

Cytochrome b

Primer Name	Sequence 5'-3'	Direction	Reference
Glu L.Ca14337-14359:	GAA GAA CCA CCG TTG TTA TTC AA	F	[16]
Thr H.Ca15568-15548:	ACC TCC RAT CTY CGG ATT ACA	R	[16]

RAG 1

Primer Name	Sequence 5'-3'	Direction	Reference
RAG-1F	AGC TGT AGT CAG TAY CAC AAR ATG	F	[17]
RAG-Rv1	TCC TGR AAG ATY TTG TAG AA	R	[18]

IRBP

Primer Name	Sequence 5'-3'	Direction	Reference
IRBP 101F	TCM TGG ACA AYT ACT GCT CAC C	F	[19]
IRBP 109F	AAC TAC TGC TCR CCA GAA AAR C	F	[19]
IRBP 1001R	GGA AAT GCA TAG TTG TCT GCA A	R	[19]
IRBP 1162R	TGG TGG WCT TYA GGC ACT TGT	R	[19]

5S rRNA

Primer Name	Sequence 5'-3'	Direction	Reference
5SA	TAC GCC CGA TCT CGT CCG ATC	F	[20]
5SB	CAG GCT GGT ATG GCC GTA AGC	R	[20]

28S rRNA

Primer Name	Sequence 5'-3'	Direction	Reference
28SA	AAA CTC TGG TGG AGG TCC GT	F	[21]
28SB	CTT ACC AAA AGT GGC CCA CTA	R	[21]

- [16] Šlechtová V, Bohlen J, Freyhof J, Ráb P. Molecular phylogeny of the Southeast Asian freshwater fish family Botiidae (Teleostei: Cobitoidea) and the origin of polyploidy in their evolution. *Mol Phylogenet Evol.* 2006;39:529-41.
- [17] Quenouille B, Bermingham E, Planes S: Molecular systematics of the damselfishes (Teleostei : Pomacentridae): Bayesian phylogenetic analyses of mitochondrial and nuclear DNA sequences. *Mol Phylogenet Evol.* 2004;31:66-88.
- [18] Šlechtová V, Bohlen J, Tan HH: Families of Cobitoidea (Teleostei; Cypriniformes) as revealed from nuclear genetic data and the position of the mysterious genera *Barbucca*, *Psilorhynchus*, *Serpenticobitis* and *Vaillantella*. *Mol Phylogenet Evol.* 2007;44:1358-65.
- [19] Chen, W-J, Miya M, Saitoh K, Mayden RL: Phylogenetic utility of two existing and four novel nuclear gene loci in reconstructing Tree of Life of ray-finned fishes: The order Cypriniformes (Ostariophysi) as a case study. *Gene.* 2008;423:125-34.
- [20] Martins C, Galetti PM: Chromosomal localization of 5S rDNA genes in *Leporinus* fish (Anostomidae, Characiformes). *Chromosome Res.* 1999;7:363-7.
- [21] Naito E, Dewa K, Yamanouchi H, Kominami R: Ribosomal ribonucleic acid (rRNA) gene typing for species identification. *Journal of Forensic Science.* 1992;37:396–403.