

Table S2

List of the 136 distinct group II intron copies, and their orthology relationships

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Yersinia

Y.p.F1	X			7	X		all <i>Yersinia pestis</i> strains <i>Yersinia enterolitica</i>	A	1143 bp fragment. Corresponds to the Y.p.F1 fragment of Zbase.
Y.e.F1	X	X		1	X			A	563 bp fragment. Corresponds to the Y.e.F1 fragment of Zbase.
evidence of retrohoming									
total	full-length	fragments	frag on plasmid	evidence of retrohoming	Full-length on plasmid	in a MGE			
distinct	8	8	8		plasmidic	(free or intergated)	8	8	
Strain-specific	1	1	1		1	1			

Klebsiella

Kl.bn.F1	X	X		1	X	MGH	C	936 bp fragment in strain-specific 12 kbp GI. 27% aa id with G.s.I1	
Kl.bn.F2	X	X		1	X	NTUH	C	1919 bp fragment in strain-specific 60 kbp integrated plasmid. 24% id aa with Ge.sp.I1 ORF	
Ps.st.I2-tr1	X	X		1	X	MGH	CL1	220 bp fragment 98% similar to the Ps.st.I2 reference. In the same plasmid than S.ma.I1-2	
Kl.bn.I5-1	X		X	X	1	MGH	E1	Evidence of retrohoming (MAGE comparison with NTUH)	
Kl.bn.I5-2	X		X	X	1	MGH	E1		
evidence of retrohoming									
total	full-length	fragments		plasmidic	in a MGE				
distinct	5	2	3		2	4			
Strain-specific	5	2	3		2	4			

Dickeya

Di.da.I1	X			2		<i>D.dadantii</i> , <i>D.zeae</i>	ML	Probably resulting from two independent insertions : 99% identity between the two introns, 90% for the flanking sequence	
Di.ze.I1-1	X		X	X	1	<i>D.zeae</i>	C	Evidence of retrohoming (MAGE comparison with <i>D. dadantii</i>)	
Di.ze.I1-2	X		X	X	1	<i>D.zeae</i>	C	Evidence of retrohoming (MAGE comparison with <i>D. dadantii</i>)	
evidence of retrohoming									
total	full-length	fragments		plasmidic	in a MGE				
distinct	4	4		2	2				
Strain-specific	3	3		2	2				

Photobacterium

P.I.I1-1	X		X	1	X	<i>P. luminescens</i>	E1	Strain-specific 90 bp GI.	
P.I.I1-tr1	X	X		1		<i>P. luminescens</i>	E1	1568 bp fragment 98-96% similar to P.I.I1-1 truncated by P.I.I2 and interrupted by an IS	
P.I.I1-tr2	X	X		1		<i>P. luminescens</i>	E1	171 bp fragment 94% similar to P.I.I1-1	
P.I.I1-tr3	X	X		1		<i>P. luminescens</i>	E1	244 bp fragment 95% similar to P.I.I1-1	
P.I.I2-1	X		X	1		<i>P. luminescens</i>	D		
P.I.F1	X		X	2		<i>P. luminescens</i> , <i>P. asymbiotica</i>	ML	181-259 bp fragment 86-88% similar to Di.ze.I2	
P.I.F2	X	X		1		<i>P. luminescens</i>	ML	325 bp fragment 81% similar to Di.ze.I2	
P.I.F3	X	X		1		<i>P. luminescens</i>	ML	182 bp fragment 90% similar to Di.ze.I2. 25 bp away from P.I.F2.	
P.I.F4	X	X		1		<i>P. luminescens</i>	D	135 bp fragment 75% similar to Zu.pr.I1	
evidence of retrohoming									
total	full-length	fragments		plasmidic	in a MGE				
distinct	10	2	8		1				
Strain-specific	8	2	6		1				

Serratia proteomaculans

Se.pr.F1	X	X		1		<i>S. proteomaculans</i>	C	978 bp fragment, with a full-length ORF. 26% id aa with Ha.ch.I2 ORF	
Se.pr.F2	X	X		1		<i>S. proteomaculans</i>	C	196 bp fragment 95% similar to Se.pr.F1	
Se.pr.F3	X	X		1		<i>S. proteomaculans</i>	C	118 bp fragment 75% similar to Kl.bn.F2	
evidence of retrohoming									
total	full-length	fragments		plasmidic	in a MGE				
distinct	3	3			1				
Strain-specific	3	3			1				

Sodalis glossinidius

So.gl.I1-1	X		X	1		<i>S. glossinidius</i>	C	95-97% similar to So.gl.I1-3. Interrupted by an internal deletion and IS insertion	
So.gl.I1-2	X		X	1		<i>S. glossinidius</i>	C	99% similar to So.gl.I1-3	
So.gl.I1-3	X		X	1		<i>S. glossinidius</i>	C		
So.gl.I1-tr1	X	X		1		<i>S. glossinidius</i>	C	806 bp fragment 94-96% similar to So.gl.I1-3	
So.gl.I1-tr2	X	X		1		<i>S. glossinidius</i>	C	487 bp fragment 97% similar to So.gl.I1-3	
So.gl.F1	X	X		1		<i>S. glossinidius</i>	C	379 bp fragment 87% similar to A.v.I2	
So.gl.F2	X	X		1	X	<i>S. glossinidius</i>	C	846 bp fragment 75% similar to A.v.I4. Adjacent to So.gl.tr2	
So.gl.F3	X	X		1	X	<i>S. glossinidius</i>	E1	279 bp fragment 80% similar to P.I.I1	
evidence of retrohoming									
total	full-length	fragments		plasmidic	in a MGE				
distinct	8	3	5		1	1			
Strain-specific	8	3	5		1	1			

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Hamiltonella

c-Ha.de.I1-1	X	X	1	X	<i>Hamiltonella defensa</i>	CL1	All c-Ha.de.I1 have 44-47% id aa with Sm.av.I1 ORF
c-Ha.de.I1-2	X	X	1		<i>Hamiltonella defensa</i>	CL1	And ≥ 94% similar to each other
c-Ha.de.I1-3	X	X	1		<i>Hamiltonella defensa</i>	CL1	
c-Ha.de.I1-4	X	X	1		<i>Hamiltonella defensa</i>	CL1	
c-Ha.de.I1-5	X	X	1		<i>Hamiltonella defensa</i>	CL1	
c-Ha.de.I1-6	X	X	1		<i>Hamiltonella defensa</i>	CL1	
c-Ha.de.I1-7	X	X	1		<i>Hamiltonella defensa</i>	CL1	
c-Ha.de.I1-8	X	X	1		<i>Hamiltonella defensa</i>	CL1	
c-Ha.de.I1-9	X	X	1	X	<i>Hamiltonella defensa</i>	CL1	
c-Ha.de.I1-10	X	X	1	X	<i>Hamiltonella defensa</i>	CL1	
c-Ha.de.I1-11	X	X	1		<i>Hamiltonella defensa</i>	CL1	
c-Ha.de.I1-12	X	X	1		<i>Hamiltonella defensa</i>	CL1	
c-Ha.de.I1-13	X	X	1	X	<i>Hamiltonella defensa</i>	CL1	
c-Ha.de.I1-14	X	X	1		<i>Hamiltonella defensa</i>	CL1	
c-Ha.de.I1-15	X	X	1		<i>Hamiltonella defensa</i>	CL1	
c-Ha.de.I1-16	X	X	1		<i>Hamiltonella defensa</i>	CL1	
c-Ha.de.I1-17	X	X	1		<i>Hamiltonella defensa</i>	CL1	
c-Ha.de.I1-18	X	X	1		<i>Hamiltonella defensa</i>	CL1	
c-Ha.de.I1-19	X	X	1		<i>Hamiltonella defensa</i>	CL1	
c-Ha.de.I1-20	X	X	1	X	<i>Hamiltonella defensa</i>	CL1	
c-Ha.de.I1-21	X	X	1	X	<i>Hamiltonella defensa</i>	CL1	
c-Ha.de.I1-22	X	X	1		<i>Hamiltonella defensa</i>	CL1	
c-Ha.de.I1-23	X	X	1		<i>Hamiltonella defensa</i>	CL1	
c-Ha.de.I1-24	X	X	1		<i>Hamiltonella defensa</i>	CL1	
c-Ha.de.I1-25	X	X	1		<i>Hamiltonella defensa</i>	CL1	
c-Ha.de.I1-26	X	X	1		<i>Hamiltonella defensa</i>	CL1	
c-Ha.de.I1-27	X	X	1		<i>Hamiltonella defensa</i>	CL1	
c-Ha.de.I1-28	X	X	1		<i>Hamiltonella defensa</i>	CL1	
c-Ha.de.I1-29	X	X	1	X	<i>Hamiltonella defensa</i>	CL1	
c-Ha.de.I1-tr1		X	1		<i>Hamiltonella defensa</i>	CL1	2212 bp fragment 95% similar to the c-Ha.de.I1 reference
c-Ha.de.I1-tr2		X	1	X	<i>Hamiltonella defensa</i>	CL1	129 bp fragment 94% similar to the c-Ha.de.I1 reference
c-Ha.de.I1-tr3		X	1		<i>Hamiltonella defensa</i>	CL1	1869 bp fragment 94% similar to the c-Ha.de.I1 reference
c-Ha.de.I1-tr4		X	1		<i>Hamiltonella defensa</i>	CL1	585 bp fragment 94% similar to the c-Ha.de.I1 reference
c-Ha.de.I2-1	X	X	1		<i>Hamiltonella defensa</i>	CL1	interrupted by an IS insertion. 50% id aa with E.c.I5 ORF
c-Ha.de.F1		X	1		<i>Hamiltonella defensa</i>	CL1	147 bp fragment 76% similar to Th.e.I8
c-Ha.de.F2		X	1		<i>Hamiltonella defensa</i>	CL1	145 bp fragment 88% similar to c-Ha.de.F1
c-Ha.de.F3		X	1		<i>Hamiltonella defensa</i>	CL1	145 bp fragment 85% similar to c-Ha.de.F1
c-Ha.de.F4		X	1		<i>Hamiltonella defensa</i>	CL1	126 bp fragment 83% similar to E.c.I8

	full-length	fragments	evidence of retrohoming	in a MGE plasmidic (free or intergrated)		classes
total	38	30	8	1	8	CL1
distinct	38	30	8	1	8	
Strain-specific	38	30	8	1	8	

	full-length	fragments	evidence of retrohoming	in a MGE plasmidic (free or intergrated)		classes
TOTAL	198	87	111	5	66	A,C,D,CL1,ML,E1,F
distinct	135	80	55	5	31	
Strain-specific	109	72	37	5	16	
					113	
					70	
					60	