

PERMANENT GENETIC RESOURCES NOTE

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Abstract

This article documents the addition of 473 microsatellite marker loci and 71 pairs of single-nucleotide polymorphism (SNP) sequencing primers to the Molecular Ecology Resources Database. Loci were developed for the following species: *Barteria fistulosa*, *Bombus morio*, *Galaxias platei*, *Hematodinium perezii*, *Macrocentrus cingulum* Brischke (a.k.a. *M. abdominalis*)

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Fab., *M. grandii* Goidanich or *M. gifuensis* Ashmead), *Micropogonias furnieri*, *Nerita melanotragus*, *Nilaparvata lugens* Stål, *Sciaenops ocellatus*, *Scomber scombrus*, *Spodoptera frugiperda* and *Turdus lherminieri*. These loci were cross-tested on the following species: *Barteria dewevrei*, *Barteria nigritana*, *Barteria solida*, *Cynoscion acoupa*, *Cynoscion jamaicensis*, *Cynoscion leiarchus*, *Cynoscion nebulosus*, *Cynoscion striatus*, *Cynoscion virescens*, *Macrodon ancylodon*, *Menticirrhus americanus*, *Nilaparvata muiri* and *Umbrina canosai*. This article also documents the addition of 116 sequencing primer pairs for *Dicentrarchus labrax*.

This article documents the addition of 473 microsatellite marker loci and 71 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

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Species	No. primers developed	Other species tested	MER database no.	GenBank accession no.	Authors
<i>Barteria fistulosa</i>	17	<i>B. dewevrei</i> , <i>B. nigritana</i> , <i>B. solida</i>	48615–48631	JQ289126–JQ289128, JQ289130–JQ289143	Sauve, M.; Garcia, M.; Djipto-Lordon, C.; Peccoud, J.; Piatscheck, F.; Dubois, M. P.; McKey, D.; Harris, D. J.; Blatrix, R.
<i>Bombus morio</i>	13	n/a	47715–47722, 47724–47728	JN701023–JN701035	Françoso, E.; Francisco, F. O.; Arias, M. C.
<i>Galaxias platei</i>	9	n/a	47692–47700	JQ043430–JQ043438	Zemlak, Tyler S.; Carrea, Cecilia; Newton, Erica; Paterson, Ian;
<i>Hematodinium perezii</i>	11	n/a	47681–47691	JN403077–JN403087	Ruzzante, Daniel E. Pagenkopp Lohan, Katrina M.; McDowell, Jan R.; Shields, Jeffrey D.; Xiao, Jie; Miller, Terrence L.; Reece, Kimberly S.
<i>Macrocentrus cingulum</i> Brischke (a.k.a. <i>M. abdominalis</i> Fab., <i>M. grandii</i> Goidanich or <i>M. gifuensis</i> Ashmead)	13	n/a	47202–47222	JN703391–JN703395, JN703399, JN703401, JN703403–JN703405, JN703409–JN703411	Clamens, Anne-Laure; Bernadou, Abel; Ponsard, Sergine; Bourguet, Denis
<i>Micropogonias furnieri</i>	16	<i>C. acoupa</i> , <i>C. jamaicensis</i> , <i>C. leiarchus</i> , <i>C. striatus</i> , <i>C. virescens</i> , <i>M. ancylodon</i> , <i>M. americanus</i> , <i>U. canosai</i>	48472–48487	JF798645–JF798650, JF798652–JF798656, JF798660–JF798664	Vasconcellos, Anderson; Cunha, Haydée A.; Solé-Cava, Antonio
<i>Nerita melanotragus</i>	10	n/a	48579–48588	JQ364728–JQ364737	Reisser, Céline M. O.; Bell, James J.; Gardner, Jonathan P. A.

Table 1 (Continued)

Species	No. primers developed	Other species tested	MER database no.	GenBank accession no.	Authors
<i>Nilaparvata lugens</i> Stål	17	<i>N. muiri</i>	47663–47677, 47679, 47680	JN834077–JN834091	Jing, Shengli; Zhang, Chunxiao; Wang, Shuzhen; Zhou, Xi; Yu, Hangjin; Peng, Xinxin; Liu, Bingfang; Zhao, Yan; Zhu, Lili; Ding, Yi; He, Guangcun
<i>Sciaenops ocellatus</i>	323	<i>Cynoscion nebulosus</i>	47770–47772, 47774, 47775, 47777, 47779, 47781, 47782, 47784–47788, 47813, 47815–47890, 48016–48043, 48082–48108, 48295–48471	EU726996, JF509110–JF509136, JQ235209–JQ235503	Renshaw, Mark A.; Hollenbeck, Christopher M.; Gold, John R.
<i>Scomber scombrus</i>	15	n/a	48512, 48514, 48515, 48517, 48520, 48522, 48525, 48527–48534	JQ219865–JQ219879	Papetti, Chiara; Bino, Giorgia; Zannato, Barbara; Zane, Lorenzo
<i>Spodoptera frugiperda</i>	17	n/a	48552–48568	JN790256–JN790271, JN796474	Dumas, P.; Clamens, A.-L.; Kergoat, G. J.; Gimenez, S.; d'Alençon, E.
<i>Turdus lherminieri</i>	12	n/a	47729–47740	JQ001753–JQ001762, JQ001764, JQ001765	Arnoux, E.; Faivre, B.; Eraud, C.; Garnier, S.

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	Other species tested	No. Allele specific primers /probe	Target gene(s)	MER database numbers	Genbank Accession no	Authors
<i>Dicentrarchus labrax</i>	116	71	n/a	See MS for details	See MS for details	48237–48294	JM497134– JM497249	Souche, E. L.; Hellemans, B.; Van Houdt, J. K. J.; Volckaert, F. A. M.

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/>).