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PERMANENT GENETIC RESOURCES NOTE

Permanent Genetic Resources added to Molecular Ecology Resources database 1 January 2009–30 April 2009

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Abstract

This article documents the addition of 283 microsatellite marker loci to the Molecular Ecology Resources Database. Loci were developed for the following species: *Agalinis acuta*; *Ambrosia artemisiifolia*; *Berula erecta*; *Casuarius casuarius*; *Cercospora zeae-maydis*; *Chorthippus parallelus*; *Conyza canadensis*; *Cotesia sesamiae*; *Epinephelus acanthistius*; *Ficedula hypoleuca*; *Grindelia hirsutula*; *Guadua angustifolia*; *Leucadendron rubrum*; *Maritrema novaezealandensis*; *Meretrix meretrix*; *Nilaparvata lugens*; *Oxyeleotris marmoratus*; *Phoxinus neogaeus*; *Pristomyrmex punctatus*; *Pseudobagrus brevicorpus*; *Seiridium cardinale*; *Stenopsyche marmorata*; *Tetranychus evansi* and *Xerus inauris*. These loci were cross-tested on the following species: *Agalinis decemloba; Agalinis tenella; Agalinis obtusifolia; Agalinis setacea; Agalinis skinneriana; Cercospora zeina; Cercospora kikuchii; Cercospora sorghi; Mycosphaerella graminicola; Setosphaeria turcica; Magnaporthe oryzae; Cotesia flavipes; Cotesia marginiventris; Grindelia Xpaludosa; Grindelia chiloensis; Grindelia fastigiata; Grindelia lanceolata; Grindelia squarrosa; Leucadendron coniferum; Leucadendron salicifolium; Leucadendron tinctum; Leucadendron meridianum; Laodelphax striatellus; Sogatella furcifera; Phoxinus eos; Phoxinus rigidus; Phoxinus brevispinosus; Phoxinus bicolor; Tetranychus urticae; Tetranychus turkestani; Tetranychus ludeni; Tetranychus neocaledonicus; Tetranychus amicus; Amphitetranychus viennensis; Eotetranychus rubiphilus; Eotetranychus tiliarium; Oligonychus perseae; Panonychus citri; Bryobia rubrioculus; Schizonobia bundi; Petrobia harti; Xerus princeps; Spermophilus tridecemlineatus* and *Sciurus carolinensis*.

This article documents the addition of 283 microsatellite marker loci in 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/).

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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 given in the final column

Species	No. primers developed	Other species tested	MER database numbers	GenBank accession numbers	Authors
Agalinis acuta	21	*A. decemloba* *A. tenella* *A. obtusifolia* *A. setacea* *A. skinneriana*	36808–36828	FJ754646–FJ754666	J. B. Pettengill R. K. Burnett Jr. M. C. Neel
Ambrosia artemisiifolia	8	n/a	36829–36836	FJ595149–FJ595156	Y. J. Chun B. Fumanal B. Laitung C. Caullet F. Bretagnolle
Berula erecta	23	n/a	36691–36713	FJ645574–FJ645596	E. Martel J. Oudot-Canaff, B. Kaufmann F. Piola
Casuarius casuarius	9	n/a	36714–36722	FJ798203–FJ798211	B. D. Hardesty D. Groth S.S. Metcalfe L. Joseph P. Latch D. A. Westcott
Cercospora zeae-maydis	10	*C. zeina* *C. kikuchii* *C. sorghi* *Mycosphaerella graminicola* *Setosphaeria turcica* *Magnaporthe oryzae*	36550–36559	FG243475.1 FG245483.1 FG246783.1 FG246813.1 FG246828.1 FG246933.1 FG247810.1 FG248153.1 FG253922.1 FG254140.1	L. D. Dunkle C. F. Crane S. B. Goodwin
Chorthippus parallelus	9	n/a	37151–37159	FJ938197–FJ938205	S. Pfautsch A. R. R. Schneider K. R. Wiesner W. W. Weisser R. Tiedemann
Conyza canadensis	8	n/a	37416–37423	EU512230–EU512233 EU512236 EU652945–EU652947	X. W. Wang L. G. Abercrombie P. A. Wadl D. H. Johnson D. R. Panthee B. E. Scheffler T. A. Rinehart N. R. Stewart J. S. Yuan C. N. Stewart R. N. Trigiano
Cotesia sesamiae	9	*C. flavipes* C. *marginiventris*	37054–37062	FJ233144–FJ233169	N. Faure A. Branca G. Gigot S. Dupas J. F. Silvain

Table 1 (Continued)

Species	No. primers developed	Other species tested	MER database numbers	GenBank accession numbers	Authors
Epinephelus acanthistius	13	n/a	36862–36874	FJ178389 FJ178391–FJ178393 FJ178395–FJ178397 FJ711585–FJ711590	R. Beldade R. Cudney-Bueno P. T. Raimondi G. Bernardi
Ficedula hypoleuca	9	n/a	35888–35896	FJ389732–FJ389740	D. Canal J. A. Dávila P. J. G. de Nova M. E. Ferrero J. Potti
Grindelia hirsutula	11	*G. ×paludosa* *G. chiloensis* *G. fastigiata* *G. lanceolata* *G. squarrosa*	37209–37233	FJ660688–FJ660701	A. J. Moore W. L. Moore V. R. F. Morris B. G. Baldwin
Guadua angustifolia	9	n/a	37200–37208	FJ444929–FJ444932 FJ444934–FJ444936 FJ476075–FJ476076	C.A. Pérez-Galindo I. González H. Cárdenas
Leucadendron rubrum	10	*L. coniferum* *L. salicifolium* *L. tinctum* *L. meridianum*,	36651–36674	FJ589765–FJ589773	F. Justy J. J. Midgley I. Olivieri
Maritrema novaezealandensis	27	n/a	36943–36970	FJ766537–FJ766563	Y. P. Springer A. V. Koehler R. Poulin
Meretrix meretrix	11	n/a	37450–37460	FJ232978–FJ232989	S. Y. Chen L. Wang W. Sun H. J. Ji X. F. Xu
Nilaparvata lugens	14	*Laodelphax striatellus* *Sogatella furcifera*	36764 – 36777	DB828715 DB825677 DB843573 DB852116 DB838689 DB823258 DB839311 DB821134 DB837858 DB822071 DB843409 DB843364 DB845638 DB853707	Y. D. Liu M. L. Hou
Oxyeleotris marmoratus	8	n/a	37191–37199	EU860240–EU860247	A. Ruzainah M. N. Siti Azizah I. Patimah A. S. Othman A. F. J. Jamsari
Phoxinus neogaeus	12	*Phoxinus eos*	36875–36880 36882–36888	FJ8027688–FJ8027699	J. N. Miller S. K. Sarver C. M. Anderson
Pristomyrmex punctatus	11	*P. rigidus* *P. brevispinosus* *P. bicolor*	36752–36762	AB479990–AB480000	S. Dobata E. Hasegawa K. Tsuji

Table 1 (Continued)

Species	No. primers developed	Other species tested	MER database numbers	GenBank accession numbers	Authors
Pseudobagrus brevicorpus	8	n/a	37085–37092	FJ592090 FJ592094 FJ592096 FJ592102 FJ592104 FJ592106 FJ592115 FJ592130	K. S. Kim E. J. Kang W. J. Kim I. C. Bang
Seiridium cardinale	8	n/a	37489–37496	FJ493457–FJ493464	G. Della Rocca A. Buonamici C. Cossu G. G. Vendramin R. Danti
Stenopsyche marmorata	10	n/a	37461–37470	AB472379 AB472381–AB472389	S. Yaegashi K. Watanabe T. Omura
Tetranychus evansi	16	*T. urticae* *T. turkestani* *T. ludeni* *T. neocaledonicus* *T. amicus* *Amphitetranychus viennensis* *Eotetranychus rubiphilus* *Eotetranychus tiliarium* *Oligonychus perseae* *Panonychus citri* *Bryobia rubrioculus* *Schizonobia bundi* *Petrobia harti*	37471–37483 37485–37487	FJ426370–FJ426385	A. Boubou, S. Cros-Arteil A. Migeon M. Navajas D. Navia
Xerus inauris	9	*Spermophilus tridecemlineatus* *Sciurus carolinensis* *X. princeps*	37440–37447 37497	FJ823123–FJ823131	M. B. Manjerovic J. M. Waterman E. A. Hoffman C. L. Parkinson

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