**S1 Table. Primers used in this study.**

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| --- | --- | --- |
| Primer Name Sequence Description\* | | |
| AR01\_VC0303-P1 | AACTTATGCTGTGGCCCTGT | In-frame deletion of *crbS* in SIO via SOE PCR |
| AR02\_VC0303-P2 | **TAACGAGCGGCCGCA**AAACAGCACGCCGAGATAC | In-frame deletion of *crbS* in SIO via SOE PCR; tag in bold |
| AR03\_VC0303-P3 | **TGCGGCCGCTCGTTA**CCCATTAAGCCCCTCAAAC | In-frame deletion of *crbS* in SIO via SOE PCR; tag in bold |
| AR04\_VC0303-P4 | TTGGCTGGAATGTGTGTGTT | In-frame deletion of *crbS* in SIO via SOE PCR |
| PT47\_acs\_prom\_P1b | GACAACTAGTTTATTGGCAATCGTCCCTTG | Amplification of a 660-bp fragment of the *Acs* promoter, forward, SpeI |
| PT49\_acs\_prom\_P2 | CATTGGATCCAATCCAGTCGACGATTTTGC | Amplification of a 660-bp fragment of the *Acs* promoter, reverse, BamHI |
| PT50\_pBBR\_F | AATTTCCATTCGCCATTCAG | Amplification of a 488-bp fragment surrounding the SpeI/BamHI cloning sites in pBBR*lux* plasmid, forward |
| PT51\_pBBR\_R | TTTTCCATCTTTGCCCTACC | Amplification of a 488-bp fragment surrounding the SpeI/BamHI cloning sites in pBBR*lux* plasmid, reverse |
| MMS13\_acs\_GP1 | ACTCACTATAGGGCCCCCCCCGGCTACCACATTCGTTACG | In-frame deletion of *acs* in SIO via Gibson cloning |
| MMS14\_acs\_GP2 | GGCAATCAGGCGGTCAACCGG ATAAATATGGGCTTCAC | In-frame deletion of *acs* in SIO via Gibson cloning |
| MMS15\_acs\_GP3 | GTGAAGCCCATATTTATCCGGTTGACCGCCTGATTGCC | In-frame deletion of *acs* in SIO via Gibson cloning |
| MMS16\_acs\_GP4 | GGCGGCCGCTCTAGAACGCGG TTAGATTGCAGATGT | In-frame deletion of *acs* in SIO via Gibson cloning |
| ED01\_VC2702\_P1 | GACAACTAGTATCTCAGGCTTGGTCTGCTC | In-frame deletion of *crbR* in SIO via SOE PCR, SpeI |
| ED02\_VC2702\_P2 | **TAACGAGCGGCCGCA**GTCCATGACGTCACAGGT | In-frame deletion of *crbR* in SIO via SOE PCR, tag in bold |
| ED03\_VC2702\_P3SIO | **TGCGGCCGCTCGTTA**AAAAACCGCACGCAAGCAGT | In-frame deletion of *crbR* in SIO via SOE PCR, tag in bold |
| ED05\_VC2701\_P4 | CATTGGATCCACCATCGGAATTGATGGAGA | In-frame deletion of *crbR* in SIO via SOE PCR, BamHI |
| PT22\_VC0303RCD\_SIO1 | GGGCCGGGCGATCCGGAAGA | In-frame deletion of *crbS* receiver domain in SIO via SOE PCR |
| PT35\_VC0303RCD\_TP2C | **TCTCAGTTTGAGGGGCTT**CACACGCAGATGTTGCAGCTCTGAACC | In-frame deletion of *crbS* receiver domain in SIO via SOE PCR, tag in bold |
| PT36\_VC0303RCD\_TP3C | **AAGCCCCTCAAACTGAGA**GCCTTACTGAATAGTCTGTC | In-frame deletion of *crbS* receiver domain in SIO via SOE PCR, tag in bold |
| PT25\_VC0303RCD\_4 | GGCTGGAATGTGTGTGTTGG | In-frame deletion of *crbS* receiver domain in SIO via SOE PCR |
| ED80\_VC2702REC\_P1 | GACAACTAGTATCTCAGGCTTGGTCTGCTC | In-frame deletion of *crbR* receiver domain in SIO via SOE PCR, SpeI |
| ED81\_VC2702REC\_P2 | TTGATTGAGCGCGGCAATCAGGGTCGAGTCCATGACGTCACA | In-frame deletion of *crbR* receiver domain in SIO via SOE PCR |
| ED82\_VC2702REC\_P3 | TGTGACGTCATGGACTCGACCCTGATTGCCGCGCTCAATCAA | In-frame deletion of *crbR* receiver domain in SIO via SOE PCR, reverse complement of ED81 |
| ED83\_VC2702REC\_P4 | CATTGGATCCTTATGGTGTCGTTGGTGGTG | In-frame deletion of *crbR* receiver domain in SIO via SOE PCR, BamHI |
| AEP234\_CrbS\_H798\_P1 | GACAACTAGTGGTGTGTCTTTGGTGACACG | Point mutation of CrbS His-798 to Ala or Gln in SIO via SOE PCR, SpeI |
| AEP235\_CrbS\_H798A\_P2 | GGCTGCATCAAATCcgcACTGACCGCCGCC | Point mutation of CrbS His-798 to Ala in SIO via SOE PCR |
| AEP236\_CrbS\_H798A\_P3 | GGCGGCGGTCAGTgcgGATTTGATGCAGCC | Point mutation of CrbS His-798 to Ala in SIO via SOE PCR |
| AEP237\_CrbS\_H798\_P4 | CATTGAGCTCCAAACGCAAGCGACACTG | Point mutation of CrbS His-798 to Ala or Gln in SIO via SOE PCR, SacI |
| AEP238\_CrbS\_H798Q\_P2 | GGCTGCATCAAATCttgACTGACCGCCGCC | Point mutation of CrbS His-798 to Gln in SIO via SOE PCR |
| AEP239\_CrbS\_H798Q\_P3 | GGCGGCGGTCAGTcaaGATTTGATGCAGCC | Point mutation of CrbS His-798 to Gln in SIO via SOE PCR |
| AEP233\_CrbS\_HisInt | CATTGGATCCcgaaacgcattagtcaggaa | Sequencing of H798 mutations in SIO genome |
| AEP240\_CrbS\_D1081A\_P1 | GACAACTAGTACGTTCTGAGCGCGAATC | Point mutation of CrbS Asp-1081 to Ala in SIO via SOE PCR, SpeI |
| AEP241\_CrbS\_D1081A\_P2 | CGTTATCCAAGCGGTAcgcAGACAAAATCACATC | Point mutation of CrbS Asp-1081 to Ala in SIO via SOE PCR |
| AEP242\_CrbS\_D1081A\_P3 | GATGTGATTTTGTCTgcgTACCGCTTGGATAACG | Point mutation of CrbS Asp-1081 to Ala in SIO via SOE PCR |
| AEP243\_CrbS\_D1081A\_P4 | CATTGAGCTCGGTTCAAGACCTACGCCAAG | Point mutation of CrbS Asp-1081 to Ala in SIO via SOE PCR, SacI |
| ED47\_CrbRdelRCD\_intR | GTTGCAAGTAGGCAGCGTAT | Sequencing of D1081A mutation in SIO genome |
| pPSV\_PSEEN4122\_F1 | ATATGAATTCGAGGAGGATACATATGGCCACATACGAAATCCTGATTG | Cloning *crbR* into the pPSV38 expression vector, EcoRI |
| pPSV\_PSEEN4122\_R1 | ATATAAGCTTTTAGCTGCCCGAAACCGATTC | Cloning *crbR* into the pPSV38 expression vector, HindIII |
| pPSV\_PA3604\_F1 | ATATGAATTCGAGGAGGATACATATGGCTTCTTACGAGATCCTGATCG | Cloning *erdR* into the pPSV38 expression vector, EcoRI |
| pPSV\_PA3604\_R1 | ATATAAGCTTTCAATGAGAAGCGGGAACCGTCTC | Cloning *erdR* into the pPSV38 expression vector, HindIII |
| ΔPSEEN1405\_F1 | ATATAAGCTTGCTTCGCCCAGGTGGCATTG | In-frame deletion of *crbS* in *P. entomophila*, HindIII |
| ΔPSEEN1405\_R2 | TGAGGCGGTTACGACATGCAAACTCCGGAGCAAAAAATAG | In-frame deletion of *crbS* in *P. entomophila* |
| ΔPSEEN1405\_F3 | GCATGTCGTAACCGCCTCATCCGCCAGCGCCCGCTCGA | In-frame deletion of *crbS* in *P. entomophila* |
| ΔPSEEN1405\_R4 | ATATGAATTCGAAAGCTACCAGCAGGAGGC | In-frame deletion of *crbS* in *P. entomophila*, EcoRI |
| ΔPSEEN4122\_F1 | ATATAAGCTTGTTGATGCATGACACCGAAC | In-frame deletion of *crbR* in *P. entomophila,* HindIII |
| ΔPSEEN4122\_R2 | GTTCGGGCACTTAGGCCATCGATCTAGGGATCCTGTTC | In-frame deletion of *crbR* in *P. entomophila* |
| ΔPSEEN4122\_F3 | CGATGGCCTAAGTGCCCGAACGTTCACGCTTTTTTGAC | In-frame deletion of *crbR* in *P. entomophila* |
| ΔPSEEN4122\_R4 | ATATGGTACCCATCCATTGGCCAAGGTCGG | In-frame deletion of *crbR* in *P. entomophila*, KpnI |
| ΔPSEEN3888\_F1 | ATATGGATCCAGGCGGCCCCGGCGATCTTTG | In-frame deletion of *acsA* in *P. entomophila,* BamHI |
| ΔPSEEN3888\_R2 | TCCTCATGCGGCCGCCATCTGTGTTACCTCGGTGTAAT | In-frame deletion of *acsA* in *P. entomophila* |
| ΔPSEEN3888\_F3 | ACACAGATGGCGGCCGCATGAGGAATGTTCGCCGGCAAGG | In-frame deletion of *acsA* in *P. entomophila* |
| ΔPSEEN3888\_R4 | ATATGGTACCGTGATCGACATGGACGACAG | In-frame deletion of *acsA* in *P. entomophila,* KpnI |
| ΔPA3271\_F1 | ATATGGATCCCGGTGATGCTGTAGACGAAGG | In-frame deletion of *mxtR* in *P. aeruginosa,* BamHI |
| ΔPA3271\_R2 | GAGGCCCGCTCACGACATGCGAACTCCGATGATGTCCC | In-frame deletion of *mxtR* in *P. aeruginosa* |
| ΔPA3271\_F3 | CGCATGTCGTGAGCGGGCCTCAGTGACGGCGGATCAGCA | In-frame deletion of *mxtR* in *P. aeruginosa* |
| ΔPA3271\_R4 | ATATGAATTCGCGCCGATCGTGCTCCTGCC | In-frame deletion of *mxtR* in *P. aeruginosa*, EcoRI |
| ΔPA3604\_F1 | ATATAAGCTTCCGGCCTGGACGATGGCGTC | In-frame deletion of *erdR* in *P. aeruginosa,* HindIII |
| ΔPA3604\_R2 | AGCCGTCTCTCAAGCCATGACATGTCCTAGTTTGTTCG | In-frame deletion of *erdR* in *P. aeruginosa* |
| ΔPA3604\_F3 | GTCATGGCTTGAGAGACGGCTTAACGCTTTTTTGACCAG | In-frame deletion of *erdR* in *P. aeruginosa* |
| ΔPA3604\_R4 | ATATGAATTCCAGAGCTGCCATACCAACAAG | In-frame deletion of *erdR* in *P. aeruginosa,* EcoRI |
| ΔPSEEN1405\_REC\_F1 | ATATAAGCTTCACTCCTCCGAACGGCTGTT | In-frame deletion of *crbS* receiver domain in *P. entomophila,* HindIII |
| ΔPSEEN1405\_REC\_R2 | CTGAACCAGGCTCACCTGCAACCCGGCCAGGG | In-frame deletion of *crbS* receiver domain in *P. entomophila* |
| ΔPSEEN1405\_REC\_F3 | GGGTTGCAGGTGAGCCTGGTTCAGTAACCGCC | In-frame deletion of *crbS* Receiver Domain in *P. entomophila* |
| ΔPSEEN1405\_REC\_R4 | ATATGAATTCGCAGCGTTTCGCCCAGACCA | In-frame deletion of *crbS* Receiver Domain in *P. entomophila,* EcoRI |
| ΔPSEEN4122\_REC\_F1 | ATATAAGCTTATACCAAGGTCTGCAGCCAT | In-frame deletion of *crbR* Receiver Domain in *P. entomophila,* HindIII |
| ΔPSEEN4122\_REC\_R2 | GACCTTTTCGAAGATTTCGTATGTGGCCATCGATC | In-frame deletion of *crbR* Receiver Domain in *P. entomophila* |
| ΔPSEEN4122\_REC\_F3 | ACATACGAAATCTTCGAAAAGGTCGATGTATCGGC | In-frame deletion of *crbR* Receiver Domain in *P. entomophila* |
| ΔPSEEN4122\_REC\_R4 | ATATGGTACCCATGCGCCATCACCGCGCCA | In-frame deletion of *crbR* Receiver Domain in *P. entomophila,* KpnI |
| ΔPA2586\_gacA\_F1 | ATATGGATCCCGACCTTGCGTCATTCC | In frame deletion of *gacA*, BamHI |
| ΔPA2586\_gacA\_F2 | AATGCGCGACGAGGTGCAGCGTGTAGATGAGCGCC | In frame deletion of *gacA* |
| ΔPA2586\_gacA\_R3 | CTCATCTACACGCTGCACCTCGTCGCGCATTAGCA | In frame deletion of *gacA* |
| ΔPA2586\_gacA\_R4 | ATATGGTACCGGCGATCGCCGAAACC | In frame deletion of *gacA*, KpnI |
| ΔPA3271\_REC\_F1 | GCGCCTGTACTGGATGCGCC | In-frame deletion of *crbS* Receiver Domain in *P. aeruginosa* |
| ΔPA3271\_REC\_R2 | TCAGCGCAGGCTCACCTGGGCGCCGTTCAGCGCCT | In-frame deletion of *crbS* Receiver Domain in *P. aeruginosa* |
| ΔPA3271\_REC\_F3 | GGCGCCCAGGTGAGCCTGCGCTGAGCGGGCCTCAG | In-frame deletion of *crbS* Receiver Domain in *P. aeruginosa* |
| ΔPA3271\_REC\_R4 | GCCGCGGCGGCCGCCTGGGA | In-frame deletion of *crbS* Receiver Domain in *P. aeruginosa* |
| ΔPA3604\_REC\_F1 | CGCAACCGAAATAGCCGCGC | In-frame deletion of *erdR* Receiver Domain in *P. aeruginosa* |
| ΔPA3604\_REC\_R2 | GGTGTCCCCGTCGATCTCGTAAGAAGCCATGACAT | In-frame deletion of *erdR* Receiver Domain in *P. aeruginosa* |
| ΔPA3604\_REC\_F3 | TCTTACGAGATCGACGGGGACACCTGGTGGCCGCC | In-frame deletion of *erdR* Receiver Domain in *P. aeruginosa* |
| ΔPA3604\_REC\_R4 | TGCTCGCCGCGGCGGGCCTG | In-frame deletion of *erdR* Receiver Domain in *P. aeruginosa* |
| PSEEN3888\_RT\_F1 | AAAGTGGTGATCACTGCCGACGAA | Real time PCR primer for *acsA* in *P. entomophila* |
| PSEEN3888\_RT\_R1 | ATGATCTTCTGCACGCTGCTGGTT | Real time PCR primer for *acsA* in *P. entomophila* |
| PA\_*acsA*\_RT\_F1 | TGGTACGACGACCTGATGAA | Real time PCR primer for *acsA* in *P. entomophila* |
| PA\_*acsA*\_RT\_R1 | CCGGAGGTGTAGAGGATGAA | Real time PCR primer for *acsA* in *P. entomophila* |
| clpX\_RT\_F1 | CGAATGACTGACACCCGTAAT | Real time PCR primer for *clpX* in *P. aeruginosa* and *P. entomophila* |
| clpX\_RT\_R1 | CGCACTCGTCGCAGATAAA | Real time PCR primer for *clpX* in *P. aeruginosa* and *P. entomophila* |
| PA3234\_RT\_F1 | GGCATCCTTCCTGGGTATTT | Real time PCR primer for PA3234 (putative acetate transporter) in *P. aeruginosa* |
| PA3234\_RT\_R1 | ATCATCCTCTTCCTCATCGC | Real time PCR primer for PA3234 (putative acetate transporter) in *P. aeruginosa* |

**\***Restriction sites listed in the description are underlined in the oligonucleotide sequence.

\*\*Nucleotides conferring point mutations are in lower case.