**STable 8:** Summary of transcriptome comparison of *S. pneumoniae* D39 Δ*tprA* and wild-type grown in CDM plus glucose (Upregulated genes in Δ*tprA*).

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| --- | --- | --- | --- |
| **Gene taga** | **Functionb** | **Ratioc** | **P-value** |
| SPD\_0014 | transcriptional regulator ComX1 | 1.89 | 1.88E-09 |
| SPD\_0094 | hypothetical protein SPD\_0094 | 1.6 | 1.03E-07 |
| SPD\_0382 | trans-2-enoyl-ACP reductase II | 1.65 | 9.75E-10 |
| SPD\_0394 | hypothetical protein SPD\_0394 | 1.7 | 1.02E-08 |
| SPD\_0536 | beta-lactam resistance factor | 1.74 | 2.43E-08 |
| SPD\_0542 | dipeptidase PepV | 1.68 | 3.65E-09 |
| SPD\_0660 | cell division ABC transporter permease FtsX | 1.62 | 7.51E-08 |
| SPD\_0821 | choline binding protein E | 1.67 | 1.53E-07 |
| SPD\_0836 | hypothetical protein SPD\_0836 | 1.76 | 8.17E-08 |
| SPD\_0852 | dihydroorotate dehydrogenase 1B | 1.99 | 8.82E-11 |
| SPD\_0853 | endo-beta-N-acetylglucosaminidase precursor | 1.69 | 8.08E-09 |
| SPD\_0916 | iron-compound ABC transporter permease | 1.69 | 1.65E-07 |
| SPD\_0917 | iron-compound ABC transporter permease | 1.87 | 4.32E-08 |
| SPD\_0931 | hypothetical protein SPD\_0931 | 1.7 | 5.81E-07 |
| SPD\_0959 | hypothetical protein SPD\_0959 | 2.14 | 3.63E-10 |
| SPD\_0978 | hypothetical protein SPD\_0978 | 1.77 | 9.95E-06 |
| SPD\_0979 | aminotransferase, class V | 1.78 | 6.30E-08 |
| SPD\_1062 | DNA repair protein RecN | 1.6 | 1.36E-08 |
| SPD\_1132 | carbamoyl phosphate synthase small subunit | 2.11 | 2.72E-10 |
| SPD\_1133 | aspartate carbamoyltransferase catalytic subunit | 1.62 | 1.14E-08 |
| SPD\_1296 | glutamine amidotransferase subunit PdxT | 1.73 | 3.05E-08 |
| SPD\_1366 | hypothetical protein SPD\_1366 | 1.91 | 5.49E-10 |
| SPD\_1403 | 1,4-beta-N-acetylmuramidase, | 1.77 | 8.29E-10 |
| SPD\_1527 | hypothetical protein SPD\_1527 | 1.65 | 1.91E-07 |
| SPD\_1652 | iron-compound ABC transporter iron-compound-binding protein | 1.88 | 3.44E-08 |
| SPD\_1848 | hypothetical protein SPD\_1848 | 2.08 | 9.68E-10 |
| SPD\_1965 | choline binding protein PcpA | 1.77 | 3.22E-05 |
| SPD\_2024 | ABC transporter ATP-binding protein | 1.76 | 2.18E-09 |

aGene numbers refer to D39 locus tags. bD39 annotation. (Lanie et al., 2007). cRatios >1.5 or <1.5