## Table S1. Genes commonly modulated by the translocase blockage

| Gene* | Annotated function | Regulation | Strain |
|---|---|---|---|
| *Nitrogen/amino acis metabolism* | | | |
| SLI0218 | *narJ2*, nitrate reductase delta chain | Down | *sipY* and s*ecG* mutant |
| SLI0219 | *narI2*, nitrate reductase gamma chain | Down | *sipY* and s*ecG* mutant |
| SLI1454 | Possible amino oxidase | Up | *sipY* and s*ecG* mutant |
| SLI1498 | *aroE*, shikimate 5-dehydrogenase | Down | *sipY* and s*ecG* mutant |
| SLI3073 | *hutU*, urocanate hydratase | Up | *secG* and *lsp* mutant |
| *Oxidative stress/osmotic stress* | | | |
| SLI1866 | Putative condensing enzyme | Up | *sipY* and *lsp* mutant |
| SLI5254 | *sodN*, superoxide dismutase | Down | *sipY* and *lsp* mutant |
| *Membrane/transport protein* | | | |
| SLI5123 | Putative small membrane protein | Down | *sipY* and *lsp* mutant |
| *Morphological differentiation* | | | |
| SLI0381 | Possible glycosyl transferase | Down | *sipY* and s*ecG* mutant |
| SLI0382 | Probable UDP-glucose/GDP-mannose | Down | *sipY* and s*ecG* mutant |
| | family dehydrogenase (putative secreted | | *sipY* and s*ecG* mutant |
| | protein) | | |
| SLI0383 | Hypothetical protein (possible target for | Down | *sipY* and s*ecG* mutant |
| | *bldA* regulation) | | |
| SLI0392 | Possible methyltransferase similar to *S.* | Down | *sipY* and s*ecG* mutant |
| | *peucetis* daunorubicin/ doxorubicin | | |
| | enzyme DnrX | Down | |
| SLI0393 | Possible transferase | Down | *sipY* and s*ecG* mutant |
| SLI0712 | *lipR* putative transcripcional activator | Down | *sipY* and s*ecG* mutant |
| SLI1630 | *cvnA9*, *rarA* putative integral membrane | Down | *sipY* and s*ecG* mutant |
| | protein | | |
| SLI1674 | *chpC*, possible small membrane protein | Down | *sipY* and s*ecG* mutant |
| SLI1675 | *chpH*, possible small membrane protein | Down | *sipY* and s*ecG* mutant |
| SLI1800 | *chpE*, possible small membrane protein | Down | *sipY* and s*ecG* mutant |
| SLI2699 | *chpG*, putative small membrane protein | Down | *sipY* and s*ecG* mutant |
| SLI2705 | *chpF*, possible membrane protein | Down | *sipY* and s*ecG* mutant |
| SLI2717 | *chpD*, putative small membrane protein | Down | *sipY* and s*ecG* mutant |
| SLI3323 | *bldN*, probable RNA polymerase sigma | Down | *sipY* and s*ecG* mutant |
| | factor | | |
| SLI3549 | *bldG*, probable anti-sigma factor | Down | *sipY* and s*ecG* mutant |
| | antagonist | | |
| SLI4768 | *bldM*, probable two-component regulator | Down | *sipY* and s*ecG* mutant |
| SLI5113 | *bldKB*, putative ABC transport system | Up | *sipY* and s*ecG* mutant |
| | lipoprotein | | |
| SLI5114 | *bldKC*, putative ABC transport system | Up | *sipY* and s*ecG* mutant |
| | integral membrane protein | | *sipY* and s*ecG* mutant |
| *Glicerol metabolism and glycolysis* | | | |
| SLI1659 | *glpF*, probable glycerol uptake facilitator | Up | *sipY* and s*ecG* mutant |
| | protein | | |
| SLI1660 | *glpK*, glycerol kinase | Up | *sipY* and s*ecG* mutant |
| *Secondary metabolites* | | | |
| SLI6073 | *geoA*, possible cyclase germacradienol/ | Down | *sipY* and *secG* mutant |
| | geosmin synthase | | |
| *Secreted proteins* | | | |
| SLI0297 | Possible secreted protein | Down | *sipY, secG, lsp* mutant |
| SLI0736 | Possible secreted protein | Down | *secG* and *lsp* mutant |
| SLI0762 | *sti1*, protease inhibitor | Down | *sipY, secG, lsp* mutant |
| SLI1860 | Possible secreted protein | Down | *sipY, secG, lsp* mutant |

| | | | |
|---|---|---|---|
| SLI2116 | Possible secreted protein | Down | *secG* and *lsp* mutant |
| SLI6197 | Possible secreted protein | Down | *sipY* and *lsp* mutant |
| SLI6198 | Possible secreted protein | Down | *sipY* and *lsp* mutant |
| SLI7657 | Possible secreted protein | Down | *sipY, secG, lsp* mutant |
| *Other genes* | | | |
| SLI0682 | Hypothetical protein | Down | *sipY* and s*ecG* mutant |
| SLI2822 | cvnD12, posible conserverd ATP/GTP- | Down | *sipY* and *lsp* mutant |
| | binding protein | | |
| SLI6393 | Probable transposase IS21/IS1162 family | Down | *sipY* and s*ecG* mutant |
| SLI7658 | Hypothetical protein | Down | *sipY* and *lsp* mutant |

*Genes names are as appeared in references [64,73].