

Supplemental Table 1: List of indel and SSR markers assessed for technical performance

| Marker | Chromosome | Position | Marker type |
|------------------------|------------|----------|-------------|
| 1_21705593 | 1 | 21705593 | Indel |
| 1_27801952 | 1 | 27801952 | Indel |
| 1_32254725 | 1 | 32254725 | Indel |
| 1_34198604 | 1 | 34198604 | Indel |
| 1_36293501 | 1 | 36293501 | Indel |
| 1_37231928 | 1 | 37231928 | Indel |
| 1_37588170 | 1 | 37588170 | Indel |
| 1_37698557 | 1 | 37698557 | Indel |
| 1_37724349 | 1 | 37724349 | Indel |
| 1_37796891 | 1 | 37796891 | Indel |
| 1_37903562 | 1 | 37903562 | Indel |
| Os01g0874100 | 1 | 37918160 | Indel |
| 1_39501901 | 1 | 39501901 | Indel |
| MSU6_2_973068_[Indel] | 2 | 973068 | Indel |
| MSU6_2_3949702_[Indel] | 2 | 3949702 | Indel |
| MSU6_2_5241905_[Indel] | 2 | 5241905 | Indel |
| 2_7499561 | 2 | 7499561 | Indel |
| 2_8594377 | 2 | 8594377 | Indel |
| 2_9003534 | 2 | 9003534 | Indel |
| 2_10315707 | 2 | 10315707 | Indel |
| 2_10865762 | 2 | 10865762 | Indel |
| 2_11120246 | 2 | 11120246 | Indel |
| 2_11265804 | 2 | 11265804 | Indel |
| 2_13611036 | 2 | 13611036 | Indel |
| 3_179286 | 3 | 179286 | Indel |
| 3_190373 | 3 | 190373 | Indel |
| 3_1850409 | 3 | 1850409 | Indel |
| 3_2163413 | 3 | 2163413 | Indel |
| 3_3775875 | 3 | 3775875 | Indel |
| 3_4519585 | 3 | 4519585 | Indel |
| 3_4800740 | 3 | 4800740 | Indel |
| 3_7018296 | 3 | 7018296 | Indel |
| 3_7035021 | 3 | 7035021 | Indel |
| 3_7231633 | 3 | 7231633 | Indel |
| 3_8062383 | 3 | 8062383 | Indel |
| 3_27422379 | 3 | 27422379 | Indel |
| 3_28739422 | 3 | 28739422 | Indel |
| LOC_Os03g50470 | 3 | 28798244 | Indel |
| 3_28965396 | 3 | 28965396 | Indel |
| 3_28975124 | 3 | 28975124 | Indel |
| 3_29117723 | 3 | 29117723 | Indel |
| 3_29604053 | 3 | 29604053 | Indel |
| 3_29660435 | 3 | 29660435 | Indel |
| 3_33106036 | 3 | 33106036 | Indel |
| 3_33118992 | 3 | 33118992 | Indel |
| 3_34931082 | 3 | 34931082 | Indel |
| 3_35574371 | 3 | 35574371 | Indel |
| MSU6_4_196102_[Indel] | 4 | 196102 | Indel |

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| MSU6_4_1068894_[Indel] | 4 | 1068894 | Indel |
| MSU6_4_1329641_[Indel] | 4 | 1329641 | Indel |
| MSU6_4_1977984_[indel] | 4 | 1977984 | Indel |
| MSU6_4_2281606_[Indel] | 4 | 2281606 | Indel |
| MSU6_4_17302271_[Indel] | 4 | 17302271 | Indel |
| MSU6_4_17414046_[Indel] | 4 | 17414046 | Indel |
| MSU6_4_17536240_[Indel] | 4 | 17536240 | Indel |
| MSU6_4_17987548_[Indel] | 4 | 17987548 | Indel |
| MSU6_4_18081825_[Indel] | 4 | 18081825 | Indel |
| MSU6_4_18349442_[Indel] | 4 | 18349442 | Indel |
| MSU6_4_19012894_[Indel] | 4 | 19012894 | Indel |
| MSU7_5_438902_[0/-35] | 5 | 438902 | Indel |
| MSU7_6_1767284_[Indel] | 6 | 1767284 | Indel |
| MSU7_6_6754433_[Indel] | 6 | 6754433 | Indel |
| 7_218555 | 7 | 218555 | Indel |
| 7_503640 | 7 | 503640 | Indel |
| 7_821345 | 7 | 821345 | Indel |
| 7_1288962 | 7 | 1288962 | Indel |
| 7_3500120 | 7 | 3500120 | Indel |
| 7_4854494 | 7 | 4854494 | Indel |
| 7_6062026 bHLH | 7 | 6062026 | Indel |
| 7_8052183 MYB | 7 | 8052183 | Indel |
| 7_8152295 | 7 | 8152295 | Indel |
| Os08g0424500 BADH2 | 8 | 20380144 | Indel |
| 11_2456241 | 11 | 2456241 | Indel |
| MSU7_11_3765242_[Indel] | 11 | 3765242 | Indel |
| MSU7_11_3914993_[Indel] | 11 | 3914993 | Indel |
| MSU7_11_4116877_[Indel] | 11 | 4116877 | Indel |
| MSU7_11_4301013_[Indel] | 11 | 4301013 | Indel |
| 11_4328892 | 11 | 4328892 | Indel |
| MSU7_11_4439870_[Indel] | 11 | 4439870 | Indel |
| MSU7_11_5173655_[Indel] | 11 | 5173655 | Indel |
| 12_3024705 | 12 | 3024705 | Indel |
| 12_7280706 | 12 | 7280706 | Indel |
| 12_9799992 | 12 | 9799992 | Indel |
| 12_10965030 | 12 | 10965030 | Indel |
| 12_14112244 | 12 | 14112244 | Indel |
| 12_22063196 | 12 | 22063196 | Indel |
| RM10115 | 1 | 2154332 | SSR |
| RM490 | 1 | 6676195 | SSR |
| RM3412b | 1 | 11566961 | SSR |
| RM493 | 1 | 12264091 | SSR |
| RM140 | 1 | 12284725 | SSR |
| RM10864 | 1 | 14236113 | SSR |
| RM7075 | 1 | 15101795 | SSR |
| RM3482 | 1 | 39713330 | SSR |
| RM14 | 1 | 41362794 | SSR |
| RM12208 | 1 | 41935041 | SSR |

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| Marker | Chromosome | Position | Marker type |
|---------|------------|----------|-------------|
| RM5626 | 3 | 24671259 | SSR |
| RM6329 | 3 | 28608271 | SSR |
| RM3867 | 3 | 31540070 | SSR |
| R3M53 | 3 | 32255684 | SSR |
| RM7076 | 3 | 33446993 | SSR |
| RM7389 | 3 | 35948517 | SSR |
| RM11 | 7 | 19204350 | SSR |
| RM172 | 7 | 29561293 | SSR |
| RM23877 | 9 | 6347247 | SSR |
| RM17 | 12 | 27024527 | SSR |