

**Table S1.** Classification of streblid bat flies based on mitochondrial cytochrome oxidase subunit I DNA sequences

ID	Country	Site	Host bat species	Accession	Closest match (accession) <sup>1</sup>	% identity <sup>2</sup>
JAL01	México	Las Joyas	<i>Pteronotus parnellii</i>	MW792194	<i>Trichobius sparsus</i> (MH282325.1)	97.64
JAL02	México	Las Joyas	<i>Myotis thysanodes</i>	nd <sup>3</sup>	nd <sup>3</sup>	nd <sup>3</sup>
JAL03	México	Jalocote	<i>Artibeus jamaicensis</i>	MW792195	<i>Megistopoda aranea</i> (MH282060.1)	99.21
JAL04	México	Jalocote	<i>Artibeus jamaicensis</i>	MW792196	<i>Megistopoda aranea</i> (MH282060.1)	99.21
JAL05	México	Jalocote	<i>Artibeus lituratus</i>	MW792197	<i>Megistopoda aranea</i> (MH282060.1)	99.21
JAL06	México	Jalocote	<i>Artibeus jamaicensis</i>	MW792198	<i>Aspidoptera phyllostomatis</i> (MH282004.1)	99.69
JAL07	México	Villa Purificación	<i>Pteronotus parnellii</i>	MW792199	<i>Trichobius yunkerii</i> (MH282371.1)	99.84
JAL08	México	Villa Purificación	<i>Pteronotus parnellii</i>	MW792200	<i>Trichobius yunkerii</i> (MH282369.1)	100
JAL09	México	Villa Purificación	<i>Sturnira lilium</i>	MW792201	<i>Aspidoptera phyllostomatis</i> (MH282004.1)	97.48
JAL10	México	Villa Purificación	<i>Glossophaga commissarisi</i>	MW792202	<i>Trichobius uniformis</i> (MH282328.1)	97.64
JAL11	México	Villa Purificación	<i>Dermanura watsoni</i>	MW792203	<i>Trichobioides perspicillatus</i> (MH282206.1)	80.82
JAL12	México	Las Joyas	<i>Sturnia ludovici</i>	nd <sup>3</sup>	nd <sup>3</sup>	nd <sup>3</sup>
NGO01	Uganda	Ngogo	<i>Hipposideros ruber</i>	MW792204	<i>Nycterophilia parnelli</i> (KY882260.1)	86.99
NGO02	Uganda	Ngogo	<i>Hipposideros ruber</i>	MW792205	<i>Nycterophilia parnelli</i> (MH282091.1)	86.30
NGO03	Uganda	Ngogo	<i>Hipposideros ruber</i>	MW792206	<i>Nycterophilia parnelli</i> (MH282091.1)	86.30
NGO04	Uganda	Ngogo	<i>Hipposideros ruber</i>	MW792207	<i>Nycterophilia parnelli</i> (MH282091.1)	86.93
NGO05	Uganda	Ngogo	<i>Hipposideros ruber</i>	MW792208	<i>Nycterophilia parnelli</i> (MH282091.1)	86.30
NGO06	Uganda	Ngogo	<i>Hipposideros ruber</i>	MW792209	<i>Nycterophilia parnelli</i> (MH282091.1)	86.30
NGO07	Uganda	Ngogo	<i>Hipposideros ruber</i>	MW792210	<i>Nycterophilia parnelli</i> (MH282091.1)	85.85
NGO08	Uganda	Ngogo	<i>Hipposideros ruber</i>	MW792211	<i>Nycterophilia parnelli</i> (KY882260.1)	86.99
NGO09	Uganda	Ngogo	<i>Hipposideros ruber</i>	MW792212	<i>Nycterophilia parnelli</i> (MH282091.1)	85.98
NGO10	Uganda	Ngogo	<i>Hipposideros ruber</i>	MW792213	<i>Nycterophilia parnelli</i> (MH282091.1)	86.30
NGO11	Uganda	Ngogo	<i>Hipposideros ruber</i>	MW792214	<i>Nycterophilia parnelli</i> (MH282091.1)	86.30
NGO12	Uganda	Ngogo	<i>Hipposideros ruber</i>	MW792215	<i>Nycterophilia parnelli</i> (MH282091.1)	86.30

<sup>1</sup> Closest match to members of the family *Streblidae* in the GenBank nucleotide database identified using the blastn homology searching algorithm

<sup>2</sup> Percent nucleotide identity to the closest match in GenBank

<sup>3</sup> nd = not determined