Table S2. Table of primers, their sequence, and their specific use.

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| Primer name | Primer sequence (5’ to 3’) | Use(s) |
| AtU626\_F1 | CTTCAAAAGTCCCACATCGC | Verifying transgene sequence; event genotyping |
| sgRNA\_R1 | GCCGCCAGTGTGATGGATA | Verifying transgene sequence; event genotyping |
| Cas9\_F1 | CACGACGGAGACTACAAGGA | Verifying transgene sequence; event genotyping |
| Cas9\_R1 | TCCTTGTAGTCTCCGTCGTG | Verifying transgene sequence; event genotyping |
| Cas9\_mid\_F1 | GTGGCCTATTCTGTGCTGGT | Verifying transgene sequence; event genotyping |
| Cas9\_end\_F2 | CCTACAACAAGCACCGGGAT | Verifying transgene sequence; event genotyping |
| tnos\_R2 | AACGATCGGGGAAATTCGAG | Verifying transgene sequence; event genotyping |
| RB\_F1 | GAAGGCGGGAAACGACAATC | Verifying transgene sequence; event genotyping |
| RB\_R1 | CGGATAAACCTTTTCACGCCC | Verifying transgene sequence; event genotyping |
| LFY\_seq\_F1 | CCTGTTAAGGGCAGTTTTGG | Sequencing *PLFY* in both clones |
| LFY\_seq\_F7 | TGCAGGGAACCAAATGTGTG | Sequencing *PLFY* in both clones |
| LFY\_R2 | AACCTTCTTGGGAGAGAGCA | Sequencing *PLFY* in both clones |
| AG\_seq\_F1 | AGTTTGTGTTTTGGATCAGC | Sequencing *PAG1* in both clones |
| AG1\_seq\_F1 | GTTGTCACTCAGTTTGTGTTTTGGA | Sequencing *PAG1* in both clones |
| AG1\_seq\_R4 | GACAGCGACCACATGC | Sequencing *PAG1* in both clones |
| AG2\_seq\_F1 | TGCTGTCTTCACCCAGTTTGT | Sequencing *PAG2* in both clones |
| AG2\_seq\_R5 | AAAACCTTGACACCAGGCTCC | Sequencing *PAG2* in both clones |
| AG1I\_F2 | TCACTCAGTTTGTGTTTTGGATCAG | Sequencing allele one of *PAG1* in 717 |
| AG1II\_F1 | CACTCAGTTTGTGTTTTGGATCATC | Sequencing allele two of *PAG1* in 717 |
| AG2I\_R4 | TTTGCAACATGGAGAATTCATGAGCT | Sequencing allele one of *PAG2* in 717 |
| AG2II\_R4 | CTTGCAACATGGAGAATTCATGAGCA | Sequencing allele two of *PAG2* in 717 |
| AG1I\_353\_F1 | CCCTTGAGAGCTCCCCAC | Sequencing allele one of *PAG1* in 353 |
| AG1II\_353\_F1 | CCTTGAGAGCTCCCCCC | Sequencing allele two of *PAG1* in 353 |
| AG2I\_353\_R2 | TGCAACATGGAGAATTCATGAGC | Sequencing allele one of *PAG2* in 353 |
| AG2II\_353\_R2 | TGCAACATGGAGAATTCATGAGA | Sequencing allele two of *PAG2* in 353 |
| P1G254500\_F | TGTTGGTGCTTTCGATACCCT | Sequencing off-target Potri.001G254500 |
| P1G254500\_R | ACGGTTAGATAAAGAATCAGTCACA | Sequencing off-target Potri.001G254500 |
| P9G049600\_F | TGGGTTTTCTTTCTTTTGGATTCT | Sequencing off-target Potri.009G049600 |
| P9G049600\_R | AGATCACAAACCACATTCATAAACA | Sequencing off-target Potri.009G049600 |
| OffAG\_5F1 | TAGGGTTTTCGAGCCTGGTG | Sequencing off-target Potri.005G156900 |
| OffAG\_5R1 | TCTCCCCAGAACCAAACCTGA | Sequencing off-target Potri.005G156900 |
| OffAG\_13F1 | TGGAAACAGCTTTGCACTTCC | Sequencing off-target Potri.013G104900 |
| OffAG\_13R1 | ATGGTATGAAGATTTAGGGAAGGT | Sequencing off-target Potri.013G104900 |
| OffAG\_19F1 | AGAAACAGATTTGCACACCCT | Sequencing off-target Potri.019G077200 |
| OffAG\_19R1 | AGACCTAGTGATCTGTGAGAAAGA | Sequencing off-target Potri.019G077200 |