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## POJ

Regularities in simple sequence repeat variations induced by a cross of resynthesized Brassica napus and natural Brassica napus
Caihua Gao, Jiaming Yin, Annaliese S. Mason, Zhanglin Tang, Xiaodong Ren, Chao Li, Zeshan An, Donghui Fu*, Jiana Li*

Supplementary Table 1. Statistics data on the number of SSRs and band types amplified by 47 different primer pairs in an introgressed population and parental species.

| Primer pairs | Total number of bands | Total number of polymorphic makers | Number <br> of parental bands | $\begin{gathered} \hline \text { Number } \\ \text { of } \\ \text { parental } \\ \text { bands } \\ \text { sequenced } \\ \hline \end{gathered}$ | Number of abnormal bands | Number of eliminated bands | Number of novel bands | P-SSR ${ }^{\text {a }}$ | E-SSR ${ }^{\text {b }}$ | N-SSR ${ }^{\text {c }}$ | Total number of SSR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A125 | 21 | 17 | 8 | 4 | 13 | 4 | 9 | 5 | 6 | 8 | 19 |
| A17 | 4 | 4 | 0 | 0 | 4 | 4 | 0 | 0 | 5 | 0 | 5 |
| A224 | 11 | 8 | 6 | 3 | 5 | 1 | 4 | 3 | 1 | 4 | 8 |
| A241 | 2 | 2 | 0 | 0 | 2 | 2 | 0 | 0 | 2 | 0 | 2 |
| A290 | 6 | 6 | 0 | 0 | 6 | 6 | 0 | 0 | 8 | 0 | 8 |
| A291 | 6 | 6 | 0 | 0 | 6 | 6 | 0 | 0 | 6 | 0 | 6 |
| A293 | 3 | 3 | 0 | 0 | 3 | 3 | 0 | 0 | 6 | 0 | 6 |
| A321 | 9 | 3 | 6 | 0 | 3 | 3 | 0 | 0 | 3 | 0 | 3 |
| A322 | 3 | 3 | 0 | 0 | 3 | 3 | 0 | 0 | 3 | 0 | 3 |
| A34 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |


| A76 | 9 | 4 | 5 | 0 | 4 | 4 | 0 | 0 | 4 | 0 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A80 | 11 | 8 | 6 | 3 | 5 | 3 | 2 | 0 | 0 | 2 |
| A89 | 5 | 2 | 3 | 0 | 2 | 2 | 0 | 0 | 4 | 0 |
| A9 | 9 | 3 | 6 | 0 | 3 | 3 | 0 | 0 | 3 | 0 |
| cen10 | 6 | 3 | 3 | 0 | 3 | 3 | 0 | 0 | 0 | 0 |
| cen29 | 18 | 10 | 12 | 4 | 6 | 5 | 1 | 0 | 0 | 0 |
| cen39 | 20 | 13 | 14 | 7 | 6 | 5 | 1 | 0 | 4 | 0 |
| cen48 | 9 | 5 | 4 | 0 | 5 | 5 | 0 | 0 | 3 | 0 |
| cen56 | 8 | 5 | 3 | 0 | 5 | 5 | 0 | 0 | 1 | 0 |
| cen65 | 6 | 5 | 1 | 0 | 5 | 5 | 0 | 0 | 1 | 0 |
| cen68 | 7 | 2 | 5 | 0 | 2 | 2 | 0 | 0 | 2 | 0 |
| cen71 | 11 | 2 | 9 | 0 | 2 | 2 | 0 | 0 | 2 | 0 |
| H47 | 7 | 3 | 4 | 0 | 3 | 3 | 0 | 0 | 4 | 0 |
| H5 | 10 | 9 | 1 | 0 | 9 | 9 | 0 | 0 | 5 | 0 |
| H53 | 5 | 3 | 2 | 0 | 3 | 3 | 0 | 0 | 3 | 0 |
| H6 | 9 | 5 | 4 | 0 | 5 | 5 | 0 | 0 | 4 | 0 |
| Y104 | 11 | 4 | 7 | 0 | 4 | 4 | 0 | 0 | 0 | 0 |
| Y12 | 12 | 2 | 10 | 0 | 2 | 2 | 0 | 0 | 3 | 0 |
| Y24 | 6 | 2 | 4 | 0 | 2 | 2 | 0 | 0 | 2 | 0 |
| Y28 | 9 | 1 | 8 | 0 | 1 | 1 | 0 | 0 | 1 | 0 |
| Y3 | 12 | 8 | 4 | 0 | 8 | 8 | 0 | 0 | 2 | 0 |
| Y30 | 4 | 2 | 2 | 0 | 2 | 2 | 0 | 0 | 2 | 0 |
| Y34 | 18 | 14 | 4 | 0 | 14 | 14 | 0 | 0 | 0 | 0 |
| Y36 | 7 | 4 | 3 | 0 | 4 | 4 | 0 | 0 | 2 | 0 |
| Y49 | 11 | 10 | 7 | 6 | 4 | 0 | 4 | 0 | 6 | 0 |
| Y5 | 3 | 1 | 2 | 0 | 1 | 1 | 0 | 0 | 1 | 0 |


| Y51 | 3 | 2 | 1 | 0 | 2 | 2 | 0 | 0 | 1 | 0 | 1 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Y6 | 10 | 3 | 7 | 0 | 3 | 3 | 0 | 0 | 3 | 0 | 3 |
| Y61 | 8 | 6 | 4 | 2 | 4 | 4 | 0 | 1 | 3 | 0 | 4 |
| Y66 | 13 | 12 | 2 | 1 | 11 | 4 | 7 | 0 | 0 | 0 | 0 |
| Y73 | 4 | 4 | 0 | 0 | 4 | 4 | 0 | 0 | 2 | 0 | 2 |
| Y77 | 19 | 19 | 12 | 12 | 7 | 3 | 4 | 9 | 1 | 2 | 12 |
| Y8 | 15 | 1 | 14 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| Y80 | 7 | 7 | 0 | 0 | 7 | 7 | 0 | 0 | 6 | 0 | 6 |
| Y86 | 15 | 14 | 6 | 5 | 9 | 6 | 3 | 0 | 1 | 0 | 1 |
| Y88 | 14 | 5 | 9 | 0 | 5 | 5 | 0 | 0 | 0 | 0 | 0 |
| Y96 | 13 | 8 | 5 | 0 | 8 | 8 | 0 | 0 | 1 | 0 | 1 |
| TOTAL | 430 | 264 | 211 | 47 | 219 | 184 | 35 | 18 | 117 | 20 | 155 |
| Percentage (\%) |  | - |  | $10.9 \%$ | $50.9 \%$ | $42.8 \%$ | $8.1 \%$ | 11.6 | 75.5 | 12.9 | - |

a) SSRs detected in parental bands.
b) SSRs detected in eliminated bands.
c) SSRs detected in newborn bands.

Supplementary Table 2. SSR motifs and band types amplified from 47 different primer pairs in an introgressed population and parental species

| Name of primer pairs | Bands type | SSR 1 | SSR 2 |
| :---: | :---: | :---: | :---: |
| A125 | parental | (TA) 12 | - |
| A125 | parental | (T) 10 | (TA) 12 |
| A125 | eliminated | (T) 10 | (TA) 10 |
| A125 | eliminated | (T) 10 | (TA) 12 |
| A125 | parental | (TA)8 | - |
| A125 | parental | (TA) 7 | - |
| A125 | eliminated | (TA)8 | - |
| A125 | eliminated | (TA)8 | - |
| A125 | new | (T)10 | (TA) 8 |
| A125 | new | (T) 10 | (TA)11 |
| A125 | new | (T) 10 | - |
| A125 | new | (T) 10 | - |
| A125 | new | (T) 10 | - |
| A125 | new | (T)10 | - |
| A125 | new | - | - |
| A125 | new | - | - |
| A125 | new | - | - |
| A17 | eliminated | (TGA)6 | - |
| A17 | eliminated | (GGA)4 | (TGA)4 |
| A17 | eliminated | (TGA)6 | - |
| A17 | eliminated | (TGA)6 | - |
| A224 | eliminated | (AAAT)4-(AAGA)3 | - |
| A224 | parental | (AAAT)6-(AAGA)3 | - |
| A224 | parental | (AAAT)5-(AAGA)3 | - |
| A224 | parental | (AAAT)5-(AAGA)3 | - |
| A224 | new | (AAAT)4-(AAGA)3 | - |
| A224 | new | (AAAT)4-(AAGA)3 | - |
| A224 | new | (AAAT)4-(AAGA)3 | - |
| A224 | new | (AAAT)4-(AAGA)3 | - |
| A241 | eliminated | (AT) 9 | - |
| A241 | eliminated | (AT)7 | - |
| A290 | eliminated | (A)17 | (TA)7-(TA)22 |
| A290 | eliminated | (A)19 | (TA)8-(TA) 15 |
| A290 | eliminated | (A)19 | (AT)10-(TA) 17 |
| A290 | eliminated | (A)19 | (AT)8-(TA)18 |
| A290 | eliminated | - | - |
| A290 | eliminated | - | - |
| A291 | eliminated | (TAT) 10 | - |
| A291 | eliminated | (TAT) 11 | - |


| A291 | eliminated | (TAT) 12 | - |
| :---: | :---: | :---: | :---: |
| A291 | eliminated | (TAT) 15 | - |
| A291 | eliminated | (TAT) 15 | - |
| A291 | eliminated | (TTA) 5 | - |
| A293 | eliminated | (TG)7 | (GTG)4 |
| A293 | eliminated | (TG)7 | (GTG)4 |
| A293 | eliminated | (TG)7 | (GTG)4 |
| A321 | eliminated | (ATG) 4 | - |
| A321 | eliminated | (TGA)6 | - |
| A321 | eliminated | (TGA)4 | - |
| A322 | eliminated | (TAA) 9 | - |
| A322 | eliminated | (TAA) 11 | - |
| A322 | eliminated | (TAA)11 | - |
| A34 | eliminated | - | - |
| A76 | eliminated | (GAT)5-(TGA)4-(TGA)6 | - |
| A76 | eliminated | (ATG)4 | - |
| A76 | eliminated | (GAT)5-(TG | GA)6 |
| A76 | eliminated | (ATG)4 | - |
| A80 | eliminated | - | - |
| A80 | eliminated | - | - |
| A80 | eliminated | - | - |
| A80 | parental | - | - |
| A80 | parental | - | - |
| A80 | parental | - | - |
| A80 | new | (AT)5 | - |
| A80 | new | (AT)5 | - |
| A89 | eliminated | (CT)9 | (CAT)5-(CAT)4 |
| A89 | eliminated | (CT)9 | (CAT)5-(CAT)4 |
| A9 | eliminated | (CTC)6 | - |
| A9 | eliminated | (CTC) 6 | - |
| A9 | eliminated | (CTC)6 | - |
| cen10 | eliminated | - | - |
| cen10 | eliminated | - | - |
| cen10 | eliminated | - | - |
| cen29 | parental | - | - |
| cen29 | eliminated | - | - |
| cen29 | eliminated | - | - |
| cen29 | eliminated | - | - |
| cen29 | eliminated | - | - |
| cen29 | eliminated | - | - |
| cen29 | parental | - | - |
| cen29 | parental | - | - |
| cen29 | parental | - | - |
| cen29 | new | - | - |


| Cen39 | eliminated | (TA) 5 | - |
| :---: | :---: | :---: | :---: |
| Cen39 | eliminated | (AT) 10 | - |
| Cen39 | eliminated | (AT) 13 | - |
| Cen39 | eliminated | (AT) 10 | - |
| Cen39 | parental | - | - |
| Cen39 | parental | - | - |
| Cen39 | parental | - | - |
| Cen39 | eliminated | - | - |
| Cen39 | parental | - | - |
| Cen39 | parental | - | - |
| Cen39 | parental | - | - |
| Cen39 | parental | - | - |
| Cen39 | new | - | - |
| Cen48 | eliminated | (GA) 33 | - |
| Cen48 | eliminated | (GA)35 | - |
| Cen48 | eliminated | (GA) 34 | - |
| Cen48 | eliminated | - | - |
| Cen48 | eliminated | - | - |
| Cen56 | eliminated | (TC) 11 | - |
| Cen56 | eliminated | - | - |
| Cen56 | eliminated | - | - |
| Cen56 | eliminated | - | - |
| Cen56 | eliminated | - | - |
| Cen65 | eliminated | (TA)8 | - |
| Cen65 | eliminated | - | - |
| Cen65 | eliminated | - | - |
| Cen65 | eliminated | - | - |
| Cen65 | eliminated | - | - |
| Cen68 | eliminated | (T)12-(GA)8 | - |
| Cen68 | eliminated | (T)10-(GA) 10 | - |
| Cen71 | eliminated | (AG) 5 | - |
| Cen71 | eliminated | (AG) 5 | - |
| H47 | eliminated | (AG)7 | - |
| H47 | eliminated | (AG) 5 | (ACA)4-(TCCCT)3 |
| H47 | eliminated | (CT) 10 | - |
| H53 | eliminated | (AT) 8 | - |
| H53 | eliminated | (AT) 5 | - |
| H53 | eliminated | (AT) 17 | - |
| H5 | eliminated | (AG) 12 | - |
| H5 | eliminated | (AG) 12 | - |
| H5 | eliminated | (GA)10 | - |
| H5 | eliminated | (AG) 11 | - |
| H5 | eliminated | (AG) 12 | - |
| H5 | eliminated | - | - |


| H5 | eliminated | - | - |
| :---: | :---: | :---: | :---: |
| H5 | eliminated | - | - |
| H5 | eliminated | - | - |
| H6 | eliminated | (AT)9 | - |
| H6 | eliminated | (AT) 8 | - |
| H6 | eliminated | (AT) 5 | - |
| H6 | eliminated | (AT) 5 | - |
| H6 | eliminated | - | - |
| Y104 | eliminated | - | - |
| Y104 | eliminated | - | - |
| Y104 | eliminated | - | - |
| Y104 | eliminated | - | - |
| Y12 | eliminated | (ATAA)4-(AT)9 | - |
| Y12 | eliminated | (AT) 9 | (ATAA)4-(AT)8 |
| Y24 | eliminated | (CT)9 | - |
| Y24 | eliminated | (CT) 8 | - |
| Y28 | eliminated | (AG) 10 | - |
| Y3 | eliminated | (GAA)4 | - |
| Y3 | eliminated | (GAA)4 | - |
| Y3 | eliminated | - | - |
| Y3 | eliminated | - | - |
| Y3 | eliminated | - | - |
| Y3 | eliminated | - | - |
| Y3 | eliminated | - | - |
| Y3 | eliminated | - | - |
| Y30 | eliminated | (AT) 12 | - |
| Y30 | eliminated | (AT) 14 | - |
| Y34 | eliminated | - | - |
| Y34 | eliminated | - | - |
| Y34 | eliminated | - | - |
| Y34 | eliminated | - | - |
| Y34 | eliminated | - | - |
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| Y34 | eliminated | - | - |
| Y34 | eliminated | - | - |
| Y34 | eliminated | - | - |
| Y34 | eliminated | - | - |
| Y34 | eliminated |  | - |
| Y36 | eliminated | (GA)6-(GTCTG)4 | - |

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(TGAT)3-(GAT)17
(TGAT)3-(GAT)17
(TGAT)3-(GAT)17
(TGAT)3-(GAT)15
(TGAT)3-(GAT) 17
(TGAT)3-(GAT) 17
(TGAT)3-(GAT)14
(TGAT)3-(GAT)14
(TGAT)3-(GAT)14
(TGAT)3-(GAT)14
(CT) 8
(GAA)5-(AGA)5
(TGGTT) 3
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(AT)7-(AG)8
(AG) 15
(AG) 13
(AG) 14
(AG) 13
(AT)5-(AG) 13
(AG) 13
(AG) 14
(AG) 14
-
--(TGA)4
(TC)5-(CT)6
(TC) 11-(TTGAT)5
(TGA)5
(TGA)5
(TGA)4
(CAAAT)3-(GA)6

| Y96 | eliminated | - | - |
| :--- | :--- | :--- | :--- |
| Y96 | eliminated | - | - |
| Y96 | eliminated | - | - |
| Y96 | eliminated | - | - |
| Y96 | eliminated | - | - |

Supplementary Table 3. Details of primer pairs which produce bands that are eliminated and/or new bands in an introgressed population.

| Name | Forward sequence 5'-3' | F-TM $^{\text {a }}$ |  | Reverse sequence | R-TM $^{\text {b }}$ | Product size |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| A125 | AAACCAAGACCAGCCCATTT | 60.7 | GGTATGTCAGCAGTCACGTCC | 60.6 | 235 |  |
| A17 | CAAGGCGAAACAGAGAGGAG | 60.1 | ACATAGACGGGAACAGACGC | 60.1 | 218 |  |
| A224 | GACCAGCATCGCTTACGAAC | 60.8 | ACCCATTGGTCAAACGTGAG | 60.8 | 279 |  |
| A241 | TCCAGGGAAGAAGACCCTTT | 60.0 | CCGGCTGCAAAGAGTAGAAC | 60.0 | 144 |  |
| A290 | CAGAATCTTGTGCTTACCGTTGT | 60.6 | GTGGCAACTTATGGTGGCTT | 60.0 | 250 |  |
| A291 | ACATGTCAGCGACAAGTCTTAATAAC | 60.0 | CAGCAGTCAAGGAAGAAAGCA | 60.7 | 160 |  |
| A293 | ATGTGTGTGTGTGTGGGTCC | 60.2 | AGCCACATCAGAGCTCGAAA | 61.1 | 232 |  |
| A321 | TTGCTTCGGTATCCCATCTC | 60.0 | AATTTCAAATCCCCAGAAACG | 60.2 | 203 |  |
| A322 | TGCAGATAAAAGCTCTTAAGGACAA | 60.7 | ACACAAGAACTTGCCCCAAC | 60.0 | 264 |  |
| A34 | CAAACACACAAACAACCCACA | 60.3 | AATGCAGGTGTTGGGAGAAG | 60.1 | 271 |  |
| A76 | CGCTCGTTTCTTCGAATTGT | 60.4 | CCTCAACCCCACCACTATCA | 60.8 | 241 |  |
| A80 | GCATCCGTGCGAGTTAGAAT | 60.2 | GGTCCTCACGCAAAGATTGT | 60.1 | 267 |  |
| A89 | GTTGCCTCGGTCACATCTTT | 60.1 | TCGCCGTTGAGATAGGTTTC | 60.2 | 277 |  |
| A9 | CAACACCTCAGAGCCTTCGT | 60.4 | CTGTCGCCGTTCTCTTTCTC | 60.1 | 198 |  |
| Cen10 | GGCCTAAAAGAGGAGTTGGG | 60.1 | TGTGTGACCCCTCAAACTGA | 60.1 | 316 |  |
| Cen29 | GCTTCTTCTGCACCACCTTC | 60.0 | GATGATGGCAAATGGGAAAC | 60.1 | 438 |  |
| Cen39 | GACAGCGACACTTGCGTAAA | 60.1 | CTTTTCTTCTCGACGTTGCC | 60.0 | 438 |  |
| Cen48 | GGTGCCTTGTCCCTACAAAA | 60.0 | AAATATCTTCCCAGGCCCAC | 60.2 | 436 |  |
| Cen56 | GGAACGACTTCCTCCCGTAT | 60.3 | TGTTTAGAGAATGGGGACCG | 59.9 | 426 |  |
| Cen65 | AATTTTTAAGCCCGCATCG | 60.0 | TTATCCGCATGGTTTGAGAA | 59.1 | 191 |  |
| Cen68 | TTCGAATTTCATCACCACGA | 60.0 | CAACGGTCCGTAACTGGTCT | 60.0 | 328 |  |


| Cen71 | GACTGTTGGAGCATGGGTTT | 60.0 | CTCACGCCTCAGCTCTCTCT | 60.0 | 485 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Y104 | AAAGCGAAGAACACGGAAAC | 59.4 | CTTGTCCGGTCAGATTTGGT | 60.0 | 361 |
| Y12 | CATAACTCGGGGTCCAAAAA | 59.8 | CTTTCTCGATCCTCCCCTTC | 60.1 | 372 |
| Y24 | GGTCTTGCTTGGAGTTCGAG | 60.0 | GAAACATTTCGTCAGCAGCA | 60.0 | 202 |
| Y28 | TATGCAAAACCCACAGGTCA | 60.0 | AATGTCGAAAAGGTCGCATC | 60.1 | 134 |
| Y3 | AGAAGAAAATGGGCATCGTG | 60.1 | GAGTAGGCTCAGTGCGTTCC | 60.0 | 152 |
| Y30 | GGTTGTCCAGAGGACCAGAA | 60.1 | TGTCATGTCGGTTCGTGACT | 60.2 | 354 |
| Y34 | GATTTGGGATGGGGAAAGTT | 60.0 | TTACCCTACCGAAAACGACG | 60.0 | 302 |
| Y36 | TGATTGCTCGTTGACCAGAG | 60.0 | GCGTGCGAGAGAATCTTACC | 60.0 | 348 |
| Y49 | TCGGTTTCCTGAGCTGAAGT | 60.0 | TCGTGGCGACTCTTCTTTTT | 60.0 | 339 |
| Y5 | TTACCCACCTTGGCTTCATC | 59.9 | GCGTTTCGTCCTCTTCTCAC | 60.0 | 154 |
| Y51 | CTTCCAAGCTCATACCCGAA | 60.2 | CACACGACGTCTCTTTGCAC | 60.5 | 109 |
| Y6 | CTGCAACAATGCAAACAACC | 60.2 | TTGCGAAACGAGAGACAATG | 60.0 | 277 |
| Y61 | GAACAGTCTACAGCCGGAGC | 60.0 | ACCGACCTACAAATACCCCC | 59.9 | 242 |
| Y66 | TCATTTCTCCCGACCATAGC | 60.0 | ACTATGCATGTTTGCCCCTC | 60.0 | 362 |
| Y73 | CTTCGTCTCTCTGTCCCCTG | 60.0 | GAACCGTGATCCGTCGTACT | 60.0 | 379 |
| Y77 | TGCTCTCGTTGCATACCTTG | 60.0 | TATGATTTGCTTTGCTTGCG | 60.0 | 264 |
| Y8 | ACCTTTGAACGGTTGGTCAG | 60.0 | CGCGGGTGTTTATTTTCAGT | 60.0 | 311 |
| Y80 | ATTGAACCCGATTGGACTTG | 59.8 | TGCTAACTGCATGCAACCTC | 60.0 | 239 |
| Y86 | CAACGAAAACAGATCGAGCA | 60.0 | GTCGGAGAGATGGATGGAGA | 60.2 | 359 |
| Y88 | TTCTCTCCATGTTGTGCGTC | 59.8 | ACAAGACGGCAAAGATTGCT | 59.9 | 380 |
| Y96 | TGCTCTGGCTCTTTCGGTAT | 60.0 | TTTAGCGTGTGAGCATCTCC | 59.0 | 315 |
| H47 | GGAAGCCTCTGTGCGAAAAA | 52.0 | TGCCGACGATTTGATAGAGGA | 52.0 | 175 |
| H5 | GGAATCCTACGGAAGAGCAA | 52.0 | AAGGTAACGGTGGCAGTGAG | 54.0 | 150 |
| H53 | CCCAAATACGAAAACAAAGTTTGAC | 53.0 | AGGATCTCATCCGCTTTCCA | 52.0 | 137 |
| H6 | CGAGTTTTTGTGTGTACGTATAGTAAT | 54.0 | CCAAAGTGCGTAAAGGAAGG | 52.0 | 305 |

a) Melting temperature of forward sequences
b) Melting temperature of reverse sequences

