**Table S2**

**Mitogenomes used for comparative characterization and phylogenetic analysis, name of species, family and accession numbers**

|  |  |  |  |
| --- | --- | --- | --- |
| **Species** | **Family** | **Accession no.** | **Reference** |
| *Paguma larvata* | Viverridae | NC\_029403.1 | Zhang et al., 2015 |
| *Viverricula indica* | Viverridae | NC\_025296.1 | Weng et al., 2014 |
| *Genetta servalina* | Viverridae | NC\_024568.1 | Hassanin, 2014 |
| *Arctictis binturong* | Viverridae | **#** | Salleh et al., 2017 |
| *Cynogale bennettii* | Viverridae | KY117544 | Salleh et al., 2017 |
| *Hyaena hyaena* | Hyaenidae | NC\_020669.1 | Bon et al., 2011 |
| *Crocuta crocuta* | Hyaenidae | NC\_020670.1 | Bon et al., 2011 |
| *Mungotictis decemlineata* | Eupleridae | NC\_027828.1 | Hassanin, 2014 |
| *Herpestes javanicus* | Herpestidae | AY873843.1 | Penny and McLenachan, 2005 |
| *Nandinia binotata* | Nandiniidae | NC\_024567.1 | Hassanin, 2014 |
| *Neofelis nebulosa* | Felidae | KU133958 | Tabasum et al., 2016 |
| *Panthera leo persica* | Felidae | KU234271 | Tabasum et al., 2016 |
| *Panthera leo leo* | Felidae | KF776494.1 | Wang, 2013 |
| *Leopardus colocolo* | Felidae | NC\_028314.1 | Li et al., 2016 |
| *Catopuma badia* | Felidae | NC\_028300.1 | Li et al., 2016 |
| *Lynx canadensis* | Felidae | NC\_028313.1 | Li et al., 2016 |
| *Pardofelis marmorata* | Felidae | NC\_028303.1 | Li et al., 2016 |
| *Caracal caracal* | Felidae | NC\_028306.1 | Li et al., 2016 |
| *Leptailurus serval* | Felidae | NC\_028316.1 | Li et al., 2016 |
| *Prionailurus viverrinus* | Felidae | NC\_028305.1 | Li et al., 2016 |
| *Felis catus* | Felidae | NC\_001700.1 | Lopez, 1995 |
| *Otocolobus manul* | Felidae | NC\_028323.1 | Li et al., 2014 |
| *Prionodon pardicolor* | Prionodontidae | NC\_024569.1 | Hassanin, 2014 |
| *Cuon alpinus* | Canidae | NC\_013445.1 | Chen and Zhang 2009 |

# The Accession No. given in this reference does not belogs to *Arctictis binturong*, therefore,the sequence was taken from the authors on request.

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