

PERMANENT GENETIC RESOURCES NOTE

Permanent Genetic Resources added to Molecular Ecology Resources Database 1 December 2010–31 January 2011

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Abstract

This article documents the addition of 238 microsatellite marker loci to the Molecular Ecology Resources Database. Loci were developed for the following species: *Alytes dickhilleni*, *Arapaima gigas*, *Austroptamobius italicus*, *Blumeria graminis* f. sp. *tritici*, *Cobitis lutheri*, *Dendroctonus ponderosae*, *Glossina morsitans morsitans*, *Haplophilus subterraneus*, *Kirengeshoma palmata*, *Lysimachia japonica*, *Macrolophus pygmaeus*, *Microtus cabrerai*, *Mytilus galloprovincialis*, *Pallisentis (Neosentis) celatus*, *Pulmonaria officinalis*, *Salminus franciscanus*, *Thais chocolata* and *Zootoca vivipara*. These loci were cross-tested on the following species: *Acanthina monodon*, *Alytes cisternasii*, *Alytes maurus*, *Alytes muletensis*, *Alytes obstetricans almogavarii*, *Alytes obstetricans boscai*, *Alytes obstetricans obstetricans*, *Alytes obstetricans pertinax*, *Cambarellus montezumae*, *Cambarellus zempoalensis*, *Chorus giganteus*, *Cobitis tetralineata*, *Glossina fuscipes fuscipes*, *Glossina pallidipes*, *Lysimachia japonica* var. *japonica*, *Lysimachia japonica* var. *minutissima*, *Orconectes virilis*, *Pacifastacus leniusculus*, *Procambarus clarkii*, *Salminus brasiliensis* and *Salminus hilarii*.

This article documents the addition of 238 microsatellite marker loci 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. 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. primers developed	Other species tested	MER database no.	GenBank accession no.	Authors
<i>Alytes dickhilleni</i>	13	<i>A. obstetricans pertinax</i> , <i>A. obstetricans obstetricans</i> , <i>A. obstetricans boscai</i> , <i>A. obstetricans almogavarii</i> , <i>A. muletensis</i> , <i>A. maurus</i> , <i>A. misternasii</i>	45209–45221	HQ693828–HQ693840	Carvalho, B. M.; Lopes, S.; Van de Vliet, M. S.; Dias, G.; Benítez, M.; Beltrán, J. F.; Tejado, M.; Ferrand, N.; Gonçalves, H.

[Correction added on 23 December 2020, after first online publication: The Molecular Ecology Resources Database is no longer active. Readers may continue to access the microsatellite marker loci via the GenBank accession numbers listed in Table 1.]

Table 1 Continued

Species	No. primers developed	Other species tested	MER database no.	GenBank accession no.	Authors
<i>Arapaima gigas</i>	10	n/a	45253–45262	HM013750–HM013759	Santos, Carlos Henrique dos Anjos; Climaco, Gisele Torres; Sousa, Carolina Fernandes da Silva; Paula-Silva, Maria Nazaré; Sousa, Adna Cristina Barbosa; Farias, Izeni Pires; Campos, Tatiana; Almeida-Val, Vera Maria Fonseca
<i>Austropotamobius italicus</i>	12	<i>Pacifastacus leniusculus</i> , <i>Cambarellus zempoalensis</i> , <i>C. montezumae</i> , <i>Orconectes virilis</i> , <i>Procambarus clarkii</i>	45393–45404	HQ593123–HQ593134	Pedraza-Lara, C.; Gonzalez, E. G.; Bloor, P.; Doadrio, I.
<i>Blumeria graminis</i> f. sp. <i>tritici</i>	9	n/a	45222, 45223, 45225–45231 (see also 45224)	HQ631364, HQ631366–HQ631373	Parks, Ryan; Booth, Warren; Cowger, Christina
<i>Cobitis lutheri</i>	11	<i>C. tetralineata</i>	45281–45291	HQ158597–HQ158607	Kwan, Ye-Seul; Lee, Wan-Ok; Won, Yong-Jin
<i>Dendroctonus ponderosae</i>	50	n/a	45343–45392	GO486077, GT317345, GT320845, GT322895, GT324623, GT324841, GT325939, GT328703, GT331212, GT339861, GT344705, GT345241, GT350467, GT350767, GT356832, GT357891, GT363660, GT369500, GT373329, GT381367, GT383057, GT393905, GT401041, GT403944, GT404280, GT408450, GT413070, GT413201, GT415941, GT416554, GT419741, GT421807, GT429515, GT430043, GT433817, GT436798, GT451465, GT457678, GT458184, GT461671, GT464982, GT465588, GT473994, GT474165, GT485805, GT486724, GT489170, GT490424, GT490498, GT490735, GT491361	Samarasekera, N Gayathri; Keeling, Christopher I.; Bohlmann, Jörg; Murray, Brent W.
<i>Glossina morsitans morsitans</i>	14	<i>G. fuscipes fuscipes</i> , <i>G. pallidipes</i>	45232–45252	See paper for details	Hyseni, Chaz; Beadell, Jon S.; Gomez Ocampo, Zaneli; Ouma, Johnson O.; Okedi, Loyce M.; Gaunt, Michael W.; Caccione, Adalgisa
<i>Haplophilus subterraneus</i>	11	n/a	45198–45208	HQ670723–HQ670733	Congiu, L.; Boscarri, E.; Bino, G.; Barbisan, F.; Leśniewska, M.; Fusco, G.

Table 1 Continued

Species	No. primers developed	Other species tested	MER database no.	GenBank accession no.	Authors
<i>Kirengeshoma palmata</i>	8	n/a	45176–45183	AB571675–AB571678, AB571681, AB571682, AB598398, AB598399	Yamashiro, T.; Yamashiro, A.
<i>Lysimachia japonica</i>	10	<i>L. japonica</i> var. <i>japonica</i> , <i>L. japonica</i> var. <i>minutissima</i>	45162, 45163, 45331–45342	AB591815–AB591824	Shinohara, Wataru; Kakezawa, Akihiro; Kawaguchi, Eri; Agata, Kiyokazu
<i>Macrolophus pygmaeus</i>	10	n/a	45264–45273	HM208591–HM208599, HQ853699	Sanchez, Juan A.; La Spina, Michelangelo; Perera, Omaththage P.
<i>Microtus cabrerai</i>	12	n/a	45292–45303	AF268902, AF268903, EF666983, EF666984, EF666987, EF666990, EF666991, EU101013, EU101014, EU101016, EU101021, FR820649	Alasaad, Samer; Soriguer, Ramón C.; Wandeler, Peter; Jowers, Michael J.; Sánchez, Antonio
<i>Mytilus galloprovincialis</i>	15	n/a	45132–45146	AJ625605, AJ626093, AJ624322, AJ938131, AJ938131, EH663192, EH663098, EH663076, EH662757, FL498494.1, FL500528.1, FL498564.1, FL495095.1, FL501296.1, BV725482	Pardo, B.G.; Vera, M.; Pino-Querido, A.; Álvarez-Dios, J.A.; Martínez, P.
<i>Pallisentis (Neosentis) celatus</i>	11	n/a	45324–45336	HQ588802–HQ588812	Li, Yang; Liu, Xiaolin; Liu, Haixia; Wang, Weimin; Zhu, Changcheng
<i>Pulmonaria officinalis</i>	8	n/a	45304–45311	HQ452963–HQ452970	Meeus, S.; Honnay, O.; Vandepitte, K.; Jacquemyn, H.
<i>Salminus franciscanus</i>	10	<i>S. brasiliensis</i> , <i>S. hilarii</i>	45184–45197 (includes monomorphic loci)	HQ317313–HQ137316, HQ137320–HQ137326	Rossini, Bruno C.; Nunes, Aline G.; Freitas, Patrícia D.; Galetti Jr, Pedro M.
<i>Thais chocolata</i>	12	<i>Acanthina monodon</i> , <i>Chorus giganteus</i>	45312–45323	HQ700360–HQ700371	Gallardo-Escárate, CristianValenzuela- Bustamante, Myriam; Haye Pilar
<i>Zootoca vivipara</i>	12	n/a	45164–45175	HQ337631–HQ337642	Stevens, Virginie M.; Richard, Murielle; Bleay, Colin; Clobert, Jean