

# Development and characterization of 22 polymorphic microsatellites of the Andean frog *Telmatobius chusmisensis* (Anura, *Telmatobius*) and cross amplification in seven Chilean species of the genus

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© 2018, Springer Nature B.V. The genus *Telmatobius* Wiegmann, 1834 is composed of a wide variety of species and is one of the most diverse native components of the high-altitude Andean environments. The species of the genus present in Chile are considered as endangered, critically endangered or data deficient. We isolated and evaluated 44 microsatellites in 80 individuals of 8 species of *Telmatobius* present in Chile, obtaining 22 polymorphic microsatellite loci for *Telmatobius chusmisensis*. The cross-amplification test was successful in all other species tested. For the first time, microsatellite markers are described for *Telmatobius*. The description of these primers will be useful for further genetic studies for *T. chusmisensis* and other species of the same genus; allowing further analyses of population structuring, dispersal patterns, recent demographic history and population effective size. This information is also significant to undertake conservation actions for the species of the