

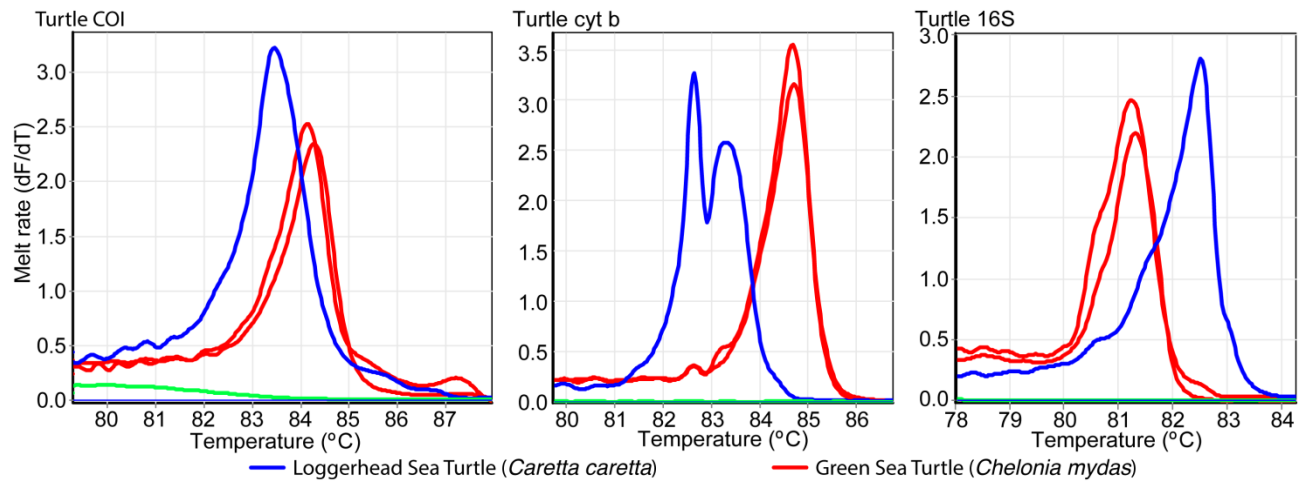
Daniel O. Ouso, Moses Y. Otiende, Maamun Jeneby, Joseph W. Oundo, Joel L. Bargul, Scott E.

Author	Year	Country	Company	Product	Method	Results
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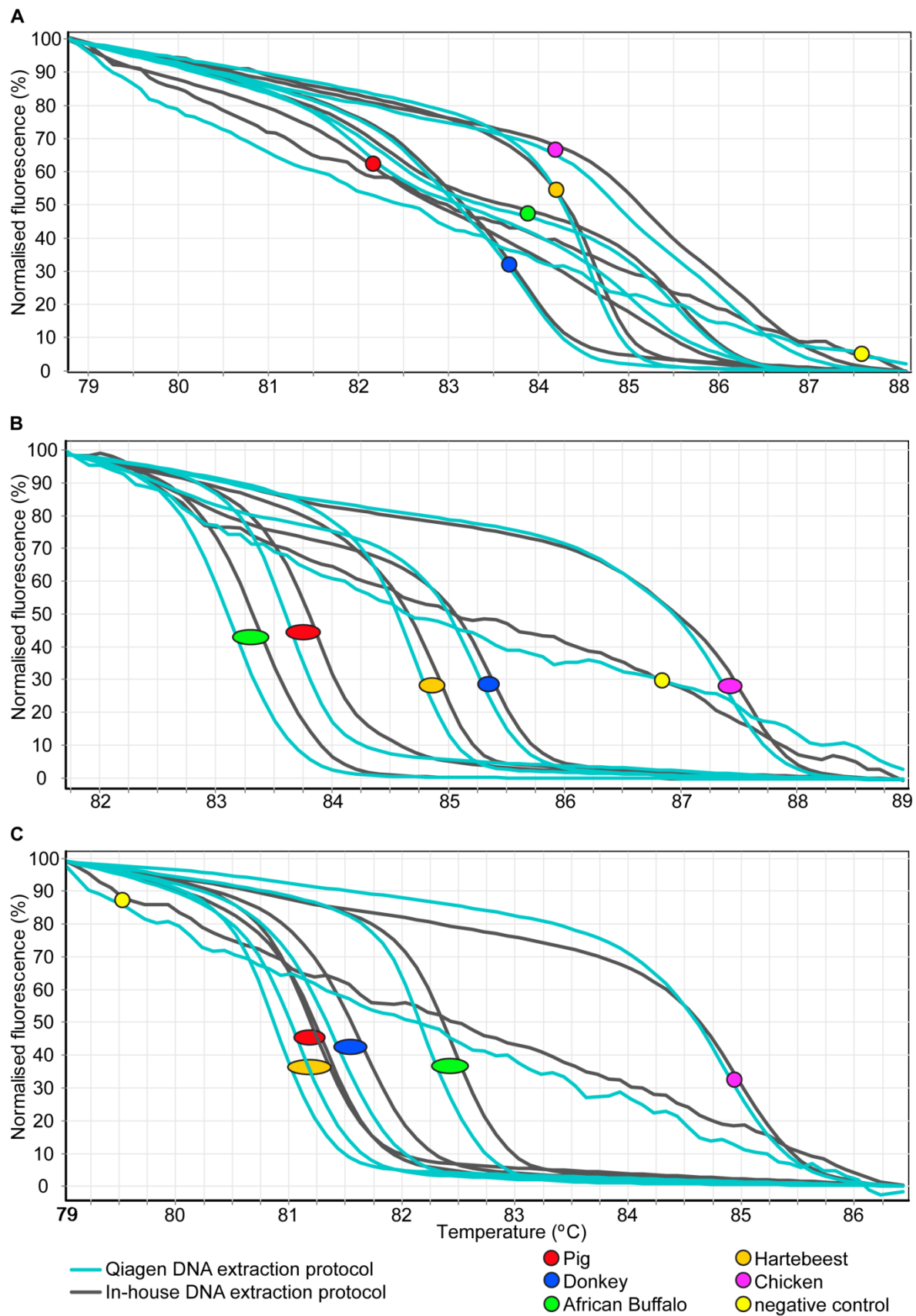
Animal	Family	Species	Common name	Tissue	Blood	Total	sequence	sequence
Domestic	Bovidae	<i>Bos taurus</i>	Cow	2	4	6	MN124245	MN124208
	Bovidae	<i>Capra hircus</i>	Goat	1	1	2	MN124246	MN124209
	Bovidae	<i>Ovis aries</i>	Sheep	1	1	2	MN124247	MN124210
	Equidae	<i>Equus asinus</i>	Donkey	1	0	1	MN124248	MN124211
	Suidae	<i>Sus scrofa</i>	Pig	1	0	1	MN124249	MN124212
	Camelidae	<i>Camelus dromedarius</i>	Camel	0	1	1	MN124250	MN12421
	Leporidae	<i>Oryctolagus cuniculus</i>	Rabbit	1	0	1	MN124251	MN124214
	Phasianidae	<i>Meleagris gallopavo</i>	Turkey	1	0	1	MN124252	MN124215
	Phasianidae	<i>Gallus gallus</i>	Chicken	1	1	2	MN124253	MN124216
	Felidae	<i>Felis catus</i>	Domestic cat	1	0	1	MN124254	MN124217
Wildlife	Bovidae	<i>Kobus ellipsiprymnus</i>	Waterbuck	3	0	3	MN124255	MN124218
	Bovidae	<i>Syncerus caffer</i>	African buffalo	4	4	8	MN124256	MN124219
	Bovidae	<i>Aepyceros melampus</i>	Impala	4	0	4	MN124257	MN124220
	Bovidae	<i>Nanger granti</i>	Grant's gazelle	1	0	1	MN124258	MN124221
	Bovidae	<i>Sylvicapra grimmia</i>	Common duiker	3	0	3	MN124259	MN124222
	Bovidae	<i>Connochaetes taurinus</i>	Blue wildebeest	5	2	7	MN124260	MN124223
	Bovidae	<i>Alcelaphus buselaphus</i>	Hartebeest	1	1	2	MN124261	MN124224
	Bovidae	<i>Hippotragus niger</i>	Sable antelope	0	2	2	KY628416*	MN124225
	Bovidae	<i>Tragelaphus oryx</i>	Eland	2	0	2	MN124262	MN124226
	Bovidae	<i>Madoqua kirkii</i>	Kirk's dik-dik	1	0	1	MN124263	MN124227
	Bovidae	<i>Tragelaphus scriptus</i>	Bushbuck	1	2	3	MN124264	MN124228
	Giraffidae	<i>Giraffa camelopardalis</i>	Giraffe	4	2	6	MN124265	MN124229
	Suidae	<i>Potamochoerus porcus</i>	Bushpig	2	0	2	MN124266	MN124230
	Suidae	<i>Phacochoerus africanus</i>	Warthog	2	2	4	MN124267	MN124231
	Equidae	<i>Equus quagga chapmani</i>	Chapman's zebra	2	0	2	MN124268	MN124243
	Equidae	<i>Equus grevyi</i>	Grevy's zebra	0	2	2	MN124269	MN124232
	Equidae	<i>Equus quagga burchellii</i>	Plain zebra	2	2	4	MN124270	MN124233
	Elephantidae	<i>Loxodonta africana</i>	Savannah elephant	2	4	6	MN124271	MN124234
	Elephantidae	<i>Loxodonta africana</i>	'Forest' savannah elephant	0	2	2	MN124272	MN124235
	Rhinocerotidae	<i>Diceros bicornis</i>	Black rhino	0	4	4	MN124273	MN124236
	Rhinocerotidae	<i>Ceratotherium simum</i>	White rhino	0	5	5	MN124274	MN124237
	Felidae	<i>Acinonyx jubatus</i>	Cheetah	0	3	3	MN124275	MN124238
	Felidae	<i>Panthera leo</i>	Lion	3	3	6	MN124276	MN124244
	Felidae	<i>Panthera pardus</i>	Leopard	0	2	2	MN124277	EF056507*
	Cheloniidae	<i>Chelonia mydas</i>	Green sea turtle	4	0	4	MN124278	MN124239
	Cheloniidae	<i>Caretta caretta</i>	Logger head sea turtle	1	0	1	MN124279	MN124240
			Total:	57	50	107		
*Previously published sequences								

Supplementary Table 2. Blind identification of DNA extracts

sample #	Blind ID	COI	cyt b	16S rRNA	Predicted by HRM analysis	Vouchered ID
1	#2	Green sea turtle	Green sea turtle	Green sea turtle	Green sea turtle	Green sea turtle
2	#4	Blue wildebeest	Blue wildebeest	Blue wildebeest	Blue wildebeest	Blue wildebeest
3	#5	Zebra	Zebra	Common Eland, Zebra	Zebra	Zebra
4	#8	Green sea turtle	Poor amplification	Green sea turtle	Green sea turtle	Green sea turtle
5	#11	Zebra	Zebra	Zebra (also common eland, goat)	Zebra	Zebra
6	#12	Common eland	Common eland	Common eland (also cattle)	Common eland	Common eland
7	#13	Green sea turtle	Green sea turtle	Green sea turtle	Green sea turtle	Green sea turtle
8	#15	Poor amplification	Green sea turtle	Green sea turtle	Green sea turtle	Green sea turtle
9	#18	Common eland	Common eland	Common eland (also goat, zebra, Grant's gazelle)	Common eland	Common eland
10	#19	Zebra	Zebra	Zebra (also goat)	Zebra	Zebra
11	#24	Green sea turtle	Green sea turtle	Green sea turtle	Green sea turtle	Green sea turtle
12	#25	Zebra	Zebra	Zebra (also goat)	Zebra	Zebra
13	#26	Grant's gazelle	Grant's gazelle	Grant's gazelle (also goat)	Grant's gazelle	Grant's gazelle
14	#27	Grant's gazelle	Grant's gazelle	Grant's gazelle (also goat, zebra)	Grant's gazelle	Grant's gazelle
15	#28	African 'forest' elephant	African 'forest' elephant	African 'forest' elephant	African 'forest' elephant	Elephant
16	#29	African savannah elephant	African savannah elephant	African savannah elephant	African savannah elephant	Elephant
17	#30	Poor amplification	African savannah elephant	African savannah elephant	African savannah elephant	Elephant
18	#34	African 'forest' elephant	African 'forest' elephant	African 'forest' elephant	African 'forest' elephant	Elephant
19	#35	African savannah elephant	African savannah elephant	African savannah elephant	African savannah elephant	Elephant
20	#36	African savannah elephant	African savannah elephant	African savannah elephant	African savannah elephant	Elephant
21	#38	Impala	Impala	Impala	Impala	Impala
22	#39	Impala	Impala	Impala	Impala	Impala
23	#40	Impala	Impala	Impala	Impala	Impala
24	#41	Impala	Impala	Impala	Impala	Impala
25	#43	Grant's gazelle	Grant's gazelle	Grant's gazelle (also goat)	Grant's gazelle	Grant's gazelle
26	#44	Grant's gazelle	Grant's gazelle	Grant's gazelle (also goat)	Grant's gazelle	Grant's gazelle
27	#45	Grant's gazelle	Grant's gazelle	Grant's gazelle (also goat)	Grant's gazelle	Grant's gazelle
28	#48	Dik-dik, Donkey	Dik-dik, common duiker, Sable antelope	Dik-dik	Dik-dik	Dik-dik
29	#49	Grant's gazelle	Grant's gazelle	Grant's gazelle (also goat)	Grant's gazelle	Grant's gazelle
30	#50	Grant's gazelle	Grant's gazelle	Grant's gazelle (also goat)	Grant's gazelle	Grant's gazelle
31	#51	Zebra	Zebra	Zebra (also common eland, goat, impala)	Zebra	Zebra
32	#52	Not Amplified	Donkey	Donkey	Donkey	Donkey
33	#54	Common duiker	Common duiker (also hartebeest, blue wildebeest)	Common duiker (also common eland, cattle)	Common duiker (low confidence)	Common duiker
34	#55	Zebra	Zebra	Zebra (also common eland, goat, impala)	Zebra	Zebra
35	#58	Zebra	Zebra	Zebra (also common eland, goat, impala)	Zebra	Zebra
36	#59	Zebra	Zebra	Zebra (also common eland, goat, impala)	Zebra	Zebra
37	#61	Grant's gazelle	Grant's gazelle	Grant's gazelle (also goat)	Grant's gazelle	Grant's gazelle
38	#62	Grant's gazelle	Grant's gazelle	Grant's gazelle (also goat)	Grant's gazelle	Grant's gazelle
39	#63	Waterbuck (shape variation)	Waterbuck	Waterbuck (with variant secondary peak)	Waterbuck (low confidence)	Waterbuck
40	#64	Common eland	Common eland (in shape, shifted peak)	Dik-dik, pig, common eland (in shape, shifted peak)	Common eland (low confidence)	Common eland
41	#65	Impala	African 'forest' elephant, Impala (in shape, shifted peak)	Impala (also common eland, zebra)	Impala	Impala
42	#66	Dik-dik, donkey	Dik-dik	Dik-dik	Dik-dik	Dik-dik
43	#67	Dik-dik, donkey	Dik-dik	Dik-dik	Dik-dik	Dik-dik
44	#68	Dik-dik, donkey	Dik-dik	Dik-dik	Dik-dik	Dik-dik
45	#69	Common eland	Common eland (far from impala)	Dik-dik, pig, common eland	Common eland (low confidence)	Impala*
46	#70	Dik-dik (shifted peak)	Not amplified	Green sea turtle, dik-dik (shape variation)	Dik-dik (low confidence)	Dik-dik
47	#71	African 'forest' elephant	African 'forest' elephant	African 'forest' elephant	African 'forest' elephant	Elephant
48	#72	African 'forest' elephant	African 'forest' elephant	African 'forest' elephant	African 'forest' elephant	Elephant
49	#73	Common eland, dik-dik, donkey	Common eland	Common eland	Common eland	Common eland



Supplementary Figure 1: Distinct PCR-HRM melt rate profiles for Cheloniidae family species. Melt rate profiles are represented as change in fluorescence units with increasing temperatures (dF/dT) for (a) *COI*, (b) *cyt b*, and (c) *16S rRNA* markers.



Supplementary Figure 2: Normalised HRM profiles of representative reference samples extracted using different protocols. Normalised HRM profiles are represented as percent fluorescence for (a) *COI*, (b) *cyt b*, and (c) *16S rRNA* markers.