	Gene, Lineage info and Genomic Contexts grouped by Domain Architectures Lineage Info			
AccNum NLPC+PspA	GeneName	Species ————————————————————————————————————	Lineage ———————————————————————————————————	GenContext
AFZ52345.1	Cyan10605_0189	Cyanobacterium aponinum PCC 10605	bacteria>cyanobacteria	NLPC+PspA
PspA				<-pspF-NtrC-AAA+FIS-HTH Psp.
ANQ40502.1	BAR24_02900	Gluconobacter oxydans	bacteria>proteobacteria>alphaproteobacteria	>PspB->SIG+Toast-rac >SIG+Toast-rack->SIG+TM(>ABC-ATPase
AOL22920.1	Ga0102493_111899	Erythrobacter litoralis	bacteria>proteobacteria>alphaproteobacteria	<-PspF-NtrC-AAA+FIS-HTH >PspA->PspB->PspC+Psp >SIG+PspB->SIG+Psp >SIG+PspB->PspB
ANL88610.1	AMC81_PE00364	Rhizobium phaseoli	bacteria>proteobacteria>alphaproteobacteria	<-SpermGS-ATPgrasp SIG+DUF1190<-yjfL-TM(s) DUF2491<-lon_trans_2 CesT_T DUF2170->PspA
BAB38581.1	yjfJ	Escherichia coli O157:H7 str Sakai	bacteria>proteobacteria>gammaproteobacteria	CesT_Tir-DUF2170->Psp. >DUF2491->yjfL-TM(s >SIG+DUF1190->SpermG ATPgrasp->Acyl-CoA_dh_M+Acs CoA_dh_1
AEF02306.1	ambt_03780	Alteromonas naphthalenivorans	bacteria>proteobacteria>gammaproteobacteria	CesT_Tir-DUF2170->Psp. >lon_trans_2->DUF2491->yjf TM(s)->SIG+DUF1190->SpermG ATPgrasp
AAK24333.1	CC_2362	Caulobacter vibrioides CB15	bacteria>proteobacteria>alphaproteobacteria	CesT_Tir-DUF2170->Psp. >SpermGS-ATPgrasp
AKK09009.1	CTEST_07895	Corynebacterium testudinoris	bacteria>actinobacteria	clgR-HTH->PspA
CCP45543.1	35kd_ag	Mycobacterium tuberculosis H37Rv	bacteria>actinobacteria	clgR-HTH->PspA->PspI >PspN_N+DUF3046-> <-X(: >DUF3046
AOS62694.1	TL08_09395	Actinoalloteichus hymeniacidonis	bacteria>actinobacteria	clgR-HTH->UA74_0955 lowcomplexity->PspA->PspM
ANX06812.1	AS891_06225	Bacillus subtilis subsp subtilis	bacteria>firmicutes	Lial-LiaF-TM->PspA->SIG+Toas rack->Lial-LiaF-TM+Toast-rac >SIG+TM+HAMP+HISKII >REC+GerE-HTH
AAM04874.1	MA_1460	Methanosarcina acetivorans C2A	archaea>euryarchaeota	PspA->Psp-AA
CAB51252.1	SCO2168	Streptomyces coelicolor A32	bacteria>actinobacteria	PspA->Psp-A >SIG+TM(s)+HISKIN->REC+Ger HTH
NBW11964.1	Franean1_2534	Frankia sp EAN1pec	bacteria>actinobacteria	PspA->Psp-A >TM(s)+Metallopeptidase+TM(s >Tfu_1009
AHA65439.1	Asd1617_02612	Shigella dysenteriae 1617	bacteria>proteobacteria>gammaproteobacteria	PspA->PspA->PspB->PspC+Pspl >Phageshock_PspD->Psp SIG+RHOD-CDC25
AFZ14666.1	Cri9333_3857	Crinalium epipsammum PCC 9333	bacteria>cyanobacteria	PspA->PspA->Thioredoxin
AEN65073.1	Entas_2342	Enterobacter soli	bacteria>proteobacteria>gammaproteobacteria	PspA->PspB->PspC+PspI >Phageshock_PspD->DO-GTPase >TM(s)+IIGP1->pspF-Ntro AAA+FIS-HTH
NW39986.1	A9L45_10880	Escherichia coli O157:H7 Sphaerochaeta	bacteria>proteobacteria>gammaproteobacteria	PspA->PspB->PspC+PspI >Phageshock_PspD->Psp SIG+RHOD-CDC25 PspA->PspC-> <-pspF-Ntro
AEC01378.1	Spico_0140	coccoides DSM 17374	bacteria>spirochaetes	AAA+FIS-HTH PspA->PspB-lik >PspC+PspB->SIG+Toast-rack
MQ41621.1	AMS64_04095	Aeromonas veronii Microcystis	bacteria>proteobacteria>gammaproteobacteria	PspA->PspC->Phageshock_PspG
BAG04642.1	MAE_48200	aeruginosa NIES843 Pectobacterium	bacteria>cyanobacteria	PspA->SIG+TPR+PBPI
AIK12556.1 ————————————————————————————————————	GZ59_06830 AMC87_CH01062	atrosepticum Rhizobium phaseoli	bacteria>proteobacteria>gammaproteobacteria bacteria>proteobacteria>alphaproteobacteria	PspA->SIG+TPR+TM+DUF5401 PspA->YiaAB->X(s)-> <-SIG+TM
AAS43862.1	BCE_4961	Bacillus cereus ATCC 10987	bacteria>firmicutes	PspA->yjfL-TM(s)->SIG+DUF417 >SIG+DUF4247
ANX09535.1	AS891_20665	Bacillus subtilis subsp subtilis	bacteria>firmicutes	PspA->ZNR(s)+TN >SIG+TPM_phosphatase+TN >Band_7+ZNR
AAN56746.1	SO_3765	Shewanella oneidensis MR1	bacteria>proteobacteria>gammaproteobacteria	SIG+Ctha_1186+Low-com >DUF350-TM(s) >SIG+TM(s)+Spermine_synt >CesT_Tir-DUF2170->Psp. >DUF4178->RHH
AKX93460.1	MOTHE_c06560	Moorella thermoacetica	bacteria>firmicutes	SIG+DUF1707-SHOC >TM(s)+Metallopeptidase+TM(s >Tfu_1009->PspA->Psp-AA
CCG46123.1	pspA	Halobacillus halophilus DSM 2266	bacteria>firmicutes	SIG+DUF4178->Psp >SIG+DUF4247->yjfL-TM(: >SIG+TM(s)+Spermine_synth
APB74393.1	PPYC2_05025	Paenibacillus polymyxa	bacteria>firmicutes	SIG+TM(s)->Lial-LiaF-TM->Psp. >PspC+Coiled-coil->Psp. >SIG+TM+Toast-rac >SIG+TM+HISKIN->REC+Ger HTH
AKL67689.1	M444_22280	Streptomyces sp Mg1	bacteria>actinobacteria	SIG+TPM_phosphatase+TM+Coile coil->PspA
ALD73647.1	AN946_04100	Trueperella pyogenes	bacteria>actinobacteria	SIG+TPM_phosphatase+TM+Coile coil->PspA->NYN->REC+Ger HTH->SIG+TM+HAMP+HISKIN-> Acyltransfera
AKK09942.1	CTEST_12695	Corynebacterium testudinoris	bacteria>actinobacteria	Thioredoxin->PspA
ANH61663.1	1597_2772	Dokdonia donghaensis DSW1	bacteria>bacteroidetes	TM(s)->PADR-HTH->DUF170 ahelical+PspC+Lial-LiaF-TM+Toas rack->SIG+NTF2->TM+Toast-rac > <-CHTH+Protease CesT_T >PspA->SIG+TM(september) >SIG+Band_7+coiled-coil+Floe >Beta-Propeller+AAA-ATPase
AKB54760.1	MSBRM_1762	Methanosarcina barkeri MS	archaea>euryarchaeota	TM(s)+Metallopeptidase+TM(: >Tfu_1009-> <-X(s)->PspA->Ps AA
PspA(s)		A 41		
BAG06017.1 PspA+Psp-AA	MAE_61950	Microcystis aeruginosa NIES843	bacteria>cyanobacteria	PspA->PspA->PspA(s)
PSPA+PSP-AA ACU53894.1	Afer_0955	Acidimicrobium ferrooxidans DSM	bacteria>actinobacteria	PspA+Psp-AA
Snf7		10331		. sp. 111 sp-777
OLB70630.1	AUI06_06150	archaeon 13_2_20CM_2_52_21	archaea	Snf7->DUF5401-coiled-co >Snf7+ZDNA-HTH->MIT+Classic AAA->HTH->SIG+TM(s)->AB ATPase->Snf7->DUF5401-coile coil->Creatinase_N+Peptidase_M2
OLS27540.1	HeimC3_03190	Candidatus Heimdallarchaeota	archaea>asgard group	Snf7->Snf7->MIT+Classical-AA
	SOID_T00008924001	archaeon LC_3 Oikopleura dioica	eukaryota>metazoa>chordata	>ESCRT-II