

Appendix 1.

Species	CO2	Cyb	I2S	κCas	PRKCI	SPTBN1	TG
<i>Muntiacus reevesi</i>	NC_004069 ¹	NC_004069 ¹	NC_004069 ¹	U37509 ²⁸	AF165677 ²⁹	AF165678 ²⁹	AF165682 ²⁹
<i>Antilocapra americana</i>	U62571 ²	AF091629 ¹⁰	M55546 ²²	AF165672 ²⁹ /U37515 ²⁸	AF165669 ²⁹	AF165670 ²⁹	AF165682 ²⁹
<i>Moschus moschiferus</i>	DQ365691 ³	AY121995 ¹¹	AY121988 ¹¹	AY121997 ¹¹	DQ365693 ³	XXXXXX	XXXXXX
<i>Bos frontalis</i>	AY689199 ⁴	AY689187 ⁴	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
<i>Bos grunniens</i>	AY689200 ⁴	AF091631 ¹⁰	AF091686 ¹⁰	AY095312 ³⁰	XXXXXX	XXXXXX	XXXXXX
<i>Bos taurus</i>	NC_006853 ⁵	NC_006853 ⁵	NC_006853 ⁵	XXXXXX	AY029293 ³⁷	XXXXXX	XXXXXX
<i>Bison bison</i>	AY689197 ⁴	AF036273 ¹²	AF091687 ¹⁰	XXXXXX	XXXXXX	XXXXXX	XXXXXX
<i>Bison bonasus</i>	AY689198 ⁴	AY689186 ⁴	XXXXXX	U10379 ³¹	XXXXXX	XXXXXX	XXXXXX
<i>Bubalus bubalis</i>	NC_006295 ⁶	NC_006295 ⁶	AF231028 ²³	D14370 ³²	XXXXXX	XXXXXX	XXXXXX
<i>Bubalus depressicornis</i>	U18822 ⁷	AF091632 ¹⁰	AF091689 ¹⁰	XXXXXX	XXXXXX	XXXXXX	XXXXXX
<i>Syncerus caffer</i>	U18825 ⁷	AF036275 ¹²	AF091688 ¹⁰	AF030328 ³³	AF210175 ¹⁴	XXXXXX	XXXXXX
<i>Pseudoryx nghetinhensis</i>	AY689265 ⁴	AF091635 ¹⁰	AF091705 ¹⁰	AY670667 ²⁰	XXXXXX	XXXXXX	XXXXXX
<i>Taurotragus derbianus</i>	XXXXXX	AF022062 ¹³	XXXXXX	XXXXXX	AY667162 ³⁸	AY667232 ³⁸	XXXXXX
<i>Taurotragus oryx</i>	XXXXXX	AF036278 ¹²	AF091710 ¹⁰	XXXXXX	AF210176 ¹⁴	AF210198 ¹⁴	XXXXXX
<i>Tragelaphus imberbis</i>	U18815 ⁷	AF036279 ¹²	AF091697 ¹⁰	AF165736 ²⁹ /AF030330 ³³	XXXXXX	AY667237 ³⁸	XXXXXX
<i>Tragelaphus scriptus</i>	XXXXXX	AF036277 ¹²	AF091693 ¹⁰	XXXXXX	AY667176 ³⁸	AY667246 ³⁸	XXXXXX
<i>Tragelaphus speki</i>	XXXXXX	AJ222680 ¹²	AF091692 ¹⁰	XXXXXX	AY667174 ³⁸	AY667244 ³⁸	XXXXXX
<i>Tragelaphus strepsiceros</i>	AY689206 ⁴	AF036280 ¹²	AF091696 ¹⁰	XXXXXX	XXXXXX	XXXXXX	XXXXXX
<i>Boselaphus tragocamelus</i>	U62566 ⁸	AJ222679 ¹²	M86494 ²⁴	AF165728 ²⁹ /AF030331 ³³	AF165725 ²⁹	AF165726 ²⁹	AF165730 ²⁹
<i>Tetracerus quadricornis</i>	AY689196 ⁴	AF036274 ¹²	AF091690 ¹⁰	AY670668 ²⁰	XXXXXX	XXXXXX	XXXXXX
<i>Aepyceros melampus</i>	AY689194 ⁴	AF036289 ¹²	M86496 ²⁴	AY121998 ¹¹	AF165781 ²⁹	AF165782 ²⁹	AF165786 ²⁹
<i>Ammodorcas clarkei</i>	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
<i>Antidorcas marsupialis</i>	XXXXXX	AF036281 ¹²	XXXXXX	XXXXXX	AF210187 ¹⁴	AF210209 ¹⁴	XXXXXX
<i>Antilope cervicapra</i>	XXXXXX	AF036283 ¹²	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
<i>Dorcatragus megalotis</i>	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
<i>Eudorcas rufifrons</i>	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
<i>Eudorcas thomsonii</i>	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
<i>Gazella bennettii</i>	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
<i>Gazella cuvieri</i>	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
<i>Gazella dorcas osiris</i>	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
<i>Gazella dorcas pelzelni</i>	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
<i>Gazella erlangeri</i>	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
<i>Gazella gazella cora</i>	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
<i>Gazella gazella gazella</i>	XXXXXX	AJ222682 ¹²	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
<i>Gazella leptoceros</i>	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
<i>Gazella subgutturosa marica</i>	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
<i>Gazella subgutturosa</i>	XXXXXX	AF036282 ¹²	AY141134 ²⁵	XXXXXX	XXXXXX	XXXXXX	XXXXXX
<i>Gazella spekei</i>	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
<i>Litocranius walleri</i>	XXXXXX	AF249974 ¹⁴	XXXXXX	XXXXXX	AF210188 ¹⁴	AF210210 ¹⁴	XXXXXX
<i>Madoqua kirkii</i>	XXXXXX	AF022070 ¹³	M86495 ²⁴	XXXXXX	AF165757 ²⁹	AF165758 ²⁹	AF165762 ²⁹
<i>Madoqua saltiana</i>	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
<i>Nanger dama</i>	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
<i>Nanger granti</i>	XXXXXX	AF034723 ¹⁵	AY670652 ²⁰	XXXXXX	XXXXXX	XXXXXX	XXXXXX
<i>Nanger soemmerringii</i>	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
<i>Ourebia ourebi</i>	XXXXXX	AF320574 ¹⁶	XXXXXX	XXXXXX	AF210196 ¹⁴	AF210218 ¹⁴	XXXXXX
<i>Procapra gutturosa</i>	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
<i>Raphicerus campestris</i>	XXXXXX	AF022068 ¹³	XXXXXX	XXXXXX	AF210189 ¹⁴	AF210211 ¹⁴	XXXXXX
<i>Saiga tatarica</i>	XXXXXX	AF064487 ¹⁵	AF363777 ²⁶	D32188 ³²	XXXXXX	XXXXXX	XXXXXX
<i>Neotragus moschatus</i>	XXXXXX	AJ222683 ¹²	AF091703 ¹⁰	XXXXXX	AF210192 ¹⁴	AF210214 ¹⁴	XXXXXX
<i>Cephalophus dorsalis</i>	XXXXXX	AF153884 ¹⁷	AF154248 ¹⁷	AY122000 ¹¹	XXXXXX	XXXXXX	XXXXXX
<i>Philantomba monticola</i>	XXXXXX	AF153893 ¹⁷	XXXXXX	XXXXXX	AF210194 ¹⁴	AF210216 ¹⁴	XXXXXX
<i>Sylvicapra grimmia</i>	XXXXXX	AF153904 ¹⁷	XXXXXX	XXXXXX	AF210195 ¹⁴	AF210217 ¹⁴	XXXXXX
<i>Oreotragus oreotragus</i>	XXXXXX	AF036288 ¹²	AF091702 ¹⁰	XXXXXX	XXXXXX	XXXXXX	XXXXXX
<i>Kobus kob</i>	XXXXXX	AF052939 ¹⁸	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
<i>Pelea capreolus</i>	XXXXXX	AF022055 ¹³	XXXXXX	XXXXXX	AF210186 ¹⁴	XXXXXX	XXXXXX
<i>Redunca fulvorufula</i>	XXXXXX	AF036284 ¹²	AF091704 ¹⁰	AY121999 ¹¹	XXXXXX	XXXXXX	XXXXXX
<i>Addax nasomaculatus</i>	XXXXXX	AF034722 ¹⁵	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
<i>Hippotragus niger</i>	AY846771 ⁹	AF036285 ¹²	AY670653 ²⁰	AY122001 ¹¹	AY846795*	DQ236281 ³⁴	AF165746 ²⁹
<i>Oryx leucoryx</i>	XXXXXX	AF036286 ¹²	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
<i>Alcelaphus buselaphus</i>	XXXXXX	AJ222681 ¹²	XXXXXX	XXXXXX	AF210182 ¹⁴	AF210203 ¹⁴	XXXXXX
<i>Beatragus hunteri</i>	XXXXXX	AF034968 ¹⁹	U86988 ²⁷	AF210159 ¹⁴	AF210180 ¹⁴	AF210202 ¹⁴	XXXXXX
<i>Connochaetes gnou</i>	XXXXXX	AF016637 ¹³	XXXXXX	XXXXXX	AF210182 ¹⁴	AF210204 ¹⁴	XXXXXX
<i>Damaliscus pygargus</i>	AY689195 ⁴	AF036287 ¹²	M86499 ²⁴	AY122002 ¹¹	AY846794 ⁹	DQ236280 ³⁴	AF165778 ²⁹
<i>Ammotragus lervia</i>	AY846772 ⁹	AF034731 ¹⁵	AY670654 ²⁰	AY670670 ²⁰	AY846803 ⁹	DQ236282 ³⁴	DQ236302 ³⁴
<i>Arabitragus jayakari</i>	AY846779 ⁹	AY846791 ⁹	AY846816 ⁹	DQ236300 ³⁴	AY846804 ⁹	DQ236289 ³⁴	DQ236309 ³⁴
<i>Buborcas taxicolor</i>	AY846773 ⁹	AY669320 ²⁰	AY670655 ²⁰	AY670671 ²⁰	AY846811 ⁹	DQ236283 ³⁴	DQ236303 ³⁴
<i>Capra falconeri</i>	AY846774 ⁹	AF034736 ¹⁵	AY670656 ²⁰	AY670672 ²⁰	AY846797 ⁹	DQ236284 ³⁴	DQ236304 ³⁴
<i>Capra ibex</i>	AY846775 ⁹	AF034735 ¹⁵	AY846815 ⁹	AF525023 ³⁵	AY846798 ⁹	DQ236285 ³⁴	DQ236305 ³⁴
<i>Capra nubiana</i>	AY846776 ⁹	AF034740 ¹⁵	AY670657 ²⁰	AY670673 ²⁰	AY846799 ⁹	DQ236286 ³⁴	DQ236306 ³⁴
<i>Capra sibirica</i>	AY846777 ⁹	AF034734 ¹⁵	AY670658 ²⁰	AY670674 ²⁰	AY846800 ⁹	DQ236287 ³⁴	DQ236307 ³⁴
<i>Capricornis sumatraensis</i>	AY846781 ⁹	AY669321 ²⁰	AY670660 ²⁰	AY670676 ²⁰	AY846812 ⁹	DQ236291 ³⁴	DQ236311 ³⁴
<i>Hemitragus jemlahicus</i>	AY846780 ⁹	AF034733 ¹⁵	AY670659 ²⁰	AY670675 ²⁰	AY846801 ⁹	DQ236288 ³⁴	DQ236308 ³⁴
<i>Naemorhedus goral</i>	XXXXXX	XXXXXX	AY141131 ²⁵	D32179 ³⁶	XXXXXX	XXXXXX	XXXXXX
<i>Nilgiritragus hylocrius</i>	AY846778 ⁹	AY846792 ⁹	AY846817 ⁹	DQ236301 ³⁴	AY846809 ⁹	DQ236290 ³⁴	DQ236310 ³⁴
<i>Oreamnos americanus</i>	AY846782 ⁹	AF190632 ²¹	AY670661 ²⁰	AY670677 ²⁰	AY846814 ⁹	DQ236292 ³⁴	DQ236312 ³⁴
<i>Ovibos moschatus</i>	AY846783 ⁹	AY669322 ²⁰	AY670662 ²⁰	AY670678 ²⁰	AY846813 ⁹	DQ236293 ³⁴	DQ236313 ³⁴
<i>Ovis aries</i>	AY846785 ⁹	AF034730 ¹⁵	AY670663 ²⁰	AY670679 ²⁰	AY846806 ⁹	DQ236294 ³⁴	DQ236314 ³⁴

<i>Ovis dalli</i>	AY846786 ⁹	AF034728 ¹⁵	AY670664 ²⁰	AY670680 ²⁰	AY846807 ⁹	DQ236295 ³⁴	DQ236315 ³⁴
<i>Pantholops hodgsonii</i>	AY846787 ⁹	AF034724 ¹⁵	NC_007441 ^{27b}	AY670681 ²⁰	AY846796 ⁹	DQ236299 ³⁴	DQ236319 ³⁴
<i>Pseudois nayaur</i>	AY846788 ⁹	AF034732 ¹⁵	AY670665 ²⁰	AY670682 ²⁰	AY846802 ⁹	DQ236296 ³⁴	DQ236316 ³⁴
<i>Rupicapra pyrenaica</i>	AY846789 ⁹	AF034726 ¹⁵	AY846818 ⁹	DQ236341 ³⁴	AY846810 ⁹	DQ236297 ³⁴	DQ236318 ³⁴
<i>Rupicapra rupicapra</i>	AY846790 ⁹	AF034725 ¹⁵	AY670666 ²⁰	D32182 ³⁶	AY846809 ⁹	DQ236298 ³⁴	DQ236317 ³⁴

*AR et al., in prep; ¹Zhang et al. Unpublished; ²Miyamoto et al. (1994); ³Gilbert et al. (2006); ⁴Hassanin and Ropiquet (2004); ⁵Lowe et al. (1997); ⁶Qian et al. Unpublished; ⁷Honeycutt et al. (1995); ⁸Janecek et al. (1996); ⁹Ropiquet and Hassanin (2005b); ¹⁰ Hassanin and Douzery (1999a); ¹¹Hassanin and Douzery (2003); ¹²Hassanin and Douzery (1999b); ¹³Matthee and Robinson (1999); ¹⁴Matthee and Davis (2001); ¹⁵Hassanin et al. (1998a); ¹⁶Birungi and Arctander (2001); ¹⁷van Vuuren and Robinson (2001); ¹⁸Birungi et al. (1998); ¹⁹Pitra et al. (1998); ²⁰Ropiquet and Hassanin (2005a); ²¹Hassanin and Douzery (2000); ²²Kraus and Miyamoto; ²³Kuznetsov et al. (2001); ²⁴Allard et al. (1992); ²⁵Kuznetsova and Kholodova. Unpublished; ²⁶Kuznetsova and Kholodova (2002); ²⁷Gatesy et al. (1997); ^{27b}Xu et al. (2005); ²⁸Cronin et al. (1996); ²⁹Matthee et al. (2001); ³⁰Prinzenberg et al. Unpublished; ³¹Burzynska et al. (1995); ³²Chikuni et al. (1994); ³³Ward et al. (1997); ³⁴Ropiquet and Hassanin (2006); ³⁵Jann et al. (2003); ³⁶Chikuni et al. (1995); ³⁷De Donato et al. (2001); ³⁸Willows-Munro et al. 2005.