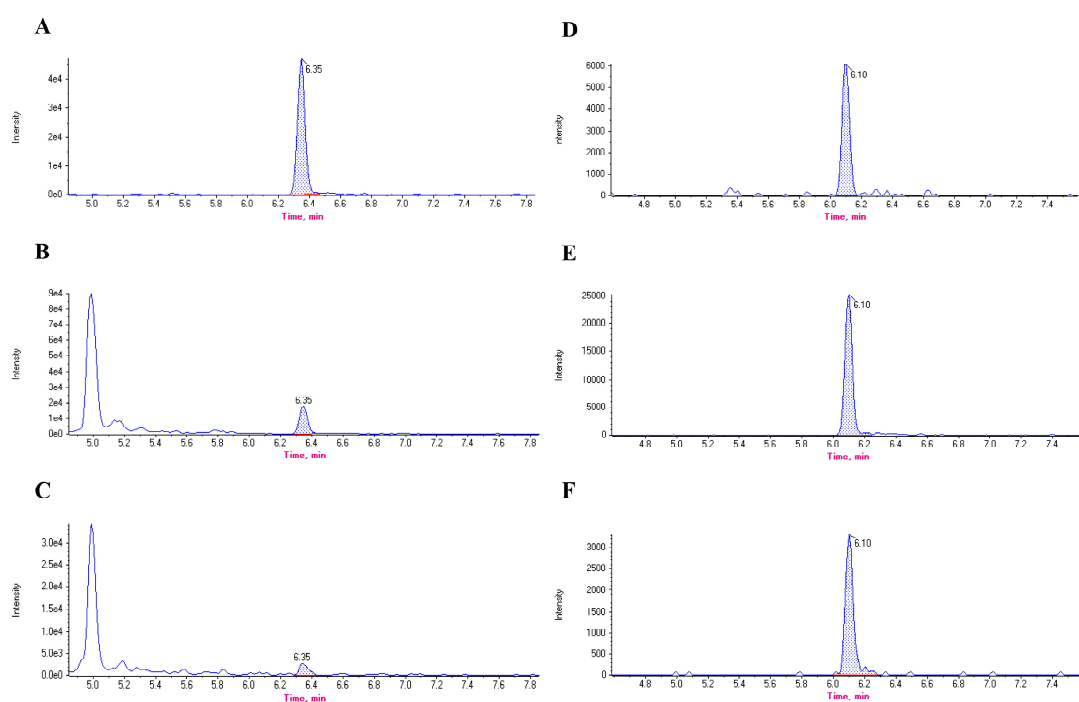
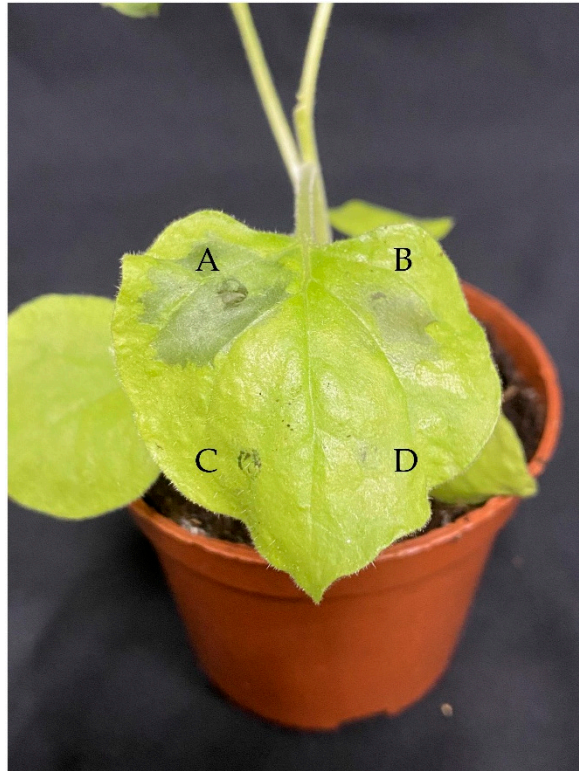


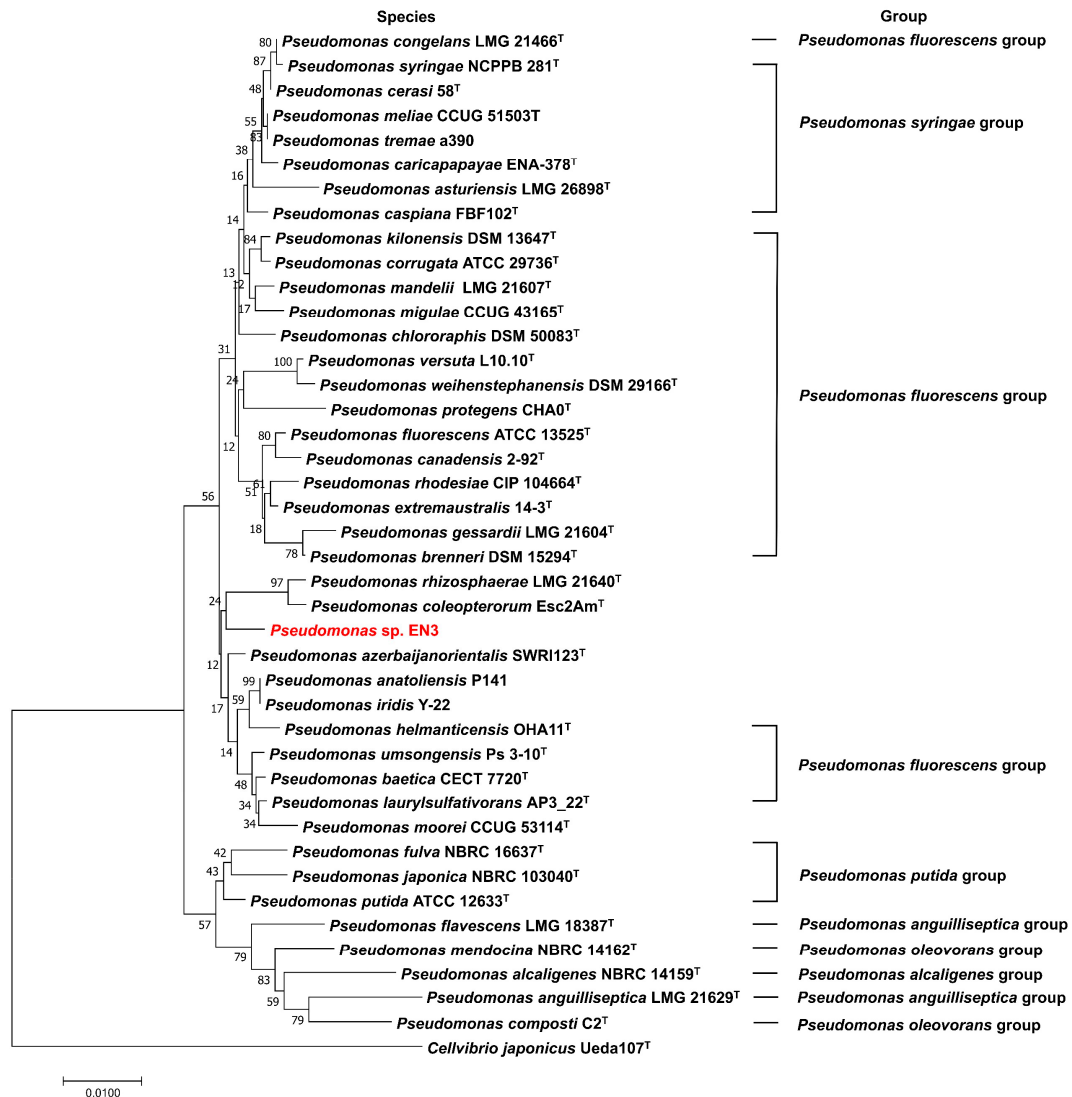
**Figure S1.** Mass spectra of IAA and IAM produced by En3 and DC3000. The spectra were obtained by HPLC-MS/MS. (A) Mass spectrum of the standard sample of IAA.(B) Mass spectrum of IAA produced by En3. (C) Mass spectrum of IAA produced by DC3000. (D) Mass spectrum of the standard sample of IAM. (E) Mass spectrum of IAM produced by En3. (F) Mass spectrum of IAM produced by DC3000.



**Figure S2.** Mass spectrum of IAA synthesis intermediates produced by En3 and DC3000. The spectra were obtained by HPLC-MS/MS. (A) Mass spectrum of the standard sample of IAN. (B) Mass spectrum of IAN produced by En3. (C) Mass spectrum of IAN produced by DC3000. (D) Mass spectrum of the standard sample of IPyA. (E) Mass spectrum of IPyA produced by En3. (F) Mass spectrum of IPyA produced by DC3000.



**Figure S3.** *N. benthamiana* leaves infiltrated with different concentrations of *P. syringae* pv. *tomato* DC3000 and *Pseudomonas* sp. En3. (A) The concentration of DC3000 was  $10^7$  cfu/mL. (B) The concentration of DC3000 was  $10^5$  cfu/mL. (C) The concentration of EN3 was  $10^7$  cfu/mL. (D) The concentration of EN3 was  $10^5$  cfu/mL. Photograph was taken on 2 dpi.



**Figure S4.** Neighbor-joining phylogenetic tree reconstruction based on 16S rRNA genes. Species, representative type strains from six *Pseudomonas* groups. Group, groups of *Pseudomonas*. Numbers at each node indicate the bootstrap percentage (n = 1,000). The superscript letter "T" indicates the type strain.

**Table S1.** Genes associated with colonization activity in *Pseudomonas* sp. En3 genome

Colonization activity	Gene	Gene annotation	Locus
Chemotaxis	<i>cheY</i>	chemotaxis protein CheY	ctg_01821
			ctg_02567
	<i>cheZ</i>	chemotaxis protein CheZ	ctg_01822
	<i>cheA</i>	chemotaxis family, sensor kinase CheA	ctg_01823
			ctg_02569
	<i>cheB</i>	chemotaxis family, glutamate methylesterase	ctg_01824
			ctg_02846
			ctg_02574
	<i>cheD</i>	chemotaxis protein CheD	ctg_02573
	<i>cheW</i>	purine-binding chemotaxis protein CheW	ctg_01828

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		ctg_01829
		ctg_02960
		ctg_02571
<i>cheV</i>	chemotaxis protein CheV	ctg_01005
		ctg_03128
		ctg_01770
<i>cheR</i>	chemotaxis protein methyltransferase CheR	ctg_02847
		ctg_02572
		ctg_01771
<i>motA</i>	chemotaxis protein MotA	ctg_01825
		ctg_04713
<i>motB</i>	chemotaxis protein MotB	ctg_01826
		ctg_04712
<i>wspA</i>	methyl-accepting chemotaxis protein WspA	ctg_01114
<i>wspB</i>	chemotaxis-related protein WspB	ctg_01115
<i>wspC</i>	chemotaxis protein methyltransferase WspC	ctg_01116
<i>wspD</i>	chemotaxis-related protein WspD	ctg_01117
<i>wspE</i>	sensor histidine kinase and response regulator WspE	ctg_01118
<i>wspF</i>	chemotaxis family, response regulator WspF	ctg_01119
<i>wspR</i>	chemotaxis family, response regulator WspR	ctg_01120
<i>mcp</i>	methyl-accepting chemotaxis protein	ctg_01849
		ctg_01909
		ctg_04033
		ctg_00890
		ctg_01016
		ctg_01028
		ctg_01031
		ctg_04833
		ctg_04775
		ctg_03715
		ctg_00530
		ctg_00419
		ctg_00418
		ctg_00405
		ctg_02081
		ctg_00730
		ctg_00729
		ctg_02262
		ctg_02037
		ctg_03393
		ctg_03294
		ctg_03280

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			ctg_03030
			ctg_02961
			ctg_02570
			ctg_02566
			ctg_02382
			ctg_02332
			ctg_01300
			ctg_01656
			ctg_01679
Secretion system	<i>TssA</i>	type VI secretion system protein ImpA	ctg_04499
	<i>hcp</i>	type VI secretion system secreted protein Hcp	ctg_04498
	<i>TssM</i>	type VI secretion system protein ImpL	ctg_04497
			ctg_04495
	<i>TssL</i>	type VI secretion system protein ImpK	ctg_04494
	<i>TssK</i>	type VI secretion system protein ImpJ	ctg_04493
	<i>TssJ</i>	type VI secretion system protein VasD	ctg_04492
	<i>TssH</i>	type VI secretion system protein VasG	ctg_04491
	<i>TssG</i>	type VI secretion system protein ImpH	ctg_04490
	<i>TssF</i>	type VI secretion system protein ImpG	ctg_04489
	<i>TssE</i>	type VI secretion system protein ImpF	ctg_04488
	<i>TssC</i>	type VI secretion system protein ImpC	ctg_04487
	<i>TssB</i>	type VI secretion system protein ImpB	ctg_04486
	<i>vgrG</i>	type VI secretion system secreted protein VgrG	ctg_04483
	<i>hrpL</i>	type III secretion system protein hrpL	ctg_02452
	<i>hrpJ</i>	type III secretion system protein hrpJ	ctg_02451
	<i>hrcV</i>	type III secretion system protein hrcV	ctg_02450
	<i>hrcN</i>	type III secretion system protein	ctg_02448
	<i>hrpP</i>	type III secretion system protein	ctg_02446
	<i>hrcR</i>	type III secretion system protein	ctg_02444
	<i>hrcS</i>	type III secretion system protein	ctg_02443
	<i>hrcT</i>	type III secretion system protein	ctg_02442
	<i>hrcU</i>	type III secretion system protein	ctg_02441
	<i>hrpV</i>	type III secretion system protein	ctg_02435
	<i>HrpT</i>	type III secretion system protein	ctg_02434
	<i>hrpG</i>	type III secretion system protein	ctg_02432
	<i>hrpF</i>	type III secretion system protein	ctg_02431
	<i>hrpD</i>	type III secretion system protein	ctg_02429
	<i>hrcJ</i>	type III secretion system protein	ctg_02428
	<i>hrpB</i>	type III secretion system protein	ctg_02427
	<i>hrpZ</i>	type III secretion system protein	ctg_02426
Effector	<i>avrE</i>	type III secretion system effector	ctg_02440
	<i>CigR</i>	type III secretion system effector	ctg_00188

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*hopJ* type III secretion system effector

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ctg\_00914