**Supplemental Table S1:**  Secreted proteins reported by Hager et al (Hager et al. 2006) and their accession numbers.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Secreted proteins of Hager et al**  | **Locus** | **Amino Acids** | **Accession number** | **Uniprot** | **RefSeq** | **Conserved in *F. tularensis* SchuS4** |
| ChiA- glycosyl hydrolase family 18 chitinase | FTN\_0627 | 870 | DQ230365 | A0Q5K5 | WP\_003038698.1 | FTT\_0715 (K01183) |
| ChiB- chitinase | FTN\_1744 | 730 | DQ230366 | A0Q8N1  | WP\_003040734.1 | FTT\_1768c (K01183) |
| CbpA- chitin-binding protein  | FTN\_1485 | 555 | DQ230368 | A0Q7Y7 | WP\_003040467.1 | FTT\_1577 |
| PepO- M13 family metallopeptidase | FTN\_1186(K07386) | 687 | DQ230367 | A0Q757 | WP\_003036966.1 | No |
| Fsp58 – hypothetical protein | FTN\_0175 | 541 | DQ230369 | A0Q4C0 | ABK89085.1, AJI61476.1 | No (LVS has FTL\_1896) |
| Fsp53  | FTN\_1261 | 495 | DQ230370 | A0Q7C7 | WP\_003040017.1 | No |
| BglX- glycosyl hydrolase family 3 protein | FTN\_1474 | 378 | DQ230371 | A0Q7X6 | ABK90341.1, ABB76142.1 | No |

**Supplemental Table S2:** List of secreted proteinspredicted by PsortB from the whole genome of *Francisella novicida* U112.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **NCBI protein ID/ Uniprot** | **Secreted proteins predicted by PsortB/ Locus** | **Uniprot function** |
| 1 | ABK89001 A0Q436  | Acid phosphatase FTN\_0090 | No |
| 2 | ABK88933 A0Q3W8 | Histidine acid phosphataseFTN\_0022 | No |
| 3 | ABK90544 A0Q8H9 | GDSL-like lipolytic enzymeFTN\_1687 | No |
| 4 | ABK89113 A0Q4E8 | Hypothetical protein FTN\_0203 | No |
| 5 | ABK89179 A0Q4L4 | Nucleoside diphosphate kinase FTN\_0271 | Major role in the synthesis of nucleoside triphosphates other than ATP |
| 6 | ABK89213 A0Q4P8 | Pilus assembly proteinFTN\_0307  | No |
| 7 | ABK89240 A0Q4S5 | Conserved protein of unknown function FTN\_0334 | No |
| 8 | ABK89318 A0Q503 | Type IV pilus assembly protein PilA FTN\_0415 | No |
| 9 | ABK89339 A0Q524 | PhospholipaseFTN\_0436 | No |
| 10 | ABK89468 A0Q5F3 | Hypothetical protein FTN\_0573 | No |
| 11 | ABK89563 A0Q5P8 | Hypothetical protein FTN\_0671 | No |
| 12 | ABK89832 A0Q6G7 | Hypothetical protein FTN\_0944 | No |
| 13 | ABK89863 A0Q6J8 | Hypothetical protein FTN\_0975 | No |
| 14 | ABK89960 A0Q6U5 | DNA/RNA endonuclease GFTN\_1073 | No |
| 15 | ABK90429 A0Q864 | O-sialoglycoprotein endopeptidaseFTN\_1565 | Involved in the transfer of the threonylcarbamoyl moiety of threonylcarbamoyl-AMP (TC-AMP) to the N6 group of A37 |
| 16 | ABK90543 A0Q8H8  | Hypothetical protein FTN\_1686  | No |
| 17 | ABK88981 A0Q416 | Type IV pilus assembly protein PilEFTN\_0070 | No |
| 18 | ABK90078 A0Q763 | Chitin-binding proteinFTN\_1192 | No |
| 19 | ABK89673 A0Q608 | Hypothetical proteinFTN\_0782 | No |
| 20 | ABK89451 A0Q5D6 | Hypothetical proteinFTN\_0556 | No |
| 21 | ABK89317 A0Q502 | Type IV pilus assembly protein PilAFTN\_0414 | No |
| 22 | ABK89265 A0Q4V0 | Short-chain alcohol dehydrogenase-like dehydrogenase, FTN\_0359 | No |