	Nostoc	*Bifidobacterium*	*Bacillus*	*Escherichia*	*Chlamydia*	*Bacteroides*	Signature domain
SecY	SecY_80_419 2.50E-105	SecY_73_419 2.20E-103	SecY_68_414 1.00E-109	SecY_76_417 4.50E-121	SecY_73_433 2.10E-105	SecY_74_416 8.10E-107	SecY
SecE	SecE_18_73 8.30E-18	SecE_19_74 5.10E-15	SecE_3_58 2.30E-21	SecE_68_122 2.40E-21	SecE_21_73 3.70E-09	SecE_3_59 3.30E-17	SecE
SecG	SecG_5_73 4.40E-20	SecG_6_77 6.50E-20	SecG_3_75 1.10E-26	SecG_3_75 1.00E-26	SecG_6_75 5.00E-18	SecG_2_71 7.80E-20	SecG
SecD/F	Sec_GG_23_47 2.40E-06 SecD_SecF_275_439 8.40E-16		Sec_GG_23_51 1.60E-05 SecD_SecF_240_409 5.10E-17 Sec_GG_471_495 7.70E-05 SecD_SecF_543_727 5.30E-67	SecD-TM1_2_103 8.80E-38 Sec_GG_112_141 1.00E-07 SecD_SecF_434_602 1.40E-15	Sec_GG_569_595 0.016 SecD_SecF_887_1057 3.60E-17 SecD_SecF_1211_1392 7.10E-65	Sec_GG_73_94 6.60E-05 SecD_SecF_488_655 2.50E-19 Sec_GG_707_732 0.0015 SecD_SecF_812_994 5.50E-54	SecD_SecF
YajC		YajC_11_87 2.20E-17	YajC_4_84 1.60E-33	YajC_20_102 4.50E-28	YajC_36_109 8.20E-20	YajC_20_95 6.80E-31	YajC
YidC	60KD_IMP_25_344 4.50E-60	60KD_IMP_23_241 3.40E-46	60KD_IMP_62_259 4.60E-54	60KD_IMP_352_533 3.40E-67	60KD_IMP_568_771 5.00E-59	60KD_IMP_366_568 1.60E-54	60KD_IMP
SecA	SecA_DEAD_5_378 1.30E-121 SecA_PP_bind_227_335 2.60E-39 SecA_SW_703_917 4.40E-71	SecA_DEAD_13_383 4.40E-121 SecA_PP_bind_233_340 3.00E-37 SecA_SW_613_830 2.40E-71 SEC-C_940_957 3.10E-08	SecA_DEAD_7_382 5.10E-118 SecA_PP_bind_228_338 8.70E-43 Helicase_C_447_530 0.00041 SecA_SW_568_780 3.40E-69 SEC-C_821_839 3.00E-09	SecA_DEAD_7_401 1.50E-121 SecA_PP_bind_229_358 4.90E-40 SecA_SW_617_830 4.00E-76 SEC-C_881_900 1.50E-11	SecA_DEAD_5_521 9.10E-115 SecA_PP_bind_353_477 2.40E-24 SecA_SW_708_929 1.10E-50	SecA_DEAD_8_585 6.50E-118 SecA_PP_bind_399_541 2.80E-35 SecA_SW_772_1020 4.10E-61 SEC-C_1089_1108 9.20E-11	SecA_DEAD
SecB				SecB_1_145 1.80E-58			
SecM				SecM_24_169 1.10E-67			
ffh	SRP54_N_6_82 3.50E-17 SRP54_100_295 2.40E-74 SRP_SPB_326_426 1.90E-32	SRP54_N_7_84 5.40E-17 SRP54_103_314 4.50E-65 SRP_SPB_345_443 1.40E-35	SRP54_N_7_83 1.20E-18 SRP54_101_297 9.40E-80 SRP_SPB_328_427 1.30E-36	SRP54_N_5_82 2.10E-21 SRP54_100_296 1.20E-75 SRP_SPB_329_427 1.10E-36	SRP54_N_5_82 2.40E-17 SRP54_99_295 1.40E-68 SRP_SPB_326_426 1.40E-26	SRP54_N_5_82 _7.40E-16 SRP54_99_295 _2.20E-76 SRP_SPB_326_423 5.20E-36	SRP_SPB
FtsY	SRP54_N_223_297 3.60E-11 SRP54_322_522 4.30E-72	SRP54_N_115_191 4.30E-10 SRP54_214_412 1.30E-74	SRP54_N_23_99 3.80E-19 SRP54_121_320 3.80E-81	SRP54_N_199_275 1.00E-16 SRP54_293_493 5.20E-80	SRP54_N_2_67 1.20E-05 SRP54_82_282 3.80E-68	SRP54_N_15_92 3.70E-15 SRP54_116_315 6.40E-75	SRP54_N and SRP54 (even weak signal) in absence of SRP_SPB
SpI	Peptidase_S24_45_126 3.90E-15	Peptidase_S24_100 179_1.10E-16	Peptidase_S24_42_110 1.80E-17	Peptidase_S24_86_159 1.70E-20 Peptidase_S26_260_302 1.40E-07	Peptidase_S24_108_194 1.40E-10	Peptidase_S24_31_114 3.00E-08	Peptidase_S24
SpII	Peptidase_A8_12_150 4.00E-41	Peptidase_A8_18_154 3.70E-29	Peptidase_A8_6_149 4.60E-44	Peptidase_A8_15_159 2.60E-44	Peptidase_A8_13_163 1.50E-30	Peptidase_A8_14_195 2.30E-35	Peptidase_A8

Table S1.