

**Table S2.** DNA diagnostic characters of buffalo leeches genus *Hirudinaria*. Red color represents diagnostic character. Orange color represents partial character.

Species/Nucleotide position	24	27	28	31	42	46	51	57	69	78	82	87
<i>Hirudinaria bpling</i>												
<i>Hirudinaria javanica</i>	C	G	G	C								G
<i>Hirudinaria manillensis</i> sp. 1					G			A	T	C	G	
<i>Hirudinaria manillensis</i> sp. 3						T	G					
<i>Hirudinaria thailandica</i>												
Species/Nucleotide position	96	99	102	111	114	117	150	153	168	171	177	195
<i>Hirudinaria bpling</i>												
<i>Hirudinaria javanica</i>				C		C	C			C		
<i>Hirudinaria manillensis</i> sp. 1	G				A				C			A
<i>Hirudinaria manillensis</i> sp. 3		G	A		G			G				
<i>Hirudinaria thailandica</i>												G
Species/Nucleotide position	198	204	207	222	231	234	237	240	243	252	270	277
<i>Hirudinaria bpling</i>			C					C				
<i>Hirudinaria javanica</i>	G	C					G		G	A		
<i>Hirudinaria manillensis</i> sp. 1				G		G						
<i>Hirudinaria manillensis</i> sp. 3		A			C						T	C
<i>Hirudinaria thailandica</i>												
Species/Nucleotide position	279	282	291	301	309	312	318	319	324	325	326	330
<i>Hirudinaria bpling</i>						T						
<i>Hirudinaria javanica</i>				C						T		
<i>Hirudinaria manillensis</i> sp. 1		T						G			A	
<i>Hirudinaria manillensis</i> sp. 3	T				T		G					C
<i>Hirudinaria thailandica</i>			G						G			
Species/Nucleotide position	351	357	372	373	375	390	396	417	429	431	450	486
<i>Hirudinaria bpling</i>		T				T		T	G			
<i>Hirudinaria javanica</i>	C			T		C					A	

