Table 1 Information for samples used in this study. CAS: California Academy of Science, San Francisco; KIZ: Kunming Institute of Zoology, the Chinese Academy of Sciences; ROM: Royal Ontario Museum, Toronto; YBU: Yibin University, China; GP: Guo Peng, own catalogue number)

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| --- | --- | --- | --- | --- | --- |
| Taxon | Sample No. | Locality | Accession No. | | |
| cyt.*b* | ND2 | c-mos |
| *Sibynophis bistrigatus* | CAS 214081 | Mandalay, Myanmar | KC000127 | KC000130 | KC000112 |
| *Sibynophis chinensis* | CHS 695 | Badagongshan, Hunan, China | - | MK199034 | - |
| *Sibynophis chinensis* | CHS 879 | Motuo, Linzhi, Tibet, China | MK201583 | MK199136 | - |
| *Sibynophis chinensis* | CHS 880 | Motuo, Linzhi, Tibet, China | - | MK199137 | - |
| *Sibynophis chinensis* | CHS 753 | Dawuling, Guangdong, China | MK201506 | MK199065 | - |
| *Sibynophis chinensis* | CHS 245 | Mangshan, Hunan, China | MK201363 | MK198941 | - |
| *Sibynophis chinensis* | CHS 246 | Heihe , Shaanxi, China | MK201364 | MK198942 | - |
| *Sibynophis chinensis* | BBRB090907-1 | Jeju Island, Korea | KF360246 | KF360246 | - |
| *Sibynophis chinensis* | CHS 2010075 | Hanzhong, Shaanxi, China | KC000124 | KC000131 | KC000113 |
| *Sibynophis chinensis* | ROM 25618 | Ha Tay, Vietnam | MW199783 | - | KX694818 |
| *Sibynophis chinensis* | ROM 35661 | Cao Bang, Vietnam | MW199781 | - | MW177794 |
| *Sibynophis chinensis* | KIZ 09100 | Hainan, China | MW199782 | OQ981580 | MW177795 |
| *Sibynophis chinensis* | KIZ 022270 | - | OQ981557 | - | - |
| *Sibynophis chinensis* | YBU18168/GP5499 | Dujiangyan, Sichuan, China | OQ981568 | OQ981587 | OQ981601 |
| *Sibynophis chinensis* | YBU18167/GP5498 | Dujiangyan, Sichuan, China | OQ981567 | OQ981586 | OQ981600 |
| *Sibynophis chinensis* | YBU11224/GP1960 | Leigongshan, Guizhou, China | OQ981564 | OQ981583 | OQ981592 |
| *Sibynophis chinensis* | YBU13274/GP2906 | Hengyang, Hunan, China | OQ981565 | OQ981584 | OQ981598 |
| *Sibynophis chinensis* | GP3673 | Qianshan, Jiangxi, China | OQ981553 | OQ981573 | OQ981599 |
| *Sibynophis chinensis* | GP1761 | Hainan, China | OQ981550 | OQ981571 | OQ981597 |
| *Sibynophis grahami* | YBU11042/GP1615 | Southern Yunnan, China | OQ981562 | OQ981581 | OQ981590 |
| *Sibynophis chinensis* | GP846 | China | OQ981555 | OQ981576 | OQ981602 |
| *Sibynophis chinensis* | GP 10550 | Yibin, Sichuan, China | OQ981548 | OQ981570 | OQ981596 |
| *Sibynophis collaris* | CAS 220133 | Chin State, Myanmar | KC000129 | KC000138 | KC000117 |
| *Sibynophis collaris* | CAS 243217 | Chin State, Myanmar | KC000125 | KC000136 | KC000114 |
| *Sibynophis collaris* | CAS 234907 | Chin State, Myanmar | KC000121 | KC000135 | KC000118 |
| *Sibynophis collaris* | CAS 240150 | Magway, Myanmar | KC000126 | KC000134 | KC000119 |
| *Sibynophis collaris* | KIZ 011001 | Motuo, Tibet, China | MW199784 | OQ981577 | MW177797 |
| *Sibynophis collaris* | KIZ 07349 | Motuo, Tibet, China | MW199785 | OQ981579 | MW177798 |
| *Sibynophis collaris* | KIZ 06633 | Motuo, Tibet, China | OQ981561 | - | - |
| *Sibynophis collaris* | JN211315 | - | JN 211315 | JN 211315 | - |
| *Sibynophis collaris* | GP2034 | Motuo, Xizang, China | OQ981551 | - | - |
| *Sibynophis collaris* | GP5665 | Motuo, Xizang, China | - | OQ981575 | OQ981594 |
| *Sibynophis grahami* | CHS 244 | Honghe, Yunnan, China | MK201362 | - | - |
| *Sibynophis grahami* | KIZ 011982 /YPX18128 | Mengzi, Yunnan, China | MW199787 | OQ981578 | MW177800 |
| *Sibynophis grahami* | GP3649 | China | OQ981552 | OQ981572 | OQ981593 |
| *Sibynophis grahami* | GP1662 | China | OQ981549 | - | - |
| *Sibynophis grahami* | YBU 11043/GP 1616 | Southern Yunnan, China | OQ981563 | OQ981582 | OQ981591 |
| *Sibynophis grahami* | YBU 23188/GP10544 | Yulong, Yunnan, China | OQ981569 | OQ981588 | OQ981589 |
| *Sibynophis grahami* | YBU15152/GP4142 | Xichang, Sichuan, China | OQ981566 | OQ981585 | - |
| *Sibynophis grahami* | KIZ 028322/YPX 53026 | Sanglila, Yunnan, China | OQ981556 | - | - |
| *Sibynophis subpunctatus* | RAP0491 |  | KC347471 | - | KC347411 |
| *Sibynophis triangularis* | FMNH 263023 | Mondolkiri, Cambodia | KC000123 | KC000132 | KC000116 |
| *Sibynophis triangularis* | CAS 214974 | Nujiang, Yunnan, China | KC000128 | KC000137 | KC000115 |
| *Sibynophis triangularis* | CAS 240616 | Mon State, Myanmar | KC000122 | KC000133 | KC000120 |
| *Sibynophis triangularis* | ROM 35660 | Cao Bang, Vietnam | MW199786 | - | MW177799 |
| *Sibynophis triangularis* | KIZ 038285 | Fugong, Yunnan, China | OQ981558 | - | - |
| *Sibynophis triangularis* | KIZ 038286 | Fugong, Yunnan, China | OQ981559 | - | - |
| *Sibynophis triangularis* | KIZ 038287 | Fugong, Yunnan, China | OQ981560 | - | - |
| *Sibynophis triangularis* | GP4700 | Cangyuan, Yunnan, China | OQ981554 | OQ981574 | OQ981595 |
| *Scaphiodontophis annulatus* | KU 289943 |  | GQ927323 | - | - |