

Table S4. Homology between the DNA molecules of <i>D. deserti</i>, <i>D. radiodurans</i> and <i>D. geothermalis</i>				
A. Homology between <i>D. deserti</i> and <i>D. geothermalis</i> ^{a,b}				
<i>D. deserti</i>	<i>D. geothermalis</i> Chromosome	<i>D. geothermalis</i> Plasmid 1	<i>D. geothermalis</i> Plasmid 2	
Chromosome	1804 (1648.3)	104 (244.2)	15 (30.5)	
Plasmid P1	49 (85.7)	41 (12.7)	10 (1.6)	
Plasmid P2	67 (146.6)	98 (21.7)	6 (2.7)	
Plasmid P3	78 (117.4)	53 (17.4)	6 (2.2)	
B. Homology between <i>D. deserti</i> and <i>D. radiodurans</i> ^{a,b}				
<i>D. deserti</i>	<i>D. radiodurans</i> Chromosome 1	<i>D. radiodurans</i> Chromosome 2	<i>D. radiodurans</i> Megaplasmid	<i>D. radiodurans</i> Plasmid
Chromosome	1686 (1587.5)	105 (177.2)	29 (54.5)	1 (1.7)
Plasmid P1	49 (66.3)	18 (7.4)	8 (2.3)	1 (0.07)
Plasmid P2	70 (128.2)	60 (14.3)	17 (4.4)	0 (0.13)
Plasmid P3	58 (81.1)	25 (9.1)	10 (2.8)	0 (0.09)

^a The observed number of orthologous proteins encoded on the different DNA molecules of *D. deserti* vs. *D. geothermalis* (A) and vs. *D. radiodurans* (B).

^b In brackets, expected values in case orthologous relationships are independent of genome location.