca	tacattaata	gagaaaaaga	aaaagatgg	caaagatatt	caactaacta	
BA000018_N315_Saur	caatc	ggt	---	gacgat	aatagcaata	caatcgcaca	tacattaata	gagaaaaaga	aaaagatgg	caaagatatt	caactaacta	
GQ902038_Saur_haem_pseud	caatc	ggt	---	gacgat	aatagcaata	caatcgcaca	tacattaata	gagaaaaaga	aaaagatgg	caaagatatt	caactaacta	
EU929082_Spseudin	caatc	ggt	---	gacgat	aatagcaata	caatcgcaca	tacattaata	gagaaaaaga	aaaagatgg	caaagatatt	caactaacta	
AB546266_Sfleur	caatc	ggt	---	gacgat	aatagcaata	caatcgcaca	tacattaata	gagaaaaaga	aaaagatgg	caaagatatt	caactaacta	
AM048805_Scapi	caatc	ggt	---	gacgat	aatagcaata	caatcgcaca	tacattaata	gagaaaaaga	aaaagatgg	caaagatatt	caactaacta	
EU929079_Spseudin	caatc	ggt	---	gacgat	aatagcaata	caatcgcaca	tacattaata	gagaaaaaga	aaaagatgg	caaagatatt	caactaacta	
GU227428_Saur	caatc	ggt	---	gacgat	aatagcaata	caatcgcaca	tacattaata	gagaaaaaga	aaaagatgg	caaagatatt	caactaacta	
Y14051_Saur	caatc	ggt	---	gacgat	aatagcaata	caatcgcaca	tacattaata	gagaaaaaga	aaaagatgg	caaagatatt	caactaacta	
Y00688_Saur	caatc	gttag	agtcgacgat	aatagcaata	caatcgcaca	tacattaata	gagaaaaaga	aaaagatgg	caaagatatt	caactaacta		
EU929080_Spseudin	caatc	gttag	agtcgacgat	aatagcaata	caatcgcaca	tacattaata	gagaaaaaga	aaaagatgg	caaagatatt	caactaacta		
AM048807_Sklo_Scap	ctatc	atg	---	gacgat	aatagcaata	aagtcgcaca	tacattagta	gagaaaaaga	aaaagatgg	caaagatatt	caactgacta	
AM048808_Sklo_cap_vit	ctatc	atg	---	gacgat	aatagcaata	aagtcgcaca	tacattagta	gagaaaaaga	aaaagatgg	caaagatatt	caactgacta	
AB546780_Svit	ctatc	atg	---	gacgat	aatagcaata	aagtcgcaca	tacattagta	gagaaaaaga	aaaagatgg	caaagatatt	caactgacta	
AY820253_Ssci	caataa	t	---	tgat	aat	---aata	aagtattga	tacattaata	aagaaaaaga	aaaagatgg	caaagatatt	aaattaacca
Y13052_Ssci	caatt	att	---	gatgat	aat	---aata	aagttagata	tacattgatt	aagaaaaaga	aaaagatgg	caaagatatt	aaattaacca
AB547235_Ssci	caatt	att	---	gatgat	aat	---aata	aagttagata	tacattgatt	aagaaaaaga	aaaagatgg	caaagatatt	aaattaacca
S. sciuri 09-LEM-1/3	caatt	att	---	gatgat	aat	---aata	aagttagata	tacattgatt	aagaaaaaga	aaaagatgg	caaagatatt	aaattaacca
Y09223_Ssci	caataa	att	---	gatgat	aat	---aata	aagtattga	tacattaata	gagaaaaaga	aaatagacgg	caaagatatt	aaattaacca
Y13094_Ssci	caatt	att	---	gatgat	caa	---aata	aagttagata	tacattaatc	gagaaaaaga	aaaagacgg	taaagatatt	aaattaacca
AB547236_Ssci	caatt	att	---	gatgat	caa	---aata	aagttagata	tacattaatc	gagaaaaaga	aaaagacgg	taaagatatt	aaattaacca
FR821779_Saur_LGA251	ccatt	gca	---	aatact	tatgacaata	aacctttaga	cacattattg	gagaaaaagg	ctgaaaacgg	aaaagatctt	catttaacta	
FR823292_Saur_M10	ccatt	gca	---	aatact	tatgacaata	aacctttaga	cacattattg	gagaaaaagg	ctgaaaacgg	aaaagatctt	catttaacta	

**Supplemental Table 3:** Alignments of known *mecA* alleles, continued

	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....
	995	1005	1015	1025	1035	1045	1055	1065	1075
AB546267_Sfleur	ttgatgctaa	agttcaaaag	agtattttata	acaacatgaa	aaatgattat	ggctcaggta	ctgctattca	ccctcaaaca	ggtgaattgt
Y13095_Ssci	ttgatgctaa	agttcaaaag	agtattttata	acaacatgaa	aaatgattat	ggctcaggta	ctgctatcca	ccctcaaaca	ggtgaattat
AY786579_Saur	ttgatgctaa	agttcaaaag	agtattttata	acaacatgaa	aaatgattat	ggctcaggta	ctgctatcca	ccctcaaaca	ggtgaattat
ABSA01000066_Saur_epi	ttgatgctaa	agttcaaaag	agtattttata	acaacatgaa	aaatgattat	ggctcaggta	ctgctatcca	ccctcaaaca	ggtgaattat
GU235984_Saur	ttgatgctaa	agttcaaaag	agtattttata	acaacatgaa	aaatgattat	ggctcaggta	ctgctatcca	ccctcaaaca	ggtgaattat
EU929081_Spseudin	ttgatgctaa	agttcaaaag	agtattttata	acaacatgaa	aaatgattat	ggctcaggta	ctgctatcca	ccctcaaaca	ggtgaattat
GU370073_Saur_sap_vit_kloo.	ttgatgctaa	agttcaaaag	agtattttata	acaacatgaa	aaatgattat	ggctcaggta	ctgctatcca	ccctcaaaca	ggtgaattat
AB037671_Saur	ttgatgctaa	agttcaaaag	agtattttata	acaacatgaa	aaatgattat	ggctcaggta	ctgctatcca	ccctcaaaca	ggtgaattat
GU235983_Saur	ttgatgctaa	agttcaaaag	agtattttata	acaacatgaa	aaatgattat	ggctcaggta	ctgctatcca	ccctcaaaca	ggtgaattat
AB221119_Saur	ttgatgctaa	agttcaaaag	agtattttata	acaacatgaa	aaatgattat	ggctcaggta	ctgctatcca	ccctcaaaca	ggtgaattat
FN433596_TW20_Saur_ST239	ttgatgctaa	agttcaaaag	agtattttata	acaacatgaa	aaatgattat	ggctcaggta	ctgctatcca	ccctcaaaca	ggtgaattat
BA000018_N315_Saur	ttgatgctaa	agttcaaaag	agtattttata	acaacatgaa	aaatgattat	ggctcaggta	ctgctatcca	ccctcaaaca	ggtgaattat
GQ902038_Saur_haem_pseud	ttgatgctaa	agttcaaaag	agtattttata	acaacatgaa	aaatgattat	ggctcaggta	ctgctatcca	ccctcaaaca	ggtgaattat
EU929082_Spseudin	ttgatgctaa	agttcaaaag	agtattttata	acaacatgaa	aaatgattat	ggctcaggta	ctgctatcca	ccctcaaaca	ggtgaattat
AB546266_Sfleur	ttgatgctaa	agttcaaaag	agtattttata	acaacatgaa	aaatgattat	ggctcaggta	ctgctatcca	ccctcaaaca	ggtgaattat
AM048805_Scapi	ttgatgctaa	agttcaaaag	agtattttata	acaacatgaa	aaatgattat	ggctcaggta	ctgctatcca	ccctcaaaca	ggtgaattat
EU929079_Spseudin	ttgatgctaa	agttcaaaag	agtattttata	acaacatgaa	aaatgattat	ggctcaggta	ctgctatcca	ccctcaaaca	ggtgaattat
GU227428_Saur	ttgatgctaa	agttcaaaag	agtattttata	acaacatgaa	aaatgattat	ggctcaggta	ctgctatcca	ccctcaaaca	ggtgaattat
Y14051_Saur	ttgatgctaa	agttcaaaag	agtattttata	acaacatgaa	aaatgattat	ggctcaggta	ctgctatcca	ccctcaaaca	ggtgaattat
Y00688_Saur	ttgatgctaa	agttcaaaag	agtattttata	acaacatgaa	aaatgattat	ggctcaggta	ctgctatcca	ccctcaaaca	ggtgaattat
EU929080_Spseudin	ttgatgctaa	agttcaaaag	agtattttata	acaacatgaa	aaatgattat	ggctcaggta	ctgctatcca	ccctcaaaca	ggtgaattat
AM048807_Sklo_Scap	ttgatgctaa	cgttcaaaaa	agcattttata	acaacatgaa	aaatgattat	ggctcaggta	ctgctattca	cccacaaaaca	ggagaattgt
AM048808_Sklo_cap_vit	ttgatgctaa	cgttcaaaaa	agcattttata	acaacatgaa	aaatgattat	ggctcaggta	ctgctattca	cccacaaaaca	ggagaattgt
AB546780_Svit	ttgatgctaa	cgttcaaaaa	agcattttata	acaacatgaa	aaatgattat	ggctcaggta	ctgctattca	cccacaaaaca	ggagaattgt
AY820253_Ssci	tcgattctag	agttcaaaaa	agtattttata	acaacatgaa	agatgactac	ggttcaggta	cagctattca	tccacaaaaca	ggcgaactgt
Y13052_Ssci	ttgatgctag	agttcaaaaa	agtattttata	acaacatgaa	agatgactac	ggttcaggga	ctgctattca	tccacaaaaca	ggcgaattgt
AB547235_Ssci	ttgatgccag	agttcaaaaa	agtattttata	acaacatgaa	agatgactac	ggttcaggga	ctgctattca	tccacaaaaca	ggcgaattgt
S. sciuri 09-LEM-1/3	ttgatgctag	agtccaaaaa	agtattttata	acaacatgaa	agatgactac	ggttctggga	ctgctattca	tccacaaaaca	ggcgaattgt
Y09223_Ssci	ttgatgctag	agtccaaaaa	agtattttata	acaacatgaa	agatgactac	ggttcgggga	ctgctattca	tccacaaaact	ggtgaactct
Y13094_Ssci	ttgatgctag	agtccaaaaa	agtattttata	acaacatgaa	agatgactac	ggttcgggga	ctgctattca	tccaaaaaact	ggtgaactct
AB547236_Ssci	ttgatgctag	agtccaaaaa	agtattttata	acaacatgaa	agatgactac	ggttcgggga	ctgctattca	tccaaaaaact	ggtgaactct
FR821779_Saur_LGA251	tagatgctag	agtacaagaa	agtattttata	aacatatgaa	aaatgacgat	ggatctggta	cagcattaca	accaaaaaact	ggagaatttt
FR823292_Saur_M10	tagatgctag	agtacaagaa	agtattttata	aacatatgaa	aaatgacgat	ggatctggta	cagcattaca	accaaaaaact	ggagaatttt

**Supplemental Table 3:** Alignments of known *mecA* alleles, continued

	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....
	1085	1095	1105	1115	1125	1135	1145	1155	1165
AB546267_Sfleur	tagcactt	gtaagcacac	ctcatatgac	gtgtaccatt	tatgtatggc	atgagtaacg	aagaatataa	taaattaacc	gaagataaaa
Y13095_Ssci	tagcactt	gtaagcacac	ctcatatgac	tctatccatt	tatgtatggc	atgagtaacg	aagaatataa	taaattaacc	gaagataaaa
AY786579_Saur	tagcactt	gtaagcacac	ctcatatgac	tctatccatt	tatgtatggc	atgagtaacg	aagaatataa	taaattaacc	gaagataaaa
ABSA01000066_Saur_epi	tagcactt	gtaagcacac	ctcatatgac	tctatccatt	tatgtatggc	atgagtaacg	aagaatataa	taaattaacc	gaagataaaa
GU235984_Saur	tagcactt	gtaagcacac	ctcatatgac	tctatccatt	tatgtatggc	atgagtaacg	aagaatataa	taaattaacc	ggagataaaa
EU929081_Spseudin	tagcactt	gtaagcacac	ctcatatgac	tctatccatt	tatgtatggc	atgagtaacg	aagaatataa	taaattaacc	gaagataaaa
GU370073_Saur_sap_vit_kloo.	tagcactt	gtaagcacac	ctcatatgac	tctatccatt	tatgtatggc	atgagtaacg	aagaatataa	taaattaacc	gaagataaaa
AB037671_Saur	tagcactt	gtaagcacac	ctcatatgac	tctatccatt	tatgtatggc	atgagtaacg	aagaatataa	taaattaacc	gaagataaaa
GU235983_Saur	tagcactt	gtaagcacac	ctcatatgac	tctatccatt	tatgtatggc	atgagtaacg	aagaatataa	taaattaacc	gaagataaaa
AB221119_Saur	tagcactt	gtaagcacac	ctcatatgac	tctatccatt	tatgtatggc	atgagtaacg	aagaatataa	taaattaacc	gaagataaaa
FN433596_TW20_Saur_ST239	tagcactt	gtaagcacac	ctcatatgac	tctatccatt	tatgtatggc	atgagtaacg	aagaatataa	taaattaacc	gaagataaaa
BA000018_N315_Saur	tagcactt	gtaagcacac	ctcatatgac	tctatccatt	tatgtatggc	atgagtaacg	aagaatataa	taaattaacc	gaagataaaa
GQ902038_Saur_haem_pseud	tagcactt	gtaagcacac	ctcatatgac	tctatccatt	tatgtatggc	atgagtaacg	aagaatataa	taaattaacc	gaagataaaa
EU929082_Spseudin	tagcactt	gtaagcacac	ctcatatgac	tctatccatt	tatgtatggc	atgagtaacg	aagaatataa	taaattaacc	gaagataaaa
AB546266_Sfleur	tagcactt	gtaagcacac	ctcatatgac	tctatccatt	tatgtatggc	atgagtaacg	aagaatataa	taaattaacc	gaagataaaa
AM048805_Scapi	tagcactt	gtaagcacac	ctcatatgac	tctatccatt	tatgtatggc	atgagtaacg	aagaatataa	taaattaacc	gaagataaaa
EU929079_Spseudin	tagcactt	gtaagcacac	ctcatatgac	tctatccatt	tatgtatggc	atgagtaacg	aagaatataa	taaattaacc	gaagataaaa
GU227428_Saur	tagcactt	gtaagcacac	ctcatatgac	tctatccatt	tatgtatggc	atgagtaacg	aagaatataa	taaattaacc	gaagataaaa
Y14051_Saur	tagcactt	gtaagcacac	ctcatatgac	tctatccatt	tatgtatggc	atgagtaacg	aagaatataa	taaattaacc	gaagataaaa
Y00688_Saur	tagcactt	gtaagcacac	ctcatatgac	tctatccatt	tatgtatggc	atgagtaacg	aagaatataa	taaattaacc	gaagataaaa
EU929080_Spseudin	tagcactt	gtaagcacac	ctcatatgac	tctatccatt	tatgtatggc	atgagtaacg	aagaatataa	taaattaacc	gaagataaaa
AM048807_Sklo_Scap	tagcactt	gtaagcacgc	ctcatacgac	tatatccatt	tatgaatggg	atgagcgacg	aagcatataa	aaaattaacc	gaagataaaa
AM048808_Sklo_cap_vit	tagcactt	gtaagcacgc	ctcatacgac	tatatccatt	tatgaatggg	atgagcgacg	aagcatataa	aaaattaacc	gaagataaaa
AB546780_Svit	tagcactt	gtaagcacgc	ctcatacgac	tatatccatt	tatgaatggg	atgagcgacg	aagcatataa	aaaattaacc	gaagataaaa
AY820253_Ssci	tagcactt	gtagcacacca	tctttatgatg	tttatccatt	tatgaatgga	atgagtgatg	aagattataa	gaaattaacc	gaagatgata
Y13052_Ssci	tagcactt	gtagcacgcca	tctttatgatg	tttatccatt	tatgaacggg	atgagcgatg	aagattataa	gaaattaacc	gaagatgata
AB547235_Ssci	tagcactt	gtagcacgcca	tctttatgatg	tttatccatt	tatgaacggg	atgagcgatg	aagattataa	gaaattaacc	gaagatgata
S. sciuri 09-LEM-1/3	tagcactt	gtagcacacca	tctttatgatg	tttatccatt	tatgaatggg	atgagcgatg	aagattataa	gaaattaacc	gaagatgata
Y09223_Ssci	tagcactt	gtagcacgcca	tctttatgatg	tttatccatt	tatgaatgga	atgagcgatg	aagattataa	gaaattaacc	gaagatgata
Y13094_Ssci	tagcactt	gtagcacgcca	tctttatgatg	tttatccatt	tatgaatgga	atgagcgatg	aagattataa	gaaattaacc	gaagatgata
AB547236_Ssci	tagcactt	gtagcacgcca	tctttatgata	tttatccatt	tatgaatgga	atgagcgatg	aagattataa	gaaattaacc	gaagatgata
FR821779_Saur_LGA251	tagctttggg	aagtacccca	tcgtacgatg	tttatccatt	catgaatgga	ttaagcaata	atgactaccg	taaattaacc	aacaataaaa
FR823292_Saur_M10	tagctttggg	aagtacccca	tcgtacgatg	tttatccatt	catgaatgga	ttaagcaata	atgactaccg	taaattaacc	aacaataaaa

**Supplemental Table 3:** Alignments of known *mecA* alleles, continued

	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....
	1175	1185	1195	1205	1215	1225	1235	1245	1255	
AB546267_Sfleur	aagaaccact	gctcaacaag	ttccagatta	caacttcacc	aggttcaact	caaaaaatat	taacagcaat	gattgggtta	aataacaaaa	
Y13095_Ssci	aagaacctct	gctcaacaag	ttccagatta	caacttcacc	aggttcaact	caaaaaatat	taacagcaat	gattgggtta	aataacaaaa	
AY786579_Saur	aagaacctct	gctcaacaag	ttccagatta	caacttcacc	aggttcaact	caaaaaatat	taacagcaat	gattgggtta	aataacaaaa	
ABSA01000066_Saur_epi	aagaacctct	gctcaacaag	ttccagatta	caacttcacc	aggttcaact	caaaaaatat	taacagcaat	gattgggtta	aataacaaaa	
GU235984_Saur	aagaacctct	gctcaacaag	ttccagatta	caacttcacc	aggttcaact	caaaaaatat	taacagcaat	gattgggtta	aataacaaaa	
EU929081_Spseudin	aagaacctct	gctcaacaag	ttccagatta	caacttcacc	aggttcaact	caaaaaatat	taacagcaat	gattgggtta	aataacaaaa	
GU370073_Saur_sap_vit_kloo.	aagaacctct	gctcaacaag	ttccagatta	caacttcacc	aggttcaact	caaaaaatat	taacagcaat	gattgggtta	aataacaaaa	
AB037671_Saur	aagaacctct	gctcaacaag	ttccagatta	caacttcacc	aggttcaact	caaaaaatat	taacagcaat	gattgggtta	aataacaaaa	
GU235983_Saur	aagaacctct	gctcaacaag	ttccagatta	caacttcacc	aggttcaact	caaaaaatat	taacagcaat	gattgggtta	aataacaaaa	
AB221119_Saur	aagaacctct	gctcaacaag	ttccagatta	caacttcacc	aggttcaact	caaaaaatat	taacagcaat	gattgggtta	aataacaaaa	
FN433596_TW20_Saur_ST239	aagaacctct	gctcaacaag	ttccagatta	caacttcacc	aggttcaact	caaaaaatat	taacagcaat	gattgggtta	aataacaaaa	
BA000018_N315_Saur	aagaacctct	gctcaacaag	ttccagatta	caacttcacc	aggttcaact	caaaaaatat	taacagcaat	gattgggtta	aataacaaaa	
GQ902038_Saur_haem_pseud	aagaacctct	gctcaacaag	ttccagatta	caacttcacc	aggttcaact	caaaaaatat	taacagcaat	gattgggtta	aataacaaaa	
EU929082_Spseudin	aagaacctct	gctcaacaag	ttccagatta	caacttcacc	aggttcaact	caaaaaatat	taacagcaat	gattgggtta	aataacaaaa	
AB546266_Sfleur	aagaacctct	gctcaacaag	ttccagatta	caacttcacc	aggttcaact	caaaaaatat	taacagcaat	gattgggtta	aataacaaaa	
AM048805_Scapi	aagaacctct	gctcaacaag	ttccagatta	caacttcacc	aggttcaact	caaaaaatat	taacagcaat	gattgggtta	aataacaaaa	
EU929079_Spseudin	aagaacctct	gctcaacaag	ttccagatta	caacttcacc	aggttcaact	caaaaaatat	taacagcaat	gattgggtta	aataacaaaa	
GU227428_Saur	gggaacctct	gctcaacaag	ttccagatta	caatctcacc	aggttcaact	caaaaaatat	taacagcaat	gattgggtta	aataacaaaa	
Y14051_Saur	aagaacctct	gctcaacaag	ttccagatta	caacttcacc	aggttcaact	caaaaaatat	taacagcaat	gattgggtta	aataacaaaa	
Y00688_Saur	aagaacctct	gctcaacaag	ttccagatta	caacttcacc	aggttcaact	caaaaaatat	taacagcaat	gattgggtta	aataacaaaa	
EU929080_Spseudin	aagaacctct	gctcaacaag	ttccagatta	caacttcacc	aggttcaact	caaaaaatat	taacagcaat	gattgggtta	aataacaaaa	
AM048807_Sklo_Scap	aagaaccact	gctcaacaag	ttccagatca	caacttcacc	aggctcaact	caaaaaatat	taacagcaat	gattggatta	aataacaaaa	
AM048808_Sklo_cap_vit	aagaaccact	gctcaacaag	ttccagatca	caacttcacc	aggctcaact	caaaaaatat	taacagcaat	gattggatta	aataacaaaa	
AB546780_Svit	aagaaccact	gctcaacaag	ttccagatca	caacttcacc	aggctcaact	caaaaaatat	taacagcaat	gattggatta	aataacaaaa	
AY820253_Ssci	aagaaccact	tcttaataag	ttccaaatca	cgacatcacc	tggttcgact	caaaaaatat	taacagctat	gattggctta	aataataaga	
Y13052_Ssci	aagagccact	tcttaataag	ttccaaatca	cgacatcacc	aggtttctact	caaaaaatat	taacagctat	tattggctta	aataataaga	
AB547235_Ssci	aagagccact	tcttaataag	ttccaaatca	cgacatcacc	aggtttctact	caaaaaatat	taacagctat	gattggctta	aataataaga	
S. sciuri 09-LEM-1/3	aagagccact	tcttaataag	ttccaaatca	cgacatcacc	cggctcgact	caaaaaatat	taacagctat	gattcgatta	aataataaga	
Y09223_Ssci	aagagccact	cttaataag	ttccaaatta	cgacatcacc	aggtttcgact	caaaaaatat	taacagccat	gattggctta	aacaataaga	
Y13094_Ssci	aagagccact	cttaataag	ttccaaatta	cgacatcacc	gggttcgact	caaaaaatat	taacagccat	gattggctta	aacaataaga	
AB547236_Ssci	aagagccact	cttaataag	ttccaaatta	cgacatcacc	gggttcgact	caaaaaatat	taacagccat	gattggctta	aacaataaga	
FR821779_Saur_LGA251	aagagccttt	gctcaacaaa	tttcaaatca	ctacatcacc	aggttcaacc	caaaaaatat	taacatctat	tatagcctta	aaagaaaata	
FR823292_Saur_M10	aagagccttt	gctcaacaaa	tttcaaatca	ctacatcacc	aggttcaacc	caaaaaatat	taacatctat	tatagcctta	aaagaaaata	

**Supplemental Table 3:** Alignments of known *mecA* alleles, continued

	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....
	1265	1275	1285	1295	1305	1315	1325	1335	1345	
AB546267_Sfleur	cattagacga	taaaacaagt	tataaaatcg	atggtaaagg	ttggcaaaaa	gataaatcct	ggggtggtta	caacgttaca	agatatgaag	
Y13095_Ssci	cattagacga	taaaacaagt	tataaaatcg	atggtaaagg	ttggcaaaaa	gataaatcct	ggggtggtta	caacgttaca	agatatgaag	
AY786579_Saur	cattagacga	taaaacaagt	tataaaatcg	atggtaaagg	ttggcaaaaa	gataaatcct	ggggtggtta	caacgttaca	agatatgaag	
ABSA01000066_Saur_epi	cattagacga	taaaacaagt	tataaaatcg	atggtaaagg	ttggcaaaaa	gataaatcct	ggggtggtta	caacgttaca	agatatgaag	
GU235984_Saur	cattagacga	taaaacaagt	tataaaatcg	atggtaaagg	ttggcaaaaa	gataaatcct	ggggtggtta	caacgttaca	agatatgaag	
EU929081_Spseudin	cattagacga	taaaacaagt	tataaaatcg	atggtaaagg	ttggcaaaaa	gataaatcct	ggggtggtta	caacgttaca	agatatgaag	
GU370073_Saur_sap_vit_kloo.	cattagacga	taaaacaagt	tataaaatcg	atggtaaagg	ttggcaaaaa	gataaatcct	ggggtggtta	caacgttaca	agatatgaag	
AB037671_Saur	cattagacga	taaaacaagt	tataaaatcg	atggtaaagg	ttggcaaaaa	gataaatcct	ggggtggtta	caacgttaca	agatatgaag	
GU235983_Saur	cattagacga	taaaacaagt	tataaaatcg	atggtaaagg	ttggcaaaaa	gataaatcct	ggggtggtta	caacgttaca	agatatgaag	
AB221119_Saur	cattagacga	taaaacaagt	tataaaatcg	atggtaaagg	ttggcaaaaa	gataaatcct	ggggtggtta	caacgttaca	agatatgaag	
FN433596_TW20_Saur_ST239	cattagacga	taaaacaagt	tataaaatcg	atggtaaagg	ttggcaaaaa	gataaatcct	ggggtggtta	caacgttaca	agatatgaag	
BA000018_N315_Saur	cattagacga	taaaacaagt	tataaaatcg	atggtaaagg	ttggcaaaaa	gataaatcct	ggggtggtta	caacgttaca	agatatgaag	
GQ902038_Saur_haem_pseud	cattagacga	taaaacaagt	tataaaatcg	atggtaaagg	ttggcaaaaa	gataaatcct	ggggtggtta	caacgttaca	agatatgaag	
EU929082_Spseudin	cattagacga	taaaacaagt	tataaaatcg	atggtaaagg	ttggcaaaaa	gataaatcct	ggggtggtta	caacgttaca	agatatgaag	
AB546266_Sfleur	cattagacga	taaaacaagt	tataaaatcg	atggtaaagg	ttggcaaaaa	gataaatcct	ggggtggtta	caacgttaca	agatatgaag	
AM048805_Scapi	cattagacga	taaaacaagt	tataaaatcg	atggtaaagg	ttggcaaaaa	gataaatcct	ggggtggtta	caacgttaca	agatatgaag	
EU929079_Spseudin	cattagacga	taaaacaagt	tataaaatcg	atggtaaagg	ttggcaaaaa	gataaatcct	ggggtggtta	caacgttaca	agatatgaag	
GU227428_Saur	cattagacga	taaaacaagt	tataaaatcg	atggtaaagg	ttggcaaaaa	gataaatcct	ggggtggtta	caacgttaca	agatatgaag	
Y14051_Saur	cattagacga	taaaacaagt	tataaaatcg	atggtaaagg	ttggcaaaaa	gataaatcct	ggggtggtta	caacgttaca	agatatgaag	
Y00688_Saur	cattagacga	taaaacaagt	tataaaatcg	atggtaaagg	ttggcaaaaa	gataaatcct	ggggtggtta	caacgttaca	agatatgaag	
EU929080_Spseudin	cattagacga	taaaacaagt	tataaaatcg	atggtaaagg	ttggcaaaaa	gataaatcct	ggggtggtta	caacgttaca	agatatgaag	
AM048807_Sklo_Scap	cattagacga	tcaaacaaat	tataagatta	atggtaaagg	ctggcaaaaa	gataaatcct	ggggtgatta	taacgttaca	agatatgaag	
AM048808_Sklo_cap_vit	cattagacga	tcaaacaaat	tataagatta	atggtaaagg	ctggcaaaaa	gataaatcct	ggggtgatta	taacgttaca	agatatgaag	
AB546780_Svit	cattagacga	tcaaacaaat	tataagatta	atggtaaagg	ctggcaaaaa	gataaatcct	ggggtgatta	taacgttaca	agatatgaag	
AY820253_Ssci	ctttagacga	caaaacaagt	tataaaatta	acggaaaagg	atggcaaaaa	gataaatcct	ggggtgacta	caacgttaca	agatatgaag	
Y13052_Ssci	cgtttagacga	caaaacaagt	tataaaatta	acggaaaagg	ctggcaaaaag	gataaatcct	ggggtgatta	caacgtcaca	agatatgaag	
AB547235_Ssci	cgtttagacga	caaaacaagt	tataaaatta	acggaaaagg	ctggcaaaaa	gataaatcct	ggggtgatta	caacgtcaca	agatatgaag	
S. sciuri 09-LEM-1/3	cttttagacga	caaaacaagt	tataaaatta	acggaaaagg	ctggcaaaaa	gataaatcct	ggggtgatta	caacgtcaca	agatatgaag	
Y09223_Ssci	cattagacgg	caaaacaagt	tataaaatta	atggaaaagg	ttggcaaaaa	gataaatcct	ggggtgacta	caacgttaca	agatacgaag	
Y13094_Ssci	cattagacgg	caaaacaagt	tataaaatta	atggaaaagg	ttggcaaaaa	gataaatcct	ggggtgacta	caacgttaca	agatatgagg	
AB547236_Ssci	cattagacgg	caaaacaagt	tataaaatta	atggaaaagg	ttggcaaaaa	gataaatcct	ggggtggcta	caacgttaca	agatatgagg	
FR821779_Saur_LGA251	aactagacaa	aaataccta	tttgatattt	atggtaaagg	ttggcaaaaa	gatgcatcat	gggggaatta	taatatcaca	agatttaaag	
FR823292_Saur_M10	aactagacaa	aaataccta	tttgatattt	atggtaaagg	ttggcaaaaa	gatgcatcat	ggggttaatta	taatatcaca	agatttaaag	



**Supplemental Table 3:** Alignments of known *mecA* alleles, continued

	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....
	1355	1365	1375	1385	1395	1405	1415	1425	1435
AB546267_Sfleur	tggtaaatgg	taatatcgac	ttaaaacaag	caatagaatc	atcagataac	atcttccttg	ctagagtagc	actcgaatta	ggcagtaaga
Y13095_Ssci	tggtaaatgg	taatatcgac	ttaaaacaag	caatagaatc	atcagataac	atcttccttg	ctagagtagc	actcgaatta	ggcagtaaga
AY786579_Saur	tggtaaatgg	taatatcgac	ttaaaacaag	caatagaatc	atcagataac	atcttccttg	ctagagtagc	actcgaatta	ggcagtaaga
ABSA01000066_Saur_epi	tggtaaatgg	taatatcgac	ttaaaacaag	caatagaatc	atcagataac	atcttccttg	ctagagtagc	actcgaatta	ggcagtaaga
GU235984_Saur	tggtaaatgg	taatatcgac	ttaaaacaag	caatagaatc	atcagataac	atcttccttg	ctagagtagc	actcgaatta	ggcagtaaga
EU929081_Spseudin	tggtaaatgg	taatatcgac	ttaaaacaag	caatagaatc	atcagataac	atcttccttg	ctagagtagc	actcgaatta	ggcagtaaga
GU370073_Saur_sap_vit_kloo.	tggtaaatgg	taatatcgac	ttaaaacaag	caatagaatc	atcagataac	atcttccttg	ctagagtagc	actcgaatta	ggcagtaaga
AB037671_Saur	tggtaaatgg	taatatcgac	ttaaaacaag	caatagaatc	atcagataac	atcttccttg	ctagagtagc	actcgaatta	ggcagtaaga
GU235983_Saur	tggtaaatgg	taatatcgac	ttaaaacaag	caatagaatc	atcagataac	atcttccttg	ctagagtagc	actcgaatta	ggcagtaaga
AB221119_Saur	tggtaaatgg	taatatcgac	ttaaaacaag	caatagaatc	atcagataac	atcttccttg	ctagagtagc	actcgaatta	ggcagtaaga
FN433596_TW20_Saur_ST239	tggtaaatgg	taatatcgac	ttaaaacaag	caatagaatc	atcagataac	atcttccttg	ctagagtagc	actcgaatta	ggcagtaaga
BA000018_N315_Saur	tggtaaatgg	taatatcgac	ttaaaacaag	caatagaatc	atcagataac	atcttccttg	ctagagtagc	actcgaatta	ggcagtaaga
GQ902038_Saur_haem_pseud	tggtaaatgg	taatatcgac	ttaaaacaag	caatagaatc	atcagataac	atcttccttg	ctagagtagc	actcgaatta	ggcagtaaga
EU929082_Spseudin	tggtaaatgg	taatatcgac	ttaaaacaag	caatagaatc	atcagataac	atcttccttg	ctagagtagc	actcgaatta	ggcagtaaga
AB546266_Sfleur	tggtaaatgg	taatatcgac	ttaaaacaag	caatagaatc	atcagataac	atcttccttg	ctagagtagc	actcgaatta	ggcagtaaga
AM048805_Scapi	tggtaaatgg	taatatcgac	ttaaaacaag	caatagaatc	atcagataac	atcttccttg	ctagagtagc	actcgaatta	ggcagtaaga
EU929079_Spseudin	tggtaaatgg	taatatcgac	ttaaaacaag	caatagaatc	atcagataac	atcttccttg	ctagagtagc	actcgaatta	ggcagtaaga
GU227428_Saur	tggtaaatgg	taatatcgac	ttaaaacaag	caatagaatc	atcagataac	atcttccttg	ctagagtagc	actcgaatta	ggcagtaaga
Y14051_Saur	tggtaaatgg	taatatcgac	ttaaaacaag	caatagaatc	atcagataac	atcttccttg	ctagagtagc	actcgaatta	ggcagtaaga
Y00688_Saur	tggtaaatgg	taatatcgac	ttaaaacaag	caatagaatc	atcagataac	atcttccttg	ctagagtagc	actcgaatta	ggcagtaaga
EU929080_Spseudin	tggtaaatgg	taatatcgac	ttaaaacaag	caatagaatc	atcagataac	atcttccttg	ctagagtagc	actcgaatta	ggcagtaaga
AM048807_Sklo_Scap	tggtaaatgg	taatatcgac	ttaaaacaag	caatagaatc	atcagataac	atcttccttg	ctagagtagc	actcgaatta	ggaagtaagc
AM048808_Sklo_cap_vit	tggtaaatgg	taatatcgac	ttaaaacaag	caatagaatc	atcagataac	atcttccttg	ctagagtagc	actcgaatta	ggaagtaagc
AB546780_Svit	tggtaaatgg	taatatcgac	ttaaaacaag	caatagaatc	atcagataac	atcttccttg	ctagagtagc	actcgaatta	ggaagtaagc
AY820253_Ssci	ttgttaaatgg	tgatatcgat	ttaaaacaag	ctattgaatc	atcagataat	atcttccttg	cgagagttgc	acttgaatta	ggaagcaaaa
Y13052_Ssci	ttgttaaatgg	tgatatcgac	ttaaaacaag	ctattgaatc	atcggataat	atcttccttg	cgagagttgc	acttgaatta	ggaagtaaaa
AB547235_Ssci	ttgttaaatgg	tgatatcgac	ttaaaacaag	ctattgaatc	atcggataat	atcttccttg	cgagagttgc	acttgaatta	ggaagtaaaa
S. sciuri 09-LEM-1/3	ttgataaatgg	cgatatcgac	ttaaaacaag	ctattgaatc	atcagataat	atcttccttg	cgagagttgc	acttgaatta	ggaagtaaaa
Y09223_Ssci	ttgtgaatgc	cgatatcgac	ttaaaacaag	ctattgaatc	atcagataat	atcttccttg	cgagagttgc	acttgaatta	ggcagcaaaa
Y13094_Ssci	tcgtgaatgg	cgatattgac	ttaaaacaag	ctattgaatc	atcagataat	atcttccttg	cgagagttgc	acttgaatta	ggcagcaaaa
AB547236_Ssci	tcgtgaatgg	cgatattgac	ttaaaacaag	ctattgaatc	atcagataat	atcttccttg	cgagagttgc	acttgaatta	ggcagcaaaa
FR821779_Saur_LGA251	tagtagacgg	caatatcgat	ttaaagcaag	caatagaatc	atcagacaac	atattttttg	cccgcattgc	attagcatta	ggagccaaaa
FR823292_Saur_M10	tagtagacgg	caatatcgat	ttaaagcaag	caatagaatc	atcagacaac	atattttttg	cccgcattgc	attagcatta	ggagccaaaa

**Supplemental Table 3:** Alignments of known *mecA* alleles, continued

	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....
	1445	1455	1465	1475	1485	1495	1505	1515	1525
AB546267_Sfleur	agtttgaaaa	aggcatgaaa	aaactagggtg	ttggtgaaga	tataccaagt	gattatccat	tttataatgc	tcaaatttca	aacaaaaatt
Y13095_Ssci	aatttgaaaa	aggcatgaaa	aaactagggtg	ttggtgaaga	tataccaagt	gattatccat	tttataatgc	tcaaatttca	aacaaaaatt
AY786579_Saur	aatttgaaaa	aggcataaaa	aaactagggtg	ttggtgaaga	tataccaagt	gattatccat	tttataatgc	tcaaatttca	aacaaaaatt
ABSA01000066_Saur_epi	aatttgaaaa	aggcatgaaa	aaactagggtg	ttggtgaaga	tataccaagt	gattatccat	tttataatgc	tcaaatttca	aacaaaaatt
GU235984_Saur	aatttgaaaa	aggcatgaaa	aaactagggtg	ttggtgaaga	tataccaagt	gattatccat	tttataatgc	tcaaatttca	aacaaaaatt
EU929081_Spseudin	aatttgaaaa	aggcatgaaa	aaactagggtg	ttggtgaaga	tataccaagt	gattatccat	tttataatgc	tcaaatttca	aacaaaaatt
GU370073_Saur_sap_vit_kloo.	aatttgaaaa	aggcatgaaa	aaactagggtg	ttggtgaaga	tataccaagt	gattatccat	tttataatgc	tcaaatttca	aacaaaaatt
AB037671_Saur	aatttgaaaa	aggcatgaaa	aaactagggtg	ttggtgaaga	tataccaagt	gattatccat	tttataatgc	tcaaatttca	aacaaaaatt
GU235983_Saur	aatttgaaaa	aggcatgaaa	aaactagggtg	ttggtgaaga	tataccaagt	gattatccat	tttataatgc	tcaaatttca	aacaaaaatt
AB221119_Saur	aatttgaaaa	aggcatgaaa	aaactagggtg	ttggtgaaga	tataccaagt	gattatccat	tttataatgc	tcaaatttca	aacaaaaatt
FN433596_TW20_Saur_ST239	aatttgaaaa	aggcatgaaa	aaactagggtg	ttggtgaaga	tataccaagt	gattatccat	tttataatgc	tcaaatttca	aacaaaaatt
BA000018_N315_Saur	aatttgaaaa	aggcatgaaa	aaactagggtg	ttggtgaaga	tataccaagt	gattatccat	tttataatgc	tcaaatttca	aacaaaaatt
GQ902038_Saur_haem_pseud	aatttgaaaa	aggcatgaaa	aaactagggtg	ttggtgaaga	tataccaagt	gattatccat	tttataatgc	tcaaatttca	aacaaaaatt
EU929082_Spseudin	aatttgaaaa	aggcatgaaa	aaactagggtg	ttggtgaaga	tataccaagt	gattatccat	tttataatgc	tcaaatttca	aacaaaaatt
AB546266_Sfleur	aatttgaaaa	aggcatgaaa	aaactagggtg	ttggtgaaga	tataccaagt	gattatccat	tttataatgc	tcaaatttca	aacaaaaatt
AM048805_Scapi	aatttgaaaa	aggcatgaaa	aaactagggtg	ttggtgaaga	tataccaagt	gattatccat	tttataatgc	tcaaatttca	aacaaaaatt
EU929079_Spseudin	aatttgaaaa	aggcatgaaa	aaactagggtg	ttagtgaaga	tataccaagt	gattatccat	tttataatgc	tcaaatttca	aacaaaaatt
GU227428_Saur	aatttgaaaa	aggcatgaaa	aaactagggtg	ttggtgaaga	tataccaagt	gattatccat	tttataatgc	tcaaatttca	aacaaaaatt
Y14051_Saur	aatttgaaaa	aggcatgaaa	aaactagggtg	ttggtgaaga	tataccaagt	gattatccat	tttataatgc	tcaaatttca	aacaaaaatt
Y00688_Saur	aatttgaaaa	aggcatgaaa	aaactagggtg	ttggtgaaga	tataccaagt	gattatccat	tttataatgc	tcaaatttca	aacaaaaatt
EU929080_Spseudin	aatttgaaaa	aggcatgaaa	aaactagggtg	ttggtgaaga	tataccaagt	gattatccat	tttataatgc	tcaaatttca	aacaaaaatt
AM048807_Sklo_Scap	aatttgaaaa	aggcatgaaa	aaactagggtg	ttggtgaaga	cataccaagt	gattacccat	tctataatgc	acaatttca	aacaagatt
AM048808_Sklo_cap_vit	aatttgaaaa	aggcatgaaa	aaactagggtg	ttggtgaaga	cataccaagt	gattacccat	tctataatgc	acaatttca	aacaagatt
AB546780_Svit	aatttgaaaa	aggcatgaaa	aaactagggtg	ttggtgaaga	cataccaagt	gattacccat	tctataatgc	acaatttca	aacaagatt
AY820253_Ssci	aattcgaaaga	aggtatgaaa	cgcttaggcg	ttggtgaaga	tatcccaggt	gattatccat	tctataatgc	acaatttca	aataagaact
Y13052_Ssci	aattcgaaaga	aggtatgaaa	cgcttaggtg	ttggtgaaga	tatcccaggt	tattatccat	tctataatgc	acaatttca	aataagaact
AB547235_Ssci	aattcgaaaga	aggtatgaaa	cgcttaggtg	ttggtgaaga	tatcccaggt	gattatccat	tctataatgc	acaatttca	aataagaact
S. sciuri 09-LEM-1/3	aattcgaaaga	aggtatgaaa	cgcctaggta	ttggtgaaga	tattccaggt	gattatccat	tctacaatgc	acaatttca	aataagaact
Y09223_Ssci	aattcgaaaga	aggaaatgaaa	cgcccttggtg	ttggtgaaga	tatcccaggt	gattatccat	tctacaatgc	acaatttca	aataagaact
Y13094_Ssci	aattcgaaaga	aggaaatgaaa	cgcccttggtg	ttggtgaaga	tatcccaggt	gattatccat	tctacaatgc	acaatttca	aataagaact
AB547236_Ssci	aattcgaaaga	aggaaatgaaa	cgcccttggtg	ttggtaaaga	tatcccaggt	gattatccat	tctacaatgc	acaatttca	aataagaact
FR821779_Saur_LGA251	aatttgagca	aggtatgcaa	gatttgggaa	tcggtgaaaa	tatcccaggt	gattatccct	tttataaagc	acaatctca	aatagtaatt
FR823292_Saur_M10	aatttgagca	aggtatgcaa	gatttgggaa	tcggtgaaaa	tatcccaggt	gattatccct	tttataaagc	acaatctca	aatagtaatt

**Supplemental Table 3:** Alignments of known *mecA* alleles, continued

	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....
	1535	1545	1555	1565	1575	1585	1595	1605	1615	
AB546267_Sfleur	tagataatga	aatattatta	gctgattcag	gttacggaca	aggTgaaata	ctgattaacc	cagtacagat	cctttcaatc	tatagcgc	at
Y13095_Ssci	tagataatga	aatattatta	gctgattcag	gttacggaca	aggTgaaata	ctgattaacc	cagtacagat	cctttcaatc	tatagcgc	at
AY786579_Saur	tagataatga	aatattatta	gctgattcag	gttacggaca	aggTgaaata	ctgattaacc	cagtacagat	cctttcaatc	tatagcgc	at
ABSA01000066_Saur_epi	tagataatga	aatattatta	gctgattcag	gttacggaca	aggTgaaata	ctgattaacc	cagtacagat	cctttcaatc	tatagcgc	at
GU235984_Saur	tagataatga	aatattatta	gctgattcag	gttacggaca	aggTgaaata	ctgattaacc	cagtacagat	cctttcaatc	tatagcgc	at
EU929081_Spseudin	tagataatga	aatattatta	gctgattcag	gttacggaca	aggTgaaata	ctgattaacc	cagtacagat	cctttcaatc	tatagcgc	at
GU370073_Saur_sap_vit_kloo.	tagataatga	aatattatta	gctgattcag	gttacggaca	aggTgaaata	ctgattaacc	cagtacagat	cctttcaatc	tatagcgc	at
AB037671_Saur	tagataatga	aatattatta	gctgattcag	gttacggaca	aggTgaaata	ctgattaacc	cagtacagat	cctttcaatc	tatagcgc	at
GU235983_Saur	tagataatga	aatattatta	gctgattcag	gttacggaca	aggTgaaata	ctgattaacc	cagtacagat	cctttcaatc	tatagcgc	at
AB221119_Saur	tagataatga	aatattatta	gctgattcag	gttacggaca	aggTgaaata	ctgattaacc	cagtacagat	cctttcaatc	tatagcgc	at
FN433596_TW20_Saur_ST239	tagataatga	aatattatta	gctgattcag	gttacggaca	aggTgaaata	ctgattaacc	cagtacagat	cctttcaatc	tatagcgc	at
BA000018_N315_Saur	tagataatga	aatattatta	gctgattcag	gttacggaca	aggTgaaata	ctgattaacc	cagtacagat	cctttcaatc	tatagcgc	at
GQ902038_Saur_haem_pseud	tagataatga	aatattatta	gctgattcag	gttacggaca	aggTgaaata	ctgattaacc	cagtacagat	cctttcaatc	tatagcgc	at
EU929082_Spseudin	tagataatga	aatattatta	gctgattcag	gttacggaca	aggTgaaata	ctgattaacc	cagtacagat	cctttcaatc	tatagcgc	at
AB546266_Sfleur	tagataatga	aatattatta	gctgattcag	gttacggaca	aggTgaaata	ctgattaacc	cagtacagat	cctttcaatc	tatagcgc	at
AM048805_Scapi	tagataatga	aatattatta	gctgattcag	gttacggaca	aggTgaaata	ctgattaacc	cagtacagat	cctttcaatc	tatagcgc	at
EU929079_Spseudin	tagataatga	aatattatta	gctgattcag	gttacggaca	aggTgaaata	ctgattaacc	cagtacagat	cctttcaatc	tatagcgc	at
GU227428_Saur	tagataatga	aatattatta	gctgattcag	gttacggaca	aggTgaaata	atgattaacc	cagtacagat	cctttcaatc	tatagcgc	at
Y14051_Saur	tagataatga	aatattatta	gctgattcag	gttacggaca	aggTgaaata	ctgattaacc	cagtacagat	cctttcaatc	tatagcgc	at
Y00688_Saur	tagataatga	aatattatta	gctgattcag	gttacggaca	aggTgaaata	ctgattaacc	cagtacagat	cctttcaatc	tatagcgc	at
EU929080_Spseudin	tagataatga	aatattatta	gctgattcag	gttacggaca	aggTgaaata	ctgattaacc	cagtacagat	cctttcaatc	tatagcgc	at
AM048807_Sklo_Scap	tagataatga	aatattgtta	gcagattcag	gttacggaca	aggTgaaata	ctgattaacc	cagtacaaat	cctttcaatc	tatagcgc	at
AM048808_Sklo_cap_vit	tagataatga	aatattgtta	gcagattcag	gttacggaca	aggTgaaata	ctgattaacc	cagtacaaat	cctttcaatc	tatagcgc	at
AB546780_Svit	tagataatga	aatattgtta	gcagattcag	gttacggaca	aggTgaaata	ctgattaacc	cagtacaaat	cctttcaatc	tatagcgc	at
AY820253_Ssci	tagataatga	aatattgtta	gctgactcag	gttatggaca	aggcGaaata	ttgattaatc	ctgttcaaat	tctttcaata	tatagcgc	at
Y13052_Ssci	tagataatga	aatattgtta	gctgactcag	gttatggcca	aggTgaaata	ttgattaatc	cagttcaaat	tctttcaata	tacagtgc	at
AB547235_Ssci	tagataatga	aatattgtta	gctgactcag	gttatggcca	aggTgaaata	ttgattaatc	cagttcaaat	tctttcaata	tacagtgc	at
S. sciuri 09-LEM-1/3	tagataatga	aatattgtta	gctgactcag	gttatggaca	aggTgaaata	ttgattaatc	cagttcaaat	tctttcaata	tacagtgc	at
Y09223_Ssci	tagataatga	aatattgtta	gctgactcag	gttatggcca	aggTgaaata	ttaatcaatc	ctgttcaaat	tctttcaata	tacagcgc	at
Y13094_Ssci	tagataatga	aatattgtta	gctgactcag	gttatggcca	aggTgaaata	ttaatcaatc	ctgttcaaat	tctttcaata	tacagcgc	at
AB547236_Ssci	tagataatga	aatattgtta	gctgactcag	gttatggcca	aggTgaaata	ttaatcaatc	ctgttcaaat	tctttcaata	tacagcgc	at
FR821779_Saur_LGA251	taaaaaatga	aatattatta	gcagattcag	gatatggcca	aggcgagata	ctagtaaacc	ctatacaaat	tttatcaata	tacagtgc	tt
FR823292_Saur_M10	taaaaaatga	aatattatta	gcagattcag	gatatggcca	aggcgagata	ctagtaaacc	ctatacaaat	tttatcaata	tacagtgc	tt

**Supplemental Table 3:** Alignments of known *mecA* alleles, continued

	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....
	1625	1635	1645	1655	1665	1675	1685	1695	1705
AB546267_Sfleur	tagaaaacaa	tggcaatatic	aatgcacctc	acttattaaa	agacacgaaa	aacaaagt	ggaagaaaaa	tattatttcc	aaagaaaata
Y13095_Ssci	tagaaaataa	tggcaatatt	aacgcacctc	acttattaaa	agacacgaaa	aacaaagt	ggaagaaaaa	tattatttcc	aaagaaaata
AY786579_Saur	tagaaaataa	tggcaatatt	aacgcacctc	acttattaaa	agacacgaaa	aacaaagt	ggaagaaaaa	tattatttcc	aaagaaaata
ABSA01000066_Saur_epi	tagaaaataa	tggcaatatt	aacgcacctc	acttattaaa	agacacgaaa	aacaaagt	ggaagaaaaa	tattatttcc	aaagaaaata
GU235984_Saur	tagaaaataa	tggcaatatt	aacgcacctc	acttattaaa	agacacgaaa	aacaaagt	ggaagaaaaa	tattatttcc	aaagaaaata
EU929081_Spseudin	tagaaaataa	tggcaatatt	aacgcacctc	acttattaaa	agacacgaaa	aacaaagt	ggaagaaaaa	tattatttcc	aaagaaaata
GU370073_Saur_sap_vit_kloo.	tagaaaataa	tggcaatatt	aacgcacctc	acttattaaa	agacacgaaa	aacaaagt	ggaagaaaaa	tattatttcc	aaagaaaata
AB037671_Saur	tagaaaataa	tggcaatatt	aacgcacctc	acttattaaa	agacacgaaa	aacaaagt	ggaagaaaaa	tattatttcc	aaagaaaata
GU235983_Saur	tagaaaataa	tggcaatatt	aacgcacctc	acttattaaa	agacacgaaa	aacaaagt	ggaagaaaaa	tattatttcc	aaagaaaata
AB221119_Saur	tagaaaataa	tggcaatatt	aacgcacctc	acttattaaa	agacacgaaa	aacaaagt	ggaagaaaaa	tattatttcc	aaagaaaata
FN433596_TW20_Saur_ST239	tagaaaataa	tggcaatatt	aacgcacctc	acttattaaa	agacacgaaa	aacaaagt	ggaagaaaaa	tattatttcc	aaagaaaata
BA000018_N315_Saur	tagaaaataa	tggcaatatt	aacgcacctc	acttattaaa	agacacgaaa	aacaaagt	ggaagaaaaa	tattatttcc	aaagaaaata
GQ902038_Saur_haem_pseud	tagaaaataa	tggcaatatt	aacgcacctc	acttattaaa	agacacgaaa	aacaaagt	ggaagaaaaa	tattatttcc	aaagaaaata
EU929082_Spseudin	tagaaaataa	tggcaatatt	aacgcacctc	acttattaaa	agacacgaaa	aacaaagt	ggaagaaaaa	tattatttcc	aaagaaaata
AB546266_Sfleur	tagaaaataa	tggcaatatt	aacgcacctc	acttattaaa	agacacgaaa	aacaaagt	ggaagaaaaa	tattatttcc	aaagaaaata
AM048805_Scapi	tagaaaataa	tggcaatatt	aacgcacctc	acttattaaa	agacacgaaa	aacaaagt	ggaagaaaaa	tattatttcc	aaagaaaata
EU929079_Spseudin	tagaaaataa	tggcaatatt	aacgcacctc	acttattaaa	agacacgaaa	aacaaagt	ggaagaaaaa	tattatttcc	aaagaaaata
GU227428_Saur	tagaaaataa	tggcaatatt	aacgcacctc	acttattaaa	agacacgaaa	aacaaagt	ggaagaaaaa	tattatttcc	aaagaaaata
Y14051_Saur	tagaaaataa	tggcaatatt	aacgcacctc	acttattaaa	agacacgaaa	aacaaagt	ggaagaaaaa	tattatttcc	aaagaaaata
Y00688_Saur	tagaaaataa	tggcaatatt	aacgcacctc	acttattaaa	agacacgaaa	aacaaagt	ggaagaaaaa	tattatttcc	aaagaaaata
EU929080_Spseudin	tagaaaataa	tggcaatatt	aacgcacctc	acttattaaa	agacacgaaa	aacaaagt	ggaagaaaaa	tattatttcc	aaagaaaata
AM048807_Sklo_Scap	tagaaaataa	cggcaatatt	agcgcaccac	acgtattaaa	agacacgaaa	aacaaat	ggaagaaaaa	tattatttcc	gaggaaaata
AM048808_Sklo_cap_vit	tagaaaataa	cggcaatatt	agcgcaccac	acgtattaaa	agacacgaaa	aacaaagt	ggaagaaaaa	tattatttcc	gaggaaaata
AB546780_Svit	tagaaaataa	cggcaatatt	aacgcaccac	acgtattaaa	agacacgaaa	aacaaagt	ggaagaaaaa	tattatttcc	gcggaaaata
AY820253_Ssci	tagagaataa	aggtaatgta	aatgcaccac	atgtactcaa	agatacga	aataaagt	ggaagaagaa	catcatttcc	caggaaaata
Y13052_Ssci	tagagaataa	aggtaatgtg	aatgcaccac	atgtactgaa	agatacga	aataaagt	ggaagaagaa	tatcatttcc	caggaaaata
AB547235_Ssci	tagagaataa	aggtaatgtg	aatgcaccac	atgtactgaa	agatacga	aataaagt	ggaagaagaa	tatcatttcc	caggaaaata
S. sciuri 09-LEM-1/3	tagagaataa	aggtaatgtg	aatgcaccac	atgtactgaa	agatacga	aataaagt	ggaagaagaa	catcatttcc	caggaaaata
Y09223_Ssci	tagagaacaa	aggtaatgtg	aatgcaccac	atgtactcaa	agatacga	aataaagt	ggaagaagaa	catcatttcc	caggaaaata
Y13094_Ssci	tagagaacaa	aggtaatgtg	aatgcaccac	atgtactgaa	agatacga	aataaagt	ggaagaagaa	catcatttcc	caggaaaata
AB547236_Ssci	tagagaacaa	aggtaatgtg	aatgcaccac	atgtactgaa	agatacga	aataaagt	ggaagaagaa	catcatttcc	caggaaaata
FR821779_Saur_LGA251	tagaaaataa	cggaaatata	caaaatcctc	atgttttacg	taaaacaaa	tctcaaat	ggaaaaaaga	tatttacct	aaaaagaca
FR823292_Saur_M10	tagaaaataa	cggaaatata	caaaatcctc	atgttttacg	taaaacaaa	tctcaaat	ggaaaaaaga	tatttacct	aaaaagaca

**Supplemental Table 3:** Alignments of known *mecA* alleles, continued

	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....
	1715	1725	1735	1745	1755	1765	1775	1785	1795
AB546267_Sfleur	tcaatctatt	aactgatggt	atgcaacaag	tcgtaaataa	aacacataaa	gaagatattt	atagacctta	cgcaaacctta	attggcaaat
Y13095_Ssci	tcaatctatt	aactgatggt	atgcaacaag	tcgttaataa	aacacataaa	gaagatattt	atagatctta	tgccaactta	attggcaaat
AY786579_Saur	tcaatctatt	aactgatggt	atgcaacaag	tcgtaaataa	aacacataaa	gaagatattt	atagatctta	tgcaaacctta	attggcaaat
ABSA01000066_Saur_epi	tcaatctatt	aactgatggt	atgcaacaag	tcgtaaataa	aacacataaa	gaagatattt	atagatctta	tgcaaacctta	attggcaaat
GU235984_Saur	tcaatctatt	aactgatggt	atgcaacaag	tcgtaaataa	aacacataaa	gaagatattt	atagatctta	tgcaaacctta	attggcaaat
EU929081_Spseudin	tcaatctatt	aactgatggt	atgcaacaag	tcgtaaataa	aacacataaa	gaagatattt	atagatctta	tgcaaacctta	attggcaaat
GU370073_Saur_sap_vit_kloo.	tcaatctatt	aactgatggt	atgcaacaag	tcgtaaataa	aacacataaa	gaagatattt	atagatctta	tgcaaacctta	attggcaaat
AB037671_Saur	tcaatctatt	aactgatggt	atgcaacaag	tcgtaaataa	aacacataaa	gaagatattt	atagatctta	tgcaaacctta	attggcaaat
GU235983_Saur	tcaatctatt	aactgatggt	atgcaacaag	tcgtaaataa	aacacataaa	gaagatattt	atagatctta	tgcaaacctta	attggcaaat
AB221119_Saur	tcaatctatt	aactgatggt	atgcaacaag	tcgtaaataa	aacacataaa	gaagatattt	atagatctta	tgcaaacctta	attggcaaat
FN433596_TW20_Saur_ST239	tcaatctatt	aactgatggt	atgcaacaag	tcgtaaataa	aacacataaa	gaagatattt	atagatctta	tgcaaacctta	attggcaaat
BA000018_N315_Saur	tcaatctatt	aactgatggt	atgcaacaag	tcgtaaataa	aacacataaa	gaagatattt	atagatctta	tgcaaacctta	attggcaaat
GQ902038_Saur_haem_pseud	tcaatctatt	aactgatggt	atgcaacaag	tcgtaaataa	aacacataaa	gaagatattt	atagatctta	tgcaaacctta	attggcaaat
EU929082_Spseudin	tcaatctatt	aactgatggt	atgcaacaag	tcgtaaataa	aacacataaa	gaagatattt	atagatctta	tgcaaacctta	attggcaaat
AB546266_Sfleur	tcaatctatt	aactgatggt	atgcaacaag	tcgtaaataa	aacacataaa	gaagatattt	atagatctta	tgcaaacctta	attggcaaat
AM048805_Scapi	tcaatctatt	aactgatggt	atgcaacaag	tcgtaaataa	aacacataaa	gaagatattt	atagatctta	tgcaaacctta	attggcaaat
EU929079_Spseudin	tcaatctatt	aactgatggt	atgcaacaag	tcgtaaataa	aacacataaa	gaagatattt	atagatctta	tgcaaacctta	attggcaaat
GU227428_Saur	tcaatctatt	aaatgatggt	atgcaacaag	tcgtaaataa	aacacataaa	gaagatattt	atagatctta	tgcaaacctta	attggcaaat
Y14051_Saur	tcaatctatt	aaatgatggt	atgcaacaag	tcgtaaataa	aacacataaa	gaagatattt	atagatctta	tgcaaacctta	attggcaaat
Y00688_Saur	tcaatctatt	aaatgatggt	atgcaacaag	tcgtaaataa	aacacataaa	gaagatattt	atagatctta	tgcaaacctta	attggcaaat
EU929080_Spseudin	tcaatctatt	aactgatggt	atgcaacaag	tcgtaaataa	aacacataaa	gaagatattt	atagatctta	tgcaaacctta	attggcaaat
AM048807_Sklo_Scap	tcaatctatt	aacagacggc	atgcaacaag	tcgtaaacaa	aacacataga	gaagatattt	atagaccata	cgcaaacctta	gttggtaaat
AM048808_Sklo_cap_vit	tcaatctatt	aacagacggc	atgcaacaag	tcgtaaacaa	aacacataga	gaagatattt	atagaccata	cgcaaacctta	gttggtaaat
AB546780_Svit	tcaatctatt	aacagacggc	atgcaacaag	tcgtaaacaa	aacacataga	gaagatattt	atagaccata	cgcaaacctta	gttggtaaat
AY820253_Ssci	ttaaattggt	aacagacggc	atgcaacaag	tcgtgaacaa	aacacataga	gaagatattt	atagatcata	tgccaactta	gttggtaaat
Y13052_Ssci	ttaaattggt	aacagacggt	atgcaacaag	tcgtcaacaa	aacacataga	gaagatattt	atagatcata	tgccaactta	gttggtaaat
AB547235_Ssci	ttaaattggt	aacagacggt	atgcaacaag	tcgtcaacaa	aacacataga	gaagatattt	atagatcata	tgccaactta	gttggtaaat
S. sciuri 09-LEM-1/3	ttaaattggt	aacagacggt	atgcaacaag	tcgtcaacaa	aacacataga	gaagatattt	atagatcata	tgccaactta	gttggtaaat
Y09223_Ssci	ttaaattggt	aacagacggt	atgcaacaag	tcgtgaacaa	aacacataga	gaagatattt	atagatcata	tgccaactta	gttggtaaat
Y13094_Ssci	ttaagttggt	aacagacggt	atgcaacaag	tcgttaacaa	aacacataga	gaagatattt	atagatcata	tgccaactta	gttggtaaat
AB547236_Ssci	ttaagttggt	aacagacggt	atgcaacaag	tcgttaacaa	aacacataga	gaagatattt	atagatcata	tgccaactta	gttggtaaat
FR821779_Saur_LGA251	tagatatatt	aactaatggt	atggaacgtg	tagttaataa	aacacatagg	gatgatata	acaaaaatta	tgcccgaatt	attggtaaat
FR823292_Saur_M10	tagatatatt	aactaatggt	atggaacgtg	tagttaataa	aacacatagg	gatgatata	acaaaaatta	tgcccgaatt	attggtaaat

**Supplemental Table 3:** Alignments of known *mecA* alleles, continued

	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....
	1805	1815	1825	1835	1845	1855	1865	1875	1885
AB546267_Sfleur	ccggtactgc	agaactcaaa	atgaaacaag	gagaaactgg	gagacaaatt	gggtggttta	tatcatatga	taaagataat	ccaaacatga
Y13095_Ssci	ccggtactgc	cgaactcaaa	atgaaacaag	gagaaactgg	ccgaccaatt	gggtggttta	tatcatatga	taaagataat	ccccacctga
AY786579_Saur	ccggtactgc	agaactcaaa	atgaaacaag	gagaaactgg	cagacaaatt	gggtggttta	tatcatatga	taaagataat	ccaaacatga
ABSA01000066_Saur_epi	ccggtactgc	agaactcaaa	atgaaacaag	gagaaactgg	cagacaaatt	gggtggttta	tatcatatga	taaagataat	ccaaacatga
GU235984_Saur	ccggtactgc	agaactcaaa	atgaaacaag	gagaaactgg	cagacaaatt	gggtggttta	tatcatatga	taaagataat	ccaaacatga
EU929081_Spseudin	ccggtactgc	agaactcaaa	atgaaacaag	gagaaactgg	cagacaaatt	gggtggttta	tatcatatga	taaagataat	ccaaacatga
GU370073_Saur_sap_vit_kloo.	ccggtactgc	agaactcaaa	atgaaacaag	gagaaactgg	cagacaaatt	gggtggttta	tatcatatga	taaagataat	ccaaacatga
AB037671_Saur	ccggtactgc	agaactcaaa	atgaaacaag	gagaaactgg	cagacaaatt	gggtggttta	tatcatatga	taaagataat	ccaaacatga
GU235983_Saur	ccggtactgc	agaactcaaa	atgaaacaag	gagaaactgg	cagacaaatt	gggtggttta	tatcatatga	taaagataat	ccaaacatga
AB221119_Saur	ccggtactgc	agaactcaaa	atgaaacaag	gagaaactgg	cagacaaatt	gggtggttta	tatcatatga	taaagataat	ccaaacatga
FN433596_TW20_Saur_ST239	ccggtactgc	agaactcaaa	atgaaacaag	gagaaactgg	cagacaaatt	gggtggttta	tatcatatga	taaagataat	ccaaacatga
BA000018_N315_Saur	ccggtactgc	agaactcaaa	atgaaacaag	gagaaactgg	cagacaaatt	gggtggttta	tatcatatga	taaagataat	ccaaacatga
GQ902038_Saur_haem_pseud	ccggtactgc	agaactcaaa	atgaaacaag	gagaaactgg	cagacaaatt	gggtggttta	tatcatatga	taaagataat	ccaaacatga
EU929082_Spseudin	ccggtactgc	agaactcaaa	atgaaacaag	gagaaacagg	cagacaaatt	gggtggttta	tatcatatga	taaagataat	ccaaacatga
AB546266_Sfleur	ccggtactgc	agaactcaaa	atgaaacaag	gagaaactgg	cagacaaatt	gggtggttta	tatcatatga	taaagataat	ccaaacatga
AM048805_Scapi	ccggtactgc	agaactcaaa	atgaaacaag	gagaaactgg	cagacaaatt	gggtggttta	tatcatatga	taaagataat	ccaaacatga
EU929079_Spseudin	ccggtactgc	agaactcaaa	atgaaacaag	gagaaactgg	cagacaaatt	gggtggttta	tatcatatga	taaagataat	ccaaacatga
GU227428_Saur	ccggtactgc	agaactcaaa	atgaaacaag	gagaaagtgg	cagacaaatt	gggtggttta	tatcatatga	taaagataat	ccaaacatga
Y14051_Saur	ccggtactgc	agaactcaaa	atgaaacaag	gagaaagtgg	cagacaaatt	gggtggttta	tatcatatga	taaagataat	ccaaacatga
Y00688_Saur	ccggtactgc	agaactcaaa	atgaaacaag	gagaaactgg	cagacaaatt	gggtggttta	tatcatatga	taaagataat	ccaaacatga
EU929080_Spseudin	ccggtactgc	agaactcaaa	atgaaacaag	gagaaactgg	cagacaaatt	gggtggttta	tatcatatga	taaagataat	ccaaacatga
AM048807_Sklo_Scap	ccggaacagc	agaactcaaa	atgaaacaag	gcgaaacagg	cagacagatt	ggttggttta	tatccttatga	taaagacaat	ccaaatatga
AM048808_Sklo_cap_vit	ccggaacagc	agaactcaaa	atgaaacaag	gcgaaacagg	cagacagatt	ggttggttta	tatccttatga	taaagacaat	ccaaatatga
AB546780_Svit	ccggaacagc	agaactcaaa	atgaaacaag	gcgaaacagg	cagacagatt	ggttggttta	tatccttatga	taaagacaat	ccaaatatga
AY820253_Ssci	caggcacagc	tgaactcaag	atgaaacaag	gtgagacagg	acaacaaata	ggttggttca	tttcttataa	taaagataat	ccaaatatga
Y13052_Ssci	caggtacagc	tgaactcaag	atgaaacaag	gtgagacagg	acaacaaata	ggctggttca	tttcatatga	taaagataat	ccaaatatga
AB547235_Ssci	caggtacagc	tgaactcaag	atgaaacaag	gtgagacagg	acaacaaata	ggctggttca	tttcatatga	taaagataat	ccaaatatga
S. sciuri 09-LEM-1/3	caggaacagc	tgaactcaag	atgaaacaag	gtgagacagg	acaacaaata	ggctggttca	tttcatatra	taaagataat	ccaaatatga
Y09223_Ssci	caggtacagc	tgaactcaag	atgaaacaag	gtgagacagg	acaacaaata	ggttggttca	tttcatatga	taaagataat	ccaaatataa
Y13094_Ssci	caggtacagc	tgaactcaag	atgaaacaag	gtgagacagg	acaacaaata	ggttggttca	tttcatatga	taaaaaataat	ccaaatatga
AB547236_Ssci	caggtacagc	tgaactcaag	atgaaacaag	gtgagacagg	acaacaaata	ggttggttca	tttcatatga	taaaaaataat	ccaaatatga
FR821779_Saur_LGA251	ctggcacagc	agaattaaaa	atgaatcaag	gggaaactgg	aagacaaata	ggttggtttg	tttcatataa	taaaaaataat	cctaatatgt
FR823292_Saur_M10	ctggcacagc	agaattaaaa	atgaatcaag	gggaaactgg	aagacaaata	ggttggtttg	tttcatataa	taaaaaataat	cctaatatgt

**Supplemental Table 3:** Alignments of known *mecA* alleles, continued

	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....	.... ....
	1895	1905	1915	1925	1935	1945	1955	1965	1975
AB546267_Sfleur	tgatggctat	taatgttaaa	gatgtacaag	ataaaggaat	ggctagctac	aatgccaaaa	tctcaggtaa	agtgtatgat	gagctatatg
Y13095_Ssci	tgatggctat	taatgttaaa	gatgttccag	ataaaggaat	ggctagctac	aatgccaaaa	tctcaggtaa	agtgtatgat	gagctatatg
AY786579_Saur	tgatggctat	taatgttaaa	gatgtacaag	ataaaggaat	ggctagctac	aatgccaaaa	tctcaggtaa	agtgtatgat	gagctatatg
ABSA01000066_Saur_epi	tgatggctat	taatgttaaa	gatgtacaag	ataaaggaat	ggctagctac	aatgccaaaa	tctcaggtaa	agtgtatgat	gagctatatg
GU235984_Saur	tgatggctat	taatgttaaa	gatgtacaag	ataaaggaat	ggctagctac	aatgccaaaa	tctcaggtaa	agtgtatgat	gagctatatg
EU929081_Spseudin	tgatggctat	taatgttaaa	gatgtacaag	ataaaggaat	ggctagctac	aatgccaaaa	tctcaggtaa	agtgtatgat	gagctatatg
GU370073_Saur_sap_vit_kloo.	tgatggctat	taatgttaaa	gatgtacaag	ataaaggaat	ggctagctac	aatgccaaaa	tctcaggtaa	agtgtatgat	gagctatatg
AB037671_Saur	tgatggctat	taatgttaaa	gatgtacaag	ataaaggaat	ggctagctac	aatgccaaaa	tctcaggtaa	agtgtatgat	gagctatatg
GU235983_Saur	tgatggctat	taatgttaaa	gatgtacaag	ataaaggaat	ggctagctac	aatgccaaaa	tctcaggtaa	agtgtatgat	gagctatatg
AB221119_Saur	tgatggctat	taatgttaaa	gatgtacaag	ataaaggaat	ggctagctac	aatgccaaaa	tctcaggtaa	agtgtatgat	gagctatatg
FN433596_TW20_Saur_ST239	tgatggctat	taatgttaaa	gatgtacaag	ataaaggaat	ggctagctac	aatgccaaaa	tctcaggtaa	agtgtatgat	gagctatatg
BA000018_N315_Saur	tgatggctat	taatgttaaa	gatgtacaag	ataaaggaat	ggctagctac	aatgccaaaa	tctcaggtaa	agtgtatgat	gagctatatg
GQ902038_Saur_haem_pseud	tgatggctat	taatgttaaa	gatgtacaag	ataaaggaat	ggctagctac	aatgccaaaa	tctcaggtaa	agtgtatgat	gagctatatg
EU929082_Spseudin	tgatggctat	taatgttaaa	gatgtacaag	ataaaggaat	ggctagctac	aatgccaaaa	tctcaggtaa	agtgtatgat	gagctatatg
AB546266_Sfleur	tgatggctat	taatgttaaa	gatgtacaag	ataaaggaat	ggctagctac	aatgccaaaa	tctcaggtaa	agtgtatgat	gagctatatg
AM048805_Scapi	tgatggctat	taatgttaaa	gatgtacaag	ataaaggaat	ggctagctac	aatgccaaaa	tctcaggtaa	agtgtatgat	gagctatatg
EU929079_Spseudin	tgatggctat	taatgttaaa	gatgtacaag	ataaaggaat	ggctagctac	aatgccaaaa	tctcaggtaa	agtgtatgat	gagctatatg
GU227428_Saur	tgatggctat	taatgttaaa	gatgtacaag	ataaaggaat	ggctagctac	aatgccaaaa	tctcaggtaa	agtgtatgat	gagctatatg
Y14051_Saur	tgatggctat	taatgttaaa	gatgtacaag	ataaaggaat	ggctagctac	aatgccaaaa	tctcaggtaa	agtgtatgat	gagctatatg
Y00688_Saur	tgatggctat	taatgttaaa	gatgtacaag	ataaaggaat	ggctagctac	aatgccaaaa	tctcaggtaa	agtgtatgat	gagctatatg
EU929080_Spseudin	tgatggctat	taatgttaaa	gatgtacaag	ataaaggaat	ggctagctac	aatgccaaaa	tctcaggtaa	agtgtatgat	gagctatatg
AM048807_Sklo_Scap	tgatggccat	taatgttaaa	gatgtacaag	ataaaggcat	ggcgagttac	aacgccaaaa	tctcaggtaa	agtttatgat	gacctatacg
AM048808_Sklo_cap_vit	tgatggccat	taatgttaaa	gatgtacaag	ataaaggcat	ggcgagttac	aacgccaaaa	tctcaggtaa	agtttatgat	gacctatacg
AB546780_Svit	tgatggccat	taatgttaaa	gatgtacaag	ataaaggcat	ggcgagttac	aacgccaaaa	tctcaggtaa	agtttatgat	gacctatacg
AY820253_Ssci	tgatggctat	taatgtgaaa	gatgtacaag	ataaaggtat	ggcaagttac	aatgccaaaa	tatctggaaa	agtgtatgac	gatttatatg
Y13052_Ssci	tgatggctat	taatgtgaaa	gatgttcaag	ataaaggtat	ggcaagttac	aatgccgaaa	tatcaggaaa	agtgtatgac	gatttatatg
AB547235_Ssci	tgatggctat	taatgtgaaa	gatgttcaag	ataaaggtat	ggcaagttac	aatgccaaaa	tatcaggaaa	agtgtatgac	gatttatatg
S. sciuri 09-LEM-1/3	tgatggctat	taatgtgaaa	gatgtacaag	ataaaggtat	ggcaagttac	aatgccaaaa	tatctggaaa	agtgtatgac	gatttatatg
Y09223_Ssci	tgatggctat	taatgtgaaa	gatgtacaag	ataaaggcat	ggcaagttac	aatgccaaaa	tatctggaaa	agtgtatgac	gatttatatg
Y13094_Ssci	tgatggctat	taatgtgaaa	gatgtacaag	ataaaggcat	ggcaagttac	aatgccaaaa	tatctggaaa	agtgtatgac	gatttatatg
AB547236_Ssci	tgatggctat	taatgtgaaa	gatgtacaag	ataaaggcat	ggcaagttac	aatgccaaaa	tatctggaaa	agtgtatgac	gatttatatg
FR821779_Saur_LGA251	taatggcgat	taatgttaaa	gacgttcaaa	ataaagggat	ggccagctat	aatgctacta	tatctggaaa	agtttatgat	gatttggatg
FR823292_Saur_M10	taatggcgat	taatgttaaa	gacgttcaaa	ataaagggat	ggccagctat	aatgctacta	tatctggaaa	agtttatgat	gatttggatg

**Supplemental Table 3:** Alignments of known *mecA* alleles, continued

	.... ....	.... ....	.... ....	....
	1985	1995	2005	2015
AB546267_Sfleur	agaacggtaa	taaaaaatac	gatatagata	aataa
Y13095_Ssci	agaacggtaa	taaaaaatac	gatatagatg	aataa
AY786579_Saur	agaacggtaa	taaaaaatac	gatatagatg	aataa
ABSA01000066_Saur_epi	agaacggtaa	taaaaaatac	gatatagatg	aataa
GU235984_Saur	agaacggtaa	taaaaaatac	gatatagatg	aataa
EU929081_Spseudin	agaacggtaa	taaaaaatac	gatatagatg	aataa
GU370073_Saur_sap_vit_kloo.	agaacggtaa	taaaaaatac	gatatagatg	aataa
AB037671_Saur	agaacggtaa	taaaaaatac	gatatagatg	aataa
GU235983_Saur	agaacggtaa	taaaaaatac	gatatagatg	aataa
AB221119_Saur	agaacggtaa	taaaaaatac	gatatagatg	aataa
FN433596_TW20_Saur_ST239	agaacggtaa	taaaaaatac	gatatagatg	aataa
BA000018_N315_Saur	agaacggtaa	taaaaaatac	gatatagatg	aataa
GQ902038_Saur_haem_pseud	agaacggtaa	taaaaaatac	gatatagatg	aataa
EU929082_Spseudin	agaacggtaa	taaaaaatac	gatatagatg	aataa
AB546266_Sfleur	agaacggtaa	taaaaaatac	gatatagatg	aataa
AM048805_Scapi	agaacggtaa	taaaaaatac	gatatagatg	aataa
EU929079_Spseudin	agaacggtaa	taaaaaatac	gatatagatg	aataa
GU227428_Saur	agaacggtaa	taaaaaatac	gatatagatg	aataa
Y14051_Saur	agaacggtaa	taaaaaatac	gatatagatg	aataa
Y00688_Saur	agaacggtaa	taaaaaatac	gatatagatg	aataa
EU929080_Spseudin	agaacggtaa	taaaaaatac	gatatagatg	aataa
AM048807_Sklo_Scap	agaacggtaa	taaaaaatac	gatatagatg	aataa
AM048808_Sklo_cap_vit	agaacggtaa	taaaaaatac	gatatagatg	aataa
AB546780_Svit	agaacggtaga	taaaaaattc	gatatagata	aataa
AY820253_Ssci	ataacggtaa	gaaaacatat	aatattgata	aataa
Y13052_Ssci	ataacggcaa	gaaaacgtat	cgtattgata	aataa
AB547235_Ssci	ataacggcaa	gaaaacgtat	cgtattgata	aataa
S. sciuri 09-LEM-1/3	ataacggtaa	gaaaacgtat	aatattgata	aataa
Y09223_Ssci	ataacggtaa	gaaaacgtat	cgtattgata	aataa
Y13094_Ssci	ataacggtaa	gaaaacatat	cgtattgata	aataa
AB547236_Ssci	ataacggtaa	gaaaacgtat	cgtattgata	aataa
FR821779_Saur_LGA251	ataatggaaa	aactcaattt	gatatagatc	agtaa
FR823292_Saur_M10	ataatggaaa	aactcaattt	gatatagatc	agtaa



**Supplemental Table 4:** *mecA* sequences, alleles and predicted array hybridization patterns

Universal Sequence Allocator	Species, isolate	Allele number (as in Figure 1)	Allele designation	Variant (based on predicted amino acid sequence)	Array pattern			
AB037671.1 [24421:26427]	<i>S. aureus</i> , 85-2082	<b>1</b>	<i>mecA_AB037671</i>	AB037671	[AB546266] / [CP000046]			
AEEK01000041.1 [2440:4446:r]	<i>S. aureus</i> , BAA-39							
AB221119.1 [91:2097]	<i>S. aureus</i>	<b>2</b>	<i>mecA_AB221119</i>	AB221119				
FN433596.1 [76827:78833:r]	<i>S. aureus</i> , TW20-ST239	<b>19</b>	<i>mecA_FN433596</i>	FN433596				
GU235983.1 [4794:6800:r]	<i>S. aureus</i>							
AB033763.2 [31390:33396]	<i>S. aureus</i> , NCTC10442	<b>22</b>	<i>mecA_GU235983</i>	GU235983				
AB047089.2 [2517:4523:r]	<i>S. aureus</i> , 85-3907							
AB096217.1 [20340:22346]	<i>S. aureus</i> , MR108	<b>24</b>	<i>mecA_GU370073</i>	GU370073				
AB221120.1 [91:2097]	<i>S. aureus</i>							
AB221123.1 [91:2097]	<i>S. aureus</i>							
AB236888.1 [91:2097]	<i>S. aureus</i>							
AB245471.1 [13822:15828]	<i>S. aureus</i> , 80s-2							
AB266532.1 [33:2039:r]	<i>S. aureus</i>							
AB266533.1 [30:2036:r]	<i>S. aureus</i>							
AB353724.1 [5461:7467:r]	<i>S. saprophyticus</i>							
AB373032.1 [20471:22477:r]	<i>S. aureus</i>							
AB425824.1 [6036:8042:r]	<i>S. aureus</i>							
ACSN01000041.1 [2589:4595:r]	<i>S. aureus</i> , A9765							
ACYP01000048.1 [214779:216785:r]	<i>S. aureus</i> , A017934/97							
ACZQ01000131.1 [1478:3484]	<i>S. aureus</i> , MR1							
AF411935.3 [15571:17577]	<i>S. aureus</i>							
AM048802.2 [1:2007]	<i>S. vitulinus</i>							
AM048803.2 [1:2007]	<i>S. kloosii</i>							
AM904731.1 [23787:25793]	<i>S. pseudintermedius</i>							
AY271717.1 [16531:18537]	<i>S. aureus</i>							
CP000046.1 [39643:41649:r]	<i>S. aureus</i> , COL							
DQ106887.1 [15150:17156]	<i>S. aureus</i>							
GU370073.1 [28489:30495]	<i>S. cohnii</i>							
LCL_10002.1 [39734:41740:r]	<i>S. aureus</i> , EMRSA15							
Y13096.1 [2713:4719]	<i>S. sciuri</i>					<b>3</b>	<i>mecA_AB546266</i>	AB546266
AB546266.1 [8628:10634:r]	<i>S. fleurettii</i> , ATCC_BAA-274/CCUG43834							
AM048804.2 [1:2007]	<i>S. kloosii</i>	<b>8</b>	<i>mecA_AM048805</i>	AM048805				
AM048805.2 [1:2007]	<i>S. capitis</i>							
Y13095.1 [3485:5491]	<i>S. sciuri</i>	<b>31</b>	<i>mecA_Y13095</i>	Y13095				

**Supplemental Table 4:** *mecA* sequences, alleles and predicted array hybridization patterns, continued

Universal Sequence Allocator	Species, isolate	Allele number (as in Figure 1)	Allele designation	Variant (based on predicted amino acid sequence)	Array pattern
AB546267.1 [7312:9318:r]	<i>S. fleurettii</i>	4	<i>mecA_AB546267</i>	AB546267	[AB546267]
AB546780.1 [7779:9785:r]	<i>S. vitulinus</i>	5	<i>mecA_AB546780</i>	AB546780	[AB546780]
AB547235.1 [15331:17331:r]	<i>S. sciuri</i> , DSM16827/ATCC700061	6	<i>mecA_AB547235</i>	AB547235	[AB547235]
AB547236.1 [10164:12164:r]	<i>S. sciuri</i>	7	<i>mecA_AB547236</i>	AB547236	[Y13094]
Y13094.1 [2045:4045]	<i>S. sciuri</i>	30	<i>mecA_Y13094</i>	Y13094	
AM048806.2 [1:2007]	<i>S. capitis</i>	9	<i>mecA_AM048807</i>	AM048807	[AM048807]
AM048807.2 [1:2007]	<i>S. kloosii</i>				
AM048808.2 [1:2007]	<i>S. kloosii</i>	10	<i>mecA_AM048808</i>	AM048808	
AM048809.2 [1:2007]	<i>S. capitis</i>				
AM048810.2 [1:2007]	<i>S. vitulinus</i>				
AM048811.2 [1:2007]	<i>S. vitulinus</i>				
AY786579.1 [1:2007]	<i>S. aureus</i>	11	<i>mecA_AY786579</i>	AY786579	[BA000018]
AB063172.2 [17646:19652]	<i>S. aureus</i> , JCSC1968-CA05	13	<i>mecA_ABSA01000066</i>	BA000018	
AB063173.1 [13643:15649]	<i>S. aureus</i>				
AB221121.1 [91:2097]	<i>S. aureus</i>				
AB221122.1 [91:2097]	<i>S. aureus</i>				
AB221124.1 [91:2097]	<i>S. aureus</i>				
AB245470.1 [13818:15824]	<i>S. aureus</i> , NN1				
AB266531.1 [43:2049:r]	<i>S. aureus</i> , JCSC4744				
AB425823.1 [6037:8043:r]	<i>S. aureus</i>				
AB539727.1 [90010:92016:r]	<i>S. aureus</i> , 16K				
ABSA01000066.1 [11407:13413]	<i>S. aureus</i> , JKD6009				
ACHE01000063.1 [1753:3759:r]	<i>S. epidermidis</i>				
ACHH02000005.1 [448122:450128]	<i>S. aureus</i> , TCH70				
ACJC01000132.1 [1335:3341]	<i>S. epidermidis</i>				
ACKC01000025.1 [1523:3529:r]	<i>S. aureus</i> , A5937				
ACKD01000060.1 [7534:9540]	<i>S. aureus</i> , A5948				
ACKE01000035.1 [1523:3529:r]	<i>S. aureus</i> , A6224				
ACKF01000035.1 [1523:3529:r]	<i>S. aureus</i> , A6300				
ACKJ01000051.1 [7533:9539]	<i>S. aureus</i> , A9719				
ACKK01000007.1 [1523:3529:r]	<i>S. aureus</i> , A9763				
ACKL01000046.1 [1523:3529:r]	<i>S. aureus</i> , A9781				
ACOT01000006.1 [1523:3529:r]	<i>S. aureus</i> , 132				
ACSO01000033.1 [1523:3529:r]	<i>S. aureus</i> , A10102				
ADAT01000064.1 [2772:4778:r]	<i>S. aureus</i> , EMRSA16				
ADJI01000031.1 [1654:3660:r]	<i>S. aureus</i> , A9754				
ADJJ01000027.1 [1929:3935:r]	<i>S. aureus</i> , A8796				
ADJK01000025.1 [2021:4027:r]	<i>S. aureus</i> , A8819				

**Supplemental Table 4:** *mecA* sequences, alleles and predicted array hybridization patterns, continued

Universal Sequence Allocator	Species, isolate	Allele number (as in Figure 1)	Allele designation	Variant (based on predicted amino acid sequence)	Array pattern
ADMU01000036.1 [4771:6777]	<i>S. epidermidis</i>	13 (continued)	<i>mecA_ABSA01000066</i> (continued)	BA000018 (continued)	[BA000018] (continued)
AJ810120.1 [20316:22322]	<i>S. aureus</i> , AR13.1-3330.2				
AJ810121.1 [13811:15817]	<i>S. aureus</i>				
AM904732.1 [17329:19335]	<i>S. pseudintermedius</i>				
AM943017.1 [18829:20835]	<i>S. aureus</i>				
AP009324.1 [44992:46998:r]	<i>S. aureus</i> , Mu3				
BA000033.2 [39602:41608:r]	<i>S. aureus</i> , MW2-USA400				
BABM01000001.1 [44992:46998:r]	<i>S. aureus</i> , Mu50-omega				
BX571856.1 [44919:46925:r]	<i>S. aureus</i> , MRSA252				
CABA01000047.1 [18898:20904]	<i>S. aureus</i> , CF-Marseille				
CP000029.1 [2576656:2578662]	<i>S. epidermidis</i>				
CP000255.1 [39127:41133:r]	<i>S. aureus</i> , FPR3757				
CP000703.1 [38743:40749:r]	<i>S. aureus</i> , JH9				
CP000730.1 [39127:41133:r]	<i>S. aureus</i> , TCH1516				
CP000736.1 [38812:40818:r]	<i>S. aureus</i> , JH1				
CP001844.2 [44034:46040:r]	<i>S. aureus</i> , 04-02981				
CP002110.1 [478737:480743]	<i>S. aureus</i> , TCH60				
CP002114.2 [39177:41183:r]	<i>S. aureus</i> , JKD6159-ST93				
CP002120.1 [45140:47146:r]	<i>S. aureus</i> , JKD6008-ST239				
EF596937.1 [4393:6399]	<i>S. aureus</i>				
EU437549.2 [18622:20628]	<i>S. aureus</i> , cm11				
EU437550.1 [1871:3877]	<i>S. aureus</i> , cm47				
FJ390057.1 [5560:7566:r]	<i>S. aureus</i> , MRSA-C10682				
FJ670542.1 [25839:27845]	<i>S. aureus</i> , BK20781				
GQ918137.1 [5822:7828:r]	<i>S. aureus</i>				
GU122149.1 [31646:33652:r]	<i>S. aureus</i> , 45394F				
GU451305.1 [5464:7470:r]	<i>S. epidermidis</i>				
GU451306.1 [4965:6971:r]	<i>S. epidermidis</i>				
GU451307.1 [4966:6972:r]	<i>S. epidermidis</i>				
HM030720.1 [35187:37193:r]	<i>S. aureus</i>				
HM030721.1 [8703:10709:r]	<i>S. aureus</i>				
X52592.1 [141:2147]	<i>S. epidermidis</i>				
BA000017.4 [44992:46998:r]	<i>S. aureus</i> , Mu50-VRSA				
BA000018.3 [45031:47037:r]	<i>S. aureus</i> , N315				
D86934.2 [44770:46776]	<i>S. aureus</i> , N315				
EU333401.1 [32:2038:r]	<i>S. aureus</i>				
EU929081.1 [1:2007]	<i>S. pseudintermedius</i>				
EU929082.1 [1:2007]	<i>S. pseudintermedius</i>	15	<i>mecA_EU929081</i>		
		16	<i>mecA_EU929082</i>		
GU235984.1 [6042:8048:r]	<i>S. aureus</i> , BK16704	23	<i>mecA_GU235984</i>	GU235984	

**Supplemental Table 4:** *mecA* sequences, alleles and predicted array hybridization patterns, continued

Universal Sequence Allocator	Species, isolate	Allele number (as in Figure 1)	Allele designation	Variant (based on predicted amino acid sequence)	Array pattern
AY820253.1 [20:2017]	<i>S. sciuri</i>	12	<i>mecA</i> _AY820253	AY820253	[AY820253]
EU929079.1 [1:2007]	<i>S. pseudintermedius</i>	17	<i>mecA</i> _EU929079	EU929079	[EU929079]
EU929080.1 [1:2013]	<i>S. pseudintermedius</i>	18	<i>mecA</i> _EU929080	EU929080	[Y00688]
Y00688.1 [1:2013]	<i>S. aureus</i>	27	<i>mecA</i> _Y00688	Y00688	
AB121219.1 [6023:8029:r]	<i>S. aureus</i> , JSCC3624-WIS	20	<i>mecA</i> _GQ902038	GQ902038	[GQ902038]
AB353125.1 [14082:16088:r]	<i>S. aureus</i> , P1				
AB437289.1 [610:2616:r]	<i>S. haemolyticus</i>				
AB437290.1 [610:2616:r]	<i>S. aureus</i>				
AB462393.1 [14082:16088:r]	<i>S. aureus</i> , PM1				
AB478780.1 [14070:16076:r]	<i>S. aureus</i> , JCSC5952-IM03				
AM292304.1 [14026:16032:r]	<i>S. aureus</i> , MRSAZH47				
AM990992.1 [47524:49530:r]	<i>S. aureus</i> , SO385-pig				
AP006716.1 [98075:100081:r]	<i>S. haemolyticus</i>				
AY894415.1 [3099:5105:r]	<i>S. aureus</i> , TSGH17				
FJ544922.1 [13636:15642:r]	<i>S. pseudintermedius</i>				
GQ902038.1 [12639:14645:r]	<i>S. aureus</i>				
GU227428.1 [141:2147]	<i>S. aureus</i>	21	<i>mecA</i> _GU227428	GU227428	[Y14051]
X52593.1 [141:2147]	<i>S. aureus</i>	32	<i>mecA</i> _Y14051	Y14051	
Y14051.1 [3472:5478]	<i>S. aureus</i>				
FR821779.1 [35681:37678:r]	<i>S. aureus</i> , LGA251-cow	25	<i>mecA</i> _LGA251	FR823292	[FR823292]
FR823292 [1741:3738]	<i>S. aureus</i> , M10_0061	26	<i>mecA</i> _FR823292		
AB547234.1 [15633:17633:r]	<i>S. sciuri</i>	28	<i>mecA</i> _Y09223	Y09223	[Y09223]
Y09223.1 [1640:3640]	<i>S. sciuri</i> , DSM20345/ATCC29062				
Y13052.1 [1318:3318]	<i>S. sciuri</i>				
		29	<i>mecA</i> _Y13052	Y13052	[Y13052]







Supplemental Table 5: Experimental data and assignment of tested isolates to predicted patterns

Isolate:	Species / Strain / SCCmec type:	Probe:	01_mecA_hp / 02_mecA_hp / 03_mecA_hp / 04_mecA_hp / 05_mecA_hp / 06_mecA_hp / 07_mecA_hp / 08_mecA_hp / 09_mecA_hp / 10_mecA_hp / 11_mecA_hp / 12_mecA_hp / 13_mecA_hp / 14_mecA_hp / 15_mecA_hp / 16_mecA_hp / 17_mecA_hp / 18_mecA_hp / 19_mecA_hp / 20_mecA_hp / 21_mecA_hp / 22_mecA_hp / 23_mecA_hp / 24_mecA_hp / 25_mecA_hp / 26_mecA_hp / 27_mecA_hp / 28_mecA_hp / 29_mecA_hp																													
			01_mecA_hp	02_mecA_hp	03_mecA_hp	04_mecA_hp	05_mecA_hp	06_mecA_hp	07_mecA_hp	08_mecA_hp	09_mecA_hp	10_mecA_hp	11_mecA_hp	12_mecA_hp	13_mecA_hp	14_mecA_hp	15_mecA_hp	16_mecA_hp	17_mecA_hp	18_mecA_hp	19_mecA_hp	20_mecA_hp	21_mecA_hp	22_mecA_hp	23_mecA_hp	24_mecA_hp	25_mecA_hp	26_mecA_hp	27_mecA_hp	28_mecA_hp	29_mecA_hp	
<b>Unexpected Pattern [JX094435]</b>																																
FLI-08_LEM-1/2	S. sciuri	Exp. 1	0,00	0,00	0,00	0,00	0,04	0,32	0,05	0,00	0,00	0,00	0,00	0,00	0,00	0,83	0,70	0,55	0,00	0,00	0,00	0,00	0,00	0,07	0,41	0,59	0,70	0,00	0,00	0,01	0,00	0,00
		Exp. 2	0,00	0,00	0,00	0,00	0,13	0,56	0,17	0,02	0,00	0,00	0,00	0,02	0,00	0,82	0,78	0,70	0,00	0,00	0,00	0,00	0,00	0,17	0,28	0,65	0,76	0,75	0,00	0,00	0,00	0,00
		Exp. 1	0,00	0,00	0,00	0,00	0,07	0,36	0,12	0,01	0,00	0,00	0,00	0,00	0,00	0,79	0,63	0,63	0,00	0,00	0,00	0,00	0,17	0,49	0,66	0,68	0,00	0,02	0,00	0,00	0,00	
		Exp. 2	0,00	0,00	0,00	0,00	0,05	0,30	0,07	0,00	0,00	0,00	0,00	0,00	0,00	0,79	0,64	0,57	0,00	0,00	0,00	0,00	0,12	0,44	0,64	0,69	0,00	0,00	0,00	0,00	0,00	
		Exp. 3	0,00	0,00	0,00	0,00	0,03	0,32	0,04	0,00	0,01	0,00	0,00	0,00	0,00	0,83	0,73	0,56	0,00	0,00	0,00	0,00	0,03	0,37	0,55	0,70	0,00	0,01	0,00	0,00	0,00	
		Exp. 4	0,00	0,00	0,00	0,00	0,08	0,50	0,09	0,01	0,00	0,00	0,00	0,00	0,00	0,82	0,78	0,68	0,00	0,00	0,00	0,00	0,05	0,52	0,67	0,76	0,00	0,00	0,00	0,00	0,00	
		Exp. 5	0,00	0,00	0,00	0,00	0,06	0,41	0,06	0,01	0,00	0,01	0,00	0,00	0,00	0,83	0,73	0,63	0,01	0,00	0,00	0,00	0,04	0,48	0,66	0,73	0,00	0,00	0,00	0,00	0,00	
		Exp. 6	0,00	0,00	0,00	0,00	0,08	0,53	0,10	0,01	0,00	0,00	0,00	0,00	0,00	0,81	0,78	0,68	0,00	0,00	0,00	0,00	0,06	0,56	0,70	0,77	0,00	0,00	0,00	0,00	0,00	
		Exp. 7	0,00	0,00	0,00	0,00	0,07	0,45	0,08	0,00	0,00	0,00	0,00	0,00	0,00	0,81	0,77	0,64	0,00	0,01	0,00	0,00	0,15	0,54	0,68	0,76	0,00	0,00	0,00	0,00	0,00	
		Exp. 8	0,02	0,00	0,00	0,00	0,09	0,53	0,09	0,01	0,00	0,00	0,00	0,00	0,00	0,82	0,77	0,69	0,00	0,01	0,00	0,00	0,06	0,56	0,69	0,77	0,00	0,01	0,00	0,01	0,00	
		Exp. 9	0,00	0,00	0,00	0,00	0,06	0,45	0,07	0,00	0,01	0,01	0,00	0,00	0,00	0,81	0,77	0,65	0,00	0,00	0,00	0,00	0,04	0,45	0,64	0,75	0,00	0,00	0,00	0,00	0,00	
		Exp. 10	0,00	0,00	0,00	0,00	0,03	0,40	0,05	0,01	0,00	0,00	0,00	0,00	0,00	0,79	0,70	0,56	0,00	0,00	0,00	0,00	0,08	0,39	0,58	0,71	0,00	0,00	0,00	0,00	0,00	
		Exp. 11	0,00	0,00	0,00	0,00	0,04	0,34	0,05	0,01	0,00	0,00	0,00	0,00	0,01	0,82	0,70	0,59	0,00	0,00	0,00	0,00	0,09	0,46	0,62	0,70	0,00	0,00	0,01	0,00	0,00	

Patterns that were not identified during this study:

<b>Pattern [AB546267]</b>	Predicted reactivity for mecA_AB546267Sfleu:	0,90	0,60	0,30	0,30	0,60	0,60	0,30	0,60	0,90
<b>Pattern [AM048807]</b>	Predicted reactivity for mecA_AM048807: 0,90 Predicted reactivity for mecA_AM048808: 0,90	0,30	0,30	0,30	0,90	0,90	0,10	0,30	0,10	0,30
<b>Pattern [EU929079]</b>	Predicted reactivity for mecA_EU929079: 0,30 0,90	0,30	0,60	0,90	0,30	0,90	0,60	0,90	0,60	0,90
<b>Pattern [Y00688]</b>	Predicted reactivity for mecA_EU929080: 0,90 0,30 Predicted reactivity for mecA_Y00688: 0,90 0,30	0,30	0,60	0,90	0,30	0,90	0,90	0,60	0,90	0,60
<b>Pattern [Y14051]</b>	Predicted reactivity for mecA_GU227428: 0,90 0,30 Predicted reactivity for mecA_Y14051: 0,90 0,30	0,60	0,90	0,60	0,60	0,90	0,90	0,60	0,90	0,60
<b>Pattern [Y13052]</b>	Predicted reactivity for mecA_Y13052: 0,90 0,60 0,30	0,60	0,90	0,60	0,60	0,90	0,90	0,60	0,90	0,60

This file shows the expected signal intensities for each variant of mecA and each probe on the array (on black background) as well as the actual measurements of all experiments performed (on white background, shaded according to signal intensity).

Strain designations: Red letters indicate strains for which mecA sequences are available. Staphylococcus aureus strains are highlighted in yellow, other species in grey.