**Table S1.** Primers used for PCR amplifications and sequencing. Mismatches are indicated in red. Underlined are the sequences used for NGS library construction.

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| **Name** | **Sequence (5’-3’)** | **Application** |
| ABA\_uF | TACTCCTCCAAGAACCCCAAC | Pair of common primers used for amplification of TsABA8’OH sequences prior to cloning and Sanger sequencing |
| ABA\_uR | AAGGTGAAGGAGAGGATGGA |
| ABA2\_ngsF | TCGTCGGCAGCGTCAGATGTGTATAAGAGACAGAAGAACCCCAACGTCTTCTT | Pair of common primers used for amplification of sequences targeted by gRNA-ABA/1/364 prior to deep sequencing. Library construction adapters were underlined. |
| ABA2\_ngsR | GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGGCACTCACAGTCTTCATCTC |
| ABA3\_ngsF | TCGTCGGCAGCGTCAGATGTGTATAAGAGACAGATTGTGGCCCACATCATCTC | Pair of common primers used for amplification of sequences targeted by gRNA-ABA/2/323 prior to deep sequencing. Library construction adapters were underlined. |
| ABA3\_ngsR | GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGCCTTCTCCCTCGCGATCTC |
| RABex1F | GGCCCATCTTCAAGACGCA | Common forward primer used in pairs with one of three genome specific primers in T7EI assay. |
| Aex3R | GGCGTGCTCTTCCTGTTGATTGAAT | Genome A-specific primer used for PCR amplification in T7EI assay. Notice additional mismatch introduced to improve its specificity in third position to 3’ end (marked red). |
| Bex3R | GGCATGCTCTTCCTGTTAATTGATG | Genome B-specific primer used for PCR amplification in T7EI assay. Notice additional mismatch introduced to improve its specificity in third position to 3’ end (marked red). |
| Rex3R | AGCGTGCTCTTCCTGTTATTTGATC | Genome R-specific primer used for PCR amplification in T7EI assay. Notice additional mismatch introduced to improve its specificity in third position to 3’ end (marked red). |