**Supplementary table 6**

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| **Copy number determination** |
| **Target** | **Forward primer** | **Reverse primer**  | **Probe** |
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| mCherry | GAGGCTGAAGCTGAAGGAC | GATGGTGTAGTCCTCGTTGTG | FAM-CCAACTTGATGTTGACGTTGTAGGCG-TAMERA |
| HptII | GGATTTCGGCTCCAACAATG | TATTGGGAATCCCCGAACATC | FAM-CAGCGGTCATTGACTGGAGCGAGG-TAMERA |
| Constans like | TGCTAACCGTGTGGCATCAC | GGTACATAGTGCTGCTGCATCTG | VIC-CATGAGCGTGTGCGTGTCTGCG-TAMERA |

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| **PCR primers** | **Binding site/Purpose** |
| F1 | TGCCAAAGTGCTACATCAGC | Flanking left homology arm |
| R1 | AAGCGCATGAACTCCTTGAT | Flanking right homology arm |
| F2 | CACTACGACGCTGAGGTCAA | Internal mCherry |
| R2 | GGCTTGGTGGAGTATGCAGT | Flanking right homology arm |
| R3 | CGTGATGTCATAGCCTGCAT | Flanking right homology arm |
| F4 | CAACGTGGAGACAAGAAGCA | Flanking target site A/indel detection |
| R5 | TCCTTGAGCCGAACCAATATCAC | Flanking target site B/indel detection |

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| **Sequencing primers** | **Purpose** |
| Seq1 | TCAGCAGAGGTTAGCCTTTGTAG | Sequencing left junction and full length PCRs |
| Seq2 | CCTGGCGAGTTATTAAGAAAACCA | Sequencing left junction and full length PCRs |
| Seq3 | AGCCAGCTCCAGTTTTGTTC | Sequencing left junction and full length PCRs |
| Seq4 | CATCAAGGAGTTCATGCGCTT | Sequencing left junction and full length PCRs |
| Seq5 | GACGGCGAGTTCATCTACAAG | Sequencing full length PCRs |
| Seq6 | CAAGACCACCTACAAGGCCAA | Sequencing right junction and full length PCRs |
| Seq7 | ACCCAGACCCAGCCATGTT | Sequencing right junction and full length PCRs |
| Seq8 | CATCCCACCACCACAGCA | Sequencing right junction and full length PCRs |
| Seq9 | AGCCCTTCTCGTTCGGACATT | Sequencing right junction and full length PCRs |
| Seq10 | TGGTTTTCTTAATAACTCGCCAGG | Sequencing left junction and full length PCRs |
| Seq11 | AACATGGCTGGGTCTGGGT | Sequencing right junction and full length PCRs |

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| **Chromosome walking** |
| **T-DNA Right border walk** | **T-DNA Left border walk** |
| Rb\_SP1 | TGAGACCGAGGATGCACATGTG | Lb\_SP1 | ATTTCTTGTGTGCAACTCCGGGAA |
| Rb\_SP2 | CATGTGACCGAGGGACACGAAGT | Lb\_SP2 | GCCGTTTGTTGCCGCCTTTGTACAACCCCAGT |
| Rb\_SP3a | AAGTGATCCGTTTAAACTNNNNNNNNNNNNCAGGAT | Lb\_SP3a | CCCAGTCATCGTATATACNNNNNNNNNNNNCGTTAT |
| Rb\_SP3b | ACGAAGTGATCCGTTTAANNNNNNNNNNNNTGACAG | Lb\_SP3b | TATATACCGGCATGTGGANNNNNNNNNNNNACGTAG |

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| **Construct assembly** |
| Protospacer A | GTGACCATGGAGGACGTGGT |
| Protospacer B | GACGGCGGCCACGACCTCCA |
| Repair template | gacggcggccacgacctccacggaagcatgtcaaatttgactcaatttattttttgccaagaaattgtcgtgcttgcaaacttaatttgccaccctgacgccaatataaattgccatacaaaatgtttgatttgccatgcctaattttttagcatttttgtttcttttatcattagccattatcttcttctttttaaaatcttatagtatgcaaatctaataagattcctggcgagttattaagaaaaccagattctcattattttttcctttgcaaaaaagagaagattctctctctctcttacaacgattctcattctccggctcaaaaaaaagtttgtttctcattctcttcctgcttaatgcaatcggtattttttttttgaggggaacttaatgcaatcagtagagtgcttgcctcgttgctggaaaaagaattgatgatccatgtgatttaacgagaaaaacaaagtccgcccatggtgcccaatattttaggcccagttgggatggtagaacctgctgctggagccagctccagttttgttcgccgaatgccgagtcccggcgcccagggatggctataaataagcgagctcccgtgtccttgtgtacttgtaaaatctgtgctccctgcccaccgctctcccctcggttcccacgcgccaaaacattccaacgtggagacaagaagcagcatagcgtgacaacgagggagggagccatggacgtgaccatggaggacgtgatggtgagcaagggcgaggaggataacatggccatcatcaaggagttcatgcgcttcaaggtgcacatggagggctccgtgaacggccacgagttcgagatcgagggcgagggcgagggccgcccctacgagggcacccagaccgccaagctgaaggtgaccaagggtggccccctgcccttcgcctgggacatcctgtcccctcagttcatgtacggctccaaggcctacgtgaagcaccccgccgacatccccgactacttgaagctgtccttccccgagggcttcaagtgggagcgcgtgatgaacttcgaggacggcggcgtggtgaccgtgacccaggactcctccctgcaggacggcgagttcatctacaaggtgaagctgcgcggcaccaacttcccctccgacggcccagtaatgcagaagaaaaccatgggctgggaggcctcctccgagcggatgtaccccgaggacggcgccctgaagggcgagatcaagcagaggctgaagctgaaggacggcggccactacgacgctgaggtcaagaccacctacaaggccaagaagcccgtgcagctgcccggcgcctacaacgtcaacatcaagttggacatcacctcccacaacgaggactacaccatcgtggaacagtacgaacgcgccgagggccgccactccaccggcggcatggacgagctgtacaagctccacggcctgatcgagtccatgctctgcgatgacactctcatcggcacgcccgagcccgacgagcacccagacccagccatgttcacggacggcccctgctactccaacggctccgacccgagcagcaccaccacgacgaacccgggcacgcccgtgcagcacgacgacgacctgccgcaggactgcaatcccgagaagggactccggctgcttcacctgctcatggccgccgccgaggcgctctccggcccgcacaagagccgggagctggcacgggtgatattggttcggctcaaggagatggtctccagcaccagcggcaacgctgccgcgtccaacatggagcgcctcgccgcccacttcaccgacgcgctccaggggctcctcgatgggtcccactccgtcgctgggaccagcaggcaggccgcatcccaccaccacagcaccggcgacgtgttgacggcattccagatgctccaggacatgtcgccctacatgaagttcggccacttcaccgcgaaccaggcgatcctggaggcggtggcgggcgaccggcgcgtccacatcccaccacgtcctccatggtcac |
| Extended repair template | ttatataagcgctattgaactttggaacgaacgaaattgctgcacttttcaagtaaacagtttgcggtcattgtggcagctagcgcgcttccgctgccaagatttttcttcttcttgagaacaccttgccaaagtgctacatcagcagaggttagcctttgtagatggtattgggcttatattgggttccatgggcggagtttgtttttcgaacaccagatttataggcatggtaaatcaaatgtttttatggcacatatgtgttcgctgaggatggcaagtttagttaacagagacggcggccacgacctccacggaagcatgtcaaatttgactcaatttattttttgccaagaaattgtcgtgcttgcaaacttaatttgccaccctgacgccaatataaattgccatacaaaatgtttgatttgccatgcctaattttttagcatttttgtttcttttatcattagccattatcttcttctttttaaaatcttatagtatgcaaatctaataagattcctggcgagttattaagaaaaccagattctcattattttttcctttgcaaaaaagagaagattctctctctctcttacaacgattctcattctccggctcaaaaaaaagtttgtttctcattctcttcctgcttaatgcaatcggtattttttttttgaggggaacttaatgcaatcagtagagtgcttgcctcgttgctggaaaaagaattgatgatccatgtgatttaacgagaaaaacaaagtccgcccatggtgcccaatattttaggcccagttgggatggtagaacctgctgctggagccagctccagttttgttcgccgaatgccgagtcccggcgcccagggatggctataaataagcgagctcccgtgtccttgtgtacttgtaaaatctgtgctccctgcccaccgctctcccctcggttcccacgcgccaaaacattccaacgtggagacaagaagcagcatagcgtgacaacgagggagggagccatggacgtgaccatggaggacgtgatggtgagcaagggcgaggaggataacatggccatcatcaaggagttcatgcgcttcaaggtgcacatggagggctccgtgaacggccacgagttcgagatcgagggcgagggcgagggccgcccctacgagggcacccagaccgccaagctgaaggtgaccaagggtggccccctgcccttcgcctgggacatcctgtcccctcagttcatgtacggctccaaggcctacgtgaagcaccccgccgacatccccgactacttgaagctgtccttccccgagggcttcaagtgggagcgcgtgatgaacttcgaggacggcggcgtggtgaccgtgacccaggactcctccctgcaggacggcgagttcatctacaaggtgaagctgcgcggcaccaacttcccctccgacggcccagtaatgcagaagaaaaccatgggctgggaggcctcctccgagcggatgtaccccgaggacggcgccctgaagggcgagatcaagcagaggctgaagctgaaggacggcggccactacgacgctgaggtcaagaccacctacaaggccaagaagcccgtgcagctgcccggcgcctacaacgtcaacatcaagttggacatcacctcccacaacgaggactacaccatcgtggaacagtacgaacgcgccgagggccgccactccaccggcggcatggacgagctgtacaagctccacggcctgatcgagtccatgctctgcgatgacactctcatcggcacgcccgagcccgacgagcacccagacccagccatgttcacggacggcccctgctactccaacggctccgacccgagcagcaccaccacgacgaacccgggcacgcccgtgcagcacgacgacgacctgccgcaggactgcaatcccgagaagggactccggctgcttcacctgctcatggccgccgccgaggcgctctccggcccgcacaagagccgggagctggcacgggtgatattggttcggctcaaggagatggtctccagcaccagcggcaacgctgccgcgtccaacatggagcgcctcgccgcccacttcaccgacgcgctccaggggctcctcgatgggtcccactccgtcgctgggaccagcaggcaggccgcatcccaccaccacagcaccggcgacgtgttgacggcattccagatgctccaggacatgtcgccctacatgaagttcggccacttcaccgcgaaccaggcgatcctggaggcggtggcgggcgaccggcgcgtccacatcccaccacgtcctccatggtcactgtgcgtggactacgacctcgccgagggcatccagtgggcgtccctgatgcaggctatgacatcacgacccgatggcgtgtcgcctccgcacctgcgtatcaccgccatcacgcggagtggcgggggcggcgcgcgggcagtccaggaggccggacggcgcctcgcggccttcgcggggtccatcgggcagcccttctcgttcggacattgccgtctggactcggacgagaggttccggccggcgaccgtcaggatggtcaagggggagacgctcgtggccaactgcatactccaccaagccgcggcgacgaccaccgtcagacggcccaccggctcggtggcgtccttcttgaccggcatggcctctctcggggccaaggtggtgacggtggtggaggaggaaGuide target sitesHomology arm extensionsPolymorphisms not expected in GT eventsLeft homology armmCherryRight homology arm |
| LIR | agtagcaagcagaagcccggcaggtccttagcgaaaaaacggggtgtgctcgcgaactctactctctaccctgcgtgggagtgtgcagaattcacaccgatgggctcggtgtccacggtttaaatattgcaggtttaggtgggaacgcgggaccctgtcttttcggcgcgaaagcgacgggtggtcccgcgtgtggtttgtggctcggggacccgccacgcaggaatctaatattaccctgcgtggcgggtcccgaggcgcactcggcttttcgtgagtgcgccgaggcttttggaccacgtctttatgtcatcacatcaattattggtggtgagtcatcacatattccacctgcaattatgtgccatcgcttagcttataaggaagtgtcggggaaggtatctcg |
| SIR-REP-LIR | acggagtggatgaacacgggtgacggcaagataggcgatattaagaagggtgccctgtatctagtaacctgtactcgtggaggtatcactggagacagtgcctccatttcattcgaagttgtatgtgcctatacgcacgcgtgttacttcaaatccattgggattcaataaataaaatagtattttattcatctcatgtcattcgattacagatgctcggctacgagcaaagataaaccaaactatgacatacaacacactcataaccaaaacatcgaaaaaagaaatacaaggggcgagatcacacaattttagaaaccgtagccgtccgcgctaggacagtcactgcgaagcagtgacattttcgccgaaggcgaagaatgattcaccctcatacatataatgtatcacagcgttagagtacatgtaatccgactgttcaggagtcatatccttgagccaatcttcgtctgggttaactaaaatgatgcaaggtataccaccccgtatcatttttcgcttcccgtacttaggattgacggtgaagtcacgctgagccccgacgaagcacttccagtttggcgtgaacttgaatggaatgtcgtcaattatgttgtacttggcgttgacgtcataggtcgtgaaatcaactaggctgttgtagtagttgtggatccctagagatcttgcccaggaagtctttcctgttcttgtcggaccgcagatgtagatggacttatgccgtcccggtgactcctggaataatcgtccatccactctaaatcagttacggccttatccgcaggagttgaagtacaaaggatatatgattcgaggcttacggagtagagatgttcatttttccagctttcaatggtctcatgacacatgagggactcgatgggaaactcaggtgtgtaagtgctaactgggtctgggaataggtggcgtgcagtgtattcgaagtctttcagacggatagaccattcaaacggaaaacgatggcagaccatgctgagaaattcctctctcgaggtactcgactcaatgatctgtttcatatccgcgtctcggtctttacgacccggagtggtaactgctacgaatgttccccactcagccgtgttgacatcggagtcaacctccttcatgatgtaatcacgaacttggttgcagtctttggcagcttgaatgttaggatgaaaaaatgaaaatggtgatgtgttcataccaatgttgagagcattgggattggtgatggaagcacgaagcttgttttgcacgagtacgtgcagatgtggtgatccatcttcgtggagttccctaactgcagctatgtacagaggttcatatttggccaagagagtgcgaagagagtccaaggcgtactgtggctctaggatgcattgaggatatgttaggaagaggtatttggaatagacacggaacctgggtgcagatgaagaggccatagtagcaagcagaagcccggcaggtccttagcgaaaaaacggggtgtgctcgcgaactctactctctaccctgcgtgggagtgtgcagaattcacaccgatgggctcggtgtccacggtttaaatattgcaggtttaggtgggaacgcgggaccctgtcttttcggcgcgaaagcgacgggtggtcccgcgtgtggtttgtggctcggggacccgccacgcaggaatctaatattaccctgcgtggcgggtcccgaggcgcactcggcttttcgtgagtgcgccgaggcttttggaccacgtctttatgtcatcacatcaattattggtggtgagtcatcacatattccacctgcaattatgtgccatcgcttagcttataaggaagtgtcggggaaggtatctcg |