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S.W. A'Hara, Paul Amouroux, Emily.E. Argo, Arman Avand-Faghieh, Ashoktaru Barat, Luiz Barbieri, Theresa M. Bert, R. Blatrix, Aurelie Blin, D. Bouktila, et al.

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S.W. A'Hara, Paul Amouroux, Emily.E. Argo, Arman Avand-Faghieh, Ashoktaru Barat, et al.. Permanent genetic resources added to molecular ecology resources database 1 august 2011-30 september 2011. *Molecular Ecology Resources*, 2012, 12 (1), pp.185-189. 10.1111/j.1755-0998.2011.03088.x . hal-02653040

**HAL Id: hal-02653040**

**<https://hal.inrae.fr/hal-02653040>**

Submitted on 29 May 2020

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## PERMANENT GENETIC RESOURCES NOTE

**Permanent Genetic Resources added to Molecular Ecology Resources Database 1 August 2011–30 September 2011**

MOLECULAR ECOLOGY RESOURCES PRIMER DEVELOPMENT CONSORTIUM,<sup>1</sup> S. W. A'HARA,<sup>2</sup> P. AMOUROUX,<sup>3,4</sup> EMILY E. ARGO,<sup>5</sup> A. AVAND-FAGHIH,<sup>6</sup> ASHOKTARU BARAT,<sup>7</sup> LUIZ BARBIERI,<sup>8</sup> THERESA M. BERT,<sup>8</sup> R. BLATRIX,<sup>9</sup> AURÉLIE BLIN,<sup>10</sup> D. BOUKTILA,<sup>11,12</sup> A. BROOME,<sup>2</sup> C. BURBAN,<sup>13</sup> C. CAPDEVIELLE-DULAC,<sup>14</sup> N. CASSE,<sup>15</sup> SURESH CHANDRA,<sup>7</sup> KYUNG JIN CHO,<sup>16</sup> J. E. COTTRELL,<sup>2</sup> CHARLES R. CRAWFORD,<sup>8</sup> MICHELLE C. DAVIS,<sup>8</sup> H. DELATTE,<sup>17</sup> NICOLAS DESNEUX,<sup>18</sup> C. DJIETO-LORDON,<sup>19</sup> M. P. DUBOIS,<sup>9</sup> R. A. A. M. EL-MERGAWY,<sup>20</sup> C. GALLARDO-ESCÁRATE,<sup>21</sup> M. GARCIA,<sup>9</sup> MARY M. GARDINER,<sup>22</sup> THOMAS GUILLEMAUD,<sup>10</sup> P. A. HAYE,<sup>23</sup> B. HELLEMANS,<sup>24</sup> P. HINRICHSEN,<sup>25</sup> JI HYUN JEON,<sup>26</sup> C. KERDELHUÉ,<sup>27</sup> I. KHARRAT,<sup>11</sup> KI HWAN KIM,<sup>26</sup> YONG YUL KIM,<sup>16</sup> YE-SEUL KWAN,<sup>28</sup> ELLEN M. LABBE,<sup>29</sup> ERIC LAHOOD,<sup>30</sup> KYUNG MI LEE,<sup>16</sup> WAN-OK LEE,<sup>31</sup> YAT-HUNG LEE,<sup>32</sup> ISABELLE LEGOFF,<sup>10</sup> H. LI,<sup>33</sup> CHUNG-PING LIN,<sup>32</sup> S. S. LIU,<sup>34</sup> Y. G. LIU,<sup>35</sup> D. LONG,<sup>36</sup> G. E. MAES,<sup>24</sup> E. MAGNOUX,<sup>37</sup> PRABIN CHANDRA MAHANTA,<sup>7</sup> H. MAKNI,<sup>11,38</sup> M. MAKNI,<sup>11</sup> THIBAUT MALAUSA,<sup>10</sup> RAKESH MATURA,<sup>7</sup> D. McKEY,<sup>9</sup> ANNE L. MCMILLEN-JACKSON,<sup>8</sup> M. A. MÉNDEZ,<sup>39</sup> M. MEZGHANI-KHEMAKHEM,<sup>11</sup> ANDY P. MICHEL,<sup>22</sup> MORAN PAUL,<sup>30</sup> JANICE MURIEL-CUNHA,<sup>40</sup> S. NIBOUCHE,<sup>17</sup> F. NORMAND,<sup>3</sup> ERIC P. PALKOVACS,<sup>5</sup> VEENA PANDE,<sup>41</sup> K. PARMENTIER,<sup>42</sup> J. PECCOUD,<sup>9</sup> F. PIATS-CHECK,<sup>9</sup> CECILIA PUCHULUTEGUI,<sup>8</sup> R. RAMOS,<sup>25,43</sup> G. RAVEST,<sup>25</sup> HEINZ RICHNER,<sup>44</sup> J. ROBBENS,<sup>42</sup> D. ROCHAT,<sup>45</sup> J. ROUSSELET,<sup>37</sup> VERENA SALADIN,<sup>44</sup> M. SAUVE,<sup>9</sup> ORA SCHLEI,<sup>46</sup> THOMAS F. SCHULTZ,<sup>5</sup> A. R. SCOBIE,<sup>47</sup> N. I. SEGOVIA,<sup>23</sup> SEIFU SEYOUM,<sup>8</sup> J.-F. SILVAIN,<sup>14</sup> ELISABETH TABONE,<sup>48</sup> J. K. J. VAN HOUDT,<sup>24,49</sup> S. G. VANDAMME,<sup>42,24</sup> F. A. M. VOLCKAERT,<sup>24</sup> JOHN WENBURG,<sup>46</sup> THEODORE V. WILLIS,<sup>50</sup> YONG-JIN WON,<sup>28</sup> N. H. YE,<sup>51</sup> W. ZHANG<sup>22</sup> and Y. X. ZHANG<sup>35</sup>

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## Abstract

This article documents the addition of 299 microsatellite marker loci and nine pairs of single-nucleotide polymorphism (SNP) EPIC primers to the Molecular Ecology Resources (MER) Database. Loci were developed for the following species: *Alosa pseudoharengus*, *Alosa aestivalis*, *Aphis spiraeicola*, *Argopecten purpuratus*, *Coreoleuciscus splendidus*, *Garra gotyla*, *Hippodamia convergens*, *Linnaea borealis*, *Menippe mercenaria*, *Menippe adina*, *Parus major*, *Pinus densiflora*, *Portunus trituberculatus*, *Procontarinia mangiferae*, *Rhynchophorus ferrugineus*, *Schizothorax richardsonii*, *Scophthalmus rhombus*, *Tetraponera aethiops*, *Thaumatopoea pityocampa*, *Tuta absoluta* and *Ugni molinae*. These loci were cross-tested on the following species: *Barilius bendelisis*, *Chiromantes haematocheir*, *Eriocheir sinensis*, *Eucalyptus camaldulensis*, *Eucalyptus cladocalix*, *Eucalyptus globulus*, *Garra litaninsis vishwanath*, *Garra para lissorhynchus*, *Guindilla trinervis*, *Hemigrapsus sanguineus*, *Luma chequen*, *Guayaba*, *Myrceugenia colchagiensis*, *Myrceugenia correifolia*, *Myrceugenia exsucca*, *Parasesarma plicatum*, *Parus major*, *Portunus pelagicus*, *Psidium guayaba*, *Schizothorax richardsonii*, *Scophthalmus maximus*, *Tetraponera latifrons*, *Thaumatopoea bonjeani*, *Thaumatopoea ispartensis*, *Thaumatopoea libanotica*, *Thaumatopoea pinivora*, *Thaumatopoea pityocampa ena clade*, *Thaumatopoea solitaria*, *Thaumatopoea wilkinsoni* and *Tor putitora*. This article also documents the addition of nine EPIC primer pairs for *Euphaea decorata*, *Euphaea formosa*, *Euphaea ornata* and *Euphaea yayeyamana*.

This article documents the addition of 299 microsatellite marker loci and nine 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 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. Table 3 outlines additional permanent genetic resources that have been uploaded to the MER program wiki (<http://tomato.biol.trinity.edu/programs/>). A full description of the development protocol for the loci presented in Tables 1 & 2 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 (MER) 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>Alosa pseudoharengus</i> ,<br><i>Alosa aestivalis</i> | 18                    | n/a                  | 47166–47201      | JN383992–JN384009     | Labbe, Ellen M.; Argo, Emily E.; Schultz, Thomas F.; Palkovacs, Eric P.; Willis, Theodore V. |

Correspondence: Molecular Ecology Resources Primer Development Consortium, E-mail: [editorial.office@molecol.com](mailto:editorial.office@molecol.com)

Table 1 (Continued)

| Species  | No. primers developed | Other species tested   | MER database no. | GenBank accession no.   | Authors  |
|--|-----------------------|--|------------------|---|--|
| <i>Aphis spiraecola</i>                        | 9                     | n/a  | 47081–47089      | HM854169–HM854171,<br>JN214382–JN214384,<br>JN214386–JN214388   | Mezghani-Khemakhem, M.;<br>Kharrat, I.;<br>Casse, N.;<br>Bouktila, D.;<br>Makni, M.;<br>Makni H.   |
| <i>Argopecten purpuratus</i>                   | 8                     | n/a  | 47373–47380      | JN674552–JN674559   | Haye, P. A.;<br>Segovia, N. I.;<br>Gallardo-Escárate, C.   |
| <i>Coreoleuciscus splendidus</i>               | 13                    | n/a  | 47143–47155      | JF972368–JF972380   | Kwan, Ye-Seul;<br>Lee, Wan-Ok;<br>Won, Yong-Jin  |
| <i>Garra gotyla</i>                            | 28                    | <i>G. para lissorhynchus</i> ,<br><i>G. litaninsis vishwanath</i> ,<br><i>Barilius bendelisis</i> ,<br><i>Schizothorax richardsonii</i> ,<br><i>Tor putitora</i> | 47345–47372      | HQ288484, HQ288485,<br>HQ288489–HQ288499,<br>HQ288501, HQ288502,<br>HQ288504, HQ288506,<br>HQ288507, HQ288510,<br>HQ288511, HQ288517,<br>HQ288526, HQ288661,<br>JF268657, JF268662,<br>JF268664, JF268665 | Matura, Rakesh;<br>Chandra, Suresh;<br>Barat, Ashoktaru;<br>Pande, Veena;<br>Mahanta, Prabin Chandra   |
| <i>Hippodamia convergens</i>                   | 12                    | n/a  | 47397–47408      | JN565049–JN565060   | Michel, Andy P.;<br>Zhang, W.;<br>Gardiner, Mary M.  |
| <i>Linnaea borealis</i>                        | 10                    | n/a  | 47156–47165      | JN674504–JN674512   | A'Hara, S. W.;<br>Scobie, A. R.;<br>Broome, A.;<br>Long, D.;<br>Cottrell, J. E.  |
| <i>Menippe mercenaria</i> ,<br><i>M. adina</i> | 22                    | n/a  | 46925–46968      | GU970048–GU970069   | Seyoum, Seifu;<br>Bert, Theresa M.;<br>Puchulutegui, Cecilia;<br>Davis, Michelle C.;<br>Muriel-Cunha, Janice;<br>Crawford, Charles R.;<br>Mcmillen-Jackson, Anne L.;<br>Barbieri, Luiz |
| <i>Parus major</i>                             | 15                    | n/a  | 47128–47142      | HQ263118–HQ263132   | Saladin, Verena;<br>Richner, Heinz   |
| <i>Pinus densiflora</i>                        | 16                    | n/a  | 47381–47396      | JN634766–JN634781   | Lee, Kyung Mi;<br>Kim, Yong Yul;<br>Kim, Ki Hwan;<br>Jeon, Ji Hyun;<br>Cho, Kyung Jin  |
| <i>Portunus trituberculatus</i>                | 11                    | <i>P. pelagicus</i> ,<br><i>Eriocheir sinensis</i> ,<br><i>Hemigrapsus sanguineus</i> ,<br><i>Chiromantes haematocheir</i> ,<br><i>Parasesarma plicatum</i>      | 46914–46924      | JF505633–JF505643   | Li, H.;<br>Ye, N. H.;<br>Liu, Y. G.;<br>Zhang, Y. X.;<br>Liu, S. S.  |

Table 1 (Continued)

| Species                          | No. primers developed | Other species tested   | MER database no. | GenBank accession no.   | Authors  |
|----------------------------------|-----------------------|--|------------------|---|--|
| <i>Procontarinia mangiferae</i>  | 11                    | n/a  | 47057–47067      | JF746879–JF746889   | Amouroux, P.;<br>Normand, F.;<br>Nibouche, S.;<br>Delatte H.   |
| <i>Rhynchophorus ferrugineus</i> | 15                    | n/a  | 47113–47127      | JN374673–JN374687   | Capdevielle-Dulac, C.;<br>El-Mergawy, R. A. A. M.;<br>Avand-Faghih, A.;<br>Rochat, D.;<br>Silvain, J.-F.                             |
| <i>Schizothorax richardsonii</i> | 34                    | n/a  | 47292–47325      | HM591233–HM591236,<br>HM591238,<br>HM591240–HM591242,<br>HM591244,<br>HM591246–HM591256,<br>HM591258, HM591260,<br>HM591264–HM591266,<br>HM591270–HM591272,<br>HM591276, HM591278,<br>HM591279, HM591281,<br>HM591283 | Barat, Ashoktaru;<br>Chandra, Suresh;<br>Matura, Rakesh  |
| <i>Scophthalmus rhombus</i>      | 15                    | <i>S. maximus</i>  | 47090–47104      | JF900344–JF900358   | Vandamme, S. G.;<br>Maes, G. E.;<br>Van Houdt, J. K. J.;<br>Hellemans, B.;<br>Robbens, J.;<br>Parmentier, K.;<br>Volckaert, F. A. M. |
| <i>Tetraoponera aethiops</i>     | 14                    | <i>T. latifrons</i>  | 46982–47009      | JN190035–JN190048   | Piatscheck, F.;<br>Djieto-Lordon, C.;<br>Garcia, M.;<br>Sauve, M.;<br>Peccoud, J.;<br>Dubois, M. P.;<br>McKey, D.;<br>Blatrix, R.    |
| <i>Thaumetopoea pityocampa</i>   | 13                    | <i>T. p. ena clade</i> ,<br><i>T. wilkinsoni</i> ,<br><i>T. pinivora</i> ,<br><i>T. libanotica</i> ,<br><i>T. bonjeani</i> ,<br><i>T. ispartensis</i> ,<br><i>T. solitaria</i> | 46969–46981      | JN400258–JN400270   | Burban, C.;<br>Magnoux, E.;<br>Rousselet, J.;<br>Kerdelhué, C.   |
| <i>Tuta absoluta</i>             | 19                    | n/a  | 47326–47344      | JN680765–JN680783   | Guillemaud, Thomas;<br>Legoff, Isabelle;<br>Blin, Aurélie;<br>Tabone, Elisabeth;<br>Desneux, Nicolas;<br>Malausa, Thibaut            |

**Table 1** (Continued)

| Species             | No. primers developed | Other species tested   | MER database no. | GenBank accession no. | Authors  |
|---------------------|-----------------------|--|------------------|-----------------------|--|
| <i>Ugni molinae</i> | 16                    | <i>Myrceugenia correifolia</i> ,<br><i>M. colchaguensis</i> ,<br><i>M. exsucca</i> ,<br><i>Guindilla trinervis</i> ,<br><i>Luma chequen</i> ,<br><i>Guayaba</i> ,<br><i>Psidium guayaba</i> ,<br><i>Eucalyptus cladocalix</i> ,<br><i>E. camaldulensis</i> ,<br><i>E. globulus</i> | 46809–46824      | HQ917086–HQ917101     | Ramos, R.;<br>Ravest, G.;<br>Méndez, M.A.;<br>Hinrichsen, P. |

**Table 2** Information on the focal species, the sequencing primer pairs developed, the number of single-nucleotide polymorphisms (SNPs) 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 (MER) 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>Euphaea formosa</i> ,<br><i>E. yayeyamana</i> ,<br><i>E. ornata</i> ,<br><i>E. decorata</i> | 9                | See Table 2 in text for details. | n/a                  | n/a                               | See Table 1 in text for details. | 47048–47056          | JN246927–JN247002,<br>JN389796–JN390424 | Lee, Yat-Hung;<br>Lin, Chung-Ping |

**Table 3** Information on other resources recently uploaded to the Molecular Ecology Resources program wiki (<http://tomato.biol.trinity.edu/programs/>). The authors are listed in the final column

| Species                         | Category  | Type of resource                                   | Authors  |
|---------------------------------|-----------|--|--|
| <i>Oncorhynchus tshawytscha</i> | Technique | Microsatellite allele ladder-based standardization | LaHood, Eric;<br>Schlei, Ora;<br>Wenburg, John;<br>Moran, Paul |