Supplementary Information

4	Fig. S1. Electron micrographs of G.obscuriglobus cells, stained for DNA, confirmed
5	densely packed chromatin morphology. Transmission electron micrographs of G.
6	obscuriglobus, high-pressure frozen and freeze-substituted, were cut into thin sections and
7	stained with the DNA-specific stain, osmium-amine B (see Materials and Methods section).
8	Packed, confined DNA regions are visible (white arrowheads). Scale bars, 500 nm.
9	
10	Fig. S2. G. obscuriglobus tolerate high levels of UVC in comparison to w.t E.coli. Actively
11	growing cultures of w.t E. coli (AB1157) were irradiated with increasing doses of UV radiation
12	using a germicidal UVC lamp. The results were plotted against the values achieved for G .
13	obscuriglobus and the corresponding D_{10} values were calculated as in (21), and found to be
14	164.8 J/m ² and 675. 8 J/m ² , respectively .





