MOLECULAR ECOLOGY
RESOURCES
Molecular Ecology Resources (2011) doi: 10.1111/j.1755-0998.2011.03068.x

PERMANENT GENETIC RESOURCES NOTE

Permanent Genetic Resources added to Molecular Ecology Resources Database 1 June 2011–31 July 2011

MOLECULAR ECOLOGY RESOURCES PRIMER DEVELOPMENT CONSORTIUM[1] F. KEITH BARKER,[2,3] JAMES J. BELL,[4] STEVEN M. BOGDANOWICZ,[5] S. L. BONATTO,[6] FRANK CEZILLY,[7] SARAH M. COLLINS,[5] CHRISTINE DUBREUIL,[7] MATTHEW J. DUFORT,[2] CYRIL ERAUD,[8] REIKO FUSEYA,[9] E. A. HEAP,[10,11] N. JACOBSEN,[12] M. MADDERS,[11] R. MCEWING,[10] ANDREW P. MICHEL,[13] F. MOUGEOT,[14,15] R. S. OGDEN,[10] LUCIA C. ORANTES,[13] A. S. OTHMAN,[16] ÉRIC PARENT,[17] P. PULIDO-SANTACRUZ,[6] RACHEL RIOUX-PARÉ,[17] M. F. ROBERTS,[10] R. ROSAZLINA,[16] TAKASHI SAKAMOTO,[18] PELAYO SALINAS DE-LEÓN,[4] JEAN-MARIE SÉVIGNY,[17] PHILIPPE ST-ONGE,[19] J. TERRAUBE,[14,11] R. E. TINGAY,[11] RÉJEAN TREMBLAY,[19] SEIICHI WATANABE[18] and RÉMI A. WATTIER[7]

[1]*Molecular Ecology Resources Editorial Office, 6270 University Blvd, Vancouver, BC, V6T 1Z4, Canada,* [2]*Department of Ecology, Evolution, and Behavior, University of Minnesota, 100 Ecology Building, 1987 Upper Buford Circle, St. Paul, MN 55108, USA,* [3]*Bell Museum of Natural History, University of Minnesota, 100 Ecology Building, 1987 Upper Buford Circle, St. Paul, MN 55108, USA,* [4]*Centre for Marine Environmental and Economic Research, School of Biological Sciences, Victoria University of Wellington, PO Box 600, Wellington, New Zealand,* [5]*Department of Ecology & Evolutionary Biology, Cornell University, E149 Corson Hall, Ithaca, NY 14853, USA,* [6]*Laboratório de Biologia Genômica e Molecular, Faculdade de Biociências, Pontifícia Universidade Católica do Rio Grande do Sul. Av. Ipiranga, 6681, CEP 90619-900, Porto Alegre, RS – Brazil,* [7]*Equipe Ecologie Evolutive, Université de Bourgogne, UMR CNRS 5561 Biogéosciences, 6 boulevard Gabriel, 21000 Dijon, France,* [8]*Office National de la Chasse et de la Faune Sauvage, Direction des Etudes et de la Recherche, CNERA Avifaune migratrice, Station de Chizé, Carrefour de la Canauderie, 79 360 Villiers-en-Bois, France,* [9]*National Research Institute of Fisheries Engineering, Fisheries Research Agency, 7620-7, Hasaki, Kamisu, Ibaraki 314-0408, Japan,* [10]*WildGenes, Royal Zoological Society of Scotland, Corstorphine Road, Edinburgh EH12 6TS, UK,* [11]*Natural Research Ltd, Brathens Business Park, Hill of Brathens, Glassel, Banchory, Aberdeenshire AB31 4BY, UK,* [12]*Department of Agronomy and Ecology, Faculty of Life Sciences, University of Copenhagen, Rolighedsvej 21 DK 1958 Frederiksberg C, Denmark,* [13]*Department of Entomology, Ohio Agricultural Research and Development Center, The Ohio State University, 1680 Madison Ave., Wooster, OH 44691, USA,* [14]*IREC (CSIC-UCLM-JCCM), Ronda de Toledo s/n, 13005, Ciudad Real, Spain,* [15]*Estación Experimental de Zonas Áridas (EEZA-CSIC), Ctra. de Sacramento s/n La Cañada de San Urbano, 04120 Almería, Spain,* [16]*School of Biological Sciences, Universiti Sains Malaysia, 11800 Minden, Penang, Malaysia,* [17]*Pêches et Océans Canada, Institut Maurice-Lamontagne 850 Route de la Mer, Mont-Joli, QC, Canada, G5H 3Z4,* [18]*Graduate School of Marine Science and Technology, Tokyo University of Marine Science and Technology, 4-5-7 Konan, Minato, Tokyo 108-8477, Japan,* [19]*Institut des Sciences de la Mer, Université du Québec à Rimouski 310 Allée des Ursulines, Rimouski, QC, Canada G5L 3A1*

Abstract

This article documents the addition of 112 microsatellite marker loci and 24 pairs of single nucleotide polymorphism (SNP) sequencing primers to the Molecular Ecology Resources Database. Loci were developed for the following species: *Agelaius phoeniceus*, *Austrolittorina cincta*, *Circus cyaneus*, *Circus macrourus*, *Circus pygargus*, *Cryptocoryne* × *purpurea* Ridl. nothovar. *purpurea*, *Mya arenaria*, *Patagioenas squamosa*, *Prochilodus mariae*, *Scylla serrata* and *Scytalopus speluncae*. These loci were cross-tested on the following species: *Cryptocoryne* × *purpurea* nothovar. *purpurea*, *Cryptocoryne affinis*, *Cryptocoryne ciliata*, *Cryptocoryne cordata* var. *cordata*, *Cryptocoryne elliptica*, *Cryptocoryne griffithii*, *Cryptocoryne minima*, *Cryptocoryne nurii* and *Cryptocoryne schulzei*. This article also documents the addition of 24 sequencing primer pairs and 24 allele-specific primers or probes for *Aphis glycines*.

This article documents the addition of 112 microsatellite marker loci and 24 pairs of single nucleotide polymorphism (SNP) genotyping primers to the Molecular Ecology Resources Database. Table 1 contains information on the focal species, the number of loci developed, any other species the loci were tested in and the accession numbers for the loci in both the Molecular Ecology Resources Database and GenBank. The authors

Correspondence: Molecular Ecology Resources Primer Development Consortium, E-mail: editorial.office@molecol.com

responsible for each set of loci are listed in the final column. Table 2 presents information on SNP genotyping resources added to the MER database and presents data on the focal species, the number of sequencing primer pairs, the observed number of SNPs, other species the loci were tested in and the number of allele-specific primers or probes. The MER database and GenBank accession numbers and the authors responsible are also listed. A full description of the development protocol for the loci presented here can be found on the Molecular Ecology Resources Database (http://tomato.biol.trinity.edu/).

Table 1 Information on the focal species, the number of loci developed, any other species the loci were tested in and the accession numbers for the loci in both the Molecular Ecology Resources Database and GenBank. The authors responsible for each set of loci are listed in the final column

Species	No. of primers developed	Other species tested	MER database no.	GenBank accession no.	Authors
Agelaius phoeniceus	10	n/a	46739–46748	JF907495–JF907504	Dufort, M. J.; Barker, F. K.
Austrolittorina cincta	8	n/a	46832–46825	HQ171471–HQ171478	Salinas-de-León, Pelayo; Bell, James J.
Circus macrourus, *Circus pygargus*, *Circus cyaneus*	19	n/a	46833–46913	AF469499–AF469502, AF469504, AF469506, AF469508, AJ620419, AJ620437, AY312455, AY312457, AY312459–AY312461, AY631063, AY631070, AY817040, AY817052, AY817053	Heap, E. A.; McEwing, R.; Roberts, M. F.; Tingay, R. E.; Mougeot, F.; Terraube, J.; Madders, M.; Ogden, R. S.
Cryptocoryne × *purpurea* Ridl. nothovar. *purpurea*	16	*C.* × *purpurea* nothovar. *purpurea*, *C. cordata* var. *cordata*, *C. griffithii*, *C. affinis*, *C. ciliata*, *C. elliptica*, *C. minima*, *C. nurii*, *C. schulzei*	46723–46738	HQ150007–HQ150022	Rosazlina, R.; Jacobsen, N.; Othman, A. S.
Mya arenaria	8	n/a	46786–46793	JN191327–JN191334	St-Onge, Philippe; Parent, Éric; Sévigny, Jean-Marie; Tremblay, Réjean; Rioux-Paré, Rachel
Patagioenas squamosa	15	n/a	46771–46785	GF111033–GF111047	Cezilly, Frank; Dubreuil, Christine; Eraud, Cyril; Wattier, Rémi A.
Prochilodus mariae	11	n/a	46760–46770	JF832395–JF832405	Collins, Sarah M.; Bogdanowicz, Steven M.
Scylla serrata	13	n/a	47010–47022	AB622868–AB622880	Fuseya, Reiko; Sakamoto, Takashi; Watanabe, Seiichi
Scytalopus speluncae	12	n/a	46710–46722	JF827281–JF827292	Pulido-Santacruz, P.; Bonatto, S. L.

Table 2 Information on the focal species, the sequencing primer pairs developed, the number of single nucleotide polymorphisms observed and any other species the loci were tested in. The next columns contain the number of allele-specific primers and probes developed, and the Molecular Ecology Resources database and GenBank accession numbers, respectively. The authors responsible for each set of loci are listed in the final column

Species	No. of primer pairs	No. of SNPs in sequence	Other species tested	No. of allele-specific primers/probe	Target gene(s)	MER database numbers	Genbank accession no	Authors
Aphis glycines	24	24	n/a	24	See Table 3 in manuscript	47024–47047	JN122354–JN122375	Orantes, Lucia C.; Michel, Andrew P.