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, Austropotamobius italicus, Blumeria graminis f. sp. tritici, Cobitis lutheri, Dendroctonus ponderosae, Glossina morsitans morsitans, Haplophilus subterraneus, Kirengeshoma palmata, Lysimachia japonica, Macrolophus pygmaeus, Microtus cabrerae, 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
Alytes dickhilleni	13	A. obstetricans pertinax, A. obstetricans obstetricans, A. obstetricans boscai, A. obstetricans almogavarii, A. muletensis, A. maurus, A. misternasii	45209–45221	HQ693828–HQ693840	Carvalho, B. M.; Lopes, S.; Van de Vliet, M. S.; Dias, G.; Benítez, M.; Beltrán, J. F.; Tejedo, M.; Ferrand, N.; Gonçalves, H.

Table 1 Continued

Species	No. primers developed	Other species tested	MER database no.	GenBank accession no.	Authors
Arapaima gigas	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
Austropotamobius italicus	12	Pacifastacus leniusculus, Cambarellus zempoalensis, C. montezumae, Orconectes virilis, Procambarus clarkii	45393–45404	HQ593123–HQ593134	Pedraza-Lara, C.; Gonzalez, E. G.; Bloor, P.; Doadrio, I.
Blumeria graminis f. sp. tritici	9	n/a	45222, 45223, 45225–45231 (see also 45224)	HQ631364, HQ631366–HQ631373	Parks, Ryan; Booth, Warren; Cowger, Christina
Cobitis lutheri	11	C. tetralineata	45281–45291	HQ158597–HQ158607	Kwan, Ye-Seul; Lee, Wan-Ok; Won, Yong-Jin
Dendroctonus ponderosae	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.
Glossina morsitans morsitans	14	G. fuscipes fuscipes, G. pallidipes	45232–45252	See paper for details	Hyseni, Chaz; Beadell, Jon S.; Gomez Ocampo, Zaneli; Ouma, Johnson O.; Okedi, Loyce M.; Gaunt, Michael W.; Caccone, Adalgisa
Haplophilus subterraneus	11	n/a	45198–45208	HQ670723–HQ670733	Congiu, L.; Boscari, E.; Bino, G.; Barbisan, F.; Leśniewska, M.; Fusco, G.

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Table 1 Continued

Species	No. primers developed	Other species tested	MER database no.	GenBank accession no.	Authors
Kirengeshoma palmata	8	n/a	45176–45183	AB571675–AB571678, AB571681, AB571682, AB598398, AB598399	Yamashiro, T.; Yamashiro, A.
Lysimachia japonica	10	L. japonica var. japonica, L. japonica var. minutissima	45162, 45163, 45331–45342	AB591815–AB591824	Shinohara, Wataru; Kakezawa, Akihiro; Kawaguchi, Eri; Agata, Kiyokazu
Macrolophus pygmaeus	10	n/a	45264–45273	HM208591–HM208599, HQ853699	Sanchez, Juan A.; La Spina, Michelangelo; Perera, Omaththage P.
Microtus cabrerae	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
Mytilus galloprovincialis	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.
Pallisentis (Neosentis) celatus	11	n/a	45324–45336	HQ588802–HQ588812	Li, Yang: Liu, Xiaolin: Liu, Haixia; Wang, Weimin; Zhu, Changcheng
Pulmonaria officinalis	8	n/a	45304–45311	HQ452963–HQ452970	Meeus, S.; Honnay, O.; Vandepitte, K.; Jacquemyn, H.
Salminus franciscanus	10	S. brasiliensis, S. hilarii	45184–45197 (includes monomorphic loci)	HQ317313–HQ137316, HQ137320–HQ137326	Rossini, Bruno C.; Nunes, Aline G.; Freitas, Patrícia D.; Galetti Jr, Pedro M.
Thais chocolata	12	Acanthina monodon, Chorus giganteus	45312–45323	HQ700360–HQ700371	Gallardo-Escárate, CristianValenzuela-Bustamante, Myriam; Haye Pilar
Zootoca vivipara	12	n/a	45164–45175	HQ337631–HQ337642	Stevens, Virginie M.; Richard, Murielle; Bleay, Colin; Clobert, Jean

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