| Category | Virulence factors | Related genes | *P. aeruginosa* | | | | *P. fluorescens* | | | | | | *P. syringae* | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LESB58 | PA7 | PAO1 | UCBPP-PA14 | Pf-5 | Pf0-1 | SBW25 | CPM15 | ML11A | A506 | 1448A | B728a | DC3000 |
| Adherence | Flagella | *flgB* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Flagella | *flgC* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Flagella | *flgD* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Flagella | *flgE* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Flagella | *flgF* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Flagella | *flgG* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Flagella | *flgH* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Flagella | *flgI* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Flagella | *flgJ* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Flagella | *flgK* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 |
| Adherence | Flagella | *flgL* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 |
| Adherence | Flagella | *fliC* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | 1 | 1 |
| Adherence | Flagella | *flaG* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 |
| Adherence | Flagella | *fliD* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 |
| Adherence | Flagella | *fliS* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Flagella | *fliT* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 |
| Adherence | Flagella | *fleQ* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Flagella | *fleS* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Flagella | *fleR* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Flagella | *fliE* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Flagella | *fliF* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Flagella | *fliG* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Flagella | *fliH* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Flagella | *fliI* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Flagella | *fliJ* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Flagella | *fliK* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 |
| Adherence | Flagella | *fliL* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Flagella | *fliM* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Flagella | *fliN* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Flagella | *fliO* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 |
| Adherence | Flagella | *fliP* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Flagella | *fliQ* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Flagella | *fliR* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Flagella | *flhB* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Flagella | *flhA* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Flagella | *flhF* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Flagella | *fleN* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Flagella | *fliA* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 |
| Adherence | Flagella | *flgA* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 |
| Adherence | Flagella | *flgM* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 |
| Adherence | Flagella | *flgN* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Flagella | *motB* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Flagella | *motA* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Flagella | *motC* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Flagella | *motD* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Flagella | *motY* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | LPS O-antigen (P. aeruginosa) | *n/a* | 1 | 1 | 1 | 1 | | | | | | | | | |
| Adherence | Type IV pili biosynthesis | *pilA* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 |
| Adherence | Type IV pili biosynthesis | *pilB* | 1 | 1 | 1 | 1 | | 1 | | | | | 1 | 1 | 1 |
| Adherence | Type IV pili biosynthesis | *pilC* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Type IV pili biosynthesis | *pilD* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 |
| Adherence | Type IV pili biosynthesis | *pilE* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 |
| Adherence | Type IV pili biosynthesis | *pilF* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Type IV pili biosynthesis | *pilM* | 1 | 1 | 1 | 1 | 1 | 1 | | | | | 1 | 1 | 1 |
| Adherence | Type IV pili biosynthesis | *pilN* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | 1 | 1 |
| Adherence | Type IV pili biosynthesis | *pilO* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 |
| Adherence | Type IV pili biosynthesis | *pilP* | 1 | 1 | 1 | 1 | 1 | 1 | | | | | 1 | 1 | 1 |
| Adherence | Type IV pili biosynthesis | *pilQ* | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Type IV pili biosynthesis | *pilT* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 |
| Adherence | Type IV pili biosynthesis | *pilU* | 1 | 1 | 1 | 1 | | 1 | | | | | 1 | 1 | 1 |
| Adherence | Type IV pili biosynthesis | *pilV* | 1 | 1 | 1 | | | 1 | 1 | | | | | | |
| Adherence | Type IV pili biosynthesis | *pilW* | 1 | 1 | 1 | 1 | | 1 | 1 | | | | | | |
| Adherence | Type IV pili biosynthesis | *pilX* | 1 | 1 | 1 | 1 | | 1 | 1 | | | | | | |
| Adherence | Type IV pili biosynthesis | *pilY1* | 1 | 1 | 1 | 1 | 1 | 1 | | | | | 1 | 1 | 1 |
| Adherence | Type IV pili biosynthesis | *pilY2* | 1 | 1 | 1 | | | | | | | | | | |
| Adherence | Type IV pili biosynthesis | *pilZ* | 1 | 1 | 1 | 1 | | 1 | | | | | | 1 | 1 |
| Adherence | Type IV pili biosynthesis | *fimT* | 1 | 1 | 1 | | | | | | | | | | |
| Adherence | Type IV pili biosynthesis | *fimU* | 1 | 1 | 1 | 1 | | 1 | | | | | 1 | 1 | 1 |
| Adherence | Type IV pili biosynthesis | *fimV* | 1 | 1 | 1 | 1 | 1 | 1 | | | | | 1 | 1 | 1 |
| Adherence | Type IV pili biosynthesis | *pilR* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | | 1 | 1 | 1 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adherence | Type IV pili biosynthesis | *pilS* | 1 | 1 | 1 | 1 | | 1 | | | | | 1 | 1 | 1 |
| Adherence | Type IV pili twitching motility related proteins | *pilG* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 |
| Adherence | Type IV pili twitching motility related proteins | *pilH* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Type IV pili twitching motility related proteins | *pilI* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Type IV pili twitching motility related proteins | *pilJ* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Type IV pili twitching motility related proteins | *pilK* | 1 | 1 | 1 | 1 | | | | | | | | | |
| Adherence | Type IV pili twitching motility related proteins | *chpA* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Type IV pili twitching motility related proteins | *chpB* | 1 | 1 | 1 | 1 | | | | | | | | | |
| Adherence | Type IV pili twitching motility related proteins | *chpC* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 |
| Adherence | Type IV pili twitching motility related proteins | *chpD* | 1 | 1 | 1 | 1 | | | 1 | | | | | | |
| Adherence | Type IV pili twitching motility related proteins | *chpE* | 1 | 1 | 1 | 1 | | | 1 | | | | | | |
| Antimicrobial activity | Phenazines biosynthesis | *phzA1* | 1 | 1 | 1 | 1 | | | | | | | | | |
| Antimicrobial activity | Phenazines biosynthesis | *phzB1* | 1 | 1 | 1 | 1 | | | | | | | | | |
| Antimicrobial activity | Phenazines biosynthesis | *phzC1* | 1 | 1 | 1 | 1 | | | | | | | | | |
| Antimicrobial activity | Phenazines biosynthesis | *phzD1* | 1 | 1 | 1 | 1 | | | | | | | | | |
| Antimicrobial activity | Phenazines biosynthesis | *phzE1* | 1 | 1 | 1 | 1 | | | | | | | | | |
| Antimicrobial activity | Phenazines biosynthesis | *phzF1* | 1 | 1 | 1 | 1 | | | | | | | | | |
| Antimicrobial activity | Phenazines biosynthesis | *phzG1* | 1 | 1 | 1 | 1 | | | | | | | | | |
| Antimicrobial activity | Phenazines biosynthesis | *phzA2* | 1 | 1 | 1 | 1 | | | | | | | | | |
| Antimicrobial activity | Phenazines biosynthesis | *phzB2* | 1 | 1 | 1 | 1 | | | | | | | | | |
| Antimicrobial activity | Phenazines biosynthesis | *phzC2* | 1 | 1 | 1 | 1 | | | | | | | | | |
| Antimicrobial activity | Phenazines biosynthesis | *phzD2* | 1 | 1 | 1 | 1 | | | | | | | | | |
| Antimicrobial activity | Phenazines biosynthesis | *phzE2* | 1 | 1 | 1 | 1 | | | | | | | | | |
| Antimicrobial activity | Phenazines biosynthesis | *phzF2* | 1 | 1 | 1 | 1 | | | | | | | | | |
| Antimicrobial activity | Phenazines biosynthesis | *phzG2* | 1 | 1 | 1 | 1 | | | | | | | | | |
| Antimicrobial activity | Phenazines biosynthesis | *phzM* | 1 | 1 | 1 | 1 | | | | | | | | | |
| Antimicrobial activity | Phenazines biosynthesis | *phzS* | 1 | 1 | 1 | 1 | | | | | | | | | |
| Antimicrobial activity | Phenazines biosynthesis | *phzH* | 1 | | 1 | 1 | | | | | | | | | |
| Antiphagocytosis | Alginate biosynthesis | *algD* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Antiphagocytosis | Alginate biosynthesis | *alg8* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Antiphagocytosis | Alginate biosynthesis | *alg44* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Antiphagocytosis | Alginate biosynthesis | *algK* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 |
| Antiphagocytosis | Alginate biosynthesis | *algE* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Antiphagocytosis | Alginate biosynthesis | *algG* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Antiphagocytosis | Alginate biosynthesis | *algX* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 |
| Antiphagocytosis | Alginate biosynthesis | *algL* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Antiphagocytosis | Alginate biosynthesis | *algI* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Antiphagocytosis | Alginate biosynthesis | *algJ* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Antiphagocytosis | Alginate biosynthesis | *algF* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | 1 | 1 |
| Antiphagocytosis | Alginate biosynthesis | *algA* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Antiphagocytosis | Alginate biosynthesis | *algC* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Antiphagocytosis | Alginate regulation | *algU* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Antiphagocytosis | Alginate regulation | *mucA* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 |
| Antiphagocytosis | Alginate regulation | *mucB* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 |
| Antiphagocytosis | Alginate regulation | *mucC* | 1 | 1 | 1 | 1 | | | | | | | | | |
| Antiphagocytosis | Alginate regulation | *mucD* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Antiphagocytosis | Alginate regulation | *algR* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Antiphagocytosis | Alginate regulation | *algZ* | 1 | 1 | 1 | 1 | | | | | | | 1 | 1 | 1 |
| Antiphagocytosis | Alginate regulation | *algW* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Antiphagocytosis | Alginate regulation | *mucE* | 1 | 1 | 1 | 1 | | | | | | | | | |
| Antiphagocytosis | Alginate regulation | *mucP* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Antiphagocytosis | Alginate regulation | *algP/algR3* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 |
| Antiphagocytosis | Alginate regulation | *algQ* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Biosurfactant | Rhamnolipid biosynthesis | *rhlA* | 1 | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | | | |
| Biosurfactant | Rhamnolipid biosynthesis | *rhlB* | 1 | 1 | 1 | 1 | | | | | 1 | 1 | | | |
| Biosurfactant | Rhamnolipid biosynthesis | *rhlC* | 1 | | 1 | 1 | | | | | | | | | |
| Iron uptake | Achromobactin biosynthesis and transport | *acsA* | | 1 | | | | | | | | | 1 | 1 | |
| Iron uptake | Achromobactin biosynthesis and transport | *acsB* | | 1 | | | | | | | | | 1 | 1 | |
| Iron uptake | Achromobactin biosynthesis and transport | *acsC* | | | | | | | | | | | 1 | 1 | |
| Iron uptake | Achromobactin biosynthesis and transport | *acsD* | | 1 | | | | | | | | | 1 | 1 | |
| Iron uptake | Achromobactin biosynthesis and transport | *cbrD* | | | | | | | | | | | 1 | 1 | |
| Iron uptake | Achromobactin biosynthesis and transport | *cbrB* | | | | | | | | | | | 1 | 1 | |
| Iron uptake | Achromobactin biosynthesis and transport | *cbrC* | | | | | | | | | | | 1 | 1 | |
| Iron uptake | Achromobactin biosynthesis and transport | *cbrA* | | | | | | | | | | | 1 | 1 | |
| Iron uptake | Pyochelin | *pchI* | 1 | 1 | 1 | 1 | 1 | | | | | | | | |
| Iron uptake | Pyochelin | *pchH* | 1 | 1 | 1 | 1 | 1 | | | | | | | | |
| Iron uptake | Pyochelin | *pchG* | 1 | 1 | 1 | 1 | | | | | | | | | |
| Iron uptake | Pyochelin | *pchF* | 1 | 1 | 1 | 1 | 1 | | | | | | | | |
| Iron uptake | Pyochelin | *pchE* | 1 | 1 | 1 | 1 | 1 | | | | | | | | |
| Iron uptake | Pyochelin | *pchR* | 1 | 1 | 1 | 1 | 1 | | | | | | | | |
| Iron uptake | Pyochelin | *pchD* | 1 | 1 | 1 | 1 | 1 | | | | | | | | |
| Iron uptake | Pyochelin | *pchC* | 1 | 1 | 1 | 1 | 1 | | | | | | | | |
| Iron uptake | Pyochelin | *pchB* | 1 | 1 | 1 | 1 | 1 | | | | | | 1 | | 1 |
| Iron uptake | Pyochelin | *pchA* | 1 | 1 | 1 | 1 | 1 | | | | | | 1 | | 1 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Iron uptake | Pyochelin receptor | *fptA* | 1 | 1 | 1 | 1 | 1 | | | | | | | | |
| Iron uptake | Pyoverdine | *pvdQ* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Iron uptake | Pyoverdine | *pvdA* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Iron uptake | Pyoverdine | *pvdP* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| Iron uptake | Pyoverdine | *pvdM* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Iron uptake | Pyoverdine | *pvdN* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Iron uptake | Pyoverdine | *pvdO* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Iron uptake | Pyoverdine | *pvdF* | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | | |
| Iron uptake | Pyoverdine | *pvdE* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Iron uptake | Pyoverdine | *pvdD* | 1 | | 1 | 1 | 1 | | | | | | 1 | 1 | 1 |
| Iron uptake | Pyoverdine | *pvdJ* | 1 | 1 | 1 | 1 | | | 1 | | 1 | 1 | | | |
| Iron uptake | Pyoverdine | *pvdI* | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | | |
| Iron uptake | Pyoverdine | *pvdH* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Iron uptake | Pyoverdine | *pvdL* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Iron uptake | Pyoverdine | *pvdG* | 1 | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Iron uptake | Pyoverdine | *pvdS* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Iron uptake | Pyoverdine | *pvdY* | 1 | 1 | 1 | 1 | 1 | | | | | | | | |
| Iron uptake | Pyoverdine receptor | *fpvA* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Iron uptake | Yersiniabactin | *irp5* | | | | | | | | | | | 1 | | 1 |
| Iron uptake | Yersiniabactin | *irp4* | | | | | | | | | | | 1 | | 1 |
| Iron uptake | Yersiniabactin | *irp3* | | | | | | | | | | | 1 | | 1 |
| Iron uptake | Yersiniabactin | *irp1* | | | | | | | | | | | 1 | | 1 |
| Iron uptake | Yersiniabactin | *irp2* | | | | | | | | | | | 1 | | 1 |
| Iron uptake | Yersiniabactin | *ybtQ* | | | | | | | | | | | 1 | | 1 |
| Iron uptake | Yersiniabactin | *ybtP* | | | | | | | | | | | 1 | | 1 |
| Iron uptake | Yersiniabactin | *fyuA* | | | | | | | | | | | 1 | | 1 |
| Iron uptake | Yersiniabactin | *ybtA* | | | | | | | | | | | 1 | | 1 |
| Lipase | Hemolytic phospholipase C | *plcH* | 1 | 1 | 1 | 1 | | | | | | | | | |
| Lipase | Non-hemolytic phospholipase C | *plcN* | 1 | 1 | 1 | 1 | 1 | | | | | | | | |
| Lipase | Phospholipase C | *plcB* | 1 | 1 | 1 | 1 | | | | | | | | | |
| Lipase | Phospholipase D | *pldA* | | | 1 | 1 | | | | | | | | | |
| Protease | Alkaline protease | *aprA* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 |
| Protease | Elastase | *lasA* | 1 | 1 | 1 | 1 | | | | | | | | | |
| Protease | Elastase | *lasB* | 1 | 1 | 1 | 1 | | | | | | | | | |
| Protease | Protease IV | *prpL* | 1 | 1 | 1 | 1 | | | | | | | | | |
| Quorum sensing systems | Acylhomoserine lactone synthase | *hdtS* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 |
| Quorum sensing systems | N-(3-oxo-dodecanoyl)-L-homoserine lactone QS system | *lasR* | 1 | 1 | 1 | 1 | | | 1 | | | | | | |
| Quorum sensing systems | N-(3-oxo-dodecanoyl)-L-homoserine lactone QS system | *lasI* | 1 | 1 | 1 | 1 | | | | | | | | | |
| Quorum sensing systems | N-(3-oxo-hexanoyl)-Lhomoserine lactone QS system | *ahlR* | | | | | | | | | | | 1 | 1 | 1 |
| Quorum sensing systems | N-(3-oxo-hexanoyl)-Lhomoserine lactone QS system | *ahlI* | | | | | | | | | | | 1 | 1 | 1 |
| Quorum sensing systems | N-(butanoyl)-L-homoserine lactone QS system | *rhlR* | 1 | 1 | 1 | 1 | | | | | | | | | |
| Quorum sensing systems | N-(butanoyl)-L-homoserine lactone QS system | *rhlI* | 1 | 1 | 1 | 1 | | | | | 1 | 1 | | | |
| Regulation | GacS/GacA two-component system | *gacS* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 |
| Regulation | GacS/GacA two-component system | *gacA* | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | 1 | 1 | 1 |
| Secretion system | Harpins, pilus-associated proteins and other candidate TTSS helpers | *hrpA1* | | | | | | | | | | | | | 1 |
| Secretion system | Harpins, pilus-associated proteins and other candidate TTSS helpers | *hrpA2* | | | | | | | | | | | 1 | 1 | |
| Secretion system | Harpins, pilus-associated proteins and other candidate TTSS helpers | *hrpK1* | | | | | | | | | | | 1 | 1 | 1 |
| Secretion system | Harpins, pilus-associated proteins and other candidate TTSS helpers | *hrpW1* | | | | | | | | | | | 1 | 1 | 1 |
| Secretion system | Harpins, pilus-associated proteins and other candidate TTSS helpers | *hrpZ1* | | | | | | | | | | | 1 | 1 | 1 |
| Secretion system | Harpins, pilus-associated proteins and other candidate TTSS helpers | *hopP1* | | | | | | | | | | | | | 1 |
| Secretion system | Hcp secretion island-1 encoded type VI secretion system (H-T6SS) | - | 1 | 1 | 1 | 1 | 1 | | 1 | | | | | 1 | 1 |
| Secretion system | Hcp secretion island-1 encoded type VI secretion system (H-T6SS) | - | 1 | 1 | 1 | 1 | 1 | | 1 | | | | | 1 | 1 |
| Secretion system | Hcp secretion island-1 encoded type VI secretion system (H-T6SS) | - | 1 | 1 | 1 | 1 | 1 | | 1 | | | | | 1 | 1 |
| Secretion system | Hcp secretion island-1 encoded type VI secretion system (H-T6SS) | *ppkA* | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | 1 | 1 |
| Secretion system | Hcp secretion island-1 encoded type VI secretion system (H-T6SS) | *pppA* | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | | |
| Secretion system | Hcp secretion island-1 encoded type VI secretion system (H-T6SS) | - | 1 | 1 | 1 | 1 | 1 | | 1 | | | | | | |
| Secretion system | Hcp secretion island-1 encoded type VI secretion system (H-T6SS) | *icmF1* | 1 | 1 | 1 | 1 | 1 | | 1 | | | | 1 | 1 | |
| Secretion system | Hcp secretion island-1 encoded type VI secretion system (H-T6SS) | - | 1 | 1 | 1 | 1 | 1 | | 1 | | | | | | |
| Secretion system | Hcp secretion island-1 encoded type VI secretion system (H-T6SS) | - | 1 | 1 | 1 | 1 | 1 | | 1 | | | | 1 | 1 | |
| Secretion system | Hcp secretion island-1 encoded type VI secretion system (H-T6SS) | - | 1 | 1 | 1 | 1 | 1 | | 1 | | | | | | |
| Secretion system | Hcp secretion island-1 encoded type VI secretion system (H-T6SS) | *fha1* | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | | |
| Secretion system | Hcp secretion island-1 encoded type VI secretion system (H-T6SS) | - | 1 | 1 | 1 | 1 | 1 | | 1 | | | | | | |
| Secretion system | Hcp secretion island-1 encoded type VI secretion system (H-T6SS) | - | 1 | 1 | 1 | 1 | 1 | | 1 | | | | | | |
| Secretion system | Hcp secretion island-1 encoded type VI secretion system (H-T6SS) | - | 1 | 1 | 1 | 1 | 1 | | 1 | | | | | | |
| Secretion system | Hcp secretion island-1 encoded type VI secretion system (H-T6SS) | *hcp1* | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Secretion system | Hcp secretion island-1 encoded type VI secretion system (H-T6SS) | - | 1 | 1 | 1 | 1 | | | | | | | | | |
| Secretion system | Hcp secretion island-1 encoded type VI secretion system (H-T6SS) | - | 1 | 1 | 1 | 1 | 1 | | 1 | | | | | | |
| Secretion system | Hcp secretion island-1 encoded type VI secretion system (H-T6SS) | - | 1 | 1 | 1 | 1 | 1 | | 1 | | | | 1 | 1 | |
| Secretion system | Hcp secretion island-1 encoded type VI secretion system (H-T6SS) | - | 1 | 1 | 1 | 1 | 1 | | 1 | | | | 1 | 1 | |
| Secretion system | Hcp secretion island-1 encoded type VI secretion system (H-T6SS) | *clpV1* | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | |
| Secretion system | Hcp secretion island-1 encoded type VI secretion system (H-T6SS) | *vgrG1* | 1 | 1 | 1 | 1 | 1 | | 1 | | | | | | |
| Secretion system | P. aeruginosa TTSS | *pscU* | 1 | | 1 | 1 | | | | | | | | | |
| Secretion system | P. aeruginosa TTSS | *pscT* | 1 | | 1 | 1 | | | | | | | | | |
| Secretion system | P. aeruginosa TTSS | *pscS* | 1 | | 1 | 1 | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Secretion system | P. aeruginosa TTSS | *pscR* | 1 | | 1 | 1 | | | | | | | | | |
| Secretion system | P. aeruginosa TTSS | *pscQ* | 1 | | 1 | 1 | | | | | | | | | |
| Secretion system | P. aeruginosa TTSS | *pscP* | | | 1 | 1 | | | | | | | | | |
| Secretion system | P. aeruginosa TTSS | *pscO* | 1 | | 1 | 1 | | | | | | | | | |
| Secretion system | P. aeruginosa TTSS | *pscN* | 1 | | 1 | 1 | | | | | 1 | 1 | | | |
| Secretion system | P. aeruginosa TTSS | *popN* | 1 | | 1 | 1 | | | | | | | | | |
| Secretion system | P. aeruginosa TTSS | *pcr1* | 1 | | 1 | 1 | | | | | | | | | |
| Secretion system | P. aeruginosa TTSS | *pcr2* | 1 | | 1 | 1 | | | | | | | | | |
| Secretion system | P. aeruginosa TTSS | *pcr3* | 1 | | 1 | 1 | | | | | | | | | |
| Secretion system | P. aeruginosa TTSS | *pcr4* | 1 | | 1 | 1 | | | | | | | | | |
| Secretion system | P. aeruginosa TTSS | *pcrD* | 1 | | 1 | 1 | | | | | | | | | |
| Secretion system | P. aeruginosa TTSS | *pcrR* | 1 | | 1 | 1 | | | | | | | | | |
| Secretion system | P. aeruginosa TTSS | *pcrG* | 1 | | 1 | 1 | | | | | | | | | |
| Secretion system | P. aeruginosa TTSS | *pcrV* | 1 | | 1 | 1 | | | | | | | | | |
| Secretion system | P. aeruginosa TTSS | *pcrH* | | | 1 | 1 | | | | | | | | | |
| Secretion system | P. aeruginosa TTSS | *popB* | 1 | | 1 | 1 | | | | | | | | | |
| Secretion system | P. aeruginosa TTSS | *popD* | 1 | | 1 | 1 | | | | | | | | | |
| Secretion system | P. aeruginosa TTSS | *exsC* | 1 | | 1 | 1 | | | | | | | | | |
| Secretion system | P. aeruginosa TTSS | *exsE* | | | 1 | 1 | | | | | | | | | |
| Secretion system | P. aeruginosa TTSS | *exsB* | 1 | | 1 | 1 | | | | | | | | | |
| Secretion system | P. aeruginosa TTSS | *exsA* | 1 | | 1 | 1 | | | | | | | | | |
| Secretion system | P. aeruginosa TTSS | *exsD* | 1 | | 1 | 1 | | | | | | | | | |
| Secretion system | P. aeruginosa TTSS | *pscB* | 1 | | 1 | 1 | | | | | | | | | |
| Secretion system | P. aeruginosa TTSS | *pscC* | 1 | | 1 | 1 | | | | | | | | | |
| Secretion system | P. aeruginosa TTSS | *pscD* | 1 | | 1 | 1 | | | | | | | | | |
| Secretion system | P. aeruginosa TTSS | *pscE* | 1 | | 1 | 1 | | | | | | | | | |
| Secretion system | P. aeruginosa TTSS | *pscF* | 1 | | 1 | 1 | | | | | | | | | |
| Secretion system | P. aeruginosa TTSS | *pscG* | 1 | | 1 | 1 | | | | | | | | | |
| Secretion system | P. aeruginosa TTSS | *pscH* | 1 | | 1 | 1 | | | | | | | | | |
| Secretion system | P. aeruginosa TTSS | *pscI* | 1 | | 1 | 1 | | | | | | | | | |
| Secretion system | P. aeruginosa TTSS | *pscJ* | 1 | | 1 | 1 | | | | | | | | | |
| Secretion system | P. aeruginosa TTSS | *pscK* | 1 | | 1 | 1 | | | | | | | | | |
| Secretion system | P. aeruginosa TTSS | *pscL* | 1 | | 1 | 1 | | | | | | | | | |
| Secretion system | P. aeruginosa TTSS translocated effectors | *exoU* | | | | 1 | | | | | 1 | 1 | | | |
| Secretion system | P. aeruginosa TTSS translocated effectors | *exoS* | 1 | | 1 | | | | | | | | | | |
| Secretion system | P. aeruginosa TTSS translocated effectors | *exoT* | 1 | | 1 | 1 | | | | | | | | | |
| Secretion system | P. aeruginosa TTSS translocated effectors | *exoY* | 1 | | 1 | 1 | | | | | | | | | |
| Secretion system | P. syringae TTSS | *hrpR* | | | | | | | | | | | 1 | 1 | 1 |
| Secretion system | P. syringae TTSS | *hrpS* | | | | | | | | | | | 1 | 1 | 1 |
| Secretion system | P. syringae TTSS | *hrpB* | | | | | | | | | | | 1 | 1 | 1 |
| Secretion system | P. syringae TTSS | *hrcJ* | | | | | | | | | | | 1 | 1 | 1 |
| Secretion system | P. syringae TTSS | *hrpD* | | | | | | | | | | | 1 | 1 | 1 |
| Secretion system | P. syringae TTSS | *hrpE* | | | | | | | | | | | 1 | 1 | 1 |
| Secretion system | P. syringae TTSS | *hrpF* | | | | | | | | | | | 1 | 1 | 1 |
| Secretion system | P. syringae TTSS | *hrpG* | | | | | | | | | | | 1 | 1 | 1 |
| Secretion system | P. syringae TTSS | *hrcC* | | | | | | | | | | | 1 | 1 | 1 |
| Secretion system | P. syringae TTSS | *hrpT* | | | | | | | | | | | | 1 | 1 |
| Secretion system | P. syringae TTSS | *hrpV* | | | | | | | | | | | 1 | 1 | 1 |
| Secretion system | P. syringae TTSS | *hrcU* | | | | | | | | | | | 1 | 1 | 1 |
| Secretion system | P. syringae TTSS | *hrcT* | | | | | | | | | | | 1 | 1 | 1 |
| Secretion system | P. syringae TTSS | *hrcS* | | | | | | | | | | | 1 | 1 | 1 |
| Secretion system | P. syringae TTSS | *hrcR* | | | | | | | | | | | 1 | 1 | 1 |
| Secretion system | P. syringae TTSS | *hrcQb* | | | | | | | | | | | 1 | 1 | 1 |
| Secretion system | P. syringae TTSS | *hrcQa* | | | | | | | | | | | 1 | 1 | 1 |
| Secretion system | P. syringae TTSS | *hrpP* | | | | | | | | | | | 1 | 1 | 1 |
| Secretion system | P. syringae TTSS | *hrpO* | | | | | | | | | | | 1 | 1 | 1 |
| Secretion system | P. syringae TTSS | *hrcN* | | | | | | | | | | | 1 | 1 | 1 |
| Secretion system | P. syringae TTSS | *hrpQ* | | | | | | | | | | | 1 | 1 | 1 |
| Secretion system | P. syringae TTSS | *hrcV* | | | | | | | | | | | 1 | 1 | 1 |
| Secretion system | P. syringae TTSS | *hrpJ* | | | | | | | | | | | 1 | 1 | 1 |
| Secretion system | P. syringae TTSS | *hrpL* | | | | | | | | | | | 1 | 1 | 1 |
| Secretion system | P. syringae TTSS | *shcF* | | | | | | | | | | | 1 | | 1 |
| Secretion system | P. syringae TTSS | *shcN* | | | | | | | | | | | | | 1 |
| Secretion system | P. syringae TTSS | *shcM* | | | | | | | | | | | 1 | 1 | 1 |
| Secretion system | P. syringae TTSS | *shcE* | | | | | | | | | | | 1 | 1 | 1 |
| Secretion system | P. syringae TTSS | *shcS2* | | | | | | | | | | | | | 1 |
| Secretion system | P. syringae TTSS | *shcS1* | | | | | | | | | | | | | 1 |
| Secretion system | P. syringae TTSS | *shcV* | | | | | | | | | | | 1 | | 1 |
| Secretion system | P. syringae TTSS | *shcA* | | | | | | | | | | | | | 1 |
| Secretion system | P. syringae TTSS effectors | *avrB2* | | | | | | | | | | | 1 | | |
| Secretion system | P. syringae TTSS effectors | *avrB3* | | | | | | | | | | | | 1 | |
| Secretion system | P. syringae TTSS effectors | *avrB4-1* | | | | | | | | | | | 1 | | |
| Secretion system | P. syringae TTSS effectors | *avrB4-2* | | | | | | | | | | | 1 | | |
| Secretion system | P. syringae TTSS effectors | *avrD1* | | | | | | | | | | | 1 | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Secretion system | P. syringae TTSS effectors | *avrE1* | | | | | | | | | | | 1 | 1 | 1 |
| Secretion system | P. syringae TTSS effectors | *avrPto1* | | | | | | | | | | | | 1 | 1 |
| Secretion system | P. syringae TTSS effectors | *avrRpm1* | | | | | | | | | | | | 1 | |
| Secretion system | P. syringae TTSS effectors | *avrRps4* | | | | | | | | | | | 1 | | |
| Secretion system | P. syringae TTSS effectors | *hopA1* | | | | | | | | | | | | | 1 |
| Secretion system | P. syringae TTSS effectors | *hopB1* | | | | | | | | | | | | | 1 |
| Secretion system | P. syringae TTSS effectors | *hopC1* | | | | | | | | | | | | | 1 |
| Secretion system | P. syringae TTSS effectors | *hopD1* | | | | | | | | | | | 1 | | 1 |
| Secretion system | P. syringae TTSS effectors | *hopD::IS52* | | | | | | | | | | | | | 1 |
| Secretion system | P. syringae TTSS effectors | *hopE1* | | | | | | | | | | | | | 1 |
| Secretion system | P. syringae TTSS effectors | *hopF2* | | | | | | | | | | | | | 1 |
| Secretion system | P. syringae TTSS effectors | *hopF3* | | | | | | | | | | | 1 | | |
| Secretion system | P. syringae TTSS effectors | *hopG1* | | | | | | | | | | | 1 | | 1 |
| Secretion system | P. syringae TTSS effectors | *hopH1* | | | | | | | | | | | | 1 | 1 |
| Secretion system | P. syringae TTSS effectors | *hopI1* | | | | | | | | | | | 1 | 1 | 1 |
| Secretion system | P. syringae TTSS effectors | *hopJ1* | | | | | | | | | | | 1 | 1 | 1 |
| Secretion system | P. syringae TTSS effectors | *hopK1* | | | | | | | | | | | | | 1 |
| Secretion system | P. syringae TTSS effectors | *hopL1* | | | | | | | | | | | | 1 | 1 |
| Secretion system | P. syringae TTSS effectors | *hopM1* | | | | | | | | | | | | 1 | 1 |
| Secretion system | P. syringae TTSS effectors | *hopM1'* | | | | | | | | | | | 1 | | |
| Secretion system | P. syringae TTSS effectors | *hopN1* | | | | | | | | | | | | | 1 |
| Secretion system | P. syringae TTSS effectors | *hopO1-1* | | | | | | | | | | | | | 1 |
| Secretion system | P. syringae TTSS effectors | *hopP1-2* | | | | | | | | | | | | | 1 |
| Secretion system | P. syringae TTSS effectors | *hopO1-3'* | | | | | | | | | | | | | 1 |
| Secretion system | P. syringae TTSS effectors | *hopQ1* | | | | | | | | | | | 1 | | |
| Secretion system | P. syringae TTSS effectors | *hopQ1-1* | | | | | | | | | | | | | 1 |
| Secretion system | P. syringae TTSS effectors | *hopQ1-2* | | | | | | | | | | | | | 1 |
| Secretion system | P. syringae TTSS effectors | *hopR1* | | | | | | | | | | | 1 | | 1 |
| Secretion system | P. syringae TTSS effectors | *hopS1'* | | | | | | | | | | | | | 1 |
| Secretion system | P. syringae TTSS effectors | *hopS2* | | | | | | | | | | | | | 1 |
| Secretion system | P. syringae TTSS effectors | *hopT1-1* | | | | | | | | | | | | | 1 |
| Secretion system | P. syringae TTSS effectors | *hopT1-2* | | | | | | | | | | | | | 1 |
| Secretion system | P. syringae TTSS effectors | *hopT2* | | | | | | | | | | | | | 1 |
| Secretion system | P. syringae TTSS effectors | *hopU1* | | | | | | | | | | | | | 1 |
| Secretion system | P. syringae TTSS effectors | *hopV1* | | | | | | | | | | | 1 | | 1 |
| Secretion system | P. syringae TTSS effectors | *hopW1-1* | | | | | | | | | | | 1 | | |
| Secretion system | P. syringae TTSS effectors | *hopW1-2* | | | | | | | | | | | 1 | | |
| Secretion system | P. syringae TTSS effectors | *hopX1* | | | | | | | | | | | 1 | 1 | 1 |
| Secretion system | P. syringae TTSS effectors | *hopY1* | | | | | | | | | | | | | 1 |
| Secretion system | P. syringae TTSS effectors | *hopZ3* | | | | | | | | | | | | 1 | |
| Secretion system | P. syringae TTSS effectors | *hopAA1* | | | | | | | | | | | | 1 | |
| Secretion system | P. syringae TTSS effectors | *hopAA1'* | | | | | | | | | | | 1 | | |
| Secretion system | P. syringae TTSS effectors | *hopAA1-1* | | | | | | | | | | | | | 1 |
| Secretion system | P. syringae TTSS effectors | *hopAA1-2* | | | | | | | | | | | | | 1 |
| Secretion system | P. syringae TTSS effectors | *hopAB1* | | | | | | | | | | | 1 | 1 | |
| Secretion system | P. syringae TTSS effectors | *hopAB2* | | | | | | | | | | | | | 1 |
| Secretion system | P. syringae TTSS effectors | *hopAB3'* | | | | | | | | | | | 1 | | |
| Secretion system | P. syringae TTSS effectors | *hopAC1* | | | | | | | | | | | | 1 | |
| Secretion system | P. syringae TTSS effectors | *hopAC::ISPsy5* | | | | | | | | | | | | | 1 |
| Secretion system | P. syringae TTSS effectors | *hopAD1* | | | | | | | | | | | | | 1 |
| Secretion system | P. syringae TTSS effectors | *hopAE1* | | | | | | | | | | | 1 | 1 | |
| Secretion system | P. syringae TTSS effectors | *hopAF1* | | | | | | | | | | | 1 | 1 | 1 |
| Secretion system | P. syringae TTSS effectors | *hopAG1* | | | | | | | | | | | | 1 | |
| Secretion system | P. syringae TTSS effectors | *hopAG::ISPssy* | | | | | | | | | | | | | 1 |
| Secretion system | P. syringae TTSS effectors | *hopAH1* | | | | | | | | | | | | 1 | 1 |
| Secretion system | P. syringae TTSS effectors | *hopAH2* | | | | | | | | | | | 1 | 1 | |
| Secretion system | P. syringae TTSS effectors | *hopAH2-1* | | | | | | | | | | | | | 1 |
| Secretion system | P. syringae TTSS effectors | *hopAH2-2* | | | | | | | | | | | | | 1 |
| Secretion system | P. syringae TTSS effectors | *hopAI1* | | | | | | | | | | | | | 1 |
| Secretion system | P. syringae TTSS effectors | *hopAI1'* | | | | | | | | | | | | 1 | |
| Secretion system | P. syringae TTSS effectors | *hopAJ1* | | | | | | | | | | | 1 | | 1 |
| Secretion system | P. syringae TTSS effectors | *hopAJ2* | | | | | | | | | | | 1 | 1 | 1 |
| Secretion system | P. syringae TTSS effectors | *hopAK1* | | | | | | | | | | | 1 | 1 | 1 |
| Secretion system | P. syringae TTSS effectors | *hopAM1-1* | | | | | | | | | | | | | 1 |
| Secretion system | P. syringae TTSS effectors | *hopAM1-2* | | | | | | | | | | | | | 1 |
| Secretion system | P. syringae TTSS effectors | *hopAN1* | | | | | | | | | | | 1 | 1 | 1 |
| Secretion system | P. syringae TTSS effectors | *hopAO1* | | | | | | | | | | | | | 1 |
| Secretion system | P. syringae TTSS effectors | *hopAP1* | | | | | | | | | | | | 1 | |
| Secretion system | P. syringae TTSS effectors | *hopAQ1* | | | | | | | | | | | | | 1 |
| Secretion system | P. syringae TTSS effectors | *hopAS1* | | | | | | | | | | | 1 | | |
| Secretion system | P. syringae TTSS effectors | *hopAS1'* | | | | | | | | | | | | | 1 |
| Secretion system | P. syringae TTSS effectors | *hopAT1* | | | | | | | | | | | 1 | | |
| Secretion system | P. syringae TTSS effectors | *hopAT1'* | | | | | | | | | | | | | 1 |
| Secretion system | P. syringae TTSS effectors | *hopAU1* | | | | | | | | | | | 1 | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Secretion system | P. syringae TTSS effectors | *hopAV1* | | | | | | | | | | | 1 | | |
| Secretion system | P. syringae TTSS effectors | *hopAW1* | | | | | | | | | | | 1 | | |
| Toxin | Exototoxin-A (ETA) | *toxA* | 1 | | 1 | 1 | | | | | | | | | |
| Toxin | Hydrogen cyanide production | *hcnA* | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | |
| Toxin | Hydrogen cyanide production | *hcnB* | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | |
| Toxin | Hydrogen cyanide production | *hcnC* | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | |
| Toxin | Phytotoxin coronatine | *cfl* | | | | | | | | | | | | | 1 |
| Toxin | Phytotoxin coronatine | *cfa1* | | | | | | | | | | | | | 1 |
| Toxin | Phytotoxin coronatine | *cfa2* | | | | | | | | | | | | | 1 |
| Toxin | Phytotoxin coronatine | *cfa3* | | | | | | | | | | | | | 1 |
| Toxin | Phytotoxin coronatine | *cfa4* | | | | | | | | | | | | | 1 |
| Toxin | Phytotoxin coronatine | *cfa5* | | | | | | | | | | | | | 1 |
| Toxin | Phytotoxin coronatine | *cfa6* | | | | | | | | | | | | | 1 |
| Toxin | Phytotoxin coronatine | *cfa7* | | | | | | | | | | | | | 1 |
| Toxin | Phytotoxin coronatine | *cfa8* | | | | | | | | | | | | | 1 |
| Toxin | Phytotoxin coronatine | *cfa9* | | | | | | | | | | | | | 1 |
| Toxin | Phytotoxin coronatine | *corR* | | | | | | | | | | | | | 1 |
| Toxin | Phytotoxin coronatine | *corP* | | | | | | | | | | | | | 1 |
| Toxin | Phytotoxin coronatine | *cmaD* | | | | | | | | | | | | | 1 |
| Toxin | Phytotoxin coronatine | *cmaE* | | | | | | | | | | | | | 1 |
| Toxin | Phytotoxin coronatine | *cmaA* | | | | | | | | | | | | | 1 |
| Toxin | Phytotoxin coronatine | *cmaB* | | | | | | | | | | | | | 1 |
| Toxin | Phytotoxin coronatine | *cmaC* | | | | | | | | | | | | | 1 |
| Toxin | Phytotoxin coronatine | *cmaT* | | | | | | | | | | | | | 1 |
| Toxin | Phytotoxin coronatine | - | | | | | | | | | | | | | 1 |
| Toxin | Phytotoxin coronatine | *cmaU* | | | | | | | | | | | | | 1 |
| Toxin | Phytotoxin phaseolotoxin | - | | | | | | | | | | | 1 | | |
| Toxin | Phytotoxin phaseolotoxin | - | | | | | | | | | | | 1 | | |
| Toxin | Phytotoxin phaseolotoxin | *cysC1* | | | | | | | | | | | 1 | | |
| Toxin | Phytotoxin phaseolotoxin | - | | | | | | | | | | | 1 | | |
| Toxin | Phytotoxin phaseolotoxin | - | | | | | | | | | | | 1 | | |
| Toxin | Phytotoxin phaseolotoxin | - | | | | | | | | | | | 1 | | |
| Toxin | Phytotoxin phaseolotoxin | - | | | | | | | | | | | 1 | | |
| Toxin | Phytotoxin phaseolotoxin | - | | | | | | | | | | | 1 | | |
| Toxin | Phytotoxin phaseolotoxin | - | | | | | | | | | | | 1 | | |
| Toxin | Phytotoxin phaseolotoxin | *dcd2* | | | | | | | | | | | 1 | | |
| Toxin | Phytotoxin phaseolotoxin | - | | | | | | | | | | | 1 | | |
| Toxin | Phytotoxin phaseolotoxin | - | | | | | | | | | | | 1 | | |
| Toxin | Phytotoxin phaseolotoxin | - | | | | | | | | | | | 1 | | |
| Toxin | Phytotoxin phaseolotoxin | - | | | | | | | | | | | 1 | | |
| Toxin | Phytotoxin phaseolotoxin | *argD* | | | | | | | | | | | 1 | | |
| Toxin | Phytotoxin phaseolotoxin | - | | | | | | | | | | | 1 | | |
| Toxin | Phytotoxin phaseolotoxin | - | | | | | | | | | | | 1 | | |
| Toxin | Phytotoxin phaseolotoxin | - | | | | | | | | | | | 1 | | |
| Toxin | Phytotoxin phaseolotoxin | - | | | | | | | | | | | 1 | | |
| Toxin | Phytotoxin phaseolotoxin | - | | | | | | | | | | | 1 | | |
| Toxin | Phytotoxin phaseolotoxin | *argK* | | | | | | | | | | | 1 | | |
| Toxin | Phytotoxin syringomycin | *syrF* | | | | | | | | | | | | 1 | |
| Toxin | Phytotoxin syringomycin | *syrE* | | | | | | | | | | | | 1 | |
| Toxin | Phytotoxin syringomycin | *syrC* | | | | | | | | | | | | 1 | |
| Toxin | Phytotoxin syringomycin | *syrB2* | | | | | | | | | | | | 1 | |
| Toxin | Phytotoxin syringomycin | *syrB1* | | | | | | | | | | | | 1 | |
| Toxin | Phytotoxin syringomycin | *syrP* | | | | | | | | | | | | 1 | |
| Toxin | Phytotoxin syringomycin | *syrD* | | | | | | | | | | | | 1 | |
| Toxin | Phytotoxin syringopeptin | *sypA* | | | | | | | | | | | | 1 | |
| Toxin | Phytotoxin syringopeptin | *sypB* | | | | | | | | | | | | 1 | |
| Toxin | Phytotoxin syringopeptin | *sypC* | | | | | | | | | | | | 1 | |
| Toxin | TccC-type insecticidal toxins | - | | | | | | 1 | | | | | 1 | 1 | 1 |

| Category | Virulence factors | Related genes | *A. hydrophila* | | *A. salmonicida* | *A. veronii* | *A. sobria* | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | ML09-119 | ATCC 7966 | A449 | B565 | TM18 | JF2635 | CECT 4245 |
| Adherence | Flp type IV pili | *flpL* | 1 | 1 | 1 | 1 | | | |
| Adherence | Flp type IV pili | *flpK* | 1 | 1 | 1 | 1 | | | |
| Adherence | Flp type IV pili | *flpJ* | 1 | 1 | 1 | 1 | | | |
| Adherence | Flp type IV pili | *flpI* | 1 | 1 | 1 | 1 | | | |
| Adherence | Flp type IV pili | *flpH* | 1 | 1 | 1 | 1 | | | |
| Adherence | Flp type IV pili | *flpG* | 1 | 1 | 1 | 1 | | | |
| Adherence | Flp type IV pili | *flpF* | 1 | 1 | 1 | 1 | | | |
| Adherence | Flp type IV pili | *flpE* | 1 | 1 | 1 | 1 | | | |
| Adherence | Flp type IV pili | *flpD* | 1 | 1 | 1 | 1 | | | |
| Adherence | Flp type IV pili | *flpC* | 1 | 1 | 1 | 1 | | | |
| Adherence | Flp type IV pili | *flpB* | 1 | 1 | 1 | 1 | | | |
| Adherence | Flp type IV pili | *flpA* | 1 | 1 | 1 | 1 | | | |
| Adherence | Flp type IV pili | *flp1* | 1 | 1 | 1 | 1 | | | |
| Adherence | Lateral flagella | *lfiM* | | | 1 | | | | |
| Adherence | Lateral flagella | *lfiN* | | | 1 | | | | |
| Adherence | Lateral flagella | *fliP* | | | 1 | | 1 | 1 | 1 |
| Adherence | Lateral flagella | *lfiQ* | | | 1 | | | | |
| Adherence | Lateral flagella | *lfiR* | | | 1 | | | | |
| Adherence | Lateral flagella | *lfhB* | | | 1 | | | | |
| Adherence | Lateral flagella | *lfhA* | | | 1 | | | | |
| Adherence | Lateral flagella | *lafK* | | | 1 | | | | |
| Adherence | Lateral flagella | *lfiE* | | | 1 | | | | |
| Adherence | Lateral flagella | *fliF* | | | 1 | | | | |
| Adherence | Lateral flagella | *fliG* | | | 1 | | 1 | 1 | 1 |
| Adherence | Lateral flagella | *lfiH* | | | 1 | | | | |
| Adherence | Lateral flagella | *lfiI* | | | 1 | | | | |
| Adherence | Lateral flagella | *lfiJ* | | | 1 | | | | |
| Adherence | Lateral flagella | *lfgN* | | | 1 | | | | |
| Adherence | Lateral flagella | *lfgM* | | | 1 | | | | |
| Adherence | Lateral flagella | *lfgA* | | | 1 | | | | |
| Adherence | Lateral flagella | *lfgB* | | | 1 | | | | |
| Adherence | Lateral flagella | *flgC* | | | 1 | | 1 | 1 | 1 |
| Adherence | Lateral flagella | *flgE* | | | 1 | | | | |
| Adherence | Lateral flagella | *lfgF* | | | 1 | | | | |
| Adherence | Lateral flagella | *lfgG* | | | 1 | | | | |
| Adherence | Lateral flagella | *lfgH* | | | 1 | | | | |
| Adherence | Lateral flagella | *flgI* | | | 1 | | 1 | 1 | 1 |
| Adherence | Lateral flagella | *lflgJ* | | | 1 | | | | |
| Adherence | Lateral flagella | *lfgK* | | | 1 | | | | |
| Adherence | Lateral flagella | *lfgL* | | | 1 | | | | |
| Adherence | Lateral flagella | *maf-5* | | | 1 | | | | |
| Adherence | Lateral flagella | *lafB* | | | 1 | | | | |
| Adherence | Lateral flagella | *lafC* | | | 1 | | | | |
| Adherence | Lateral flagella | *lafX* | | | 1 | | | | |
| Adherence | Lateral flagella | *lafE* | | | 1 | | | | |
| Adherence | Lateral flagella | *lafF* | | | 1 | | | | |
| Adherence | Lateral flagella | *lafS* | | | 1 | | | | |
| Adherence | Lateral flagella | *lafT* | | | 1 | | | | |
| Adherence | Lateral flagella | *lafU* | | | 1 | | | | |
| Adherence | Mannose-sensitive hemagglutinin (Msh) pilus, type IV pili | *mshQ* | 1 | 1 | 1 | 1 | | | |
| Adherence | Mannose-sensitive hemagglutinin (Msh) pilus, type IV pili | *mshP* | 1 | | 1 | 1 | | | |
| Adherence | Mannose-sensitive hemagglutinin (Msh) pilus, type IV pili | *mshO* | 1 | 1 | 1 | 1 | | | |
| Adherence | Mannose-sensitive hemagglutinin (Msh) pilus, type IV pili | *mshD* | 1 | 1 | 1 | 1 | | | |
| Adherence | Mannose-sensitive hemagglutinin (Msh) pilus, type IV pili | *mshC* | 1 | 1 | | 1 | | | |
| Adherence | Mannose-sensitive hemagglutinin (Msh) pilus, type IV pili | *mshB* | 1 | | | 1 | | | |
| Adherence | Mannose-sensitive hemagglutinin (Msh) pilus, type IV pili | *mshA* | 1 | 1 | | 1 | | | |
| Adherence | Mannose-sensitive hemagglutinin (Msh) pilus, type IV pili | *mshF* | 1 | 1 | | 1 | | | |
| Adherence | Mannose-sensitive hemagglutinin (Msh) pilus, type IV pili | *mshG* | 1 | 1 | | 1 | | | |
| Adherence | Mannose-sensitive hemagglutinin (Msh) pilus, type IV pili | *mshE* | 1 | 1 | | 1 | | | |
| Adherence | Mannose-sensitive hemagglutinin (Msh) pilus, type IV pili | *mshN* | 1 | 1 | | 1 | | | |
| Adherence | Mannose-sensitive hemagglutinin (Msh) pilus, type IV pili | *mshM* | 1 | 1 | 1 | 1 | | | |
| Adherence | Mannose-sensitive hemagglutinin (Msh) pilus, type IV pili | *mshL* | 1 | 1 | 1 | 1 | | | |
| Adherence | Mannose-sensitive hemagglutinin (Msh) pilus, type IV pili | *mshK* | 1 | | 1 | 1 | | | |
| Adherence | Mannose-sensitive hemagglutinin (Msh) pilus, type IV pili | *mshJ* | 1 | 1 | 1 | 1 | | | |
| Adherence | Mannose-sensitive hemagglutinin (Msh) pilus, type IV pili | *mshI1* | 1 | 1 | 1 | 1 | | | |
| Adherence | Mannose-sensitive hemagglutinin (Msh) pilus, type IV pili | *mshI* | 1 | 1 | 1 | 1 | | | |
| Adherence | Polar flagella | *motX* | 1 | 1 | 1 | 1 | | | |
| Adherence | Polar flagella | *fliE* | 1 | 1 | 1 | 1 | | | |
| Adherence | Polar flagella | *fliF* | 1 | 1 | 1 | 1 | | | |
| Adherence | Polar flagella | *fliG* | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Adherence | Polar flagella | *fliH* | 1 | 1 | 1 | 1 | | | |
| Adherence | Polar flagella | *fliI* | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Polar flagella | *fliJ* | 1 | 1 | 1 | 1 | | | |
| Adherence | Polar flagella | *fliK* | 1 | 1 | 1 | 1 | | | |
| Adherence | Polar flagella | *fliL* | 1 | 1 | 1 | 1 | | | |
| Adherence | Polar flagella | *fliM* | 1 | 1 | 1 | 1 | | | |
| Adherence | Polar flagella | *fliN* | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Polar flagella | *fliO* | 1 | 1 | 1 | 1 | | | |
| Adherence | Polar flagella | *fliP* | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Polar flagella | *fliQ* | 1 | 1 | 1 | 1 | | | |
| Adherence | Polar flagella | *fliR* | 1 | 1 | 1 | 1 | | 1 | |
| Adherence | Polar flagella | *flhB* | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Polar flagella | *flhA* | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Polar flagella | *flhF* | 1 | 1 | 1 | 1 | | | |
| Adherence | Polar flagella | *flhG* | 1 | 1 | 1 | 1 | | | |
| Adherence | Polar flagella | *fliA* | 1 | 1 | 1 | 1 | | | |
| Adherence | Polar flagella | *cheY* | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Polar flagella | *cheZ* | 1 | 1 | 1 | 1 | | | |
| Adherence | Polar flagella | *cheA-2* | 1 | 1 | 1 | 1 | | | |
| Adherence | Polar flagella | *cheB-2* | 1 | 1 | 1 | 1 | | | |
| Adherence | Polar flagella | *pomA* | 1 | 1 | 1 | 1 | | | |
| Adherence | Polar flagella | *pomB* | 1 | 1 | 1 | 1 | | | |
| Adherence | Polar flagella | - | 1 | 1 | 1 | 1 | | | |
| Adherence | Polar flagella | *cheW* | 1 | 1 | 1 | 1 | | | |
| Adherence | Polar flagella | *flaA* | 1 | 1 | 1 | 1 | | | |
| Adherence | Polar flagella | *flaB* | 1 | 1 | 1 | 1 | | | |
| Adherence | Polar flagella | *flaG* | 1 | 1 | 1 | | | | |
| Adherence | Polar flagella | *flaH* | 1 | 1 | 1 | 1 | | | |
| Adherence | Polar flagella | *flaJ* | 1 | 1 | 1 | 1 | | | |
| Adherence | Polar flagella | *maf-1* | | 1 | | 1 | | | |
| Adherence | Polar flagella | *motY* | 1 | 1 | 1 | | | | |
| Adherence | Polar flagella | *flrC* | 1 | 1 | 1 | 1 | | | |
| Adherence | Polar flagella | *flrB* | 1 | 1 | 1 | 1 | | | |
| Adherence | Polar flagella | *flrA* | 1 | 1 | 1 | 1 | | | |
| Adherence | Polar flagella | *flgL* | 1 | 1 | 1 | 1 | | | |
| Adherence | Polar flagella | *flgK* | 1 | 1 | 1 | 1 | | | |
| Adherence | Polar flagella | *flgJ* | 1 | 1 | 1 | 1 | | | |
| Adherence | Polar flagella | *flgI* | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Polar flagella | *flgH* | 1 | 1 | 1 | 1 | | 1 | |
| Adherence | Polar flagella | *flgG* | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Polar flagella | *flgF* | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Polar flagella | *flgE* | 1 | 1 | 1 | 1 | | | |
| Adherence | Polar flagella | *flgD* | 1 | 1 | 1 | 1 | | | |
| Adherence | Polar flagella | *flgC* | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Adherence | Polar flagella | *flgB* | 1 | 1 | 1 | 1 | 1 | 1 | |
| Adherence | Polar flagella | *cheR-3* | 1 | 1 | 1 | 1 | | | |
| Adherence | Polar flagella | *cheV* | 1 | 1 | 1 | 1 | | | |
| Adherence | Polar flagella | *flgA* | 1 | 1 | 1 | 1 | | | |
| Adherence | Polar flagella | *flgM* | 1 | 1 | 1 | 1 | | | |
| Adherence | Polar flagella | *flgN* | 1 | 1 | 1 | 1 | | | |
| Adherence | Polar flagella | *pomB2* | 1 | 1 | 1 | 1 | | | |
| Adherence | Polar flagella | *pomA2* | 1 | 1 | 1 | 1 | | | |
| Adherence | Polar flagella | *flmH* | 1 | 1 | 1 | | | | |
| Adherence | Polar flagella | - | | 1 | 1 | | | | |
| Adherence | Polar flagella | *nueA* | 1 | 1 | 1 | | | | |
| Adherence | Polar flagella | *flmD* | 1 | 1 | 1 | | | | |
| Adherence | Polar flagella | *nueB* | 1 | 1 | 1 | | | | |
| Adherence | Polar flagella | *maf-2* | | 1 | 1 | | | | |
| Adherence | Tap type IV pili | *tapA* | 1 | 1 | 1 | | | | |
| Adherence | Tap type IV pili | *tapB* | 1 | 1 | 1 | 1 | | | |
| Adherence | Tap type IV pili | *tapC* | 1 | 1 | 1 | 1 | | | |
| Adherence | Tap type IV pili | *tapD* | 1 | 1 | 1 | 1 | | | |
| Adherence | Tap type IV pili | *tapM* | 1 | 1 | 1 | 1 | | | |
| Adherence | Tap type IV pili | *tapN* | 1 | 1 | 1 | 1 | | | |
| Adherence | Tap type IV pili | *tapO* | 1 | 1 | 1 | 1 | | | |
| Adherence | Tap type IV pili | *tapP* | 1 | 1 | 1 | 1 | | | |
| Adherence | Tap type IV pili | *tapQ* | 1 | 1 | 1 | 1 | | | |
| Adherence | Tap type IV pili | *tapT* | 1 | 1 | 1 | 1 | | | |
| Adherence | Tap type IV pili | *tapU* | 1 | 1 | 1 | 1 | | | |
| Adherence | Tap type IV pili | *tapW* | 1 | 1 | 1 | 1 | | | |
| Adherence | Tap type IV pili | *tppA* | 1 | 1 | 1 | 1 | | | |
| Adherence | Tap type IV pili | *tppB* | 1 | 1 | 1 | 1 | | | |
| Adherence | Tap type IV pili | *tppC* | | | 1 | 1 | | | |
| Adherence | Tap type IV pili | *tppD* | | | 1 | 1 | | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Adherence | Tap type IV pili | *tapY1* | 1 | 1 | 1 | 1 | | | |
| Adherence | Tap type IV pili | *tapY2* | | | | 1 | | | |
| Adherence | Tap type IV pili | *tppE* | 1 | 1 | 1 | 1 | | | |
| Adherence | Tap type IV pili | *tppF* | 1 | 1 | 1 | 1 | | | |
| Adherence | Tap type IV pili | *tapV* | 1 | 1 | 1 | 1 | | | |
| Adherence | Tap type IV pili | *tapF* | 1 | 1 | 1 | 1 | | | |
| Adherence | Type I fimbriae | *fimA* | 1 | 1 | 1 | 1 | | | |
| Adherence | Type I fimbriae | *fimC* | 1 | 1 | 1 | 1 | | | |
| Adherence | Type I fimbriae | *fimD* | 1 | 1 | 1 | 1 | | | |
| Adherence | Type I fimbriae | *fimE* | 1 | 1 | 1 | 1 | | | |
| Adherence | Type I fimbriae | *fimF* | 1 | 1 | 1 | 1 | | | |
| Secretion system | T2SS | *exeA* | 1 | 1 | 1 | 1 | | | |
| Secretion system | T2SS | *exeB* | 1 | 1 | 1 | 1 | | | |
| Secretion system | T2SS | *exeC* | 1 | 1 | 1 | 1 | | | |
| Secretion system | T2SS | *exeD* | 1 | 1 | 1 | 1 | | | |
| Secretion system | T2SS | *exeE* | 1 | 1 | 1 | 1 | | | |
| Secretion system | T2SS | *exeF* | 1 | 1 | 1 | 1 | | | |
| Secretion system | T2SS | *exeG* | 1 | 1 | 1 | 1 | | | |
| Secretion system | T2SS | *exeH* | 1 | 1 | 1 | 1 | | | |
| Secretion system | T2SS | *exeI* | 1 | 1 | 1 | 1 | | | |
| Secretion system | T2SS | *exeJ* | 1 | 1 | 1 | 1 | | | |
| Secretion system | T2SS | *exeK* | 1 | 1 | 1 | 1 | | | |
| Secretion system | T2SS | *exeL* | 1 | 1 | 1 | 1 | | | |
| Secretion system | T2SS | *exeM* | 1 | 1 | 1 | 1 | | | |
| Secretion system | T2SS | *exeN* | 1 | 1 | 1 | 1 | | | |
| Secretion system | T2SS | *tapD* | 1 | 1 | 1 | 1 | | | |
| Secretion system | T3SS | *ascL* | | | 1 | | | | |
| Secretion system | T3SS | *ascK* | | | 1 | | | | |
| Secretion system | T3SS | *ascJ* | | | 1 | | | | |
| Secretion system | T3SS | *ascI* | | | 1 | | | | |
| Secretion system | T3SS | *ascH* | | | 1 | | | | |
| Secretion system | T3SS | *ascG* | | | 1 | | | | |
| Secretion system | T3SS | *ascF* | | | 1 | | | | |
| Secretion system | T3SS | *ascE* | | | 1 | | | | |
| Secretion system | T3SS | *ascD* | | | 1 | | | | |
| Secretion system | T3SS | *ascC* | | | 1 | | | | |
| Secretion system | T3SS | *ascB* | | | 1 | | | | |
| Secretion system | T3SS | *exsD* | | | 1 | | | | |
| Secretion system | T3SS | *exsA* | | | 1 | | | 1 | |
| Secretion system | T3SS | *exsB* | | | 1 | | | | |
| Secretion system | T3SS | *exsE* | | | 1 | | | | |
| Secretion system | T3SS | *exsC* | | | 1 | | | 1 | |
| Secretion system | T3SS | *aopD* | | | 1 | | | | |
| Secretion system | T3SS | *aopB* | | | 1 | | | | |
| Secretion system | T3SS | *acrH* | | | 1 | | | | |
| Secretion system | T3SS | *acrV* | | | 1 | | | | |
| Secretion system | T3SS | *acrG* | | | 1 | | | | |
| Secretion system | T3SS | *acrR* | | | 1 | | | | |
| Secretion system | T3SS | *ascV* | | | 1 | | | | |
| Secretion system | T3SS | *ascY* | | | 1 | | | | |
| Secretion system | T3SS | *ascX* | | | 1 | | | | |
| Secretion system | T3SS | *acr2* | | | 1 | | | | |
| Secretion system | T3SS | *acr1* | | | 1 | | | | |
| Secretion system | T3SS | *aopN* | | | 1 | | | | |
| Secretion system | T3SS | *ascN* | | | 1 | | | | |
| Secretion system | T3SS | *ascO* | | | 1 | | | | |
| Secretion system | T3SS | *ascP* | | | 1 | | | | |
| Secretion system | T3SS | *ascQ* | | | 1 | | | | |
| Secretion system | T3SS | *ascR* | | | 1 | | | | |
| Secretion system | T3SS | *ascS* | | | 1 | | | | |
| Secretion system | T3SS | *ascT* | | | 1 | | | | |
| Secretion system | T3SS | *ascU* | | | 1 | | | | |
| Secretion system | T3SS | *aopX* | | | 1 | | | | |
| Secretion system | T3SS | *sycX* | | | 1 | | | | |
| Secretion system | T3SS | *sycH* | | | 1 | | | | |
| Secretion system | T3SS | *aopH* | | | 1 | | | | |
| Secretion system | T3SS | *ati2* | | | 1 | | | | |
| Secretion system | T3SS | *ati1* | | | 1 | | | | |
| Secretion system | T3SS | *sycO* | | | 1 | | | | |
| Secretion system | T3SS | *aopO* | | | 1 | | | | |
| Secretion system | T3SS | *aexT* | | | 1 | | | | |
| Secretion system | T6SS | *hcp1* | 1 | 1 | | | | | |
| Secretion system | T6SS | *vgrG1* | 1 | 1 | | | | | |
| Secretion system | T6SS | *hcp* | 1 | 1 | | | | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Secretion system | T6SS | *vgrG2* | 1 | 1 | | | | | |
| Secretion system | T6SS | - | | 1 | | | | | |
| Secretion system | T6SS | - | | 1 | | | | | |
| Secretion system | T6SS | - | | 1 | | | | | |
| Secretion system | T6SS | - | | 1 | 1 | | | | |
| Secretion system | T6SS | - | | 1 | 1 | | | | |
| Secretion system | T6SS | - | | 1 | | | | | |
| Secretion system | T6SS | - | | 1 | 1 | | | | |
| Secretion system | T6SS | - | | 1 | 1 | | | | |
| Secretion system | T6SS | - | | 1 | 1 | | | | |
| Secretion system | T6SS | - | | 1 | 1 | | | | |
| Secretion system | T6SS | - | | 1 | 1 | | | | |
| Secretion system | T6SS | - | | 1 | 1 | | | | |
| Secretion system | T6SS | - | | 1 | 1 | | | | |
| Secretion system | T6SS | *clpB* | | 1 | 1 | | | | |
| Secretion system | T6SS | *vasH* | | 1 | 1 | | | | |
| Secretion system | T6SS | - | | 1 | 1 | | | | |
| Secretion system | T6SS | - | | 1 | | | | | |
| Secretion system | T6SS | *vasK* | | 1 | | | | | |
| Secretion system | T6SS | - | | 1 | 1 | | | | |
| Secretion system | T6SS | - | | 1 | 1 | | | | |
| Secretion system | T6SS | *vgrG3* | | 1 | | | | | |
| Toxin | Aerolysin AerA/Cytotoxic enterotoxin Act | *aerA/act* | 1 | 1 | 1 | 1 | | | |
| Toxin | Extracellular hemolysin, AHH1 | *ahh1* | 1 | 1 | 1 | | | | |
| Toxin | Heat-stable cytotonic enterotoxin, Ast | *ast* | 1 | 1 | | | | | |
| Toxin | Hemolysin III | - | 1 | 1 | 1 | 1 | | | |
| Toxin | Hemolysin, HlyA | *hlyA* | 1 | 1 | 1 | 1 | | | |
| Toxin | The repeat in toxin (RTX) | *rtxA* | 1 | 1 | | | | | |
| Toxin | The repeat in toxin (RTX) | *rtxC* | | 1 | | | | | |
| Toxin | The repeat in toxin (RTX) | *rtxH* | | 1 | | | | | |
| Toxin | The repeat in toxin (RTX) | *rtxB* | | 1 | | | | | |
| Toxin | The repeat in toxin (RTX) | *rtxD* | | 1 | | | | | |
| Toxin | The repeat in toxin (RTX) | *rtxE* | | 1 | | | | | |
| Toxin | Thermostable hemolysin (TH) | - | 1 | 1 | 1 | 1 | | | |