Table S4. Oligonucleotides used in this study.

Oligonucleotide name	**Sequence (5' –3')**
SCV P*cheR2*::*gusA* F HindIII	GCAAGCTTGTGTTCAAACTGGACGAATCGGCT
SCV P*cheR2*::*gusA* R XbaI	GCTCTAGAACGCGTCGTGAGCTATCACTG
SCV P*cheA2*::*gusA* F HindIII	GCAAGCTTATCCCGCAGACGCCCGCATGTGT
SCV P*cheA2*::*gusA* R XbaI	GCTCTAGAGCGAATTGCCTCGAGGAACGGGAC
SCV P*motA*::*gusA* F HindIII	GCAAGCTT GCTCGACCTATGTCACCCTCAAAATGGA
SCV P*motA*::*gusA* R XbaI	GCTCTAGAGCATGTGGTATCGGCCCAGGCGCGG
SCV P*fliC*::*gusA* F HindIII	GCAAGCTTTTTTGCCGCAGAAAACCTGGGTTTTCTT
SCV P*fliC*::*gusA* R XbaI	GCTCTAGAGCAACCAACTCGTCCACCGACCGCGAAG
SCV Δ*cheR2* F1 PstI	GCCTGCAGATGGATATGACGACTACGAC
SCV Δ*cheR2* R1 XbaI	GCTCTAGAAAGAACGAGGTCAGGTTGGTG
SCV Δ*cheR2* F2 XbaI	GCTCTAGAATGAGTACGGCCGTGCAAGT
SCV Δ*cheR2* R2 HindIII	GCAAGCTTCTGGTGAAGCCCTTGAGCACGTTG
SCV Δ*cheD* F1 BamHI	CCGGATCCTGTCGCCTCGCTGGACGCCTC
SCV Δ*cheD* R1 XbaI	GCTCTAGAGGCCGTACTCATTCATGCAGA
SCV Δ*cheD* F2 XbaI	GCTCTAGATTCGAATGAATGACGCTGGAA
SCV Δ*cheD* R2 HindIII	GGAAGCTTCGGCCATCTTGACCTTGCTGA
SCV Δ*cheB2* F1 XbaI	GCTCTAGATGGAGTTGCTGATCAACGACATG
SCV Δ*cheB2* R1 XhoI	GCCTCGAGTCATTCGAACAACTCCACTCCACC
SCV Δ*cheB2* F2 XhoI	GCCTCGAGCGCGACGGTGCGCGTTGGCGTTGC
SCV Δ*cheB2* R2 HindIII	GCAAGCTTTCAGCGTGCCTGGGCCGACAATGC
SCV Δ*cheW2* F1 EcoRI	GCGAATTCGGTGCAGCGCTCGCGCCACCGCGAGCT
SCV Δ*cheW2* R1 XbaI	GCTCTAGA CAGCGACCGCAGCAGGCGGGGCGAC
SCV Δ*cheW2* F2 XbaI	GCTCTAGAAGATATGGATCTGCACACCCG
SCV Δ*cheW2* R2 HindIII	GCAAGCTT TCAATGCAGCAGATGGGTGGCA
SCV Δ*cheA2* F1 EcoRI	GGGAATTCATGAGTGCTGTTCCAGACGATA
SCV Δ*cheA2* R1XbaI	GCTCTAGAGGCCTGCAGATAATCCAGCGA
SCV Δ*cheA2* F2 XbaI	GGTCTAGACCTGCCCCTGATCGACCTGCG
SCV Δ*cheA2* R2 HindIII	GGAAGCTTTCAATGATCGCTGGAGCGCAAT
SCV Δ*fliC* F1 EcoRI	GGGAATTCGCAGGCGGACGGAGTTTATTT
SCV Δ*fliC* R1XbaI	GCTCTAGACATCAAGTTGGCCGTTACCGC
SCV Δ*fliC* F2 XbaI	GGTCTAGACAGAACGTGCTGAGCCTGCTG
SCV Δ*fliC* R2 HindIII	GGAAGCTTGTTGATGCGTGCCTGCTCGGG
SCV Δ*mcp2* F1 EcoRI	GCGAATTCATTGGCAGGATTTCTGACCGCG
SCV Δ*mcp2* R1 XbaI	GGTCTAGAAAGAGATGTCATGGAATCGCT
SCV Δ*mcp2* F2 XbaI	GCTCTAGAACCGTTACCGCTGGCGATTGG

SCV Δ*mcp2* R2 HindIII	GCAAGCTTCGGCCCATAAGATCTGCGGAG
SCV Δ*cheY1* F1 EcoRI	GGGAATCTGGTGCTGTCGCTGTACTACG
SCV Δ*cheY1* R1 XbaI	GGTCTAGAGAACGGGCCAGCACGCAACGC
SCV Δ*cheY1* F2 XbaI	GGTCTAGAGTGAACGGCTACATCATCAAG
SCV Δ*cheY1* R2 HindIII	GCAAGCTTCAACGCCTGGCCGAGTTCG
SCV Δ*cheA3* F1 EcoRI	GCGAATTCCTGCGTCAGCTGCCGGACTAC
SCV Δ*cheA3* R1 XbaI	GGTCTAGAGCCCTCTTCAAGCGACAACAG
SCV Δ*cheA3* F2 XbaI	GGTCTAGACAGGCCGCGTAATGCAAATGC
SCV Δ*cheA3* R2 HindIII	GCAAGCTTCTGTCCAGACCCGCTCACGCT
SCV Δ*cheW3* F1 BamHI	CGGGATCCGCGCGTCATCGACATCAGCAG
SCV Δ*cheW3* R1 XbaI	GGTCTAGAGATGTCCACGCCGTAGGTTCT
SCV Δ*cheW3* F2 XbaI	GCTCTAGAGTCGAAGAAGCCGCCTGATTC
SCV Δ*cheW3* R2 HindIII	GCAAGCTTAAGCCTCCCACACTGCCCGTG
SCV Δ*cheR3* F1 EcoRI	CGGAATTCAGTAGGACAGATGCGCAAAGC
SCV Δ*cheR3* R1 XbaI	GGTCTAGATTCGTCGTCGGTCATGGCGGC
SCV Δ*cheR3* F2 XbaI	GCTCTAGAAACGTACACGCCACCTTCCCG
SCV Δ*cheR3* R2 HindIII	GCAAGCTTGTCGGCACGGCTGAGCGCGCT
SCV Δ*cheV* F1 XbaI	GCTCTAGAAACAGGTCCGGACGAAGACGA
SCV Δ*cheV* R1 XhoI	GGCTCGAGGTGGGTCATGGGGCAGATATC
SCV Δ*cheV* F2 XhoI	AGCTCGAGGAAGCGGCCTGATCCACCAG
SCV Δ*cheV* R2 HindIII	AGAAGCTTGGTGCTCTCCCGCGAAATGTT
SCV Δ*cheZ* F1 EcoRI	GGGAATTCCGTTGCGTGCTGGCCCGTTCG
SCV Δ*cheZ* R1 XbaI	GCTCTAGAGTTCATTCAGGCGGTCGCCGC
SCV Δ*cheZ* F2 XbaI	GCTCTAGATTGGGGCTGTAAATGAGTGCT
SCV Δ*cheZ* R2 HindIII	CGAAGCTTGGCCTGCAGATAATCCAGCGA
SCV Δ*cheA1* F1 EcoRI	GCGAATTCTTGCTGCATCCGGGTGGATTG
SCV Δ*cheA1* R1 XbaI	GGTCTAGAGCTCGGATCTGCGGCGGTTTC
SCV Δ*cheA1* F2 XbaI	GGTCTAGAGTGGACACCTTGCTGGGCGAA
SCV Δ*cheA1* R2 HindIII	GCAAGCTTGACCACGATAACGGGGAGGGC
SCV Δ*cheR1* F1 EcoRI	GCGAATTCTCACCGAACTCAAGCTGGATC
SCV Δ*cheR1* R1 XbaI	GGTCTAGAGCTGATGCCGGCGGCTTCGAA
SCV Δ*cheR1* F2 XbaI	GGTCTAGATCGGAAAGCCTGAGCGAACTC
SCV Δ*cheR1* R2 HindIII	GCAAGCTTGCGCGGCATTTCCACATCCAG
SCV Δ*cheB1* F1 EcoRI	GCGAATTCTTGCTGGTGGAGCGGCGCCTG
SCV Δ*cheB1* R1 XbaI	GGTCTAGACGAATCGTCGACCACCAGGGC
SCV Δ*cheB1* F2 XbaI	GGTCTAGAGCGCTAGGCATCATCATGACC
SCV Δ*cheB1* R2 HindIII	GCAAGCTTGATAAGGAATGTGGTGGCCAT
SCV Δ*vieA* F1 EcoRI	GCGAATTCATGCACACAAGGACTCCCATGC
SCV Δ*vieA* R1 XbaI	GGTCTAGAGCGCTGCGGCTGAGTTGCATCA
SCV Δ*vieA* F2 XbaI	GGTCTAGATCACCGAACTCAAGCTGGAT
SCV Δ*vieA* R2 HindIII	GCAAGCTTTCAGGCCACGTCCGCATCGC
SCV Δ*cheW1* F1 EcoRI	GCGAATTCGAAGAACTGGCTGCCACCTCC
SCV Δ*cheW1* R1 XbaI	GGTCTAGAGCCCAGGCCGAACATTTCCCC
SCV Δ*cheW1* F2 XbaI	GGTCTAGACTCGATACCGACGCCGTGCTG
SCV Δ*cheW1* R2 HindIII	GCAAGCTTGAGCAACTGCACGCCGTCCAT
SCV Δ*pdeA* F1 EcoRI	GCGAATTCATGGCCAAGGCCGGCGAACAG
SCV Δ*pdeA* R1 XbaI	GCTCTAGACCTCGTGCATCTTGGTGTCGGT
SCV Δ*pdeA* F2 XbaI	GCTCTAGACCGGCTATTCCAGTCTTAGCCA
SCV Δ*pdeA* R2 pstI	GCCTGCAGCTAAGGCTGCGCGCCCAACCA

Oligonucleotides used for real-time RT-PCR	
SCRTF24	CTCGTTCCGCGATTATCT
SCRTR24	AGGTCAGGTTGGTGGTCA
SCRTF25	CCGAACACATTCCCATCA
SCRTR25	GCGAAGAACCACACCTTG
SCRTF26	ATTTCATCGCTGACCGAAC
SCRTR26	GACCTTGCTGACGATTTCTTCT
SCRTF27	GCTCAATTTCAACCCAATCTAC
SCRTR27	CTGCAATACCTCGTGCATCT
SCRTF28	CTTCACCGCCACTATTTAC
SCRTR28	GCCTTCGATCACCATTTC
SCRTF29	CACGAAGAACATGGCAAC
SCRTR29	GCGTACATGACGACGAAGAA
SCRTF31	TTCGCCGGTAGATATGGAT
SCRTR31	CATGGTTTCGCCGTTCTC
SCRTF32	CTCACCAATTACTACGGCTTC
SCRTR32	CCAAGCAATTCGTCCACTTC
SCRTF33	TATCCAGACCTCGTCCAA
SCRTR33	GCTGCATTCAACGCCAAA
SCRTF34	GTGTTGAAAGCAGCCCAAA
SCRTR34	CGTCGTTCAAGGTCAGGAT
SCRTF35	GAAGCCTCGTCCAAGAAA
SCRTR35	AGGATATTGGTCTGGAAC
SCRTF37	GTTGTTCTTGTGCTCTTG
SCRTR37	CGGTGGCGATGACCTGATA
SCRTF38	CATTTCCACGGTGTGTTC
SCRTR38	GCATGACGATGCGTGTGA
SCRTF39	CCAATATCCTGGCCTTGAATG
SCRTR39	AGTCGTCGATCAGGTGCTT
SCRTF40	GACATGATGAATGCGAAT
SCRTR40	CTGCTTGATGGATGCGAT
SCRTF55	GAACGGTCTTTGCCAGAT
SCRTR55	CTTCCAGCACTTCGACGAAAT
SCRTF56	ACCGTGACGAAATCCAGA
SCRTR56	TCGCGGAAGAAGTAGGTT
SCRTF57	TGTTGGGCGAAGACCATT
SCRTR57	TGAGTTCCAGCACCAGAT
SCRTF58	CATGGTGAGGTGCATCAA
SCRTR58	GTGCGATCTCCAGCACTT
SCRTF59	GTGTCAGTCAGATCAATACC
SCRTR59	CCTGTGCGCTCATTTCTT
SCRTF	AAGTCGGTGGTGGAAAAG
SCRTR	CCGTGGTCCATCGCATTG
SCRTF74	ACCAATACGGTGGAAGTG
SCRTR74	TATCGGCGAGCGAAATGGTT
SCRTF75	CAAGTAATCAACACCAACGTAA
SCRTR75	GACGAAAGCTGCTGGATG

SCRTF84	GTGGAACGCATCGTCAATA
SCRTR84	CACCGCCGTCAAATAAGT
SCRTF2623	ACCATGTGGTGGAAATGACC
SCRTR2623	TGAGGTCCTGGTAGCTCTGC
SCRTF2624	ATGAGTGCTGTTCCAGACGATA
SCRTR2624	GGCCTGCAGATAATCCAGCGA
16S Xoo RT F	GGGAATTGCAGTGGATAC
16S Xoo RT R	CTGATGTTCCTCCCGATCTCT
SCRTF75	CAAGTAATCAACACCAACGTAA
SCRTR75	GACGAAAGCTGCTGGATG
SCRTF82	GAAGAGCTGGCCGATAAC
SCRTR82	CGTCCCACATCGTGCTTT
SCV XOO 0309F	CGATTTCATTGCCGAGCTGG
SCV XOO 0309R	AGGTGGATAACGCATCGGAC
SCV XOO2699 RT F	TGTCACGCTATGGATCGACG
SCV XOO2699 RT R	GCTCAGGCCTTTAGTGACGT
16S Xoo RT F	GGGAATTGCAGTGGATAC
16S Xoo RT R	CTGATGTTCCTCCCGATCTCT
SCRTF5	GCAATTTCGCTATACACAC
SCRTR5	ATTGGGATGCCAGCTACA
SCRTF121	CAGTCTGATCGGTGTGGA
SCRTR121	CCGCATTTTCGCCGATGA
SCRTF54	CGGATACCTCACCGAAAA
SCRTR54	CACACGCAGATTGCTGAT
SCV XOO0897 RT F	CGTCGTTCGGAAGACTCCAA
SCV XOO0897 RT F	GGCTGCGAGGCATAGGTATT
SCRTF103	CGCTGAAGCACGAATACA
SCRTR103	ATATCTGCCAGCGTCACG