**Supplementary Table 1** List of strains, plasmids, and oligonucleotides used in this work.

|  |  |  |
| --- | --- | --- |
| **Name** | **Description** | **Reference** |
| **Strains** |  |  |
| *Geobacter sulfurreducens* | |  |
| DL1 | Wild type | Caccavo et al., 1994 |
| Δ*csrA* | DL1 with *csrA* mutation | This work |
| DL1/pRG5.1 | Wild type with pRG5.1 vector | This work |
| Δ*csrA*/pRG5.1 | Δ*csrA* with pRG5.1 vector | This work |
| Δ*csrA*/pRG5.1-RRflg-*csrA* | Δ*csrA* with pRG5.1-RRflg-*csrA* vector | This work |
| *Escherichia coli* | |  |
| S17-1 | *recA pro hsdR RP-4-2-Tc::Mu-Km::Tn7* | Simon et al., 1983 |
| DH5α | *F− endA1 glnV44 thi-1 recA1 relA1 gyrA96 deoR nupG purB20* | Invitrogen |
|  |  |  |
| **Plasmids** |  |  |
| pk18mobsacB | Plasmid suicide, for scarless deletions | Simon et al., 1983 |
| pk18mobsacB-csrAdel | pK18mobsacB with the flanking regions of *csrA* gene | This work |
| pRG5.1 | Bacterial expression vector, spectinomycin resistance | Kim et al., 2005 |
| pJET1.2 | Subcloning vector, ampicillin resistance | Thermo |
| pJET-RRflg | pJET1.2 with RRflg fragment | This work |
| pJET-RRflg-*csrA* | pJET-RRflg with *csrA* gene | This work |
| pRG5.1-RRflg-*csrA* | pRG5.1 with RRflg-*csrA* fusion | This work |
|  |  |  |
| **Oligonucleotides** | **5´→3´** |  |
| *for mutant construction* | |  |
| csrAFw1Bam | GACT**GGATCC**CCAGCAGATTCTCCACA | This work |
| csrARv2quim | CGTTATTACTCCTTCCCGTCCCCCCTACGAGAGGTAGTCA | This work |
| csrAFw3quim | TGACTACCTCTCGTAGGGGGGACGGGAAGGAGTAATAACG | This work |
| csrARv4Eco | GCAT**GAATTC**CCCGTCTTTCAGCTTTCATC | This work |
| *for RT-PCR* |  |  |
| fliWrev | TGCTCCCCTCCAGAACGAT | This work |
| flgLfw | ACGGCAAACCTGGTTCTCA | This work |
| flgJfw | ATGCGTACAAGTATGCCGAC | This work |
| csrAFw | AATTCATATGTTAGTACTGACCAG | This work |
| *for cloning* |  |  |
| RRflgEcoRIfw | AATTGAATTCATTCTCCAGGCAATCAAGG | This work |
| RRflgNdeIrev | AATTCATATGATTCACCTATCGGCCAACT | This work |
| csrAFwNdeI | AATT*CATATG*TTAGTACTGACCAG | This work |
| csrAHindIIIrev | AATT*AAGCTT*TTACTCCTTCCCGTC | This work |
|  |  |  |
| *for RT-qPCR* |  |  |
| recA660f | GTGAAGGTGGTCAAGAACAAGGT | Holmes et al., 2006 |
| recA737r | GGAAATGCCCTCACCGTAGTAA | Holmes et al., 2006 |
| qPCRomcHfw | ATGGACGTGAATGGAAGGAG | Hernández-Eligio et al., 2020 |
| qPCRomcHrev | TGGCAGTCAGTACAGGTGGA | Hernández-Eligio et al., 2020 |
| qPCRppcBfw | CCACAAGAAACACCAGACGA | Hernández-Eligio et al., 2020 |
| qPCRppcBrev | CACCCCTTGCAGGACTTG | Hernández-Eligio et al., 2020 |
| qPCRpilAfw | AATTACCCCCATACCCCAAC | Hernández-Eligio et al., 2020 |
| qPCRpilArev | AGCAGCTCGATAAGGGTGAA | Hernández-Eligio et al., 2020 |
| qPCR2822Fw | CTTCCCGACGTCATCATTCT | Andrade et al., 2021 |
| qPCR2822Rev | CATCATAGCAGGCCGTCAG | Andrade et al., 2021 |
| qPCRaroG2fw | CAATGCCCAGAACTTTGCCC | Jaramillo-Rodriguez et al., 2023 |
| qPCRaroG2rv | TCATGACATACTCGGCGCTC | Jaramillo-Rodriguez et al., 2023 |
| qPCRato1fw | CATCGCCAACGCTGTAATCG | Jaramillo-Rodriguez et al., 2023 |
| qPCRato1rv | ATCGAACAGGTCGAGCATGG | Jaramillo-Rodriguez et al., 2023 |
| qPCR0972fw | AACTCACGTCGCTCATGGAC | Jaramillo-Rodriguez et al., 2023 |
| qPCR0972rv | ATGAACACGTCGGAGGGATG | Jaramillo-Rodriguez et al., 2023 |
| qPCR2366fw | TGACACCTTTTCCCCTTCCG | This work |
| qPCR2366rv | ATCCAGATTGATCACCCGGC | This work |
| qPCRGSU3268fw | ATGAACAGGGTGATGGGCAG | This work |
| qPCRGSU3268rv | TTGATCAGGGTCGACTTGCC | This work |
| qPCRGSU3274fw | GGGGAATATGTACCGGCATCT | This work |
| qPCRGSU3274rv | TTCCTTGGTAATGTCGGGCC | This work |
| qPCRGSU2236fw | GAACGCCAGGAACAGAAGGA | This work |
| qPCRGSU2236rv | ACAAGAACATCGTCGACCCC | This work |
| qPCRGSU1944fw | ATTGGCCAAGCATTCTGTCG | This work |
| qPCRGSU1944rv | AATGCGTCGAGATTGAGCCA | This work |
| qPCRGSU3014fw | CATTTCTGGCCGGCTTGTTC | This work |
| qPCRGSU3014rv | GCCCTTCATTGTAGCAACGC | This work |
| qPCRgsu1970fw | GTTTCTGAAGTACGTGGCGC | This work |
| qPCRgsu1970rv | CCTGATCGTTACCTTCGGCA | This work |
| qPCRgsu1963fw | CCCTGAGAGACCACGGTTTC | This work |
| qPCRgsu1963rv | CCCGAGAAAACCGACCAGTT | This work |
| qPCRgsu0470fw | GCGAGCCGTGATGATGACTA | This work |
| qPCRgsu0470rv | CAGGGGCTTGGTGAGGAAAT | This work |
| FwGSU1554 | TCGTCAGTTGAAGGATGTGG | This work |
| RevGSU1554 | TGAACATGATATCGGCATGG | This work |
| FwGSU2044 | ATTTCCGACGTGAAAGATGC | This work |
| RevGSU2044 | ATGCTCGTGGTGATGAACAA | This work |
| qPCRGSU0018fw | CTCCTACGATATGCCACCCG | This work |
| qPCRGSU0018rv | GAGGTGGTCACGATCTGGTC | This work |
| qPCRGSU3409fw | GGGTTCCTCGCTCCTCTTTT | This work |
| qPCRGSU3409rv | AAAAGCCCCTTCAGCATCGA | This work |
| qPCRGSU3410fw | TCTTGGGAGCGTAACATCGG | This work |
| qPCRGSU3410rv | ACGATGATCAGTGCGCAGAA | This work |
| qPCRGSU0597fw | CATTCGGCGCACTGATCATC | This work |
| qPCRGSU0597rv | CGATGTTCCGGTGGCGATAT | This work |

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