**Supplementary File 2: Differentially regulated genes between UW Δ*mlaF* and WT**

|  |  |  |  |
| --- | --- | --- | --- |
| **Locus** | **Fold-Change** | **FDR p-value** | **Annotation** |
| A1S\_3103 | -7.9 | 0 | *mlaF* |
| A1S\_1147 | -6.21 | 0.02 | Hypothetical protein |
| A1S\_3102 | -4.63 | 0 | *mlaE* |
| A1S\_0067 | -3.94 | 0 | L-Lactate Permease |
| A1S\_3568 | -3.91 | 0 | Hypothetical protein |
| A1S\_0371 | -3.8 | 0 | Hypothetical protein |
| A1S\_0683 | -3.73 | 0 | *raiA* |
| A1S\_1932 | -3.68 | 0 | Hypothetical protein |
| A1S\_3564 | -3.62 | 0 | Hypothetical protein |
| A1S\_0070 | -3.49 | 0 | D-lactate dehydrogenase |
| A1S\_3580 | -3.39 | 0 | Hypothetical protein |
| A1S\_2230 | -3.33 | 0 | Hypothetical protein |
| A1S\_0069 | -3.26 | 0 | L-lactate dehydrogenase |
| A1S\_0800 | -3.19 | 0 | Bacterioferritin |
| A1S\_3797 | -3.07 | 0 | Hypothetical protein |
| A1S\_3175 | -3.05 | 0 | Bacterioferritin |
| A1S\_1950 | -2.94 | 0 | Hypothetical protein |
| A1S\_2809 | -2.88 | 0 | *ecnB* |
| A1S\_3641 | -2.87 | 0 | Hypothetical protein |
| A1S\_3661 | -2.79 | 0 | Hypothetical protein |
| A1S\_1224 | -2.7 | 0 | Transposase |
| A1S\_0068 | -2.67 | 0 | L-Lactate Utilization Repressor |
| A1S\_2183 | -2.62 | 0 | Hypothetical protein |
| A1S\_2093 | -2.62 | 0 | Hypothetical protein |
| A1S\_3658 | -2.55 | 1.97E-12 | Hypothetical protein |
| A1S\_3099 | -2.54 | 0 | *mlaB* |
| A1S\_3750 | -2.53 | 0 | Hypothetical protein |
| A1S\_1680 | -2.51 | 0 | Hypothetical protein |
| A1S\_3350 | -2.5 | 0 | Hypothetical protein |
| A1S\_3024 | -2.48 | 0 | Hypothetical protein |
| A1S\_0445 | -2.47 | 0 | Hypothetical protein |
| A1S\_1687 | -2.45 | 0 | Hypothetical protein |
| A1S\_2654 | -2.44 | 0 | Hypothetical protein |
| A1S\_3864 | -2.4 | 0 | Hypothetical protein |
| A1S\_3629 | -2.39 | 0 | Hypothetical protein |
| A1S\_3101 | -2.35 | 0 | *mlaC* |
| A1S\_3679 | -2.35 | 0 | Hypothetical protein |
| A1S\_3146 | -2.3 | 0 | Hypothetical protein |
| A1S\_2330 | -2.27 | 0 | Hypothetical protein |
| A1S\_1925 | -2.27 | 0 | *cydB* |
| A1S\_0771 | -2.25 | 0 | Hypothetical protein |
| A1S\_1926 | -2.25 | 0 | Hypothetical protein |
| A1S\_2414 | -2.24 | 0 | Hypothetical protein |
| A1S\_2331 | -2.22 | 0 | *fadE* |
| A1S\_2961 | -2.18 | 0 | Hypothetical protein |
| A1S\_0779 | -2.16 | 0 | Hypothetical protein |
| A1S\_2939 | -2.09 | 0 | *actP* |
| A1S\_1433 | -2.06 | 0 | *cydB* |
| A1S\_1522 | -2.06 | 0 | Hypothetical protein |
| A1S\_3298 | -2.05 | 0 | Hypothetical protein |
| A1S\_0372 | -2.04 | 0 | Hypothetical protein |
| A1S\_1042 | -2.04 | 0 | Hypothetical protein |
| A1S\_3914 | -2.03 | 0 | Hypothetical protein |
| A1S\_3532 | 2.0 | 0 | Hypothetical protein |
| A1S\_1466 | 2.03 | 0 | *aspQ* |
| A1S\_3553 | 2.05 | 0 | Hypothetical protein |
| A1S\_0087 | 2.08 | 0 | Hypothetical protein |
| A1S\_1366 | 2.12 | 0 | Hypothetical protein |
| A1S\_3719 | 2.18 | 0 | Hypothetical protein |
| A1S\_0641 | 2.2 | 0 | Hypothetical protein |
| A1S\_3545 | 2.21 | 0 | Hypothetical protein |
| A1S\_3522 | 2.23 | 0 | Hypothetical protein |
| A1S\_3402 | 2.24 | 0 | Hypothetical protein |
| A1S\_3273 | 2.26 | 0 | Hypothetical protein |
| A1S\_3657 | 2.26 | 1.79E-9 | Hypothetical protein |
| A1S\_0650 | 2.29 | 0 | Hypothetical protein |
| A1S\_3523 | 2.4 | 0 | Hypothetical protein |
| A1S\_0630 | 2.42 | 0 | Hypothetical protein |
| A1S\_3691 | 2.42 | 0.01 | Hypothetical protein |
| A1S\_0633 | 2.45 | 0 | Hypothetical protein |
| A1S\_0631 | 2.51 | 0 | Hypothetical protein |
| A1S\_3174 | 2.54 | 0 | Hypothetical protein |
| A1S\_3544 | 2.55 | 0 | Hypothetical protein |
| A1S\_3656 | 2.59 | 0 | Hypothetical protein |
| A1S\_0643 | 2.62 | 0 | Hypothetical protein |
| A1S\_3534 | 2.68 | 0 | Hypothetical protein |
| A1S\_0526 | 2.7 | 0 | Hypothetical protein |
| A1S\_0640 | 2.71 | 0 | Hypothetical protein |
| A1S\_0647 | 2.73 | 0 | *icmO* |
| A1S\_0646 | 2.8 | 0 | *icmB* |
| A1S\_2162 | 2.86 | 0 | *ycdS* |
| A1S\_3908 | 2.9 | 0 | Hypothetical protein |
| A1S\_0642 | 2.97 | 0 | Hypothetical protein |
| A1S\_3543 | 3.02 | 0 | Hypothetical protein |
| A1S\_3512 | 3.04 | 0.01 | Hypothetical protein |
| A1S\_3542 | 3.09 | 0 | Hypothetical protein |
| A1S\_3591 | 3.34 | 0 | Hypothetical protein |
| A1S\_3541 | 3.41 | 0 | Hypothetical protein |
| A1S\_3546 | 3.44 | 0 | Hypothetical protein |
| A1S\_0644 | 3.5 | 0 | Hypothetical protein |
| A1S\_3552 | 3.69 | 0 | Hypothetical protein |
| A1S\_3907 | 3.73 | 2.02E-4 | Hypothetical protein |
| A1S\_3539 | 3.76 | 0 | Hypothetical protein |
| A1S\_3540 | 3.8 | 0 | Hypothetical protein |
| A1S\_3535 | 3.83 | 0 | Hypothetical protein |
| A1S\_0645 | 3.9 | 0 | Hypothetical protein |
| A1S\_2213 | 6.17 | 0 | *csuE* |
| A1S\_2214 | 6.49 | 0 | *csuD* |
| A1S\_3796 | 7.17 | 0 | Hypothetical protein |
| A1S\_2215 | 7.39 | 0 | *csuC* |
| A1S\_2217 | 8.3 | 0 | *csuA* |
| A1S\_2216 | 8.63 | 0 | *csuB* |
| A1S\_2218 | 8.94 | 0 | *csuA/B* |