Table S6 Genome-wide detection and functional annotation of selective sweep regions in the *trj* subgroup based on a combination of three methods.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Chr. | Interval start (Mb) | Interval end (Mb) | Peak (Mb) | Functional annotation | Known genes |
| 1 | 7.91 | 8.21 | 0.30 |  |  |
| 1 | 29.45 | 29.86 | 0.41 | Flowering time, | *OsLFL1,* |
| 1 | 35.47 | 38.06 | 2.59 | Drought stress tolerance, shattering, flowering time, blast disease, plant architecture, nitrate transporter, | *REL1*, *qSH1*, *OsPP2C09*, *OsHAP3A*, *OsCOI1,* *OsCCT01*, *OsAUX1*, *OsAMT2*, *OsAMT2*, *sd1*, *OsNAC6* |
| 1 | 38.56 | 40.56 | 2.00 | temperature stress tolerance, seed germination, blast disease, plant architecture, flowering time, | *ROX1*, *OSVP1*, *OsSSI2*, *OsSBP*, *OsPH1*, *OsMADS51*, *OsLCB2a1*, *OsIG1*, |
| 2 | 1.11 | 1.21 | 0.10 | responses to abiotic stresses, | *OsSPP1* |
| 2 | 28.75 | 29.20 | 0.45 | Grain type, | *GS2* |
| 2 | 31.19 | 31.36 | 0.17 | Grain quality, responses to abiotic stresses, | *SSIIB*, *OsSKIPa* |
| 3 | 10.50 | 11.96 | 1.46 | plant architecture, flowering time, blast disease, responses to abiotic stresses, | *WOX6*, *SSD1*, *PHYB*, *OsWRKY55*, *OsNAS2*, *OsNAS1*, *OsCHLH* |
| 3 | 12.71 | 13.01 | 0.30 |  |  |
| 3 | 28.32 | 28.52 | 0.20 | plant architecture, blast disease, | *SLR1*, *OsTB1* |

Table S6 continued

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Chr. | Interval start (Mb) | Interval end (Mb) | Peak (Mb) | Functional annotation | Known genes |
| 3 | 33.82 | 34.88 | 1.06 | Flowering time, nitrate transporter, responses to abiotic stresses, grain yield, | *SPIN1*, *OsSPX4*, *OsNAC19*, *OsFWL4*, |
| 4 | 16.56 | 16.70 | 0.14 |  |  |
| 4 | 23.62 | 24.88 | 1.26 | temperature stress tolerance, grain quality, nitrate transporter, grain yield, | *OsV4*, *OsPIMT2*, *OsNAR2.2*, *DAO*, |
| 4 | 27.55 | 29.55 | 2.00 | Grain type, plant architecture, flowering time, nitrate transporter, blast disease, responses to abiotic stresses, seed germination, blast disease, grain yield, | *YDA1*, *XIAO*, *ROC4*, *OsSPX-MFS1*, *OsSPL7*, *OsSCL6-IIc*, *OsSCE3*, *OsRDCP1*, *OsPIP2;3*, *OsPIP1;2*, *OsMYB511*, *OsLCBK2*, *OsINV2*, *OsCDPK7*, *LABA1*, *OsAMT1;1*, *HTD1*, |
| 4 | 34.01 | 34.64 | 0.13 |  | *sh4*, |
| 5 | 4.91 | 5.40 | 0.49 | blast disease, Grain type, | *qSW5*, *OsWRKY67*, *GSE5*, |
| 5 | 9.68 | 9.78 | 0.10 |  |  |
|  |  |  |  |  |  |

Table S6 continued

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Chr. | Interval start (Mb) | Interval end (Mb) | Peak (Mb) | Functional annotation | Known genes |
| 5 | 24.53 | 26.91 | 2.38 | responses to abiotic stresses, grain quality, flowering time | *OsTPS1*, *OsSSIVb*, *OsPUB2*, *OsLF*, *OsFTL10*, *GLB1*, *ART1* |
| 6 | 1.67 | 1.86 | 0.19 | Grain quality, | *Waxy*, |
| 6 | 6.30 | 6.64 | 0.34 | responses to abiotic stresses, plant architecture, nitrate transporter, | *OsTCP19*, *OsSERK3*, *OsHKT2;4*, *HSP101*, |
| 6 | 28.46 | 30.09 | 1.63 | blast disease, responses to abiotic stresses, | *OsWJUMK1*, *OsSIDP366*, *OsLRR-RLK1*, *OsCYP19-4*, *HSA32*, |
| 7 | 2.65 | 3.07 | 0.42 | blast disease, | *Prog1*, *OsTCP21*, *GLO3* |
| 7  7 | 5.33  19.10 | 5.47  19.24 | 0.14  0.14 | Grain type,  Grain type, | *Rc*,  *GLW7*, |
| 7 | 28.24 | 29.77 | 1.53 | Flowering time, blast disease, grain yield, nitrate transporter, plant architecture, | *WOX11*, *rTGA2.1*, *POX8.1*, *POX5.1*, *POX3006*, *POX22.3*, *OsWRKY47*, *OsSDR*, *OsNLA1*, *OsDof24*, *OsARAF1*, *Ghd7.1*, *FZP* |

Table S6 continued

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Chr. | Interval start (Mb) | Interval end (Mb) | Peak (Mb) | Functional annotation | Known genes |
| 8 | 24.54 | 28.54 | 4.00 | Grain type, responses to abiotic stresses, blast disease, plant architecture, grain quality, flowering time, | *WTG1*, *SLG*, *RAFTIN1*, *qGW8*, *PIBH8*, *OsZHD2*, *OsXylT*, *OsWRKY30*, *OsSPL14*, *OsRHP1*, *OsPIN5b*, *OsPIMT1*, *OsNTL5*, *OsMADS7*, *OsIDD6*, *OsHAP5D*, *OsFKBP16-3*, *OsFBH1*, *OsDOG*, *OsDof25*, *OsCOL15*, *Os8N3*, *AL8* |
| 9 | 20.57 | 20.68 | 0.11 |  |  |
| 10 | 20.16 | 22.17 | 2.01 | responses to abiotic stresses, blast disease, nitrate transporter, flowering time | *OsSCE1*, *OsPLDbeta1*, *OsNRT1.3*, *OsMT-II-1a*, *OsMPK6*, *OsMADS56*, *NRRB*, *MYBS3* |
| 11 | 8.07 | 8.24 | 0.17 | Flowering time, | *RBS1*, |
| 11 | 9.84 | 9.94 | 0.10 |  |  |
| 12 | 27.38 | 27.63 | 0.25 |  |  |