

Table S15. Putative type III secretion system effectors in genomes of the *Pseudomonas fluorescens* group^a

Locus tag	Gene name	RBS ^b	%G+C	Hrp box			Length (AAs)	N-terminal residues				Overall closest protein match [Organism]; BLASTp e-value, accession number
				Present?	Position	Sequence		Serines	Acidic	Polar	Aliphatic	
Strain Q8r1-96												
PfIQ8_1079	<i>ropAA</i>	AAGAG	63	Yes	-42	c ggaacc gatagggaaagaggtgg ccac aca	451	5	1	27	Yes	Putative type III effector protein <i>Ralstonia solanacearum</i> MolK2; e-value 1e ⁻⁶² YP_002255352 Putative haemolysin PfI01_5292 <i>Pseudomonas fluorescens</i> Pf0-1; e-value 6e ⁻¹⁰⁵ ABA77029 Putative type III effector protein RopB from <i>Pseudomonas fluorescens</i> Q2-87; e-value 3e ⁻⁷⁸ HopPtoM-like protein from <i>Pseudomonas viridiflava</i> PNA3.3a (AAT96220); 9e ⁻²⁰
PfIQ8_5454		GAGG	63	Yes	-72	g ggaacg atcattagccttgctt ccac agc	205	1	1	10	No	
PfIQ8_5542	<i>ropB</i>	AGGA	62	Yes	-81	t ggaacc gatgcgcaacgcgcttg ccact ca	167	8	1	29	No	
PfIQ8_5560	<i>ropM</i>	GGAG	60	No ^{*c}			705	7	1	26	Yes	
Strain Q2-87												
PfIQ2_4389	<i>ropAA</i>	AAGAG	62	Yes	-42	c ggaacc gatagggcaagaggtg ccac aca	451	6	1	28	Yes	Putative type III effector protein <i>Ralstonia solanacearum</i> UW551; e-value 7e ⁻⁶³ ZP_00944509 HopPtoM-like protein from <i>Pseudomonas viridiflava</i> PNA3.3a; e-value 2e ⁻²¹ AAT96220 Putative type III effector protein RopB from <i>Pseudomonas fluorescens</i> Q8r1-96; e-value 3e ⁻⁷⁸ Hypothetical protein PFLU5718 [<i>Pseudomonas fluorescens</i> SBW25]; e-value 2e ⁻¹⁰⁹ YP_002875210
PfIQ2_0323	<i>ropM</i>	GGAG	59	No ^{*c}			708	6	1	25	No	
PfIQ2_0341	<i>ropB</i>	GGAG	62	Yes	-81	t ggaacc gatgcacatgcggttg ccact ca	172	9	1	28	No	
PfIQ2_0447	<i>exoU</i>	GGAAC	57	No			646	4	1	24	Yes	
Strain BG33R												
PseBG33_0857		GTGAG	53	Yes	-148	t ggaact tacggcactcaacttt ccac cca	932	4	0	29	Yes	Hypothetical protein EBI_24284 [<i>Enterocytozoon bieneusi</i> H348]; e-value 4e ⁻⁹³ EED41738 Hypothetical protein Hypothetical protein Snas_0263 [<i>Stackebrandtia nassauensis</i> DSM
PseBG33_1291		GTGA	58	Yes	-63	g ggaacc gttttgtgtaaaaaag ccac caga	52	2	1	27	Yes	
PseBG33_1500		AAGGAA	53	Yes	-76	t ggaact cagtactccttcccg ccact at	377	6	0	32	No	

PseBG33_1516	GGAG	56	Yes	-48	t ggaacct gattagcgttcgga ccac aaa	285	7	0	23	Yes	44728]; e-value 2e ⁻⁰⁴ YP_003509074 Hypothetical protein PFLU4727 [<i>Pseudomonas fluorescens</i> SBW25];e-value 4e ⁻³⁷ YP_002874248
PseBG33_1624	AGGA	57	Yes	-49	g ggaacct ttcttctctgatttt ccac cca	1490	4	0	21	Yes	Hypothetical protein PFLU3022 [<i>Pseudomonas fluorescens</i> SBW25];e-value 6e ⁻⁸⁵ YP_002872601
PseBG33_2028	GGAG	57	Yes	-75	a ggaact gtttccgacacaaaa ccac aca	329	8	1	27	Yes	Hypothetical protein PFLU2099 [<i>Pseudomonas fluorescens</i> SBW25];e-value 2e ⁻³³ YP_002871717
PseBG33_2029	GAGG	55	Yes	-61	a ggaacg gcttacgcttatttg ccac ata	105	8	0	29	No	Conserved hypothetical protein
PseBG33_2030	GGAG	58	Yes	-96	c ggaact gccgtctccctccaa ccac aca	301	6	1	20	Yes	Hypothetical protein PFWH6_1944 [<i>Pseudomonas fluorescens</i> WH6];e-value 5e ⁻⁵⁹ ZP_07774553
PseBG33_2677	AAGGA	58	Yes	-54	a ggaacc ctttgggctgatcct ccac gca	300	5	0	24	Yes	Putative hemolysin-like protein PFLU1373 [<i>Pseudomonas fluorescens</i> SBW25];e-value 1e ⁻⁴⁸ YP_002871022.1
PseBG33_2801	AGGA	50	Yes	-64	tt ggaact gtcttgtgtaggaata ccact ga	452	3	1	28	Yes	Psychrophilic alkaline protease [Pseudomonas Tac li18]; e-value 2e ⁻⁶⁵ 1G9K_A
PseBG33_2806	AAGGT	54	Yes	-72	c ggaacct gccccatccaccccc ccact ca	1195	8	1	26	Yes	Hypothetical protein PFLU3022 [<i>Pseudomonas fluorescens</i> SBW25];e-value 4e ⁻¹¹⁶ YP_002872602
PseBG33_4215	GGAG	54	Yes	-45	t ggaacg cccaacgcccattg cgccac gga	363	5	2	25	Yes	Hypothetical protein PFLU4727 [<i>Pseudomonas fluorescens</i> SBW25];e-value 5e ⁻¹⁰⁶ YP_002874248
PseBG33_5141	GAGG	49	Yes	-71	g ggaacc gtaggaagaaatacg ccac ata	201	5	2	28	No	Hypothetical protein
PseBG33_5228	<i>exoU</i> GAGAGA	58	No			639	9	1	28	Yes	Hypothetical protein PFLU5718 [<i>Pseudomonas fluorescens</i> SBW25];e-value 0.0 YP_002875210

PseBG33_5533	GAGG	54	Yes	-52	t ggaact acatcggtacggattg acac ata	327	7	1	32	Yes	Hypothetical protein PFWH6_5178 [<i>Pseudomonas fluorescens</i> WH6];e-value 2e ⁻⁰⁶ ZP_07777741
Strain A506											
PfIA506_1197	GGAG	57	Yes	-63	t ggaacc atcttcattogta ccac aga	118	7	0	24	Yes	Hypothetical protein
PfIA506_1198	GGAAGG	51	Yes	-38	t ggaacc taattgcgta ccac aaa	61	3	1	26	Yes	Hypothetical protein
PfIA506_1213	GAGG	51	Yes	-84	g ggaacc tttttttcaggcttg ccac aga	79	6	0	21	Yes	Hypothetical protein
PfIA506_1910	GGAGG	59	Yes	-37	a ggaacg tttttcggtccgtagca ccac cta	87	8	1	26	No	Hypothetical protein
PfIA506_1911	GGATG	51	Yes	-36	c ggaacg gttttcgta ccac ata	499	7	0	23	No	Putative hemolysin-like protein PFLU1373 [<i>Pseudomonas fluorescens</i> SBW25];e-value 1e ⁻⁷⁹ YP_002871022.1
PfIA506_1913	GGAGG	53	Yes	-36	a ggaacg gcctccaccgta ccac ata	575	6	1	30	No	Hemolysin-like protein [<i>Pseudomonas</i> <i>fluorescens</i> SBW25];e-value 6e ⁻⁶⁷ YP_002871023
PfIA506_1996	GGAG	57.3	Yes	-72	a ggaact gattccgacgca ccac aca	339	8	1	22	Yes	Hypothetical protein PFWH6_1942 [<i>Pseudomonas fluorescens</i> WH6];e-value 3e ⁻¹⁰⁷ ZP_07774551
PfIA506_1997	GAGG	59	Yes	-60	a ggaacg aattacgcccatttg ccac aga	105	10	0	29	Yes	Hypothetical protein
PfIA506_1998	GGAG	59	Yes	-97	c ggaact gccgagttcctccaa ccac aca	305	8	1	25	Yes	Hypothetical protein PFLU2101 [<i>Pseudomonas fluorescens</i> SBW25];e-value 1e ⁻⁴⁵ YP_002871719
PfIA506_2515	GAGG	57	Yes	-46	t ggaacc acagggcgagtggcga ccac gca	158	10	0	30	No	Hypothetical protein
PfIA506_3392	GAGAC	55	Yes	-98	a ggaact tttccgaccgctgg ccac gca	376	5	0	26	No	Hypothetical protein PFLU4200 [<i>Pseudomonas fluorescens</i> SBW25];e-value 1e ⁻¹⁶ YP_002873748
PfIA506_4033	GGAG	55	Yes	-44	t ggaacg cccaacgccccttg ccac gca	365	7	1	24	Yes	Hypothetical protein PFLU4727 [<i>Pseudomonas fluorescens</i> SBW25];e-value 9e ⁻¹⁰⁴ YP_002874248
PfIA506_4642	GAGG	52	Yes	-38	t ggaact ttacctacagcatca ccac tca	989	6	0	26	Yes	Dermonecrotic toxin [<i>Enterocytozoon</i> <i>bieneusi</i> H348]; e-value 2e ⁻¹⁰⁸ XP_002651020

PfIA506_5017	<i>exoU</i>	GAGAG	60	No			639	8	1	25	Yes	Hypothetical protein PFLU5718 [<i>Pseudomonas fluorescens</i> SBW25]; e-value 0.0 YP_002875210
PfIA506_5312		GAGG	50.1	Yes	-50	tggaaactacatccaaaacgacaggacacata	364	4	1	19	Yes	Hypothetical protein PFWH6_5178 [<i>Pseudomonas fluorescens</i> WH6]; e-value 2e ⁻⁰⁸ ZP_07777741
Strain SS101												
PfISS101_1235		GGAG	57	Yes	-62	tggaaaccatattcgctcgtgcgccacaga	122	7	1	24	Yes	Hypothetical protein
PfISS101_1236		GGAAG	51	Yes	-37	tggaaaccattgcatcaggtgcccacaaa	61	4	1	26	Yes	Hypothetical protein
PfISS101_1237		GGAG	50	Yes	-55	gggaactgatagacgtagccgacccactct	168	4	1	26	No	Hypothetical protein
PfISS101_1238		GGAAG	52	Yes	-81	tggaaactgctcgcagcgattctccactta	122	3	0	22	Yes	Hypothetical protein
PfISS101_1257		GAGG	53	Yes	-84	gggaaccTTTTTTCaggctcacccacaga	79	6	0	21	Yes	Hypothetical protein
PfISS101_1272		TGAG	49	Yes	-27	tggaaaccaatccccctcgtcttccactac	239	7	0	29	Yes	Putative Zn-dependent metalloprotease; myroilysin precursor [<i>Myroides profundii</i>]; e-value 3e ⁻²⁸ gb ACG59772.1
PfISS101_1872		AGGA	53	Yes	-36	tggaaacggTTTTcgtcagacacacccacgta	494	8	0	24	No	Putative hemolysin-like protein PFLU1373 [<i>Pseudomonas fluorescens</i> SBW25]; e-value 9e ⁻⁸² YP_002871022.1
PfISS101_1952		GGAG	59	Yes	-75	aggaactgattccgacgcaaaaaccacaca	340	8	1	26	Yes	Hypothetical protein [<i>Pseudomonas fluorescens</i> SBW25]; e-value 8e ⁻⁴⁰ ref YP_002871717.1
PfISS101_1953		GAGG	59	Yes	-58	aggaacgaaatgaocgcccattgcccacata	105	6	0	27	No	Hypothetical protein
PfISS101_1954		GGAG	59	Yes	-97	cggaaactgtcgagtcocatccaaaccacaca	307	5	1	20	Yes	Hypothetical protein PFWH6_1944 [<i>Pseudomonas fluorescens</i> WH6]; e-value 9e ⁻⁶⁰ ZP_07774553
PfISS101_2432		CGAG	58	Yes	-32	tggaaacctaccgtcgcgtctttaaccgactca	162	1	0	26	No	Putative T3SS effector Orf30 [<i>Pseudomonas syringae</i> pv. <i>syringae</i> 642]; e-value 2e ⁻⁰⁶ gb ACU65058.1
PfISS101_2635		AGGTA	55	Yes	-70	cggaaacctcgccagaacctcttcccacaca	1175	3	1	21	No	Hypothetical protein PFLU3022 [<i>Pseudomonas fluorescens</i> SBW25]; e-value 2e ⁻¹¹¹ ref YP_002872602.1
PfISS101_3399		GAGAC	55	Yes	-97	cggaaacctttccccccgctggcccacgca	376	6	0	26	No	Hypothetical protein PFLU4200 [<i>Pseudomonas fluorescens</i> SBW25]; e-value 3e ⁻¹⁸ ref YP_002873748.1
PfISS101_4113		GGAG	56	Yes	-44	tggaaacgccccaccgcccattgcgcccacgta	366	7	1	24	No	Hypothetical protein PFWH6_4508 [<i>Pseudomonas fluorescens</i> WH6]; e-value 4e ⁻¹⁶⁸ ZP_07777076

PfISS101_5066	<i>exoU</i>	GAGAG	59	No			639	6	1	27	Yes	Hypothetical protein PFLU5718 [<i>Pseudomonas fluorescens</i> SBW25]; e-value 0.0 YP_002875210
PfISS101_5366		GAGG	50	Yes	-50	t ggaact acatctgtataagaag acac aca	427	7	1	26	Yes	Conserved hypothetical protein [<i>Prochlorococcus marinus</i> str. NATL2A]; e-value 3e ⁻¹⁷ gb AAZ58274.1

^a Strains Pf-5, Pf0-1, and SBW25 were not considered in this analysis

^b RBS = Ribosome-binding site

^c Hrp-box is present upstream of *srcM* that encodes RopM-specific chaperone. *srcM* and *ropM* are probably transcribed together.