

Table S4 Genbank numbers of *Rickettsia*, *Anaplasma*, and *Coxiella* sequences obtained in this study.

	Gene	Genbank numbers	Bacterial strain
1	16S	OK560068	<i>Anaplasma_bovis_yak64</i>
2	16S	OK560069	<i>Anaplasma_bovis_yak33</i>
3	16S	OK560070	<i>Anaplasma_bovis_yak67</i>
4	16S	OK560071	<i>Anaplasma_bovis_yak30</i>
5	16S	OK560072	<i>Anaplasma_bovis_goat6</i>
6	16S	OK560073	<i>Anaplasma_bovis_goat8</i>
7	16S	OK560074	<i>Anaplasma_bovis_goat9</i>
8	16S	OK560075	<i>Anaplasma_bovis_goat10</i>
9	16S	OK560076	<i>Anaplasma_bovis_tick103</i>
10	16S	OK560101	<i>Coxiella-like_bacterium_goat12</i>
11	16S	OK560102	<i>Coxiella_sp._tick8</i>
12	16S	OK560103	<i>Coxiella_sp._tick103</i>
13	16S	OK560104	<i>Coxiella_sp._tick166</i>
14	16S	OK560105	<i>Coxiella_sp._yak17</i>
15	16S	OK662394	<i>Candidatus_Rickettsia_jingxinensis_tick26</i>
16	16S	OK662393	<i>Candidatus_Rickettsia_jingxinensis_tick28</i>
17	16S	OK662395	<i>Candidatus_Rickettsia_hongyuanensis_tick61</i>
18	16S	OK662396	<i>Rickettsia_sp._tick14</i>
19	<i>gltA</i>	OK625713	<i>Anaplasma_bovis_goat6</i>
20	<i>gltA</i>	OK625714	<i>Anaplasma_bovis_goat8</i>
21	<i>gltA</i>	OK625715	<i>Anaplasma_bovis_goat9</i>
22	<i>gltA</i>	OK625716	<i>Anaplasma_bovis_goat10</i>
23	<i>gltA</i>	OK625717	<i>Anaplasma_bovis_tick103</i>
24	<i>gltA</i>	OK625718	<i>Anaplasma_bovis_yak30</i>
25	<i>gltA</i>	OK625719	<i>Anaplasma_bovis_yak33</i>
26	<i>gltA</i>	OK625720	<i>Anaplasma_bovis_yak64</i>
27	<i>gltA</i>	OK625721	<i>Anaplasma_bovis_yak67</i>
28	<i>gltA</i>	OK625736	<i>Candidatus_Rickettsia_jingxinensis_tick26</i>
29	<i>gltA</i>	OK625737	<i>Candidatus_Rickettsia_jingxinensis_tick28</i>
30	<i>gltA</i>	OK625738	<i>Candidatus_Rickettsia_hongyuanensis_tick61</i>
31	<i>groEL</i>	OK625722	<i>Anaplasma_bovis_goat6</i>
32	<i>groEL</i>	OK625723	<i>Anaplasma_bovis_goat8</i>
33	<i>groEL</i>	OK625724	<i>Anaplasma_bovis_goat9</i>
34	<i>groEL</i>	OK625725	<i>Anaplasma_bovis_goat10</i>
35	<i>groEL</i>	OK625726	<i>Anaplasma_bovis_yak30</i>
36	<i>groEL</i>	OK625727	<i>Anaplasma_bovis_yak33</i>
37	<i>groEL</i>	OK625728	<i>Anaplasma_bovis_yak64</i>
38	<i>groEL</i>	OK625729	<i>Anaplasma_bovis_yak67</i>

39	<i>groEL</i>	OK625730	<i>Anaplasma_bovis_tick103</i>
40	<i>groEL</i>	ON409664	<i>Candidatus_Rickettsia_jingxinensis_tick26</i>
41	<i>groEL</i>	ON409665	<i>Candidatus_Rickettsia_jingxinensis_tick28</i>
42	<i>groEL</i>	ON409666	<i>Candidatus_Rickettsia_hongyuanensis_tick61</i>
43	<i>groEL</i>	ON409663	<i>Rickettsia_sp._tick14</i>
44	<i>groEL</i>	OK625731	<i>Coxiella_sp._tick103</i>
45	<i>groEL</i>	OK625732	<i>Coxiella_sp._tick166</i>
46	<i>rpoB</i>	OK625733	<i>Coxiella_sp._tick8</i>
47	<i>rpoB</i>	OK625734	<i>Coxiella_sp._tick103</i>
48	<i>rpoB</i>	OK625735	<i>Coxiella_sp._tick166</i>
49	<i>ompA</i>	OL335946	<i>Candidatus_Rickettsia_jingxinensis_tick26</i>
50	<i>ompA</i>	OL335947	<i>Candidatus_Rickettsia_jingxinensis_tick28</i>
51	<i>ompA</i>	OL335948	<i>Candidatus_Rickettsia_hongyuanensis_tick61</i>
52	<i>htrA</i>	OM802186	<i>Candidatus_Rickettsia_hongyuanensis_tick61</i>
53	<i>htrA</i>	OM802187	<i>Candidatus_Rickettsia_jingxinensis_tick26</i>
54	<i>ompB</i>	OM802188	<i>Candidatus_Rickettsia_hongyuanensis_tick61</i>
55	<i>ompB</i>	OM802189	<i>Candidatus_Rickettsia_jingxinensis_tick26</i>
56	<i>ompB</i>	OM802190	<i>Candidatus_Rickettsia_jingxinensis_tick28</i>

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