**Table S1.** Dongxiang wild rice (*Oryza rufipogon* Griff.) and worldwide rice (*Oryza sativa* L.) cultivars used for veriﬁcation of the developed lncRNA-derived-SSR markers in this study. The rice accessions used in this study including DXWR are all collected in our laboratory

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| --- | --- | --- | --- |
| Code | Name | Origin | Subspecies |
| 1 | Dongxiang wild rice-1  (Shuitaoshuxia population) | China | *O. rufipogon* |
| 2 | Dongxiang wild rice-2  (Zhangtang population) | China | *O. rufipogon* |
| 3 | Dongxiang wild rice-3 (Anjiashan population) | China | *O. rufipogon* |
| 4 | Xieqingzao B | China | *indica* |
| 5 | Ai-Chiao-Hong | China | *indica* |
| 6 | Ming Hui | China | *indica* |
| 7 | ZHE 733 | China | *indica* |
| 8 | Zhenshan 2 | China | *indica* |
| 9 | Aijiaonante | China | *indica* |
| 10 | Hon Chim | Hongkong, China | *indica* |
| 11 | Binulawan | Philippines | *indica* |
| 12 | IR64 | Philippines | *indica* |
| 13 | Byakkoku Y 5006 Seln | Australia | *indica* |
| 14 | Champa Tong 54 | Thailand | *indica* |
| 15 | Chau | Vietnam | *indica* |
| 16 | Darmali | Nepal | *indica* |
| 17 | Oryzica Llanos 5 | Colombia | *indica* |
| 18 | Criollo La Fria | Venezuela | *indica* |
| 19 | Radin Ebos 33 | Malaysia | *indica* |
| 20 | Tchibanga | Gabon | *indica* |
| 21 | SL 22-613 | Sierra Leone | *indica* |
| 22 | Zhonghua 11 | China | *japonica* |
| 23 | Shangyu 394 | China | *japonica* |
| 24 | Sung Liao 2 | China | *japonica* |
| 25 | Caawa/Fortuna 6-103-15 | Taiwan, China | *japonica* |
| 26 | Aichi Asahi | Japan | *japonica* |
| 27 | Jouiku 393G | Japan | *japonica* |
| 28 | Kibi | Japan | *japonica* |
| 29 | Nipponbare | Japan | *japonica* |
| 30 | Hiderisirazu | Japan | *japonica* |
| 31 | Hatsunishiki | Japan | *japonica* |
| 32 | Edomen Scented | Japan | *japonica* |
| 33 | Rikuto Norin 21 | Japan | *japonica* |
| 34 | Shirogane | Japan | *japonica* |
| 35 | Kiuki No. 46 | Japan | *japonica* |
| 36 | Arias | Indonesia | *japonica* |
| 37 | Geumobyeo | Korea, South | *japonica* |
| 38 | Lemont | United States | *japonica* |
| 39 | Moroberekan | Guinea | *japonica* |
| 40 | Ostiglia | Italy | *japonica* |
| 41 | Bombon | Spain | *japonica* |
| 42 | Coppocina | Bulgaria | *japonica* |
| 43 | WC 4443 | Bolivia | *japonica* |
| 44 | Tropical Rice | Ecuador | *japonica* |