

Supplementary Table S7 Copy numbers of signal transduction mechanisms associated genes in the genome of V4 strain and other strains

	Gene	V4	EA_18B1	EP_B64	ER_BY21311	ET_Et1/99	HS_Z67
Two-component system							
1)	cheA	2	1	1	1	1	1
	cheW	2	1	1	1	1	1
	cheY	2	1	1	1	1	1
	cheB	2	2	1	1	1	1
	cheR	2	1	1	1	1	1
	tar	4	3	4	4	4	1
	tsr	2	1	1	1	1	0
	tas	6	4	5	6	1	7
	tap	1	1	1	1	1	1
	tcp	1	0	0	0	0	0
	trg	1	1	1	1	0	0
	cheV2	1	1	1	1	1	1
	ctpL	1	1	1	1	0	0
	mcpA	2	1	1	2	1	1
2)	bvgS	4	4	1	1	0	0
	bvgA	1	1	1	1	1	1
3)	kdpD	1	0	1	1	1	1
	kdpE	1	1	1	1	1	1
4)	phoR	1	1	1	1	1	2
	phoB	1	0	1	1	1	0
5)	cpxA	1	1	1	1	1	0
	cpxR	1	0	1	1	1	1
6)	ntrB	2	1	1	1	1	1
	ntrC	1	1	1	1	1	1
7)	qseC	1	1	1	1	0	3
	qseB	1	1	1	1	0	1
8)	pmrB	1	1	1	1	1	2
	pmrA	1	1	1	1	1	0
9)	phoQ	1	0	1	1	1	0
	phoP	1	1	1	1	1	0
10)	rstB	1	1	1	1	1	0
	rstA	1	0	1	1	1	0
11)	dcuS	1	1	1	1	1	0
	dcuR	1	1	1	1	1	0
12)	rcsC	1	0	1	1	1	0
	rcsB	2	2	2	2	2	1
	rcsD	1	1	1	1	1	0
13)	baeS	1	0	1	1	1	1
	baeR	1	1	1	1	1	1

14)	arcB	1	0	1	1	1	1
	arcA	1	1	1	1	1	0
15)	envZ	1	1	1	1	1	1
	ompR	1	1	1	1	1	1
	barA	1	1	1	1	1	1
	qseE	1	1	1	1	1	1
	gltI	1	1	1	1	1	1
	dgcQ	1	0	0	0	0	0
	aer	1	0	1	1	1	1
	crp	1	1	1	1	1	0
	csrA	1	1	1	1	1	0
	glrR	1	1	1	1	1	1
	narP	1	1	1	1	1	2
	amsI	1	1	1	1	1	0
	PA0034	2	2	0	0	0	0
	uvrY	1	1	1	1	1	2
Quorum sensing							
	qseC	1	1	1	1	0	3
	qseE	1	1	1	1	1	1
	qseB	1	1	1	1	0	1
	crp	1	1	1	1	1	0
	luxS	1	1	1	1	1	0
	glrR	1	1	1	1	1	1
	pdeR	3	0	2	3	1	8
	kdpE	1	0	1	1	1	1

EA_18B1: *Erwinia aphidicola* 18B1, EP_B64: *Erwinia persicina* B64, ER_BY21311: *Erwinia rhapontici* BY21311, ET_Et1/99: *Erwinia tasmaniensis* Et1/99, HS_Z67: *Herbaspirillum seropedicae* Z67