Electronic Supplementary Material

Diversity and abundance of n-alkane degrading bacteria in the near surface soils of a Chinese onshore oil and gas field

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Table S1. *alkB* gene copy numbers pre gram of the 70-bp T-RF, 74-bp T-RF and 133-bp T-RF*

	70 bp (*Alcanivorax*)		74 bp (*Acinetobacter* & *Marinobacter*)		133 bp (*Mycobacterium* and *Rhodococcus*)	
	alkB gene copy numbers (gram^{-1} dry soil)	Standard deviation	*alkB* gene copy numbers (gram^{-1} dry soil)	Standard deviation	*alkB* gene copy numbers (gram^{-1} dry soil)	Standard deviation
BS1	5.60E+06	6.61E+05	8.19E+06	3.84E+05	1.53E+07	2.71E+06
BS2	3.57E+06	2.52E+05	6.00E+06	9.64E+05	1.86E+07	2.68E+06
BS3	4.67E+06	5.92E+05	6.05E+06	4.86E+05	1.33E+07	1.54E+06
OS1	1.89E+07	2.30E+06	2.69E+07	5.08E+06	8.86E+06	1.12E+06
OS2	1.37E+07	2.49E+06	2.99E+07	5.56E+06	1.05E+07	1.24E+06
OS3	1.59E+07	8.23E+05	2.57E+07	2.14E+05	8.40E+06	1.62E+06
GS1	1.10E+07	7.10E+05	2.16E+07	2.33E+06	1.39E+07	9.49E+05
GS2	1.11E+07	1.46E+06	2.29E+07	1.65E+06	1.24E+07	8.81E+03
GS3	1.25E+07	2.20E+06	1.76E+07	1.74E+06	1.33E+07	1.55E+06

*The absolute *alkB* gene copy numbers of each T-RF were calculated by multiplication of its relative abundance by the total *alkB* gene copy number from different samples.

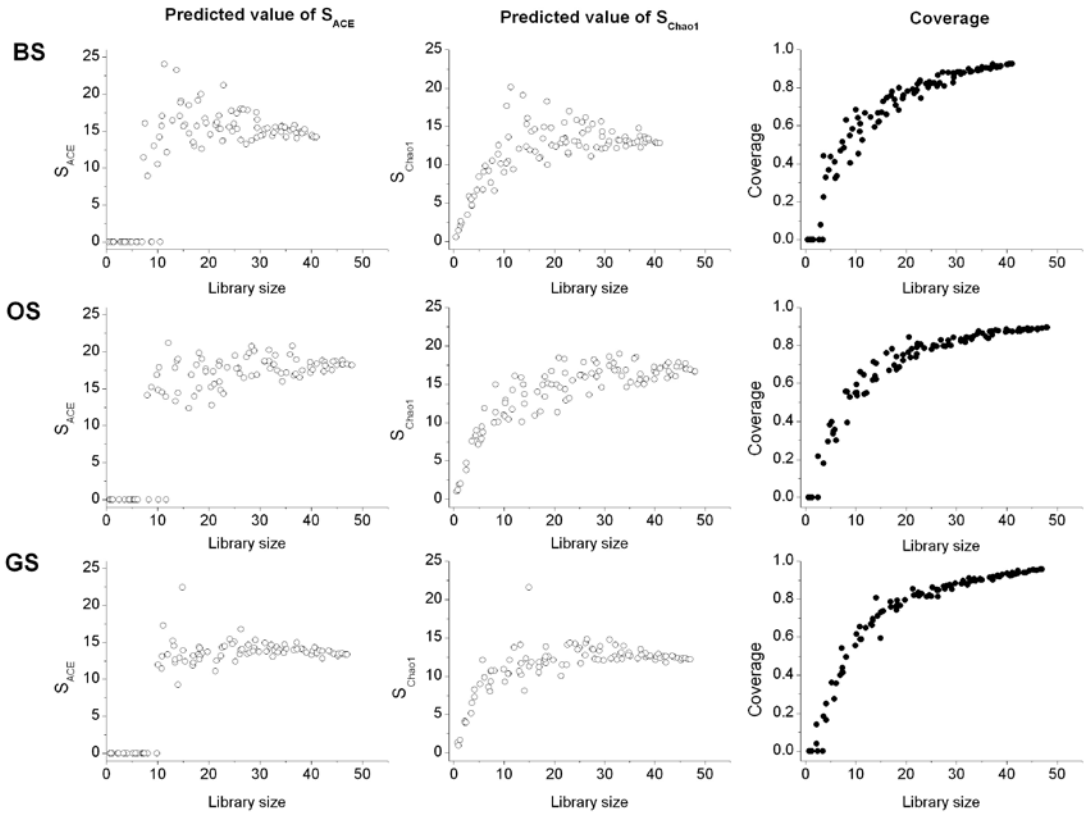

Figure S1. The final estimates of S_{ACE}, S_{Chao1} and the fraction of estimated phylotype richness values actually recovered in the libraries of background soil (BS), oilfield surface soil (OS) and gasfield surface soil (GS).

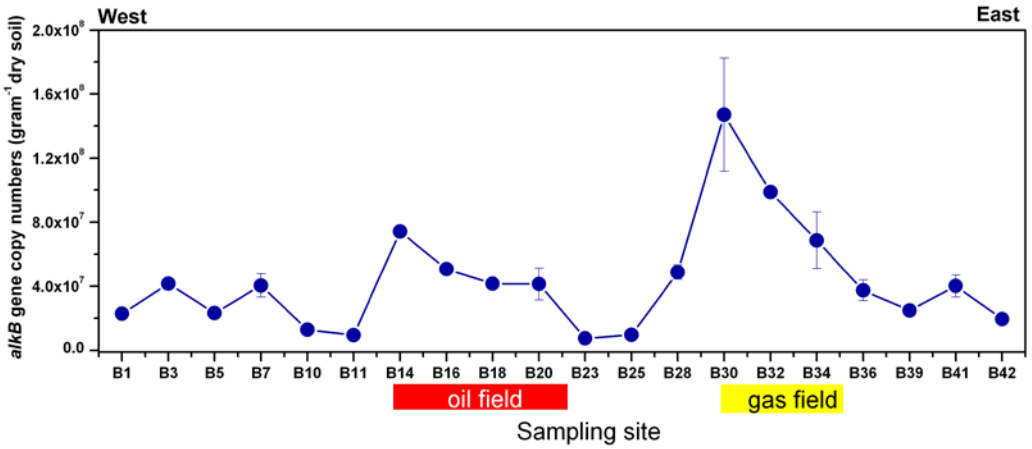

Figure S2. Biogeographical distribution of *alkB* gene copy numbers of soil samples collected from east-west direction survey line of Shaozhuang oil and gas field (n = 3). B3, B14 and B34 sampling site are representing background soil, oil field soil and gas field soil for T-RFLP and clone library analyses, respectively. All soils were collected at a depth of 60 cm.