

**Table S1:** Primer sets commonly used to explore bloodmeal source by molecular methods.

| DNA Target | Target Locus | Primer Source               | Species Design                             | Size (nt)     | Primer Name    | Sequence                                                  | Assay Use |
|------------|--------------|-----------------------------|--------------------------------------------|---------------|----------------|-----------------------------------------------------------|-----------|
| mtDNA      | COI          | Ivanova et al. 2007 [1]     | Fish, but used for nearly all vertebrates  | 658           | VF1_t1         | TGT AAA ACG ACG GCC AGT TCT CAA CCA ACC ACA AAG ACA TTG G | PCR       |
|            |              |                             |                                            |               | VF1d_t1        | TGT AAA ACG ACG GCC AGT TCT CAA CCA ACC ACA ARG AYA TYG G |           |
|            |              |                             |                                            |               | VFLi_t1        | TGT AAA ACG ACG GCC AGT TCT CAA CCA ACC AIA AIG AIA TIG G |           |
|            |              |                             |                                            |               | VR1d_t1        | CAG GAA ACA GCT ATG ACT AGA CTT CTG GGT GGC CRA ARA AYC A |           |
|            |              |                             |                                            |               | VR1_t1         | CAG GAA ACA GCT ATG ACT AGA CTT CTG GGT GGC CAA AGA ATC A |           |
|            |              |                             |                                            |               | VRli_t1        | CAG GAA ACA GCT ATG ACT AGA CTT CTG GGT GIC CIA AIA AIC A |           |
| mtDNA      | COI          | Townzen et al. 2008 [2]     | Amphibians, mammals, avians                | 663           | Long 5934 FWD  | AAC CAC AAA GAC ATT GGC AC                                | PCR       |
|            |              |                             |                                            |               | Long 6597 REV  | AAG AAT CAG AAT ARG TGT TG                                |           |
| mtDNA      | COI          | Cicero and Johnson 2001 [3] | Avians                                     | 500           | L7327          | CCT GCA GGA GGA GGA GAY CC                                | PCR       |
|            |              |                             |                                            |               | H7827          | CCA GAG ATT AGA GGG AAT CAG TG                            |           |
| mtDNA      | COI          | Reeves et al. 2018 [4]      | Terrestrial vertebrates including reptiles | 244, 395, 664 | Mod_RepCOI_F   | TNT TYT CMA CYA ACC ACA AAG A                             | PCR       |
|            |              |                             |                                            |               | Mod_RepCOI_R   | TTC DGG RTG NCC RAA RAA TCA                               |           |
|            |              |                             |                                            |               | VertCOI_7194_F | CGM ATR AAY AAY ATR AGC TTC TGA Y                         |           |
|            |              |                             |                                            |               | VertCOI_7216_R | CAR AAG CTY ATG TTR TTY ATD CG                            |           |
| mtDNA      | COI          | Nagy et al. 2012 [5]        | Reptiles                                   | 664           | RepCOI-F       | TNT TMT CAA CAN ACC ACA AAG A                             | PCR       |
|            |              |                             |                                            |               | RepCOI-R       | ACT TCT GGR TGK CCA AAR AAT CA                            |           |

| DNA Target | Target Locus | Primer Source           | Species Design                                                  | Size (nt) | Primer Name     | Sequence                                             | Assay Use |
|------------|--------------|-------------------------|-----------------------------------------------------------------|-----------|-----------------|------------------------------------------------------|-----------|
| mtDNA      | COI          | Alcaide et al. 2009 [6] | Vertebrates including mammals, avians, reptiles, and amphibians | 758       | M13BCV-FW       | TGT AAA ACG ACG GCC AGT- HAA YCA YAA RGA YAT TGG NAC | PCR       |
|            |              |                         |                                                                 |           | BCV-RV1         | GCT CAN AYY ATN CYY RTR                              |           |
|            |              |                         |                                                                 | 758       | BCV-RV2         | GCT CAN AYY ATN CYY RTR TAN CC                       |           |
|            |              |                         |                                                                 |           | M13-F           | TGT AAA ACG ACG GCC AGT                              |           |
| mtDNA      | COI          | Parodi et al. 2002 [7]  | Humans                                                          | 228       | Human CoxI Fwd  | TTC GGC GCA TGA GCT GGA GTC C                        | PCR       |
|            |              |                         |                                                                 |           | Human CoxI Rev  | TAT GCG GGG AAA CGC CAT ATC G                        |           |
|            |              |                         | Rodents                                                         | 150       | Mouse CoxI Fwd  | ATT ACA GCC GTA CTG CTC CTA T                        |           |
|            |              |                         |                                                                 |           | Mouse CoxI Rev  | CCC AAA GAA TCA GAA CAG ATG C                        |           |
|            |              |                         |                                                                 | 196       | Rat CoxI Fwd    | CGG CCA CCC AGA AGT GTA CAT C                        |           |
|            |              |                         |                                                                 |           | Rat CoxI Rev    | GGC TCG GGT GTC TAC ATC TAG G                        |           |
|            |              |                         | Monkeys                                                         | 222       | Monkey CoxI Fwd | CCT CTT TCC TGC TGC TAA TG                           |           |
|            |              |                         |                                                                 |           | Monkey CoxI Rev | TTT GAT ACT GGG ATA TGG CG                           |           |
|            |              |                         | Dogs                                                            | 153       | Dog CoxI Fwd    | GAA CTA GGT CAG CCC GGT ACT T                        |           |
|            |              |                         |                                                                 |           | Dog CoxI Rev    | CGG AGC ACC AAT TAT TAA CGG C                        |           |
|            |              |                         | Cats                                                            | 180       | Cat CoxI Fwd    | TTC TCA GGA TAT ACC CTT GAC A                        |           |
|            |              |                         |                                                                 |           | Cat CoxI Rev    | GAA AGA GCC CAT TGA GGA AAT C                        |           |
|            |              |                         | Rabbits                                                         | 151       | Rabbit CoxI Fwd | CGG GAA CTG GCT TGT CCC CCT G                        |           |
|            |              |                         |                                                                 |           | Rabbit CoxI Rev | AAC AGT TCA GCC AGT CCC CGC C                        |           |
|            |              |                         | Horses                                                          | 235       | Horse CoxI Fwd  | CCC TAA GCC TCC TAA TCC GT                           |           |
|            |              |                         |                                                                 |           | Horse CoxI Rev  | AGG AAT GAT GGG GGA AGT AA                           |           |

| DNA Target | Target Locus | Primer Source               | Species Design              | Size (nt) | Primer Name     | Sequence                                       | Assay Use  |
|------------|--------------|-----------------------------|-----------------------------|-----------|-----------------|------------------------------------------------|------------|
| mtDNA      | Cyt b        | Cicero and Johnson 2001 [3] | Avians                      | 772       | L15557          | GAC TGT GAC AAA ATC CCN TTC CA                 | PCR        |
|            |              |                             |                             |           | H16065          | GGT CTT CAT CTY HGG YTT ACA AGA C              |            |
|            |              |                             |                             | 1143      | L14851          | CCT ACT TAG GAT CAT TCG CCC T                  |            |
|            |              |                             |                             |           | L14987          | CCA TCC AAC ATC TCW GCW TGA TG                 |            |
|            |              |                             |                             |           | L15236          | TAC CTA AAC AAA GAA ACB TGR AA                 |            |
|            |              |                             |                             |           | H15304          | GTA GCA CCT CAG AAB GAT ATT TG                 |            |
|            |              |                             |                             |           | L15661          | ACC TCC TAG GAG AYC CAG AHA AYC                |            |
|            |              |                             |                             |           | H15706          | TAT GCG AAT AGG AAR TAY CAY TC                 |            |
| mtDNA      | Cyt b        | Boakye et al. 1999 [8]      | Vertebrates                 | 358       | H15906          | ATG AAG GGA TGT TCT ACT GGT TG                 | PCR        |
|            |              |                             |                             |           | BM1             | CCC CTC AGA ATG ATA TTT GTC CTC A              |            |
| mtDNA      | Cyt b        | Meece et al. 2005 [9]       | Vertebrates                 | 358       | BM2             | CCA TCC AAC ATC TCA GCA TGA TGA AA             | PCR & RFLP |
|            |              |                             |                             |           | BM1             | CCC CTC AGA ATG ATA TTT GTC CTC A              |            |
| mtDNA      | Cyt b        | Townzen et al. 2008 [2]     | Amphibians, mammals, avians | 457       | BM2             | CCA TCC AAC ATC TCA GCA TGA TGA AA             |            |
|            |              |                             |                             |           | 15150 FWD       | GAG GMC AAA TAT CAT TCT GAG G                  |            |
| mtDNA      | Cyt b        | Kocher et al. 1989 [10]     | Vertebrates                 | 307       | 15607 REV       | TAG GGC VAG GAC TCC TCC TAG T                  | PCR        |
|            |              |                             |                             |           | L14841          | AAA AAG CTT CCA TCC AAC ATC TCA GGA TGA TGA AA |            |
| mtDNA      | Cyt b        | Latch et al. 2009 [11]      | Deer                        | 1246      | H15149          | AAA CTG CAG CCC CTC AGA ATG ATA TTT GTC CTC A  | PCR        |
|            |              |                             |                             |           | Odh-cytfB-14153 | TCA ATG ACC AAC ATC CGA AA                     |            |
| mtDNA      | Cyt b        | Latch et al. 2009 [11]      | Deer                        | 1246      | Odh-cytfR-15399 | GGG TGT TGA TAG TGG GGC TA                     | PCR        |
|            |              |                             |                             |           |                 |                                                |            |

| DNA Target | Target Locus | Primer Source                 | Species Design       | Size (nt) | Primer Name    | Sequence                              | Assay Use |
|------------|--------------|-------------------------------|----------------------|-----------|----------------|---------------------------------------|-----------|
| mtDNA      | Cyt b        | Abbasi et al. 2009 [12]       | Vertebrates          | 344       | Cyto1          | CCA TCA AAC ATC TCA GCA TGA TGA AA    | PCR       |
|            |              |                               |                      |           | Cyto 2         | CCC CTC AGA ATG ATA TTT GTC CTC       |           |
| mtDNA      | Cyt b        | Mota et al. 2007 [13]         | Vertebrates          | 420, 315  | DC-cytb-UP     | CRT GAG GMC AAA TAT CHT TYT           | PCR       |
|            |              |                               |                      |           | DC-cytb-DW     | ART ATC ATT CWG GTT TAA TRT           |           |
|            |              |                               |                      |           | H-cytb-UP      | AGG AGA GAA GGA AAG AAG T             |           |
| mtDNA      | Cyt b        | Ngo et al. 2003 [14]          | Mammals, avians      | 772       | FWD            | CGA AGC TTG ATA TGA AAA ACC ATC GTT   | PCR       |
|            |              |                               |                      |           | REV            | TGT AGT TRT CWG GGT CHC CTA           |           |
| mtDNA      | Cyt b        | Kent and Norris 2005 [15]     | Specific vertebrates | 623       | UNREV1025      | GGT TGT CCT CCA ATT CAT GTT A         | PCR       |
|            |              |                               |                      |           | UNFOR403       | TGA GGA CAA ATA TCA TTC TGA GG        |           |
|            |              |                               |                      | 453       | Pig573F        | CCT CGC AGC CGT ACA TCT C             |           |
|            |              |                               |                      | 334       | Human741F      | GGC TTA CTT CTC TTC ATT CTC TCC T     |           |
|            |              |                               |                      | 132       | Goat894F       | CCT AAT CTT AGT ACT TGT ACC CTT CCT C |           |
|            |              |                               |                      | 860       | Dog368F        | GGA ATT GTA CTA TTA TTC GCA ACC AT    |           |
|            |              |                               |                      | 561       | Cow121F        | CAT CGG CAC AAA TTT AGT CG            |           |
| mtDNA      | Cyt b        | Fornadel and Norris 2008 [16] | Mammals              | 98        | Cow371R        | GAG CTA GAA TTA GTA AGA GGG CC        | PCR       |
|            |              |                               |                      |           | UNIFORA        | TCC AAA CAA CRM AGC ATA ATA TT        |           |
|            |              |                               |                      |           | UNREV1025 [15] | GGT TGT CCT CCA ATT CAT GTT A         |           |

| DNA Target | Target Locus | Primer Source                   | Species Design  | Size (nt) | Primer Name             | Sequence                              | Assay Use |
|------------|--------------|---------------------------------|-----------------|-----------|-------------------------|---------------------------------------|-----------|
| mtDNA      | Cyt b        | Molaei et al. 2006 [17]         | Avians, mammals | 508       | Avian a FWD [3]         | GAC TGT GAC AAA ATC CCN TTC CA        | PCR       |
|            |              |                                 |                 |           | Avian a REV             | GGT CTT CAT CTY HGG YTT ACA AGA C     |           |
|            |              |                                 |                 | 515       | Avian b FWD [18]        | CCC TCA GAA TGA TAT TTG TCC TCA       |           |
|            |              |                                 |                 |           | Avian b REV             | CCT CAG AAK GAT ATY TGN CCT CAK GG    |           |
|            |              |                                 |                 | 772       | Mammalian a FWD         | CGA AGC TTG ATA TGA AAA ACC ATC GTT G |           |
|            |              |                                 |                 |           | Mammalian a REV         | TGT AGT TRT CWG GGT CHC CTA           |           |
|            |              |                                 |                 | 195       | Mammalian b FWD         | GCG TAC GCA ATC TTA CGA TCA A         |           |
|            |              |                                 |                 |           | Mammalian b REV         | CTG GCC TCC AAT TCA TGT GAG           |           |
| mtDNA      | Cyt b        | Berdjane-Brouk et al. 2012 [19] | Vertebrates     | 350       | Mammalian c FWD         | CCA TCC AAC ATC TCA GCA TGA TGA AA    | PCR       |
|            |              |                                 |                 |           | Mammalian c REV         | GCC CCT CAG AAT GAT ATT TGT CCT CA    |           |
|            |              |                                 |                 |           | cyt-AVZF                | CCT CAG AAT GAT ATT TGT CCT C         |           |
|            |              |                                 |                 |           | Cyt-AVZR                | ATC CAA CAT CTC AGC ATT GAT GAA       |           |
| mtDNA      | Cyt b        | Tobe and Linacre 2008 [20]      | Guinea pigs     | 94        | Universal 2             | TGA GGA CAA ATA TCA TTY TGA GGR GC    | PCR       |
|            |              |                                 |                 |           | C. porcellus 85         | GAG GGA GCC GAA GTT TCA TCA CGT       |           |
|            |              |                                 |                 | 156       | Universal 1             | GAC CAA TGA TAT GAA AAA CCA TCG TTG T |           |
|            |              |                                 |                 |           | C. porcellus 471        | CCA GAT TCA CTC TAC AAG GGT TGT C     |           |
|            |              |                                 | Dogs            | 170       | Universal 1             | GAC CAA TGA TAT GAA AAA CCA TCG TTG T |           |
|            |              |                                 |                 |           | C. lupus familiaris 99  | CAA GCA TAC TCC TAG TAA GGA TCC G     |           |
|            |              |                                 |                 | 303       | Universal 2             | TGA GGA CAA ATA TCA TTY TGA GGR GC    |           |
|            |              |                                 |                 |           | C. lupus familiaris 684 | GAG TAG GAG TAA GGC TCC TAG GAT A     |           |

| DNA Target | Target Locus | Primer Source              | Species Design | Size (nt) | Primer Name      | Sequence                                       | Assay Use |
|------------|--------------|----------------------------|----------------|-----------|------------------|------------------------------------------------|-----------|
| mtDNA      | Cyt b        | Tobe and Linacre 2008 [20] | Rabbits        | 184       | Universal 1      | GAC CAA TGA TAT GAA AAA CCA TCG TTG T          | PCR       |
|            |              |                            |                |           | O. cuniculus 115 | GTG AAA ATT TGA ATT ATA AGG CAC AG             |           |
|            |              |                            |                | 192       | Universal 2      | TGA GGA CAA ATA TCA TTY TGA GGR GC             |           |
|            |              |                            |                |           | O. cuniculus 571 | AAA GAG GAG GTG AAT TAA GAC TAA AGT            |           |
|            |              |                            | Pigs           | 199       | Universal 2      | TGA GGA CAA ATA TCA TTY TGA GGR GC             |           |
|            |              |                            |                |           | S. scrofa 147    | TCT GAT GTG TAA TGT ATT GCT AAG AAC            |           |
|            |              |                            |                | 219       | Universal 1      | GAC CAA TGA TAT GAA AAA CCA TCG TTG T          |           |
|            |              |                            |                |           | S. scrofa 580    | CGT GCA GGA ATA GGA GAT GTA CGG C              |           |
|            |              |                            | Goats          | 273       | Universal 1      | GAC CAA TGA TAT GAA AAA CCA TCG TTG T          |           |
|            |              |                            |                |           | C. hircus 198    | GCC ATA ATT TAC ATC TCG ACA AAT GTG AGT T      |           |
|            |              |                            |                | 313       | Universal 2      | TGA GGA CAA ATA TCA TTY TGA GGR GC             |           |
|            |              |                            |                |           | C. hircus 693    | TTA GAA CAA GAA TTA GTA GCA TGG CG             |           |
|            |              |                            | Humans         | 246       | Universal 2      | TGA GGA CAA ATA TCA TTY TGA GGR GC             |           |
|            |              |                            |                |           | H. sapiens 208   | TTC AGC CAT AAT TTA CGT CTC GAG T              |           |
|            |              |                            |                | 277       | Universal 1      | GAC CAA TGA TAT GAA AAA CCA TCG TTG T          |           |
|            |              |                            |                |           | H. sapiens 624   | ATC GGA ATG GGA GGT GAT TCC TAG G              |           |
|            |              |                            | Deer           | 188       | Universal 2      | TGA GGA CAA ATA TCA TTY TGA GGR GC             |           |
|            |              |                            |                |           | C. elaphus 210   | CGA ATA ATT CAG CCA TAA TTG ACA TCT CGA        |           |
|            |              |                            |                | 285       | Universal 1      | GAC CAA TGA TAT GAA AAA CCA TCG TTG T          |           |
|            |              |                            |                |           | C. elaphus 567   | AGT AAG TGT ACT ATA GCG AGT GCT GCG            |           |
|            |              |                            | Mice           | 151       | Universal 3      | TTT TTT TTT TTT CGV TCH ATY CCH AAY AAA CTA GG |           |
|            |              |                            |                |           | M. minutus 260   | GAA GGA ATA AGC AGA TAA AAA ATA TGG ATG        |           |
|            |              |                            |                | 340       | Universal 1      | GAC CAA TGA TAT GAA AAA CCA TCG TTG T          |           |
|            |              |                            |                |           | M. minutus 960   | TAC AAG GAT TCA GTA AAG TGT TTG GGA G          |           |

| DNA Target | Target Locus | Primer Source              | Species Design | Size (nt) | Primer Name      | Sequence                                       | Assay Use |
|------------|--------------|----------------------------|----------------|-----------|------------------|------------------------------------------------|-----------|
| mtDNA      | Cyt b        | Tobe and Linacre 2008 [20] | Mice           | 186       | Universal 3      | TTT TTT TTT TTT CGV TCH ATY CCH AAY AAA CTA GG | PCR       |
|            |              |                            |                |           | M. musculus 746  | GTA GTT GTC TGG GTC TCC TAG TAT ATC            |           |
|            |              |                            |                | 362       | Universal 2      | TGA GGA CAA ATA TCA TTY TGA GGR GC             |           |
|            |              |                            |                |           | M. musculus 996  | CTC CAA TTC AGG TTA AGA TAA GT                 |           |
|            |              |                            | Cats           | 89        | Universal 2      | TGA GGA CAA ATA TCA TTY TGA GGR GC             |           |
|            |              |                            |                |           | F. catus 471     | TTT CCC TCA GAT YCA TTC TAC TAG TTC AGT C      |           |
|            |              |                            |                | 180       | Universal 3      | TTT TTT TTT TTT CGV TCH ATY CCH AAY AAA CTA GG |           |
|            |              |                            |                |           | F. catus 990     | GAT TCA TGT TAG GGT TAG GAG ATC C              |           |
|            |              |                            | Hedgehogs      | 120       | Universal 2      | TGA GGA CAA ATA TCA TTY TGA GGR GC             |           |
|            |              |                            |                |           | E. europaeus 499 | GTT AGA GTA GCT TTG TCA ACT GAA AAT GA         |           |
|            |              |                            | Foxes          | 125       | Universal 3      | TTT TTT TTT TTT CGV TCH ATY CCH AAY AAA CTA GG |           |
|            |              |                            |                |           | V. vulpes 572    | GGA GAA ATA AGA GAT GAA CCA TCG CTA ATG        |           |
|            |              |                            |                | 196       | Universal 2      | TGA GGA CAA ATA TCA TTY TGA GGR GC             |           |
|            |              |                            |                |           | V. vulpes 939    | TAA GGG GYC GGA ATA TTA TCC CA                 |           |
|            |              |                            | Badgers        | 173       | Universal 3      | TTT TTT TTT TTT CGV TCH ATY CCH AAY AAA CTA GG |           |
|            |              |                            |                |           | M. meles 624     | TTT GTC AGA ATT RGA GGG GAT WCC AGA G          |           |
|            |              |                            |                | 241       | Universal 2      | TGA GGA CAA ATA TCA TTY TGA GGR GC             |           |
|            |              |                            |                |           | M. meles 985     | GTT ARG GTG ARG AGG TCT GCA AC                 |           |
|            |              |                            | Cows           | 93        | Universal 3      | TTT TTT TTT TTT CGV TCH ATY CCH AAY AAA CTA GG |           |
|            |              |                            |                |           | B. taurus 666    | TAA GAT GTC CTT AAT GGT ATA GTA G              |           |

| DNA Target | Target Locus | Primer Source              | Species Design | Size (nt) | Primer Name       | Sequence                                       | Assay Use |
|------------|--------------|----------------------------|----------------|-----------|-------------------|------------------------------------------------|-----------|
| mtDNA      | Cyt b        | Tobe and Linacre 2008 [20] | Cows           | 287       | Universal 2       | TGA GGA CAA ATA TCA TTY TGA GGR GC             | PCR       |
|            |              |                            |                |           | B. taurus 903     | GTG TGT AGT AGG GGG ATT AGA GCA                |           |
|            |              |                            | Rats           | 192       | Universal 3       | TTT TTT TTT TTT CGV TCH ATY CCH AAY AAA CTA GG |           |
|            |              |                            |                |           | R. norvegicus 682 | GGA ATA ATA GTA ATA TAA ATA CAC CTA GGA GGT C  |           |
|            |              |                            |                | 310       | Universal 2       | TGA GGA CAA ATA TCA TTY TGA GGR GC             |           |
|            |              |                            |                |           | R. norvegicus 999 | GGT TGG CCT CCG ATT CAT GTT AAG ACT            |           |
|            |              |                            | Donkeys        | 198       | Universal 3       | TTT TTT TTT TTT CGV TCH ATY CCH AAY AAA CTA GG |           |
|            |              |                            |                |           | E. asinus 704     | AAT ACT AGG GTT AGT AGG AGT AGG ACT A          |           |
|            |              |                            |                | 327       | Universal 2       | TGA GGA CAA ATA TCA TTY TGA GGR GC             |           |
|            |              |                            |                |           | E. asinus 1014    | TTC TAC TGG TTG GCC ACC A                      |           |
|            |              |                            | Horses         | 208       | Universal 3       | TTT TTT TTT TTT CGV TCH ATY CCH AAY AAA CTA GG |           |
|            |              |                            |                |           | E. caballus 705   | AGA ATA ATA CTA GAG TTA GTA GGA GCA AGA TC     |           |
|            |              |                            |                | 333       | Universal 2       | TGA GGA CAA ATA TCA TTY TGA GGR GC             |           |
|            |              |                            |                |           | E. caballus 1023  | TAC GTA TGG GTG TTC CAC TGG C                  |           |
|            |              |                            | Sheep          | 98        | Universal 3       | TTT TTT TTT TTT CGV TCH ATY CCH AAY AAA CTA GG |           |
|            |              |                            |                |           | O. aries 710      | GGC GTG AAT AGT ACT AGT AGC ATG AGG ATG A      |           |
|            |              |                            |                | 336       | Universal 2       | TGA GGA CAA ATA TCA TTY TGA GGR GC             |           |
|            |              |                            |                |           | O. aries 906      | GCT TTG ATG TAT GGA GGA GGG GTA TAA TT         |           |
| mtDNA      | Cyt b        | Garros et al. 2011 [21]    | Deer           | 188       | Universal 2 [20]  | TGA GGA CAA ATA TCA TTY TGA GGR GC             | PCR       |
|            |              |                            |                |           | Cervus            | AGT AAG TGT ACT ATA GCG AGT GCT GCG            |           |
|            |              |                            |                | 220       | Universal 2 [20]  | TGA GGA CAA ATA TCA TTY TGA GGR GC             |           |
|            |              |                            |                |           | Capreolus         | TTG TCC GCG TTT GAT GGG ATT CCT ATC            |           |

| DNA Target | Target Locus | Primer Source             | Species Design | Size (nt) | Primer Name | Sequence                                   | Assay Use |
|------------|--------------|---------------------------|----------------|-----------|-------------|--------------------------------------------|-----------|
| mtDNA      | Cyt b        | Sales et al. 2015 [22]    | Dogs           | 118       | FWD         | AGC GCC GTC TAA CAT CTC TG                 | qPCR      |
|            |              |                           |                |           | REV         | TGT GGC TGT GTC CGA TGT AT                 |           |
|            |              |                           | Horses         | 103       | FWD         | CAG CCA GTG GAA CAC CCA TA                 |           |
|            |              |                           |                |           | REV         | TGT TTT CGA TGG TGC TTG CG                 |           |
|            |              |                           | Cats           | 108       | FWD         | AGA ATG GAT CTG AGG GGG CT                 |           |
|            |              |                           |                |           | REV         | AGG TGT ACT GCT GCT AAG GC                 |           |
|            |              |                           | Chickens       | 104       | FWD         | CAG CAG ACA CAT CCC TAG CC                 |           |
|            |              |                           |                |           | REV         | GAA GAA TGA GGC GCC GTT TG                 |           |
|            |              |                           | Humans         | 104       | FWD         | AGG CGT CCT TGC CCT ATT AC                 |           |
|            |              |                           |                |           | REV         | GTG ATT GGC TTA GTG GGC G                  |           |
|            |              |                           | Rats           | 109       | FWD         | GAA TTG GGG GCC AAC CAG TA                 |           |
|            |              |                           |                |           | REV         | TCA ATG ATT CCG GAG ATT GGT                |           |
| mtDNA      | Ctrl. Reg.   | Purdue et al. 2000 [23]   | Vertebrates    | 685       | H16501A     | ATG GCC CTG TAG AAA GAA C                  | PCR       |
|            |              |                           |                |           | L15926      | TAC ACT GGT CTT GTA AAC C                  |           |
| mtDNA      | Ctrl. Reg.   | Kocher et al. 1989 [10]   | Vertebrates    | 1000      | L15926      | TCA AAG CTT ACA CCA GTC TTG TAA ACC        | PCR       |
|            |              |                           |                |           | L16007      | CCC AAA GCT AAA ATT CTA A                  |           |
|            |              |                           |                |           | H00651      | TAA CTG CAG AAG GCT AGG ACC AAA CCT        |           |
| mtDNA      | Ctrl. Reg.   | Latch et al. 2008 [24]    | Deer           | 730       | Odh-dLoopF  | GAG CAA CCA ATC TCC CTG AG                 | PCR       |
|            |              |                           |                |           | Odh-dLoopR  | GTG TGA GCA TGG GCT GAT TA                 |           |
| mtDNA      | ND2          | Cicero & Johnson 2001 [3] | Avians         | 1108      | L5204       | GCT AAC AAA GCT ATC GGG CCC AT             | PCR       |
|            |              |                           |                |           | L5494       | AAT GCA TGA TCC ACC GGC CAA TGA GA         |           |
|            |              |                           |                |           | H5578       | CCT TGG AGT ACT TCT GGG AAT CAG A          |           |
|            |              |                           |                |           | L5809       | GCC TTC TCA TCC ATC TCC CAC CTA GGA TGA AT |           |
|            |              |                           |                |           | H6034       | TTG GTT AGT TCT TGG ATA ATG AGT CA         |           |
|            |              |                           |                |           | H6312       | CTT ATT TAA GGC TTT GAA GGC C              |           |

| DNA Target | Target Locus | Primer Source             | Species Design                 | Size (nt) | Primer Name | Sequence                                       | Assay Use |
|------------|--------------|---------------------------|--------------------------------|-----------|-------------|------------------------------------------------|-----------|
| mtDNA      | ND3          | Cicero & Johnson 2001 [3] | Avians                         | 588       | L10701      | CTC TAC ACA ACC ATC TAC TGA TGA GG             | PCR       |
|            |              |                           |                                |           | H11289      | GAT AGT ATT ATG CTT TCT AGG CA                 |           |
| mtDNA      | d-loop       | Collini et al. 2015 [25]  | Muroidea rodents               | 175-      | FWD         | TCT GGT TCT TAC TTC AGG GC                     | PCR       |
|            |              |                           |                                | 176       | REV         | TTC ATG CCT TGA CGG CTA TG                     |           |
|            |              |                           | Soricidae shrews               | 136-      | FWD         | TCA GCC CAT GCC GAC ACA T                      |           |
|            |              |                           |                                | 137       | REV         | GCC CCC ATA GAG AAT AAG CC                     |           |
|            |              |                           | Dogs                           | 146-      | FWD         | CCG CAA CGG CAC TAA CTC TA                     |           |
|            |              |                           |                                | 147       | REV         | CCA TTG ACT GAA TAG CAC CTT G                  |           |
|            |              |                           | Deer                           | 168-      | FWD         | CGA TGG ACT AAT GAC TAA TCA G                  |           |
|            |              |                           |                                | 169       | REV         | TTA TGG GGA TGC TCA AGA TG                     |           |
| rRNA       | 12S          | Kitano et al. 2007 [26]   | Vertebrates                    | 215       | L1085       | CCA AAA CTG GGA TTA GAT ACC C                  | PCR       |
|            |              |                           |                                |           | H1259       | GTT TGC TGA AGA TGG CGG TA                     |           |
| rRNA       | 12S          | Kocher et al. 1989 [10]   | Vertebrates                    | 386       | L1091       | AAA AAG CTT CAA ACT GGG ATT AGA TAC CCC ACT AT | PCR       |
|            |              |                           |                                |           | H1478       | TGA CTG CAG AGG GTG ACG GGC GGT GTG T          |           |
| rRNA       | 12S          | Humair et al. 2007 [27]   | Vertebrates                    | 145       | 12S-6F      | CAA ACT GGG ATT AGA TAC C                      | PCR       |
|            |              |                           |                                |           | B-12S-9R    | AGA ACA GGC TCC TCT AG                         |           |
| rRNA       | 12S          | Melton et al. 2007 [28]   | Vertebrates                    | 104       | 12SF        | ACT GGG ATT AGA TAC CCC ACT ATG                | PCR       |
|            |              |                           |                                |           | 12SR        | ATC GAT TAT AGA ACA GGC TCC TC                 |           |
| rRNA       | 12S          | Roca et al. 2004 [29]     | Solenodons (rare insectivores) | 500       | 12S3F       | GGG ATT AGA TAC CCC ACT ATG C                  | PCR       |
|            |              |                           |                                |           | 12S5R       | TGC TTA CCA TGT TAC GAC TT                     |           |

| DNA Target | Target Locus | Primer Source                 | Species Design | Size (nt) | Primer Name     | Sequence                               | Assay Use |
|------------|--------------|-------------------------------|----------------|-----------|-----------------|----------------------------------------|-----------|
| rRNA       | 12S          | Wodecka et al. 2014 [30]      | Vertebrates    | 520       | 532f12s         | CAA ACT GGG ATT AGA TAC                | PCR       |
|            |              |                               |                |           | 1102r12         | TGC TTA CCT TGT TAC GAC                |           |
|            |              |                               |                | 440       | 539f12s         | GGA TTA GAT ACC CCA CTA TGC            |           |
|            |              |                               |                |           | 1015r12s        | TGA GGA GGG TGA CGG GCG GT             |           |
| rRNA       | 12S          | Karlsson & Holmlund 2007 [31] | Mammals        | 111       | Partial 12S FWD | CCC CAC GGG AAA CAG CAG T              | PCR       |
|            |              |                               |                |           | Partial 12S REV | CGC GGT GGC TGG CAC GAA AT             |           |
| rRNA       | 12S          | Collini et al. 2015 [25]      | Passeriformes  | 155-156   | FWD             | ATC CAC GAT ATT ACC TGA CCA TT         | PCR       |
|            |              |                               |                |           | REV             | TAC CCC ATT GCT TCC ATT CC             |           |
|            |              |                               | Caprinae       | 158       | FWD             | TAA ATC TCG TGC CAG CCA                |           |
|            |              |                               |                |           | REV             | GTA GGG TTA CTT TCG TCA T              |           |
| rRNA       | 12S          | Léger et al. 2015 [32]        | Sheep          | 145       | FWD             | CCA GCC TTC CTG TTA ACT TTC AAT AGA CT | qPCR      |
|            |              |                               |                |           | REV             | TTT AGT CCT GTG TGA TTC GAA GGG CG     |           |
|            |              |                               | Chickens       | 145       | FWD             | CTC GCT AAT AAG ACA GGT CAA GGT A      |           |
|            |              |                               |                |           | REV             | TAG GGG GTA TGA TCT CAC TTT ACT G      |           |
| rRNA       | 12S & 16S    | Valinski et al. 2014 [33]     | Vertebrates    | 500       | 12-16S F        | ACA CCG CCC GTC ACC CTC C              | PCR       |
|            |              |                               |                |           | 12-16S R        | AAC CAG CTA TCA CCA GGC TCG            |           |
| rRNA       | 16S          | Kitano et al. 2007 [26]       | Vertebrates    | 244       | L2513           | GCC TGT TTA CCA AAA ACA TCA C          | PCR       |
|            |              |                               |                |           | H2714           | CTC CAT AGG GTC TTC TCG TCT T          |           |
| rRNA       | 16S          | Curler et al. 2015 [34]       | Amphibians     |           | Amphibian FWD   | CTG TTT ACC AAA AAC ATC G              | PCR       |
|            |              |                               |                |           | Vertebrata REV  | CTG ATC CAA CAT CGA GGT CGT            |           |
| rRNA       | 16S          | Sawabe et al. 2010 [35]       | Vertebrates    | 280       | VerU-1          | AAG ACG AGA AGA CCC YAT GGA            | PCR       |
|            |              |                               |                |           | VerU-2          | CCT GAT CCA ACA TMG AGG TCG TA         |           |

| DNA Target | Target Locus             | Primer Source                 | Species Design                             | Size (nt) | Primer Name     | Sequence                        | Assay Use |
|------------|--------------------------|-------------------------------|--------------------------------------------|-----------|-----------------|---------------------------------|-----------|
| rRNA       | 16S                      | Omondi et al. 2015 [36]       | Vertebrates                                | 200       | Vert 16S For    | GAG AAG ACC CTR TGG ARC TT      | PCR       |
|            |                          |                               |                                            |           | Vert 16S Rev    | CGC TGT TAT CCC TAG GGT A       |           |
| rRNA       | 16S                      | Karlsson & Holmlund 2007 [31] | Mammals                                    | 98        | Partial 16S FWD | GAC GAG AAG ACC CTA TGG AGC     | PCR       |
|            |                          |                               |                                            |           | Partial 16S REV | TCC GAG GTC GCC CCA ACC         |           |
| nuDNA      | PNOC                     | Murphy et al. 2001 [37]       | All eutherian orders (Human Chromosome #8) | 333       | PNOC FWD        | GCA TCC TTG AGT GTG AAG AGA A   | PCR       |
|            |                          |                               |                                            |           | PNOC REV        | TGC CTC ATA AAC TCA CTG AAC C   |           |
| nuDNA      | $\beta$ 2-Micro-globulin | Canavez et al. 1999 [38]      | Primates                                   | Var.      | Exon 1 F1       | GCT GGC TTG GAG ACC GGT GA      | PCR       |
|            |                          |                               |                                            |           | Exon 1 F2       | TTG GAG ACA GGT GAC GGT CCC     |           |
|            |                          |                               |                                            |           | Exon 1 R1       | AAA ACT TGG AGG GAG GTA ACG     |           |
|            |                          |                               |                                            |           | Exon 1 R7       | CAG GAA GGA AAA CTT GGA GG      |           |
|            |                          |                               |                                            |           | Exon 2 F3       | ATC CCC AAT TGA AAT ACC CTG     |           |
|            |                          |                               |                                            |           | Exon 2 F8       | GTG CCT AAT CTA GCT TGA GAC     |           |
|            |                          |                               |                                            |           | Exon 2 R2       | TTC AGC AGC CTA CAA AAG AA      |           |
|            |                          |                               |                                            |           | Exon 2 R3       | ACT TAC CCC ACT TTA ATG TCT T   |           |
|            |                          |                               |                                            |           | Exon 2 R8       | ATG ACA TGA CTA CCC ATA CAC A   |           |
|            |                          |                               |                                            |           | Exon 3 F4       | AAA AGT AAA ACT TAA TGT CTT CCT |           |
|            |                          |                               |                                            |           | Exon 3 F5       | ATT TTT CTT TCT CCG CTG TCT     |           |
|            |                          |                               |                                            |           | Exon 3 R4       | CCT GTG ATA CCA CAC TGG CAG     |           |
|            |                          |                               |                                            |           | Exon 3 R5       | TAA CCA CCT GCC TCT ATC CTG     |           |
|            |                          |                               |                                            |           | Exon 3 R9       | TGT GGA AAT GGC AGA AGA AAG A   |           |
|            |                          |                               |                                            |           | Intron 2 F7     | CTC ACC ACC CAA GAC AGT AAA GT  |           |
|            |                          |                               |                                            |           | Intron 2 F6     | GAG TAT GCC TGC CGT GTG AG      |           |

| DNA Target            | Target Locus      | Primer Source            | Species Design | Size (nt) | Primer Name       | Sequence                          | Assay Use |
|-----------------------|-------------------|--------------------------|----------------|-----------|-------------------|-----------------------------------|-----------|
| nuDNA                 | β2-Micro-globulin | Canavez et al. 1999 [38] | Primates       | Var.      | Intron 2 R6       | TGA AAA AGA CGA TGG AGA AAG AAA A | PCR       |
|                       |                   |                          |                |           | Intron 2 R12      | AGT GGA GAA AGA AAA AGG AAG A     |           |
| Trans-posable element | Alu               | Walker et al. 2003 [39]  | Primates       | Var.      | Alu 3             | GAT CGC GCC ACT GCA CTC C         | PCR       |
|                       |                   |                          |                |           | Alu 8             | GGA TTA CAG GCG TGA GCC AC        |           |
|                       |                   |                          |                |           | Intra-Yb8 48-69   | CGA GGC GGG TGG ATC ATG AGG T     |           |
|                       |                   |                          |                |           | Intra-Yb8 273-254 | TCT GTC GCC CAG GCC GGA CT        |           |
|                       |                   |                          |                |           | Intra-Yb6 FWD     | GAG ATC GAG ACC AC/ GGT GAA A     |           |
|                       |                   |                          |                |           | Intra-Yb6 REV     | TTT GAG ACG GAG TCT CGT T         |           |

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