**Supplemental Table S1.**

**Table S1** GenBank accession numbers of the 126 horse mtDNA sequences used in the present study.

|  |  |  |  |
| --- | --- | --- | --- |
| **Accession number** | **N**  | **Breed** | **Reference** |
| X79547, JN398377 | 2 | Ref. mtDNA samples | Xu et al., 1994; Achilli et al., 2012 |
| JN398385, JN398393, JN398404, JN398410, JN398422, JN398424, JN398435, JN398449-50, JN398452-53 | 11 | Akhal-Teke horse | Achilli et al. 2012 |
| JN398380, JN398392, JN398412, JN398434, JN398448 | 5 | Arab Horse | Achilli et al. 2012 |
| JN398402 - JN398403 | 2 | Przewalski's horse | Achilli et al. 2012 |
| DQ327950-67 | 18 | Akhal-Teke horse | McGahern et al 2006 |
| EU093045-63 | 19 | Akhal-Teke horse | Lippold et al. 2011 |
| AY246174-79 | 6 | Akhal-Teke horse | Flannery et al. 2003 unpub |
| AY246195-00 | 6 | Caspian Pony | Flannery et al. 2003 unpub |
| AJ413724-30 | 7 | Caspian Pony | Jansen et al. 2002 |
| AJ413649; AJ413658-71 | 15 | Barb horse | Jansen et al. 2002 |
| HQ439441-42 | 2 | Akhal-Teke horse | Priskin et al. 2010 |
| *MF580226-36* | *11* | *Akhal-Teke horse*  | *Present study* |
| *MF580237-44* | *8* | *Arab horse* | *Present study* |

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