

Table S2: List of primers used in this study.

Mohammad Javad Malek-Hosseini, Jure Jugovic, Yaser Fatemi, Matjaž Kuntner, Rok Kostanjšek, Christophe J. Douady, Florian Malard. A new obligate groundwater species of *Asellus* (Isopoda: Asellidae) from Iran. *Subterranean Biology*

Gene	Primer name	Sequence 5' to 3'	Reference
COI	COILKF1	TATGATTAATTTACARTYTAAYG	this study
	COILKR2	TTAGACTCTTGKCTTACAARTGTGNG	this study
	COIHCO2198	TAAACTTCAGGGTGACCAAAAAATCA	Folmer et al. (1994)
	COILCO1490	GGTCAACAAATCATAAAGATATTGG	Folmer et al. (1994)
	COILKR1	AAATATGCGCGAGTRTCNACRTC	this study
	COILKR3	TTAGAATATAAACTTCNGGRTGNCC	this study
	COILKF3	ACCCAACGATGACTHTTYTCYAC	this study
	COILKF0	GCTATAAGCTTAARTARATTTGCA	this study
	COILKR3b	ATATGGGAGAYTATACCRAANGCNG	this study
	28S	28Slev2	CAAGTACCGTGAGGGAAAGTT
28Sdes1		AGGGAAACTTCGGAGGGAACC	Verovnik et al. (2005)
28SStenaF1a		GAGTTCAAGAGAACGTGAAACTACCA	Morvan et al. (2013)
28SStenaR1		CCTATACCCAGCTCTGACGATCG	Morvan et al. (2013)

Folmer O, Black M, Hoeh W, Lutz R, Vrijenhoek R. (1994) DNA primers for amplification of mitochondrial cytochrome c oxidase subunit I from diverse metazoan invertebrates. *Mol Mar Biol Biotechnol.* 3(5), 294–9. PMID: 7881515.

Morvan C, Malard F, Paradis E, Lefébure T, Konecny-Dupré L, Douady C.J. (2013) Timetree of Aselloidea reveals species diversification dynamics in groundwater. *Systematic Biology* 62(4), 512–522, <https://doi.org/10.1093/sysbio/syt015>

Verovnik R, Sket B, Trontelj P. (2005) The colonization of Europe by the freshwater crustacean *Asellus aquaticus* (Crustacea: Isopoda) proceeded from ancient refugia and was directed by habitat connectivity. *Molecular Ecology* 14, 4355–4369. <https://doi.org/10.1111/j.1365-294X.2005.02745.x>