Table S4 Genome-wide detection and functional annotation of selective sweep regions in the *aus* subgroup based on a combination of three methods.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Chr. | Interval start (Mb) | Interval  end (Mb) | Peak (Mb) | Functional annotation | Known genes |
| 1 | 7.88 | 8.26 | 0.38 | responsive to drought stress | *ELIP*, |
| 1 | 25.82 | 25.92 | 0.10 | responsive to drought stress | *OsPIN3t*, |
| 1 | 26.06 | 26.72 | 0.66 |  |  |
| 2 | 22.85 | 23.07 | 0.22 |  |  |
| 2 | 34.31 | 35.61 | 1.30 | regulating rice grain filling | *RWC3*, *OsSUT4*, |
| 3 | 12.69 | 13.16 | 0.47 |  |  |
| 3 | 15.13 | 15.31 | 0.18 |  |  |
| 3 | 25.49 | 26.40 | 0.91 | temperature stress tolerance, disease resistance | *OsNUS1*, *OsLP*, |
| 3 | 28.66 | 28.82 | 0.16 | Flowering time, grain filling | *OsCOL10*, *GF14f*, |
| 4 | 16.27 | 16.38 | 0.11 |  |  |
| 4 | 16.69 | 17.29 | 0.60 |  |  |
| 4 | 21.64 | 21.78 | 0.14 |  |  |
| 4 | 22.89 | 23.17 | 0.28 | plant architecture, blast disease, | *OsNAC2*, *GF14b*, *Bh4*, |
| 4 | 23.78 | 23.94 | 0.16 | temperature stress tolerance, grain and awn length | *OsV4*, An-1 |

Table S4 continued

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Chr. | Interval start (Mb) | Interval  end (Mb) | Peak (Mb) | Functional annotation | Known genes |
| 4 | 25.26 | 27.17 | 1.91 | Panicle development, responsive to drought stress, blast disease, plant architecture, awn length, | *OsYABBY5*, *OsRDCP1*, *OsPIP2*, *Osmyb4*, *OsLCBK2*, *OsGA2ox6*, *LABA1*, |
| 4 | 33.85 | 34.62 | 0.47 | responsive to drought stress, starch metabolism | *sh4*, *OsCP1*, *FtsZ1*, |
| 4 | 34.96 | 35.11 | 0.15 |  |  |
| 5 | 4.43 | 4.53 | 0.10 |  |  |
| 5 | 5.69 | 5.80 | 0.11 |  |  |
| 5 | 9.46 | 9.93 | 0.47 |  |  |
| 5 | 9.92 | 10.08 | 0.16 |  |  |
| 5 | 10.14 | 11.11 | 0.97 |  |  |
| 5 | 11.15 | 13.67 | 2.52 | panicle and seed development, blast disease, | *XYH*, *JMJ704*, *EBR1*, |
| 6 | 3.74 | 3.86 | 0.12 |  |  |
| 6 | 5.33 | 5.61 | 0.28 |  |  |
| 7 | 2.44 | 2.63 | 0.19 |  |  |
| 7 | 2.68 | 3.00 | 0.32 | plant architecture, tolerance to drought sress, seed storage, blast disease, | *Prog1*, *OsNCED4*, *OsGZF1*, *GLO3*, |

Table S4 continued

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Chr. | Interval start (Mb) | Interval  end (Mb) | Peak (Mb) | Functional annotation | Known genes |
| 7 | 3.01 | 3.29 | 0.28 |  |  |
| 7 | 3.59 | 4.18 | 0.59 | temperature stress tolerance | *ZFP177*, *OsZHD2*, |
| 7 | 5.35 | 5.45 | 0.10 |  |  |
| 7 | 28.20 | 28.44 | 0.24 | blast disease, | *FZP*, |
| 8 | 23.58 | 24.52 | 0.94 | germination and seedling growth, tolerance to drought sress, flowering time, awn length | *SnRK1B*, *OsRHP1*, *OsRBGD3*, *OsHAP5D*, *AL8* |
| 8 | 24.77 | 24.87 | 0.10 |  |  |
| 9 | 18.36 | 18.51 | 0.15 | responsive to drought stress | *OsWRKY80*, |
| 12 | 2.56 | 2.90 | 0.34 |  |  |
| 12 | 24.78 | 25.61 | 0.83 | temperature stress tolerance | *OsUAH*, |