**Table S5. Redox-relevant proteins encoded within the genomes of the pathogenic spirochetes *Treponema pallidum*, *Borrelia burgdorferi* and *L. interrogans* sv. Copenhageni.**

|  |  |  |  |
| --- | --- | --- | --- |
| *Treponema pallidum1* | *Borrelia burgdorferi1* | Protein Family | *Leptospira interrogans*  |
| LIC ID | Gene | DMC3 | IV3 | Fold-change | P-adj4 |
| Yes | No | Peroxiredoxin (AhpC) | **11219** | ***ahpC*** | **859.87** | **144.23** | **5.96** | **7.29 x 10-7** |
| No | No | Catalase | 12032 | *katE* | 1363.79 | 761.75 | 1.79 | 0.681 |
| Yes | Yes | Thioredoxin reductase (TxrR) | 11470 | *trxB (trxR)* | 43.19 | 67.09 | -1.56 | 0.328 |
| Yes (2)2 | Yes (1)2 | Thioredoxin (2)2 | 11978 | *trxA* | 144.99 | 131.78 | 1.10 | 0.977 |
|  |  |  | 10278 |  | 4.42 | 3.09 | 1.43 | 0.848 |
|  |  | Polyketide synthase (TrxR-like) | **10149** | ***frnE*** | **23.76** | **4.86** | **4.89** | **1.08E-02** |
| No | No | Thiol peroxidase | 12765 | *tpx* | 16.07 | 23.17 | -1.45 | 0.700 |
| No | No | Glutathione peroxidase (2)2 | 12648 | *btuE* | 52.75 | 20.79 | 2.54 | 0.086 |
|  |  |  | 13442 | *gpo* | 50.35 | 17.38 | 2.90 | 0.054 |
| No | No | Glutaredoxin-related protein | 11809 |  | 30.32 | 39.88 | -1.32 | 0.586 |
| No | No | Glutathione S-transferase GST (3)2 | 10807 | *gst-1* | 44.45 | 88.64 | -2.00 | 0.063 |
|  |  |  | 11363 | *gst-2* | 14.27 | 9.50 | 1.50 | 0.640 |
|  |  |  | **12981** | ***gst-3*** | **10.16** | **2.54** | **4.00** | **0.026** |
| No | No | γ-Glutamate-cysteine ligase | 11812 | *gshA* | 36.10 | 51.23 | -1.43 | 0.679 |
| Yes | Yes | DNA-binding stress protein (Dps) | 10606 | *dps* | 63.09 | 48.96 | 1.29 | 0.909 |
| No | No | Cytochrome c peroxidase (3)2 | **12927** |  | **148.91** | **35.23** | **4.23** | **1.04 x 10-5** |
|  |  |  | 11088 |  | 1.49 | 2.41 | -1.61 | 0.740 |
|  |  |  | 10972 |  | 10.47 | 9.42 | 1.11 | 0.987 |
| Yes (1)2 | No | Bacterioferritin | 11310 | *bfr* | 177.82 | 202.40 | -1.14 | 0.848 |
| No | No | Bacterioferritin co-migratory protein (2)2 | 20093 | *bcp-1* | 45.85 | 52.29 | -1.44 | 0.852 |
|  |  |  | 10732 | *bcp-2* | 23.34 | 29.89 | -1.28 | 0.629 |
| No | No | Ferredoxin | 13258 | *fdx* | 6.71 | 9.96 | -1.49 | 0.646 |
| No | No | Bacterioferritin-associated ferredoxin | 13209 |  | 40.00 | 21.81 | 1.83 | 0.185 |
| Yes | No | Superoxide dismutase (SOD) | No |  |  |  |  |  |
| No | Yes | Superoxide reductase | No |  |  |  |  |  |
| No | No | OxyR | No |  |  |  |  |  |
| No | No | SoxR | No |  |  |  |  |  |

1 Based on previously published report by Parsonage *et al.* [67]

2 Value in parentheses indicates number of paralogs identified in the respective genome.

3 Mean values per gene from three biological replicates in either DMC or *in vitro* (IV) conditions (see Table S2).

4 Adjusted P-value (see Table S2).