

Table S1. The primers used for amplification of *gltA* and *groEL* genes from *Candidatus* Lariskella guizhouensis by hemi-nested PCR.

Primer	Gene	Cycle	Sequence	Anticipated Amplicon Length
LariEL-ex5	<i>groEL</i>	1	5-CCWMAADTYACWAARGATGGWGT-3	450 bp
LariEL-ex3	<i>groEL</i>	1	5-TTKNARYTTYTCYTTATCRTADTC-3	
LariEL-in3	<i>groEL</i>	2	5-TTTCKTCTRTCDCCRANCC-3	
LariGltex5	<i>gltA</i>	1	5-CATGCTGATCAYGARCAAAATGC-3	650 bp
LariGlt3	<i>gltA</i>	1	5-TCTTCHGGAGCYAAYCCDTTGTG-3	
LariGltin5	<i>gltA</i>	2	5-TCWTCVATCATTTCTTTCCATTGAG-3	