

Table S3. Predicted binding sites of the global regulator ModE in the genome of *G. sulfurreducens*, which are mostly absent from the *G. metallireducens* genome.

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| | protein, threonine aldolase), possibly also GSU3406, GSU3405, GSU3404 (amino acid transporter) | |
| CGTTACACAAATACGCATATAGTGATA CCTTAACAACCCCGTCAAGGGGTGGTA | 5' of GSU2429 (peptidyl-prolyl <i>cis-trans</i> isomerase) | Site not detected by ScanAce 5' of Gmet_0815 (GSU2429 homolog), 44% conserved |
| TGTCAATGTCAAAATGTATTGCTAATA | 5' of GSU2150.1 (conserved hypothetical protein) | Homologous gene absent |
| CGTCGCTGTAAACAAACAAAACAGAACG TTTGCTTGTAAATCACCATCACAAAACG | 5' of GSU0490 (succinyl:acetate CoA-transferase) | Site not detected by ScanAce 5' of Gmet_3044 (GSU0490 homolog), 63% conserved |
| ATTGGTTATATTCCAGGCTTATAACC | Within GSU1945 (fibronectin type III domain protein) | Homologous gene absent |
| AAGCCTGGTATTGATATCTCCATAACC GAAACGGGGATCGATATGCCATTACC | Within GSU0660 (4-diphosphocytidyl-2C-methyl-D-erythritol kinase) | Site not detected by ScanAce within Gmet_2849 (GSU0660 homolog), 70% conserved |
| AGGCGCAGTAAACATTATTGAATGTCA | 5' of GSU3406, GSU3405, GSU3404 (amino acid transporter), possibly also GSU3407, GSU3408 (membrane protein, threonine aldolase) | Homologous genes absent |
| ATACAAAATAATATTAAAGTGATAGTG | Within GSU2395 (conserved hypothetical protein) | Homologous gene absent |
| ATATATATACAAAATTATATATTGCGT ATATATATAATTCAATATTTACGT | 5' of GSU0391, GSU0392, GSU0393, GSU0394, GSU0395 (efflux pump), maybe more | Genes present (except GSU0393) as Gmet_3129, Gmet_3128, Gmet_3127, Gmet_3126, maybe more; site not detected by ScanAce, 74% conserved |