

Dataset S2

| sample_ID | bac_FLD | fun_FLD | genotype | background |
|-----------|---------|---------|---------------|---------------|
| 18 | FLD0004 | FLD0196 | Empty_control | Empty_control |
| 42 | FLD0046 | FLD0238 | Empty_control | Empty_control |
| 84 | FLD0027 | FLD0219 | Empty_control | Empty_control |
| 100 | FLD0130 | FLD0322 | Empty_control | Empty_control |
| H2OA | FLD0052 | FLD0244 | PCR_control | PCR_control |
| H2OB | FLD0146 | FLD0338 | PCR_control | PCR_control |
| 2 | FLD0113 | FLD0305 | bx1 | W22 |
| 5 | FLD0043 | FLD0235 | bx1 | W22 |
| 6 | FLD0140 | FLD0332 | bx1 | W22 |
| 8 | FLD0098 | FLD0290 | WT | W22 |
| 9 | FLD0126 | FLD0318 | WT | W22 |
| 10 | FLD0139 | FLD0331 | WT | W22 |
| 11 | FLD0041 | FLD0233 | bx1 | W22 |
| 13 | FLD0104 | FLD0296 | bx1 | W22 |
| 14 | FLD0017 | FLD0209 | WT | W22 |
| 15 | FLD0021 | FLD0213 | WT | W22 |
| 19 | FLD0097 | FLD0289 | bx1 | W22 |
| 23 | FLD0117 | FLD0309 | WT | W22 |
| 26 | FLD0008 | FLD0200 | bx1 | W22 |
| 27 | FLD0034 | FLD0226 | bx1 | W22 |
| 28 | FLD0014 | FLD0206 | WT | W22 |
| 29 | FLD0045 | FLD0237 | WT | W22 |
| 30 | FLD0119 | FLD0311 | bx1 | W22 |
| 44 | FLD0124 | FLD0316 | bx1 | W22 |
| 45 | FLD0102 | FLD0294 | WT | W22 |
| 46 | FLD0135 | FLD0327 | WT | W22 |
| 47 | FLD0003 | FLD0195 | bx1 | W22 |
| 48 | FLD0033 | FLD0225 | bx1 | W22 |
| 49 | FLD0018 | FLD0210 | WT | W22 |
| 50 | FLD0036 | FLD0228 | WT | W22 |
| 51 | FLD0145 | FLD0337 | bx1 | W22 |
| 52 | FLD0127 | FLD0319 | bx1 | W22 |
| 53 | FLD0105 | FLD0297 | WT | W22 |
| 54 | FLD0129 | FLD0321 | WT | W22 |
| 67 | FLD0031 | FLD0223 | WT | W22 |
| 68 | FLD0009 | FLD0201 | WT | W22 |
| 69 | FLD0010 | FLD0202 | bx1 | W22 |
| 70 | FLD0042 | FLD0234 | bx1 | W22 |
| 71 | FLD0121 | FLD0313 | WT | W22 |
| 72 | FLD0099 | FLD0291 | WT | W22 |

| | | | | |
|----|---------|---------|-----|-----|
| 73 | FLD0103 | FLD0295 | bx1 | W22 |
| 74 | FLD0141 | FLD0333 | bx1 | W22 |
| 75 | FLD0013 | FLD0205 | WT | W22 |
| 81 | FLD0028 | FLD0220 | bx1 | W22 |
| 82 | FLD0016 | FLD0208 | bx1 | W22 |
| 91 | FLD0035 | FLD0227 | WT | W22 |
| 92 | FLD0106 | FLD0298 | WT | W22 |
| 93 | FLD0050 | FLD0242 | WT | W22 |
| 94 | FLD0100 | FLD0292 | WT | W22 |
| 95 | FLD0015 | FLD0207 | WT | W22 |
| 96 | FLD0044 | FLD0236 | bx1 | W22 |
| 97 | FLD0132 | FLD0324 | bx1 | W22 |
| 98 | FLD0029 | FLD0221 | bx1 | W22 |
| 99 | FLD0133 | FLD0325 | bx1 | W22 |

| arsenic | sample_type | replicate | sample_group |
|---------------|---------------|---------------|--------------|
| Empty_control | Empty control | Empty control | 1 |
| Empty_control | Empty control | Empty control | 1 |
| Empty_control | Empty control | Empty control | 1 |
| Empty_control | Empty control | Empty control | 2 |
| PCR_control | PCR control | PCR control | 1 |
| PCR_control | PCR control | PCR control | 2 |
| Oppm | rhizosphere | 10 | 2 |
| Oppm | rhizosphere | 9 | 1 |
| 100ppm | rhizosphere | 10 | 2 |
| 100ppm | rhizosphere | 10 | 2 |
| Oppm | rhizosphere | 8 | 2 |
| Oppm | rhizosphere | 10 | 2 |
| 100ppm | rhizosphere | 9 | 1 |
| 100ppm | rhizosphere | 8 | 2 |
| Oppm | rhizosphere | 9 | 1 |
| 100ppm | rhizosphere | 9 | 1 |
| Oppm | rhizosphere | 8 | 2 |
| 100ppm | rhizosphere | 8 | 2 |
| 100ppm | rhizosphere | 7 | 1 |
| Oppm | rhizosphere | 7 | 1 |
| 100ppm | rhizosphere | 7 | 1 |
| Oppm | rhizosphere | 7 | 1 |
| 100ppm | rhizosphere | 6 | 2 |
| Oppm | rhizosphere | 6 | 2 |
| 100ppm | rhizosphere | 6 | 2 |
| Oppm | rhizosphere | 6 | 2 |
| 100ppm | rhizosphere | 5 | 1 |
| Oppm | rhizosphere | 5 | 1 |
| 100ppm | rhizosphere | 5 | 1 |
| Oppm | rhizosphere | 5 | 1 |
| 100ppm | rhizosphere | 4 | 2 |
| Oppm | rhizosphere | 4 | 2 |
| 100ppm | rhizosphere | 4 | 2 |
| Oppm | rhizosphere | 4 | 2 |
| Oppm | rhizosphere | 3 | 1 |
| 100ppm | rhizosphere | 3 | 1 |
| Oppm | rhizosphere | 3 | 1 |
| 100ppm | rhizosphere | 3 | 1 |
| Oppm | rhizosphere | 2 | 2 |
| 100ppm | rhizosphere | 2 | 2 |

| | | | |
|--------|-------------|----|---|
| 0ppm | rhizosphere | 2 | 2 |
| 100ppm | rhizosphere | 2 | 2 |
| 100ppm | rhizosphere | 1 | 1 |
| 0ppm | rhizosphere | 1 | 1 |
| 100ppm | rhizosphere | 1 | 1 |
| 0ppm | rhizosphere | 11 | 1 |
| 0ppm | rhizosphere | 12 | 2 |
| 100ppm | rhizosphere | 11 | 1 |
| 100ppm | rhizosphere | 12 | 2 |
| 0ppm | rhizosphere | 1 | 1 |
| 0ppm | rhizosphere | 11 | 1 |
| 0ppm | rhizosphere | 12 | 2 |
| 100ppm | rhizosphere | 11 | 1 |
| 100ppm | rhizosphere | 12 | 2 |

