

PERMANENT GENETIC RESOURCES NOTE

**Permanent Genetic Resources added to Molecular Ecology Resources Database 1 April 2010 – 31 May 2010**

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## Abstract

**This article documents the addition of 396 microsatellite marker loci to the Molecular Ecology Resources Database. Loci were developed for the following species: *Anthocidaris crassispina*, *Aphis glycines*, *Argyrosomus regius*, *Astrocaryum sciophilum*, *Dasytus novemcinctus*, *Delomys sublineatus*, *Dermatemys mawii*, *Fundulus heteroclitus*, *Homalaspis plana*, *Jumellea rossii*, *Khaya senegalensis*, *Mugil cephalus*, *Neoceratitis cyanescens*, *Phalacrocorax aristotelis*, *Phytophthora infestans*, *Piper cordulatum*, *Pterocarpus indicus*, *Rana dalmatina*, *Rosa pulverulenta*, *Saxifraga oppositifolia*, *Scomber colias*, *Semecarpus kathalekanensis*, *Stichopus monotuberculatus*, *Striga hermonthica*, *Tarentola boettgeri* and *Thermophilis baileyi*. These loci were cross-tested on the following species: *Aphis gossypii*, *Sooretamys angouya*, *Euryoryzomys***

*russatus*, *Fundulus notatus*, *Fundulus olivaceus*, *Fundulus catenatus*, *Fundulus majalis*, *Jumellea fragrans*, *Jumellea triquetra* *Jumellea recta*, *Jumellea stenophylla*, *Liza richardsonii*, *Piper marginatum*, *Piper aequale*, *Piper darienensis*, *Piper dilatatum*, *Rana temporaria*, *Rana iberica*, *Rana pyrenaica*, *Semecarpus anacardium*, *Semecarpus auriculata*, *Semecarpus travancorica*, *Spondias acuminata*, *Holigarna grahamii*, *Holigarna beddomii*, *Mangifera indica*, *Anacardium occidentale*, *Tarentola delalandii*, *Tarentola caboverdianus* and *Thermophilus zhaoermii*.

This article documents the addition of 396 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. of primers developed	Other species tested	MER database no.	GenBank accession no.	Authors
<i>Anthocidaris crassispina</i>	11	n/a	44091–44101	HM045499–HM045509	Ng, Wai-Chuen; Chak, Solomon T.C.; Wai, T.C.; Chan, M.N.; Leung, Kenneth M.Y; Leung, F. C. C.
<i>Aphis glycines</i>	10	<i>A. gossypii</i>	44039–44048	GU556974–GU556983	Kim, Hyojoong; Kim, Min-Young; Kim, Kyung Seok; Lee, Hang; Hoelmer, Kim A.; Lee, Seunghwan
<i>Argyrosomus regius</i>	10	n/a	43852–43861	GU724789–GU724792, GU724794–GU724799	Porta, D.; Porta, J. M.; Porta, J.; Andree, K.; Duncan, N.
<i>Astrocaryum sciophilum</i>	11	n/a	44216–44226	HM055514–HM055523, EU151465	Girod, C.; Tollon-Cordet, C.; Pfundner, M.; Sarrazin, E.; Samadi, S.; Boisselier-Dubayle, M. C.; Lambourdiere, J.; Riéra, B.; Leblois, R.; Sarhou, C.; Charles-Dominique, P.; Fréville, H.
<i>Dasypus novemcinctus</i>	9	n/a	44081–44090	AC156764*, AC145507†, CH512092, CH512179, CH482426,	Chinchilla, Leah; Woodard, Anastasia; Loughry, W. J.; Brooks, Christopher P.; Welch, Mark E.

Table 1 Continued

Species	No. of primers developed	Other species tested	MER database no.	GenBank accession no.	Authors
<i>Delomys sublineatus</i>	14	<i>Sooretamys angouya</i> , <i>Euryoryzomys russatus</i>	44173–44187	CH482433, CH483824, CH484724, CH484035 HM036723 HM036736	Sommer, Simone; Taubert, Ramona; Schmidt, Anke; Axtner, Jan; Lieckfeldt, Dietmar
<i>Dermatemys mawii</i>	8	n/a	44192–44199	HM208158, HM208160–HM208163, HM208165, HM208166, AF546888	González-Porter, Gracia P.; Flores Villela, Oscar; Hailer, Frank; Bozarth, Christine A.; Maldonado, Jesús E.
<i>Fundulus heteroclitus</i>	108	<i>F. notatus</i> , <i>F. olivaceus</i> , <i>F. catenatus</i> , <i>F. majalis</i>	43873–43924, 43935–43990	AF082696, AY791459, AY791469, AY791484, AY791490, CN953105, CN953671, CN953859, CN954710, CN955223, CN956237, CN959642, CN962780, CN969421, CN970366, CN970819, CN971551, CN972805, CN973425, CN973649, CN974954, CN975907, CN975921, CN976892, CN977013, CN979549, CN980692, CN980761, CN980947, CN980953, CN981880, CN981992, CN982025, CN982077, CN982078, CN982085, CN982208, CN982342, CN982387, CN982601, CN983819,	Jackson, S. A.; Wang, R. L.; Whitehead, A.; Roberts, D. A.; Duvernell, D; Nacci, D.; Bagley, M. J.

Table 1 Continued

Species	No. of primers developed	Other species tested	MER database no.	GenBank accession no.	Authors	
				CN984412, CN984794, CN985173, CN985425, CN985451, CN985533, CN985559, CN986186, CN986676, CN987016, CN987460, CN987830, CN988090, CN988379, CN989186, CN989692, CN990067, CN990892, CN991593, CV816789, CV816809, CV817822, CV819694, CV819797, CV820076, CV820894, CV821631, CV821635, CV821898, CV822037, CV822135, CV822194, CV822397, CV823325, CV823584, CV823941, CV824092, CV824272, CV824291, CV824906, CV825002, CV825144, CV825291, CV825390, DN951105, DN951765, DN956261, DN956719, DN956985, DN957089, DN957170, DN957227, DR046376,		

Table 1 Continued

Species	No. of primers developed	Other species tested	MER database no.	GenBank accession no.	Authors
<i>Homalaspis plana</i>	10	n/a	44163–44172	DR046494, DR046611, DR046800, DR047213, DR109362, DR398035, DR398186, DR441274, DR441281, DR441391, DR441490, DR441729, DR441844, DR442006 HM191694–HM191703	Segovia, N. I.; Gallardo-Escárate, C.; Haye, P. A.
<i>Jumellea rossii</i>	16	<i>J. fragrans</i> , <i>J. triquetra</i> , <i>J. recta</i> , <i>J. stenophylla</i>	44200–44215	GU325613–GU325628	Humeau, L.; Dafreville, S.; Da Silva, D.; Rakotoarivelo, F. P.; Pailler, T.; Guérin, F.
<i>Khaya senegalensis</i>	13	n/a	44293–44305	GU903057–GU903069	Li, Chunhong; Fong, Yokking; Hong, Yan
<i>Mugil cephalus</i>	13	<i>Liza richardsonii</i>	44102–44114	HM004324–HM004326, HM004328–HM004332, HM004335, HM004343, HM004345, HM004346, HM004348	Shen, K. N.; Chen, C. Y.; Tzeng, W. N.; Chen, J. D.; Knibb, W.; Durand, J. D.
<i>Neoceratitis cyanescens</i>	14	n/a	44142–44152, 44188–44191	GU807480–GU807493	Delatte, H.; Simiand, C.; Risterucci, A.M.; Quilici, S.
<i>Phalacrocorax aristotelis</i>	10	n/a	44132–44141	GU296113 GU296115, GU296117, GU296118, GU296120, GU296122, GU296123, GU296125, GU296127	Barlow, E. J.; Telford, A.; Daunt, F.; Cavers, S.
<i>Phytophthora infestans</i>	8	n/a	44332–44339	See text for details.	Li, Y.; Govers, F.; Mendes, O.; Testa, A.; Jacobsen, E.; Huang, S. W.; van der Lee, T. A. J.

Table 1 Continued

Species	No. of primers developed	Other species tested	MER database no.	GenBank accession no.	Authors
<i>Piper cordulatum</i>	12	<i>P. marginatum</i> , <i>P. aequale</i> , <i>P. darinensis</i> , <i>P. dilatatum</i>	43775–43786	HM118524–HM118535	Lasso, Eloisa; Cerón-Souza, Ivania; Bermingham, Eldredge
<i>Pterocarpus indicus</i>	18	n/a	44275–44292	GU903070–GU903087	Li, Chunhong; Sman, Muhammad Hidayat Bin; Fong, Yokking; Hong, Yan
<i>Rana dalmatina</i>	10	<i>R. temporaria</i> , <i>R. iberica</i> , <i>R. pyrenaica</i>	43765–43774	EU139058–EU139064, FJ687621, GU581316, GU581317	Sarasola-Puente, V.; Beebee, T. J. C.; Gosá, A.; Gómez-Moliner, B. J.; Lizana, M.; Madeira, M. J.
<i>Rosa pulverulenta</i>	17	n/a	44115–44131	GU130162–GU130177	Jowkar, A.; Mardi, M.; Kermani, M. J.; Kafi, M.; Pirseyyedi, S. M.; Ghaffari, M. R.; Fattahi, R; Zeinolabedini, M.; Mahmoodi, P.
<i>Saxifraga oppositifolia</i>	10	n/a	43925–43934	GU734329–GU734336, GU734338, GU734339	Pietiläinen, M.; Korpelainen, H.
<i>Scomber colias</i>	8	n/a	44267–44274	AB354595–AB354602	Catanese, Gaetano; Funes, Victoria; Perez, Laura; Infante, Carlos
<i>Semecarpus kathalekanensis</i>	10	<i>S. anacardium</i> , <i>S. auriculata</i> , <i>S. travancorica</i> , <i>Spondias acuminata</i> , <i>Holigarna grahamii</i> , <i>Holigarna beddomii</i> , <i>Mangifera indica</i> , <i>Anacardium occidentale</i>	44071–44080	FJ656103, FJ656105, FJ656107–FJ656114	Ravikanth, G.; Sumangala, R.C.; Naveen Kumar, L.; Ramesha, B.T.; Vasudeva, R.; Ganeshiah, K. N.; Uma Shaanker, R.
<i>Stichopus monotuberculatus</i>	15	n/a	44306–44320	GU591965–GU591979	Xia, Jianjun; Hu, Chaoqun; Fan, Sigang; Luo, Peng; Zhang, Lvping

Table 1 Continued

Species	No. of primers developed	Other species tested	MER database no.	GenBank accession no.	Authors
<i>Striga hermonthica</i>	12	n/a	44243–44254	FI776044, FI774622, FI775250, FI775982, FI775983, FI775081, FI776123, FI775072, FI774526, FI775577, FI775578, FI775002	Estep, Matt; Van Mourik, Thomas A.; Muth, Peter; Guindo, Diarah; Parzies, Heiko K.; Koita, Ousmane A.; Weltzien, Eva; Bennetzen, Jeffrey L.
<i>Tarentola boettgeri</i>	10	<i>T. delalandii</i> , <i>T. caboverdianus</i>	44153–44162	HM212426–HM212435	Tejangkura, T.; Brown, R. P.
<i>Thermophis baileyi</i>	9	<i>T. zhaermii</i>	44062–44070	HM537136–HM537144	Hofmann, S.; Dorge, T.; Solhoy, T.; Miehe, G.

\*This microsatellite is associated with the *Dasyopus novemcinctus* ortholog of human cytotoxic T-lymphocyte antigen-4.

†This microsatellite is associated with the *Dasyopus novemcinctus* ortholog of human vitamin D receptor.