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| **TABLE S3** | **PCR AND SEQUENCING STRATEGIES** |
|   |   |
| This table lists PCR and sequencing primers used to amplify and sequence Ku70 and Nuku from aforementioned primate samples. |
| (PCR primer), \*sequencing primer |
|   |   |
|   |   |
| **Ku70** |   |
| **ORGANISM**  | **PRIMERS** |
| Gorilla PR00280  | (Ai009/Ai016) Ai009\*, Ai013\*, Ai019\*, Ai018\*, Ai037\*, Ai021\*, Ai015\*, Ai022a\* |
| Borneo Orangutan PR00650 | (Ai009/Ai016) Ai009\*, Ai016\*, Ai013\*, Ai019\*, Ai018\*, Ai037\*, Ai021\*, Ai015\*, Ai022a\* |
| Siamang PR00722 | (Ai009/Ai016) Ai009\*, Ai013\*, Ai019\*, Ai018\*, Ai021\*, Ai015\*, Ai022a\* |
| White-Cheeked Gibbon PR01037 | (Ai009/Ai016) Ai009\*, Ai013\*, Ai019\*, Ai018\*, Ai037\*, Ai021\*, Ai015\*, Ai022a\* |
| Agile Gibbon PR00773 | (Ai009/Ai016) Ai009\*, Ai013\*, Ai019\*, Ai018\*, Ai037\*, Ai015\*, Ai022a\* |
| Rhesus Mm265-95 | (Ai009/Ai016) Ai013\*, Ai019\*, Ai018\*, Ai021\*, Ai037\*, Ai015\*, Ai022a\* |
| Talapoin PR00716 | (Ai009/Ai016) Ai009\*, Ai013\*, Ai019\*, Ai018\*, Ai015\*, Ai022a\*, Ai037\* |
| Colobus PR00980 | (Ai009/Ai016) Ai009\*, Ai013\*, Ai019\*, Ai018\*, Ai015\*, Ai022a\*  |
| Leaf Monkey PR01099 | (Ai009/Ai016) Ai009\*, Ai013\*, Ai018\*, Ai015\* |
| Crab-eating Macaque Mf103-06 | (Ai009/Ai016) Ai009\*, Ai013\*, Ai019\*, Ai018\*, Ai037\*, Ai015\* |
| Olive Baboon PR00978 | (Ai009/Ai016) Ai009\*, Ai016\*, Ai014\*, Ai013\*, Ai019\*, Ai037\*, Ai021\*, Ai022a\* |
| Black Mangabey PR01215 | (Ai009/Ai016) Ai004\*, Ai013\*, Ai015\*, Ai019\*, Ai037\*, Ai022a\* |
| Wolf's Guenon PR01241 | (Ai009/Ai016) Ai013\*, Ai019\*, Ai009\*, Ai018\*, Ai037\*, Ai015\*, Ai021\*, Ai022a\* |
|   |   |
| **Nuku2** |   |
| **ORGANISM**  | **PRIMERS** |
| Gorilla PR00280  | (Ai023/Ai028) Ai038\*, Ai023\*, Ai054,\* Ai024\*, Ai025\*, Ai028\* |
| Borneo Orangutan PR00650 | (Ai023/Ai028) Ai038\*, Ai023\*, Ai054,\* Ai024\*, Ai025\*, Ai028\* |
| Siamang PR00722 | (Ai022b/Ai030) Ai038\*, Ai023\*, Ai054,\* Ai024\*, Ai025\* |
| White-Cheeked Gibbon PR01037 | (Ai023/Ai028) Ai038\*, Ai023\*, Ai054\*, Ai053\*, Ai025\*, Ai055\* |
| Agile Gibbon PR00773 | (Ai023/Ai028) Ai038\*, Ai023\*, Ai054\*, Ai024\*, Ai053\*, Ai055\*, Ai025\* |
| Talapoin PR00716 | (Ai023/Ai028) Ai038\*, Ai023\*, Ai024\*, Ai028\*, Ai025\* |
| Colobus PR00980 | (Ai023/Ai028) Ai038\*, Ai023\*, Ai024\*, Ai026\*, Ai028\*, Ai025\* |
| Leaf Monkey PR01099 | (Ai023/Ai028) Ai038\*, Ai023\*, Ai024\*, Ai028\*, Ai025\* |
| Crab-eating Macaque Mf103-06 | (Ai023/Ai028) Ai038\*, Ai023\*, Ai024\*, Ai028\*, Ai025\* |
| Olive Baboon PR00978 | (Ai023/Ai028) Ai038\*, Ai023\*, Ai054\*, Ai024\*, Ai055\*, Ai025\*, Ai028\* |
| Black Mangabey PR01215 | (Ai023/Ai028) Ai038\*, Ai023\*, Ai054\*, Ai024\*, Ai055\*, Ai025\*, Ai028\* |
| Wolf's Guenon PR01241 | (Ai023/Ai028) Ai038\*, Ai023\* Ai054\*, Ai024\*, Ai055\*, Ai025\*, Ai028\* |