

PERMANENT GENETIC RESOURCES NOTE

Permanent Genetic Resources added to Molecular Ecology Resources Database 1 August 2012 – 30 September 2012

MOLECULAR ECOLOGY RESOURCES PRIMER DEVELOPMENT CONSORTIUM,¹ ADAM AHANCHÉDÉ,² JOSÉ E. F. ALFAYA,³ L. W. ANDERSEN,⁴ DIDIER AZAM,⁵ MA. ANITA M. BAUTISTA,⁶ ANNE-LAURE BESNARD,⁷ GREGORIO BIGATTI,³ ANTHONY BOUÉTARD,⁷ MARIE-AGNÈS COUTELLE,⁷ EBEN-EZER B. K. EWÉDJÈ,^{8,9} REIKO FUSEYA,¹⁰ RICARDO GARCÍA-JIMÉNEZ,¹¹ M. HARATIAN,¹² OLIVIER J. HARDY,⁸ L.-E. HOLM,¹³ CASEY W. HOY,⁶ ERIKO KOSHIMIZU,¹⁴ V. LOESCHCKE,¹⁵ VIOLETA LÓPEZ-MÁRQUEZ,¹¹ CARLOS A. MACHADO,¹⁶ ANNIE MACHORDOM,¹¹ C. MARCHI,¹⁵ ANDREW P. MICHEL,⁶ CLAIRE MICHENEAU,^{8,17} OMPRAKASH MITTAPALLI,⁶ TAKAHIRO NAGAI,¹⁸ NOBUAKI OKAMOTO,¹⁴ YING PAN,¹⁹ F. PANITZ,¹³ N. SAFAIE,¹² TAKASHI SAKAMOTO,¹⁴ B. SHARIFNABI,²⁰ EN-WEI TIAN^{21,16} and HUI YU²¹

¹Molecular Ecology Resources Editorial Office, 6270 University Blvd, Vancouver, BC Canada, V6T 1Z4, ²Faculty of Agronomic Sciences, FSA, BP526, Université d'Abomey-Calavi, Bénin, Cotonou, Benin, ³LARBIM, Centro Nacional Patagónico (CENPAT-CONICET), Bvd. Brown 2915, U9120ACV Puerto Madryn, Chubut, Argentina, ⁴Department of Bioscience, Aarhus University, Grenåvej 14, DK-8410, Rønde, Denmark, ⁵INRA, U3E, Unité Expérimentale d'Ecologie et Ecotoxicologie Aquatique, 65 rue de Saint-Brieuc, Rennes Cedex, 35042, France, ⁶Department of Entomology, Ohio Agricultural Research and Development Center, The Ohio State University, 1680 Madison Ave., Wooster, OH 44691, USA, ⁷INRA, UMR0985 Ecologie et Santé des Ecosystèmes, INRA/Agrocampus-Ouest, Equipe EQMA, 65 rue de Saint-Brieuc, Rennes Cedex, 35042, France, ⁸Evolutionary Biology and Ecology Unit CP 160/12, Faculté des Sciences, Université Libre de Bruxelles, Av. F. D. Roosevelt 50, Brussels, B-1050, Belgium, ⁹Faculty of Sciences and Technics, FAST, Université d'Abomey-Calavi, BP 4521, Bénin, ¹⁰National Research Institute of Fisheries Engineering, Fisheries Research Agency, 7620-7, Hasaki, Kamisu, Ibaraki, 314-0408, Japan, ¹¹Museo Nacional de Ciencias Naturales (MNCN-CSIC), José Gutiérrez Abascal 2, Madrid, 28006, Spain, ¹²Department of Plant Pathology, College of Agriculture, Tarbiat Modares University, Tehran, 14115336, Iran, ¹³Department of Molecular Biology and Genetics, Blichers Allé 20, Tjele, DK 8830, Denmark, ¹⁴Graduate School of Marine Science and Technology, Tokyo University of Marine Science and Technology, 4-5-7 Konan, Minato, Tokyo 108-8477, Japan, ¹⁵Integrative Ecology and Evolution, Department of Bioscience, Aarhus University, Ny Munkegade 114, Aarhus C, DK-8000, Denmark, ¹⁶Department of Biology, University of Maryland, College Park, MD 20742, USA, ¹⁷Australian Tropical Herbarium, James Cook University, PO Box 6811, Cairns, QLD 4870, Australia, ¹⁸Fisheries and Marine Technology Center, Hiroshima Prefectural Technology Research Institute, Kure, Hiroshima 737-1207, Japan, ¹⁹College of Animal Science and Technology, Guangxi University, 100 Daxue Road, Nanning, 530004, China, ²⁰Department of Plant Protection, College of Agriculture, Isfahan University of Technology, Isfahan, 8415683111, Iran, ²¹Key Laboratory of Plant Resources Conservation and Sustainable Utilization, South China Botanical Garden, Chinese Academy of Sciences, Guangzhou, 510650, China

Abstract

This article documents the addition of 83 microsatellite marker loci and 96 pairs of single-nucleotide polymorphism (SNP) sequencing primers to the Molecular Ecology Resources Database. Loci were developed for the following species: *Bembidion lampros*, *Inimicus japonicus*, *Lymnaea stagnalis*, *Panopea abbreviata*, *Pentadesma butyracea*, *Sycoscapter hirticola* and *Thanatephorus cucumeris* (anamorph: *Rhizoctonia solani*). These loci were cross-tested on the following species: *Pentadesma grandifolia* and *Pentadesma reyndersii*. This article also documents the addition of 96 sequencing primer pairs and 88 allele-specific primers or probes for *Plutella xylostella*.

This article documents the addition of 83 microsatellite marker loci and 96 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 nos 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. Table 2 presents information on SNP

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

Table 1 Information on the focal species, the number of loci developed, any other species the loci were tested in and the accession nos 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. primers developed	Other species tested	MER database no.	GenBank accession no.	Authors
<i>Bembidion lampros</i>	15	n/a	49788–49802	JX173367–JX173380	Marchi, C. Andersen, L. W. Panitz, F. Holm, L.-E. Loeschcke, V.
<i>Inimicus japonicus</i>	10	n/a	49838–49847	AB531004–AB531013	Sakamoto, Takashi Pan, Ying Koshimizu, Eriko Okamoto, Nobuaki Nagai, Takahiro Fuseya, Reiko
<i>Lymnaea stagnalis</i>	9	n/a	49940–49948	JX287524–JX287532	Besnard, Anne-Laure Bouétard, Anthony Azam, Didier Coutellec, Marie-Agnès
<i>Panopea abbreviata</i>	21	n/a	49860–49864, 49876–49891	JX416866–JX416886	López-Márquez, Violeta Alfaya, José E. F. García-Jiménez, Ricardo Bigatti, Gregorio Machordom, Annie
<i>Pentadesma butyracea</i>	11	<i>P. grandifolia</i> , <i>P. reyndersii</i>	49865–49875	HE663069–HE663079	Ewédjè, Eben-Ezer B. K. Micheneau, Claire Ahanchédé, Adam Hardy, Olivier J.
<i>Sycoscapter hirticola</i>	8	n/a	49830–49837	JX125070–JX125077	Tian, En-Wei Machado, Carlos A. Yu, Hui
<i>Thanatephorus cucumeris</i> (anamorph: <i>Rhizoctonia solani</i>)	9	n/a	49779–49787	JQ671201–JQ671204, JQ671206–JQ671210	Haratian, M. Safaie, N. Sharifnabi, B.

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 nos, respectively. The authors responsible for each set of loci are listed in the final column.

Species	No. primer pairs	No. SNPs in sequence	Other species tested	No. Allele-specific primers/probe	Target gene(s)	MER database numbers	GenBank accession no	Authors
<i>Plutella xylostella</i>	96	88	n/a	88	See ms for details.	50058–50131	SRA039964.1	Bautista, Ma. Anita M. Mittapalli, Omprakash Hoy, Casey W. Michel, Andrew P.

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 nos 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/>).