

PCR primer cocktails for DNAHouse samples*

Cocktail/Primer name	Primer sequence 5'-3'	Product/primer position (with reference to mouse mitochondrion)	References
C_VF1LFt1-C_VR1LRt1 (COI-2)		6472-7129	
LepF1_t1	TGAAAAACGACGGCCAGTATTCAACCAATCATAAAGATATTGG	6446-6471	1
VF1_t1	TGAAAAACGACGGCCAGTTCTCAACCAACCACAAAGACATTGG	6446-6471	2
VF1d_t1	TGAAAAACGACGGCCAGTTCTCAACCAACCACAARGAYATYGG	6446-6471	2
VF1i_t1	TGAAAAACGACGGCCAGTTCTCAACCAACCAIAAIGAIATIGG	6446-6471	2
LepRI_t1	CAGGAAACAGCTATGACTAAACTTCTGGATGTCCAAAAATCA	7155-7130	1
VR1d_t1	CAGGAAACAGCTATGACTAGACTTCTGGGTGGCCRAARAAYCA	7155-7130	2
VR1_t1	CAGGAAACAGCTATGACTAGACTTCTGGGTGGCCAAAGAATCA	7155-7130	3
VR1i_t1	CAGGAAACAGCTATGACTAGACTTCTGGGTGICCAAIAAICA	7155-7130	2
C_FishF1t1A C_FishR1t1 (COI-3)		6475-7126	
VF2_t1	TGAAAAACGACGGCCAGTCAACCAACCACAAAGACATTGGCAC	6448-6474	3
FishF2_t1	TGAAAAACGACGGCCAGTCGACTAATCATAAAGATATCGGCAC	6448-6474	3
FishR2_t1	CAGGAAACAGCTATGACTTCTCAGGGTGACCGAAGAATCAGAA	7152-7127	3
FR1d_t1	CAGGAAACAGCTATGACTACCTCAGGGTGTCCGAARAAYCARAA	7152-7127	4
M13 sequencing primers			
M13F (-21)	TGAAAAACGACGGCCAGT		5
M13R (-27)	CAGGAAACAGCTATGAC		5
Folmer primers			
LCO1490	GGTCAACAAATCATAAAGATATTGG		6
HC02198	TAACTTCAGGGTGACCAAAAAATCA		6

*DNA extraction, PCR amplification, and sequencing were performed at Center for Conservation Genetics, American Museum of Natural History

*Table adapted from Ivanova et al. 2007

References

- 1 Hebert PDN, Penton EH, Burns JM, Janzen DH, Hallwachs W (2004) Ten species in one: DNA barcoding reveals cryptic species in the neotropical skipper butterfly *Astrartes fulgerator*. *Proceedings of the National Academy of Sciences, USA*, 101, 14812–1481
- 2 Ivanova NV, deWaard JR, Hebert PDN (2006) An inexpensive, automation-friendly protocol for recovering high-quality DNA. *Molecular Ecology Notes*, 6, 998–1002.
- 3 Ward RD, Zemlak TS, Innes BH, Last PR, Hebert PDN (2005) DNA
- 4 Ivanova NV, Zemlak TS, Hanner RH, Hebert PDN (2007) Universal primer cocktails for fish DNA barcoding. *Mol Ecol Notes* 7:544-548.
- 5 Messing J (1983) New M13 vectors for cloning. *Methods in Enzymology*, 101, 20–78.
- 6 Folmer O, Black M, Hoeh W, Lutz R, Vriegenhoek R (1994) DNA primers for amplification of mitochondrial cytochrome c oxidase subunit I from diverse metazoan invertebrates. *Mol Marine Biol Biotechnology* 3: 294:299.