

Table S1. Insertion sequences identified in the genome of <i>D. deserti</i> and comparison with other <i>Deinococcus/Thermus</i> species											
A. IS elements identified in the genome of <i>D. deserti</i>											
name	family (subgroup)	chromosome		plasmid 1		plasmid 2		plasmid 3		total genome	
		complete	partial	complete	partial	complete	partial	complete	partial	complete	partial
ISDds1	IS3 (IS3)	2		1		2				5	
ISDds2	IS4 (IS10)	1			1					1	1
ISDds3	IS4 (IS10)			1	2				1	1	3
ISDds4	IS982				1			1		1	1
ISDds5	IS982							1		1	
ISDds6	IS701							1		1	
ISDds7	IS4 (IS10)	1	1							1	1
ISDds8	IS630	1								1	
ISDds9	IS5 (IS427)			1						1	
-	IS5 (IS1031)		1		4		1		1		7
-	IS5 (IS427)						1				1
-	IS5 (ISL2)		1								1
-	IS6								1		1
-	IS30		1								1
-	IS200/IS605 (ORFB)								1		1
-	IS630								3		3
-	IS701				1						1
-	IS982		1				1		1		3
total		5	5	3	9	2	3	3	8	13	25

B. Comparison of IS family copy number and composition in three deinococci and <i>T. thermophilus</i>										
	<i>D. deserti</i>		<i>D. radiodurans</i>		<i>D. geothermalis</i>		<i>T. thermophilus</i> HB27		<i>T. thermophilus</i> HB8	
IS family	complete	partial	complete	partial	complete	partial	complete	partial	complete	partial
IS1					19	1				
IS1595										
IS3	5					4	1	1		
IS481				1						
IS4	3	5	21	17	6	7	1	2		
ISH3										
IS701	1	1			17	6	2	5		3
IS1634							3	1		
IS5	1	9	2		10	3	6	4	7	3
IS1182										
IS6		1			8	6				
IS21										
IS30		1								
IS256							1	1	8	
IS630	1	3	11		1		4	3	2	2
IS982	2	4			1	1				
ISAs1										
IS66										
IS110							2	48	3	59
IS91										
IS200/IS605		1	10	1	4	4				1
IS607										
IS1380										
ISL3										
ISNCY subgroup			1		6	4				
ISBst12										
Tn3			1			3				
Total	13	25	46	19	72	39	20	65	20	68
%	0.41	0.30	1.89	0.44	2.23	0.75	0.92	0.56	1.04	0.32