**Table 1. Ploidy assignments of specimens with an estimated coverage above four.**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Accession | Taxonomya | % wind 1n | % wind 2n | % wind 3n | % wind 4n | Ploidy | Genomic clusterb | Admixture (*K*=3) |
| 1915269 | Hybrid | 0 | 100 | 0 | 0 | diploid | NA | admixed three gene pools |
| JOL3002 | *M. longifolia* | 26 | 74 | 0 | 0 | diploid | long | not admixed long |
| JOL3005 | *M. longifolia* | 0 | 55 | 45 | 0 | no conclusion | long | not admixed long |
| JOL3029 | *M. longifolia* | 0 | 100 | 0 | 0 | diploid | long | not admixed long |
| TTy05-con | *M. longifolia* | 100 | 0 | 0 | 0 | likley diploid | long | not admixed long |
| 1872252 | *M. longifolia* | 0 | 0 | 100 | 0 | likely polyploid | rot3 | admixed sua-long |
| 1477866 | *M. longifolia* | 0 | 99 | 0 | 1 | diploid | spi2 | admixed long-spi1 |
| JOL3028 | *M. longifolia* | 0 | 0 | 100 | 0 | likely polyploid | spi2 | admixed long-spi1 |
| 2160258 | *M. spicata* | 0 | 0 | 0 | 100 | polyploid | NA | admixed three gene pools |
| JOL3031 | *M. spicata* | 0 | 0 | 100 | 0 | likely polyploid | NA | not admixed long |
| 1447196 | *M. spicata* | 0 | 0 | 100 | 0 | likely polyploid | spi1 | not admixed spi1 |
| 1996411 | *M. spicata* | 0 | 0 | 100 | 0 | likely polyploid | spi1 | not admixed spi1 |
| OHN-207579 | *M. spicata* | 0 | 0 | 100 | 0 | likely polyploid | spi1 | not admixed spi1 |
| 1807907 | *M. spicata* | 0 | 55 | 45 | 0 | no conclusion | spi2 | admixed long-spi1 |
| 1877008 | *M. spicata* | 0 | 0 | 100 | 0 | likely polyploid | spi2 | admixed long-spi1 |
| 2055300 | *M. spicata* | 0 | 0 | 0 | 100 | polyploid | spi2 | admixed long-spi1 |
| 2057565 | *M. spicata* | 0 | 0 | 0 | 100 | polyploid | spi2 | admixed long-spi1 |
| 2065543 | *M. spicata* | 0 | 0 | 0 | 100 | polyploid | spi2 | admixed long-spi1 |
| 1471206 | *M. suaveolens* | 0 | 100 | 0 | 0 | diploid | sua | not admixed sua |
| 2069185 | *M. suaveolens* | 100 | 0 | 0 | 0 | likley diploid | sua | not admixed sua |
| snF6812 | *M. suaveolens* | 0 | 0 | 100 | 0 | likely polyploid | sua | not admixed sua |
| 1394733 | *M. ×* *rotundifolia* | 0 | 100 | 0 | 0 | diploid | long | not admixed long |
| 1915397 | *M. ×* *rotundifolia* | 0 | 0 | 0 | 100 | polyploid | rot1 | admixed sua-long |
| JOL3024 | *M. ×* *rotundifolia* | 0 | 0 | 100 | 0 | likely polyploid | rot1 | admixed sua-long |
| JOL3045 | *M. ×* *rotundifolia* | 0 | 0 | 100 | 0 | likely polyploid | rot1 | admixed sua-long |
| JOL3034 | *M. ×* *rotundifolia* | 0 | 0 | 100 | 0 | likely polyploid | rot2 | admixed sua-long |
| JOL3035 | *M. ×* *rotundifolia* | 0 | 100 | 0 | 0 | diploid | rot2 | admixed sua-long |
| 1986733 | *M. ×* *rotundifolia* | 0 | 0 | 100 | 0 | likely polyploid | rot3 | admixed sua-long |
| 1472586 | *M. ×* *rotundifolia* | 0 | 0 | 100 | 0 | likely polyploid | rot4 | admixed long-spi1 |
| 1493167 | *M. ×* *rotundifolia* | 0 | 0 | 4 | 96 | polyploid | rot4 | admixed long-spi1 |
| 1752656 | *M. ×* *rotundifolia* | 0 | 0 | 100 | 0 | likely polyploid | spi1 | not admixed spi1 |
| 1866263 | *M. ×* *villosa* | 0 | 0 | 0 | 100 | polyploid | NA | admixed three gene pools |

aBased on morphological assignment (Figure 1)

bFigure 2