

PERMANENT GENETIC RESOURCES NOTE

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Abstract

This article documents the addition of 512 microsatellite marker loci and nine pairs of Single Nucleotide Polymorphism (SNP) sequencing primers to the Molecular Ecology Resources Database. Loci were developed for the following species: *Alcippe morrisonia morrisonia*, *Bashania fangiana*, *Bashania fargesii*, *Chaetodon vagabundus*, *Colletes floralis*, *Coluber constrictor flaviventris*, *Coptotermes gestroi*, *Crotophaga major*, *Cyprinella lutrensis*, *Danaus plexippus*, *Fagus grandifolia*, *Falco timunculus*, *Fletcherimyia fletcheri*, *Hydrilla verticillata*, *Laterallus jamaicensis coturniculus*, *Leavenworthia alabamica*, *Marmosops incanus*, *Miichthys miiuy*, *Nasua nasua*, *Noturus exilis*, *Odontesthes bonariensis*, *Quadrula fragosa*, *Pinctada maxima*, *Pseudaletia separata*, *Pseudoperonospora cubensis*, *Podocarpus elatus*, *Portunus trituberculatus*, *Rhagoletis cerasi*, *Rhinella schneideri*, *Sarracenia alata*, *Skeletonema marinoi*, *Sminthurus viridis*, *Syngnathus abaster*, *Uroteuthis (Photololigo) chinensis*, *Verticillium dahliae*, *Wasmannia auropunctata*, and *Zygochlamys patagonica*. These loci were cross-tested on the following species: *Chaetodon baronessa*, *Falco columbarius*, *Falco eleonora*, *Falco naumanni*, *Falco peregrinus*, *Falco subbuteo*, *Didelphis aurita*, *Gracilinanus microtarsus*, *Marmosops paulensis*, *Monodelphis Americana*, *Odontesthes hatcheri*, *Podocarpus grayi*, *Podocarpus lawrencei*, *Podocarpus smithii*, *Portunus pelagicus*, *Syngnathus acus*, *Syngnathus typhle*, *Uroteuthis (Photololigo) edulis*, *Uroteuthis (Photololigo) duvauceli* and *Verticillium albo-atrum*. This article also documents the addition of nine sequencing primer pairs and sixteen allele specific primers or probes for *Oncorhynchus mykiss* and *Oncorhynchus tshawytscha*; these primers and assays were cross-tested in both species.

This article documents the addition of 512 microsatellite marker loci and nine 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 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
<i>Alcippe morrisonia morrisonia</i>	15	n/a	37424–37431 37433–37438	DQ858940–DQ858948, DQ858950–DQ858953, FJ716585,FJ716586	Rong-Chien Lin, Chuan-Chin Huang, Shou-Hsien Li, Cheng-Te Yao
<i>Bashania fangiana</i>	25	n/a	37708–37732	GQ281353–GQ281377	Xiangjiang Zhan, Fuwen Wei, Michael W. Bruford
<i>Bashania fargesii</i>	17	n/a	37691–37707	GQ267715–GQ267731	Xiangjiang Zhan, Lifeng Zhu, Yongqiang Gao, Fuwen Wei, Michael W. Bruford
<i>Chaetodon vagabundus</i>	15	<i>Chaetodon baronessa</i>	37840–37854	GQ281437–GQ281451	Michael L. Berumen, Elisabeth Rochel, Glenn R. Almany, Simon R. Thorrold, Geoffrey P. Jones, Morgan S. Pratchett, Craig Syms, Serge Planes
<i>Colletes floralis</i>	9	n/a	37651–37659	FJ041148- FJ041150, EF137744–EF137749	Tomás E. Murray, Emily S. Davis Robert J. Paxton
<i>Coluber constrictor flaviventris</i>	12	n/a	37758–37769	GQ371177–GQ371188	Page E. Klug, Kimberly A. With, Samantha M. Wisely
<i>Coptotermes gestroi</i>	11	n/a	37779–37789	GQ412733–GQ412743	Beng-Keok Yeap, Ahmad Sofiman Othman, Chow-Yang Lee
<i>Crotophaga major</i>	12	n/a	37778, 37790–37800	GQ144418–GQ144429	C. Riehl S. M. Bogdanowicz
<i>Cyprinella lutrensis</i>	29	n/a	37521–37549	GQ169555–GQ169567	PJ Monnahan, Grose, MJ, Landis, JB, Wiley, EO, Hudman, SP
<i>Danaus plexippus</i>	12	n/a	37855–37866	FJ649210, FJ649212–FJ649223	Helen M McCormick, Olivia A Patty, Richard J Wilkins
<i>Fagus grandifolia</i>	10	n/a	37406–37415	GO248754–GO248763	T. Kubisiak, D. Carey, C. Burdine, J. Koch
<i>Falco tinnunculus</i>	10	<i>F. columbarius</i> , <i>F. eleonora</i> , <i>F. naumanni</i> , <i>F. peregrinus</i> , <i>F. subbuteo</i>	37310–37319	FJ842386–FJ842395	P.J.G. de Nova, J.A. Dávila, P. Vergara, J.A. Fargallo
<i>Fletcherimyia fletcheri</i>	12	n/a	37679–37690	GQ300842–GQ300853	Gordana Rasic, Nusha Keyghobadi
<i>Fusarium oxysporum</i> f. sp. <i>Lycopersici</i>	27	<i>F. oxysporum</i> f. sp. <i>radicis-lycopersici</i> , <i>Fusarium oxysporum</i> f. sp. <i>Lycopersici</i>	38143–38117	FJ882019–FJ882025	C. H. Huang, L. E. Datnoff, L. R. Gale P. D. Roberts
<i>Fusarium oxysporum</i> f. sp. <i>radicis-lycopersici</i>	8	n/a	37770–37777	FJ907306–FJ907313	Amber M. Grajczyk, W.A. Overholt, J.P. Cuda, S.D. Brown, D.A. Williams
<i>Hydrilla verticillata</i>	8	n/a	37770–37777	FJ907306–FJ907313	Philippe Girard, Steven R. Beissinger
<i>Laterallus jamaicensis coturniculus</i>	19	n/a	37660–37678	FJ997575–FJ997593	Jeremiah W. Busch
<i>Leavenworthia alabamica</i>	12	n/a	37161–37172	FJ860908, FJ860911–FJ860913, FJ860915, FJ860918, FJ860920, FJ860921, FJ860926, FJ860928, FJ860930, FJ860933	William J. Werner

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Table 1 (Continued)

Species	No. of primers developed	Other species tested	MER database no.	GenBank Accession no.	Authors
<i>Marmosops incanus</i>	15	<i>Didelphis aurita</i> , <i>Gracilinanus microtarsus</i> , <i>Marmosops paulensis</i> and <i>Monodelphis americana</i>	37173–37187	FJ793928–FJ793937, AJ270097, AY386653, AY386655, AY386664, EF486346	Simone Sommer, Anke Schmidt, Fabiano Fernandes, Thomas Püttker, Renata Pardini
<i>Miichthys miiuy</i>	15	n/a	37801–37815	FJ754034–FJ754048	Ru Zhao, W.C.Liu, M. Liu, S. Y. Zhang, R X Wang
<i>Nasua nasua</i>	15	n/a	37498–37512	FJ914573–FJ914587	Mirian Tiekó Nunes Tsuchiya-Jerep, Cladinara Roberts Sarturi, Eduardo Eizirik
<i>Noturus exilis</i>	25	n/a	37733–37757	EU760354–EU760378	SP Hudman, MJ Grose, JB Landis, EO Wiley
<i>Odontesthes bonariensis</i>	17	<i>O. hatcheri</i>	37559–37575	AB375407–AB375410, AB375412–AB375419, AB375421–AB375423, AB375425, AB375426, AB375428	Eriko Koshimizu, Carlos Augusto Strüssmann, Eugenio Daniel Tejedor, Nobuaki Okamoto, Hideo Fukuda, Takashi Sakamoto
<i>Quadrula fragosa</i>	9	n/a	37301–37309	FJ785629–FJ785636, FJ785639	Amanda H. Hemmingsen, Kevin J. Roe, Jeanne M. Serb
<i>Pinctada maxima</i>	16	n/a	37867–37882	FJ607747–FJ607749, FJ607751, FJ607753–FJ607756, FJ607759–FJ607760, FJ607762, FJ607764, FJ607767, FJ607768, FJ607770, FJ607774	Yan Wang, Na Liu, Yaohua Shi, Zhifeng Gu, Aimin Wang
<i>Pseudaletia separata</i>	8	n/a	37292–37295, 37297–37300	FJ896055–FJ896062	Guo-Yan Zhang, Bao-Ping Zhai
<i>Pseudoperonospora cubensis</i>	8	n/a	37513–37520	FJ764997–FJ765004	Loukas Kanetis, Xinwang Wang, Phillip A. Wadl, Katie Neufeld, Gerald Holmes, Peter S. Ojiambo, Marc A. Cubeta, Robert N. Trigiano
<i>Podocarpus elatus</i>	9	<i>P. grayi</i> , <i>P. lawrencei</i> , <i>P. smithii</i> .	37550–37558	FJ935795–FJ935803	Rohan Mellick, Carolyn Porter, Maurizio Rossetto
<i>Portunus trituberculatus</i>	17	<i>P. pelagicus</i>	37634–37650	AF410872 FJ660922 FJ660923–FJ660929 GE342670 GE342703 GE342919 GE468057 GE468081 GE468082 GE468121 GE468190	Zhaoxia Cui, Hongxia Wang, Feng Tan, Danhua Wu, Yuan Liu, Weisha Luan Qianqian Li
<i>Rhagoletis cerasi</i>	13	<i>R. cingulata</i> , <i>R. completa</i> , <i>R. mendax</i> , <i>R. pomonella</i>	37816–37828	GQ149111–GQ149123	Wolfgang Arthofer, Susanne Krumböck, Hannes Schuler, Bilal Rasool, Markus Riegler, Kirsten Köppler, Christian Stauffer
<i>Rhinella schneideri</i>	11	n/a	37594–37604	FJ847928, FJ847930, FJ847931, FJ847933–FJ847940	Maurício P. de Arruda, Eliana Morielle-Versute, Artur Silva, Maria Paula Cruz Schneider, Evonnildo C. Gonçalves
<i>Sarracenia alata</i>	9	n/a	37585–37593	GQ219717–GQ219725	Margaret M. Koopman, Elizabeth Gallagher, Bryan C. Carstens

Table 1 (Continued)

Species	No. of primers developed	Other species tested	MER database no.	GenBank Accession no.	Authors
<i>Skeletonema marinoi</i>	8	n/a	37621–37626, 37628–37629	EU855763, EU855769–EU855771, EU855775, EU855777, GQ250935, GQ250937	Anna Godhe, Karolina Härnström, V. Saravanan, Christer Halldén, Iddya Karunasagar, Indrani Karunasagar
<i>Sminthurus viridis</i>	14	n/a	37914–37927	FJ971060–FJ971073	John M. K. Roberts, Andrew R. Weeks
<i>Syngnathus abaster</i>	9	<i>S. acus</i> , <i>S. typhle</i>	37576–37584	GQ168557–GQ168565	Onno E. Diekmann, Licinia Gouveia, Ester T. A. Serrão, Mirjam S. van de Vliet
<i>Uroteuthis (Photololigo) chinensis</i>	12	<i>Uroteuthis (Photololigo) edulis</i> <i>Uroteuthis (Photololigo) duvauceli</i>	37954–37965	FJ980010–FJ980021	Y. W. Sin, K. H. Chu, Cynthia Yau
<i>Verticillium dahliae</i>	22	<i>V. albo-atrum</i>	37063–37084	FJ851470 FJ851474 FJ851480 FJ851483 GQ160902 FJ851489 FJ851494 FJ851499 FJ851504 FJ851508 FJ851511 FJ851514 FJ851519 FJ851521 GQ160903 FJ851523 FJ851527 FJ851530 FJ851534 FJ851538 FJ851541 FJ851545	Z. K. Atallah, K. K. Maruthachalam, R. M. Davis, S. J. Klosterman, K. V. Subbarao
<i>Wasmannia auropunctata</i>	21	<i>W. rochai</i> , <i>W. sigmoidea</i> , <i>A. decemarticulatus</i> , <i>L. humile</i> , <i>S. saevissima</i> , <i>B. spp</i>	37234–37255	FJ970003–FJ970023	O. Rey, A. Loiseau
<i>Zygochlamys patagonica</i>	11	n/a	38059–38069	FJ937726–FJ937736	Ian G Paterson, María I Trucco, Mario L Lasta, Daniel E Ruzzante

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. primer pairs	No. SNPs in sequence	Others species tested	No. Allele specific primers/probes	Target gene(s)	MER database numbers	Genbank Accession no.	Authors
<i>Oncorhynchus mykiss</i> / <i>Oncorhynchus tshawytscha</i>	9/9	87/68	<i>O. mykiss</i> / <i>O. tshawytscha</i>	16	heat shock proteins	37605–37620	FJ772745–FJ772915, FJ772947–FJ773066, FJ773092–FJ7732525	Nathan R. Campbell, Shawn R. Narum

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