

**Supplemental Table S6.** GenBank accession numbers for *Pneumocystis* sequences involved in this study.

Species and strains	mtLSU	mtSSU	mtDNA	rDNA	<i>dhps</i>
<i>P. sp. 'townsendii'</i> variant 1	PP477327	PP477339	PP484880	PP476603	PP477274
<i>P. sp. 'townsendii'</i> variant 2	PP477328	PP477340	PP484881	PP476604	PP477275
<i>P. sp. 'townsendii'</i> variant 3	PP477329	PP477341	n/a	n/a	n/a
<i>P. sp. 'townsendii'</i> variant 4	n/a	PP477342	n/a	n/a	n/a
<i>P. sp. 'townsendii'</i> variant 5	n/a	PP477343	n/a	n/a	n/a
<i>P. oryctolagi</i> variant 1	PP477330	PP477344	n/a	n/a	n/a
<i>P. oryctolagi</i> variant 2	PP477331	PP477344	n/a	n/a	n/a
<i>P. oryctolagi</i> RABM	MT726213*	MT726213*	MT726213 <sup>†</sup>	MT780543 <sup>†</sup>	PORY_002119 <sup>†</sup>
<i>P. canis</i> AU	MT726217*	MT726217*	MT726217 <sup>†</sup>	MT780538 <sup>†</sup>	PCANB_001404 <sup>†</sup>
<i>P. macacae</i> P2C	MT726214*	MT726214*	MT726214 <sup>†</sup>	MT780541 <sup>†</sup>	PMAC_002379 <sup>†</sup>
<i>P. jirovecii</i> RU7	NC_020331*	NC_020331*	NC_020331 <sup>†</sup>	MT780540 <sup>†</sup>	T551_02230 <sup>†</sup>
<i>P. carinii</i> B80	JX499145*	JX499145*	JX499145 <sup>†</sup>	MT780539 <sup>†</sup>	T552_03074 <sup>†</sup>
<i>P. wakefieldiae</i> 2A	MT726211	MT726211*	MT726211 <sup>†</sup>	MT780544 <sup>†</sup>	MERGE_001568 <sup>†</sup>
<i>P. murina</i> B123	JX499144*	JX499144*	JX499144 <sup>†</sup>	MT780542 <sup>†</sup>	PNEG_03560 <sup>†</sup>
<i>P. ludoviciani</i> <sup>φ</sup>	MT726212*	MT726212*	MT726212	PP476606	PP477272
<i>Pneumocystis</i> in squirrel	PP484879*	PP484879*	PP484879	PP476605	PP477273
<i>Pneumocystis</i> in ferret	P477333	PP477345	n/a	n/a	n/a
<i>Pneumocystis</i> in pig	P477334	PP477346	n/a	n/a	n/a
<i>Pneumocystis</i> in goat	P477337	PP477349	n/a	n/a	n/a
<i>Pneumocystis</i> in shrew	P477336	PP477348	n/a	n/a	n/a
<i>Pneumocystis</i> in river rat	P477335	PP477347	n/a	n/a	n/a
<i>Pneumocystis</i> in cat	P477338	PP477350	n/a	n/a	n/a

\* Included in the respective mtDNA sequences.

<sup>†</sup> From previous genome studies by Ma *et al.* [30] and Cisse *et al.* [24], with the *dhps* sequences available from GenBank using the locus tags listed.

<sup>φ</sup> *Pneumocystis* from the black-tailed prairie dog recently registered in MycoBank with ID: MBT10019263 (<https://www.mycobank.org>).

Abbreviations: mtSSU, mitochondrial small-subunit rRNA gene; mtLSU, mitochondrial large-subunit rRNA gene; mtDNA, mitochondrial genome DNA; rDNA, nuclear rRNA operon; *dhps*, dihydropteroate synthase gene; n/a, not available.