

**Supplementary file 4: Supplementary Table 1.** Trypanosomes identified based on ITS1 gene sequence from different host included in Fig.6

<b>Sequence ID</b>	<b>organism</b>	<b>isolation-source</b>	<b>Host</b>	<b>Gene bank Accession number</b>
<b>4 ITS1</b>	<i>Trypanosoma brucei</i>	the whole fly	<i>Glossina pallidipes</i>	<b>MH247139</b>
<b>4B ITS1</b>	<i>Trypanosoma vivax</i>	blood	camel	<b>MH247140</b>
<b>5 ITS1</b>	<i>Trypanozoon sp.</i>	the whole fly	<i>Hippobosca camelina</i>	<b>MH247141</b>
<b>5B ITS1</b>	<i>Trypanosoma vivax</i>	the whole fly	<i>Hippobosca camelina</i>	<b>MH247142</b>
<b>7B ITS1</b>	<i>Trypanosoma vivax</i>	blood	camel	<b>MH247145</b>
<b>8 ITS1</b>	<i>Trypanozoon sp.</i>	the whole fly	<i>Hippobosca camelina</i>	<b>MH247146</b>
<b>8B ITS1</b>	<i>Trypanosoma vivax</i>	blood	Camel	<b>MH247147</b>
<b>9 ITS1</b>	<i>Trypanozoon sp.</i>	the whole fly	<i>Hippobosca camelina</i>	<b>MH247148</b>
<b>9B ITS1</b>	<i>Trypanosoma vivax</i>	blood	Camel	<b>MH247149</b>
<b>10b ITS1</b>	<i>Trypanosoma vivax</i>	the whole fly	<i>Hippobosca camelina</i>	<b>MH247150</b>
<b>11 ITS1</b>	<i>Trypanozoon sp.</i>	the whole fly	<i>Hippobosca camelina</i>	<b>MH247151</b>
<b>11B ITS1</b>	<i>Trypanosoma vivax</i>	the whole fly	<i>Hippobosca camelina</i>	<b>MH247152</b>
<b>12 ITS1</b>	<i>Trypanozoon sp.</i>	the whole fly	<i>Hippobosca camelina</i>	<b>MH247153</b>
<b>13 ITS1</b>	<i>Trypanozoon sp.</i>	the whole fly	<i>Hippobosca camelina</i>	<b>MH247154</b>
<b>16 ITS1</b>	<i>Trypanozoon sp.</i>	blood	Camel	<b>MH247155</b>
<b>17 ITS1</b>	<i>Trypanozoon sp.</i>	the whole fly	<i>Hippobosca camelina</i>	<b>MH247156</b>
<b>18 ITS1b</b>	<i>Trypanosoma evansi_A</i>	blood	Camel	<b>MH247157</b>
<b>20 ITS1</b>	<i>Trypanozoon sp.</i>	blood	Camel	<b>MH247158</b>

<b>21_ITS1b</b>	<i>Trypanosoma evansi</i>	blood	Camel	<b>MH247159</b>
<b>22_ITS1</b>	<i>Trypanosoma brucei</i>	blood	Camel	<b>MH247160</b>
<b>23_ITS1</b>	<i>Trypanozoon sp.</i>	blood	Camel	<b>MH247161</b>
<b>24_ITS1</b>	<i>Trypanozoon sp.</i>	blood	Camel	<b>MH247162</b>
<b>25_ITS1</b>	<i>Trypanozoon sp.</i>	blood	Camel	<b>MH247163</b>
<b>28_ITS1</b>	<i>Trypanozoon sp.</i>	The whole fly	<i>Hippobosca camelina</i>	<b>MH247165</b>
<b>29_ITS1</b>	<i>Trypanosoma brucei</i>	blood	camel	<b>MH247166</b>
<b>30_ITS1b</b>	<i>Trypanosoma brucei</i>	blood	camel	<b>MH247167</b>
<b>31_ITS1</b>	<i>Trypanozoon sp.</i>	blood	camel	<b>MH247168</b>
<b>32_ITS1</b>	<i>Trypanosoma evansi_A</i>	blood	camel	<b>MH247169</b>
<b>33_ITS1</b>	<i>Trypanozoon sp.</i>	blood	camel	<b>MH247170</b>
<b>35_ITS1</b>	<i>Trypanosoma evansi</i>	the whole fly	<i>Hippobosca camelina</i>	<b>MH247172</b>
<b>37_ITS1b</b>	<i>Trypanozoon sp.</i>	blood	camel	<b>MH247173</b>
<b>38_ITS1</b>	<i>Trypanosoma evansi</i>	blood	camel	<b>MH247174</b>
<b>39_ITS1</b>	<i>Trypanosoma evansi_A</i>	the whole fly	<i>Stomoxys calcitrans</i>	<b>MH247175</b>
<b>40_ITS1</b>	<i>Trypanozoon sp.</i>	the whole fly	<i>Hippobosca camelina</i>	<b>MH247176</b>
<b>41_ITS1</b>	<i>Trypanosoma evansi</i>	blood	camel	<b>MH247177</b>