**Supplementary Table 1: List of sequences used for phylogenetic analysis**

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| --- | --- | --- | --- |
| **Genetic marker** | **Species** | **Host/Country** | **NCBI accession number** |
| *COI* | *Trichuris globulosa* | *Camelus* sp./Iran | LN626970 |
|  | *Trichuris globulosa* | *Camelus* sp./Iran | LN626969 |
|  | *Trichuris globulosa* | *Camelus* sp./Iran | LN626971 |
|  | *Trichuris ovis* | *Addax nasomaculatus*/China | **JQ996232** |
|  | *Trichuris ovis* | Goat/China | MG837075 |
|  | *Trichuris ovis* | Goat/China | MG837081 |
|  | *Trichuris ovis* | Goat/China | MG837080 |
|  | *Trichuris discolor* | *Bos grunniens mutus*/China | **JQ996231** |
|  | *Trichuris discolor* | *Bos taurus*/NA | HE653141 |
|  | *Trichuris discolor* | *Bos taurus*/NA | HE653140 |
|  | *Trichuris discolor* | Sheep/China | ON184014 |
|  | *Trichuris pardinasi* | *Phyllotis xanthopygus*/Argentina | HG934456 |
|  | *Trichuris navonae* | *Akodon montensis*/Argentina | HG934458 |
|  | *Trichuris vulpis* | *Canis lupus familiaris*/- | HE653138 |
|  | *Trichuris mastomysi* | *Mus mahomet*/Ethiopia | MZ229690 |
|  | *Trichuris arvicolae* | *Microtus arvalis*/Czech Republic | **MZ229684** |
|  | *Trichuris arvicolae* | NA | FR851287 |
|  | *Trichuris trichiura* | *Homo sapiens*/China | **GU385218** |
|  | *Trichuris muris* | NA | **AP017703** |
|  | *Trichuris suis* | Swine/Uganda | **KT449823** |
|  | *Trichuris suis* | Pig/China | HQ204210 |
|  | *Trichuris suis* | Pig/China | HQ183742 |
|  | *Trichuris* sp. | *Mus mahomet*/Ethiopia | **MZ229688** |
|  | *Trichuris* sp. | *Sooretamys angouya*/Argentina | HG934467 |
|  | *Trichuris* sp. | *Mus caroli*/NA | **MZ229687** |
|  | *Trichuris* sp. | *Papio anubis*/USA | **KT449825** |
|  | *Trichuris* sp. | *Papio hamadryas*/Denmark | **KT449824** |
|  | *Trichinella spiralis* (Outgroup) | NA | **AF293969** |
| 12S and 16S | *Trichuris mastomysi* | *Mastomys natalensis*/Tanzania | MZ229690 |
|  | *Trichuris trichiura* | *Homo sapiens*/Thailand | MT135052 |
|  | *Trichuris trichiura* | *Homo sapiens*/Thailand | MT135051 |
|  | *Trichuris trichiura* | *Homo sapiens*/Thailand | MT151872 |
|  | *Trichuris skrjabini* | Goat/ China | HQ183739 |
|  | *Trichuris* sp. | *Trachypithecus francoisi*/China | KC481235 |
|  | *Trichuris* sp. | *Trachypithecus francoisi*/China | KC461179 |
| ITS2 | *Trichuris globulosa* | *Camelus* sp./Iran | LN651159 |
|  | *Trichuris globulosa* | *Camelus* sp./Iran | LN651160 |
|  | *Trichuris ovis* | Sheep/Ireland | JF680987 |
|  | *Trichuris ovis* | *Capreolus capreolus*/Czech Republic | KT630824 |
|  | *Trichuris discolor* | Cattle/Japan | AB367795 |
|  | *Trichuris discolor* | Roe deer/China | KT581252 |
|  | *Trichuris discolor* | *Cervus nippon*/Japan | LC320148 |
|  | *Trichuris navonae* | *Akodon montensis*/Argentina | HG934436 |
|  | *Trichuris pardinasi* | *Phyllotis xanthopygus*/Argentina | HG934449 |
|  | *Trichuris trichiura* | l'hoest monkey/Uganda | KJ588164 |
|  | *Trichuris suis* | NA/China | AM993016 |
|  | *Trichuris arvicolae* | *Myodes glareolus*/NA | FN543185 |
|  | *Trichuris carlieri* | *Gerbilliscus vicinus*/Tanzania | JX683522 |
|  | *Trichuris muris* | NA | KU575093 |
|  | *Trichuris mastomysi* | *Mastomys natalensis*/Tanzania | JX683525 |
|  | *Trichinella spiralis* (Outgroup) | NA | KC006415 |

NA indicates no information available. The NCBI accession numbers in **bold** indicate that they were also used for the mitochondrial 12S and 16S rRNA genetic markers.