

Table S1: Morphological and molecular identification of tick samples collected from camels in Marsabit, northern Kenya, February-March 2020

Sample ID	Morphological ID	12S rRNA (% homology, GenBank Accession)	16S rRNA (% homology, GenBank Accession)	COI (% homology, GenBank Accession)	Consensus ID (GenBank Accession) ¹
T1	<i>Hyalomma dromedarii</i>	<i>Hy. dromedarii</i> (99.7%, MH094484)	<i>Hy. dromedarii</i> (100%, MN960589)	<i>Hy. dromedarii</i> (100%, MT107484)	<i>Hy. dromedarii</i> (12S: MT895851; 16S: MT895169; COI: MT896151)
T108	<i>Hyalomma dromedarii</i>	<i>Hy. dromedarii</i> (100%, MH094484 and KT391030)	<i>Hy. dromedarii</i> (100%, MN960589)	-	<i>Hy. dromedarii</i> (12S: MT895852; 16S: MT895170)
T120	<i>Hyalomma dromedarii</i>	<i>Hy. dromedarii</i> (100%, MH094484 and KT391030)	-	-	<i>Hy. dromedarii</i> (12S: MT895853)
T208	<i>Rhipicephalus pulchellus</i>	<i>Rh. pulchellus</i> (100% KY676841, AF150024)	<i>Rh. pulchellus</i> (100% MK774738)	-	<i>Rh. pulchellus</i> (12S: MT895854; 16S: MT895171)
T209	<i>Rhipicephalus pulchellus</i>	<i>Rh. pulchellus</i> (100% KY676841, AF150024)	<i>Rh. pulchellus</i> (100% MK774738)	-	<i>Rh. pulchellus</i> (12S: MT895855; 16S: MT895172)
T275	<i>Rhipicephalus camicasi</i>	<i>Rh. camicasi</i> (100% FJ536556, MH094506)	-	-	<i>Rh. camicasi</i> (12S: MT895856)
T281	<i>Rhipicephalus camicasi</i>	<i>Rh. camicasi</i> (100% FJ536556, MH094506)	-	-	<i>Rh. camicasi</i> (12S: MT895857)
T303	<i>Hyalomma impeltatum</i>	<i>Hy. impeltatum</i> (100% KX132904, MN315384)	<i>Hy. impeltatum</i> (100% MN394439)	<i>Hy. impeltatum</i> (99.2% KU130599)	<i>Hy. impeltatum</i> (12S: MT895858; 16S: MT895175; COI: MT896152)
T318	<i>Hyalomma impeltatum</i>	<i>Hy. impeltatum</i> (100% KX132904, MN315384)	<i>Hy. impeltatum</i> (100% MN394439)	<i>Hy. impeltatum</i> (99.2% KU130599)	<i>Hy. impeltatum</i> (12S: MT895859; 16S:

					MT895176; COI: MT896153)
T362	<i>Hyalomma rufipes</i>	<i>Hy. rufipes</i> (100% MN394460)	<i>Hy. rufipes</i> (100% MK737650, MK737649)	-	<i>Hy. rufipes</i> (12S: MT895860; 16S: MT895177)
T403	<i>Hyalomma rufipes</i>	<i>Hy. rufipes</i> (100% MN394460)	<i>Hy. rufipes</i> (100% MK737650, MK737649)	<i>Hy. rufipes</i> (99.7% JX049282)	<i>Hy. rufipes</i> (12S: MT895861; 16S: MT895178; COI: MT896154)
T700	<i>Amblyomma lepidum</i>	<i>Am. lepidum</i> (100% MK332385)	<i>Am. lepidum</i> (100% KP987777)	-	<i>Am. lepidum</i> (12S: MT895862; 16S: MT895179)
T708	<i>Amblyomma lepidum</i>	-	<i>Am. lepidum</i> (100% MK737651)	-	<i>Am. lepidum</i> (16S: MT895180)
T710	<i>Amblyomma gemma</i>	<i>Am. gemma</i> (99.7% KX377407)	-	-	<i>Am. gemma</i> (12S: MT895863)
T749	<i>Amblyomma gemma</i>	<i>Am. gemma</i> (99.7% KX377407)	-	-	<i>Am. gemma</i> (12S: MT895864)
T852	<i>Hyalomma truncatum</i>	<i>Hy. truncatum</i> (100% KU568497)	<i>Hy. truncatum</i> (99.4% KU130475)	-	<i>Hy. truncatum</i> (12S: MT895865; 16S: MT895181)

¹ accession numbers of samples deposited in GenBank as part of the present study