

Table S1. Accessions in rice germplasm at the National Institute of Agrobiological Sciences (NIAS) Genebank, which were involved in dataset A

| JP.ID* | Name | JP.ID | Name |
|--------|------------------------|-------|-----------------------------------|
| | 71249 91-382 | | 84983 CS-S4 |
| | 11930 Aijjaonante | | 83160 Dabaigu |
| | 43474 Aijjaonuo | | 79697 Dahonggu |
| NA** | Akage | | 11619 Daidantou |
| NA | Akihikari | | 83139 Dalibaigu |
| | 70701 Amane | | 84313 Dangrey |
| | 104588 Angpor Sang San | | 12426 Davao 1 |
| | 54300 Anjana Dhan | | 147493 Deegeowoogen |
| | 54581 ARC 11094 | NA | Deejaohualuo |
| | 54610 ARC 5955 | | 11828 Deng Pao Zhai (Toufutsusai) |
| | 54631 ARC 6565 | | 54518 Dhalashaita |
| | 54573 ARC 7047 | | 42944 Dianyu 1 |
| | 54575 ARC 7260 | | 37948 Dinalaga |
| | 54633 ARC 7286 | | 81944 Dumja Kaap |
| | 54576 ARC 7291 | NA | Fujisaka 5 |
| | 54634 ARC 7323 | | 54586 Gambir |
| | 54635 ARC 7336 | NA | Ginbozu |
| NA | Asahi | | 14113 Godawee |
| | 71239 Asu | | 11987 Guangluai 4 |
| | 54551 Aus 230 | | 71244 Hasu |
| | 70622 Aus 32 | | 54373 Heipigu |
| | 70620 Aus 47 | | 14103 Hetadawee |
| | 70541 Badari Dhan | NA | Hong Cheuh Zai |
| | 12422 Basilanon | | 71375 Honggu |
| | 105329 Bayuenuo | | 37735 Hongxienuo |
| | 80448 Bei Khe | | 14109 Illan Kalagan |
| NA | Bie Blau | | 71274 Ippa |
| | 12425 Binatangan 2 | | 12456 IR 29 |
| | 12484 Bicol | | 180265 IR 58 |
| | 12719 Bodat Mayang | | 70452 Jadu |
| | 82004 Bunt Kardu | | 14836 Jaguary |
| | 12486 Calotoc | | 71261 Jarjan |
| | 12416 Calutos | | 14030 Jena 035 |
| | 86156 Cha Sen Lun | | 54272 Jhimma |
| | 12932 Chinsurah Boro 2 | NA | Jhona 2 |
| | 53955 Chinya | NA | Jikkoku |
| | 11611 Chuumoushi | | 79691 Jinguoin |
| | 12907 Co 13 | | 11814 Junsouhaku |

| JP.ID | Name | JP.ID | Name |
|-------|------------------------------|-------|-------------------------|
| NA | Kahei | | 80450 Neang Chhouk |
| | 11872 Kakouhaku | NA | Nepal 1 |
| | 54283 Kalo Dhan | NA | Nepal 18 |
| | 54630 Kaloshahaita | NA | Nepal 555 |
| | 14070 Kaluheenati | | 85148 Nepal 8 |
| NA | Kameji | | 77338 Nepale Jaran |
| | 11866 Kamochi Kantonfukinsan | | 86151 Ngo Luu |
| | 44977 Kampar | NA | Nipponbare |
| | 205306 Kasalath | | 54372 Niuyanggu 1 |
| | 11633 Keiboba | NA | Norin 1 |
| | 76885 Ketan Gading | NA | Norin 29 |
| | 104129 Khao Hang | NA | Norin 8 |
| | 78799 Khao Kwe Lan | | 83126 Oazalahy |
| | 12568 Khao Nok | NA | Oba |
| | 83195 Khao Vay Deng | NA | Ochikara |
| | 86166 Khau Mac Kho | | 70700 Pachai Perumal |
| | 86141 Khau Tan Chiem | | 181273 Padi Bulu |
| | 86139 Khau Van Lanh | | 12721 Padi Kenikir Puti |
| | 100783 Khemjya | | 103839 Padi Kuning |
| NA | Kinandang Puti | | 74372 Padi Perak |
| NA | Kinuhikari | | 101011 Peam Chiker |
| | 100802 Kochum | | 12418 Pinulupot 1 |
| NA | Koshihikari | | 74384 Puluik Arang |
| | 11597 Lalahpak | | 12912 Pusur |
| | 12571 Lep Xang | | 53938 Puteh/Rubon(H) |
| | 100350 Linjawan(H) | | 106328 Py Khao |
| NA | Liuzhoubaoyazao | | 12170 Qingyu (Seiyu) |
| | 13277 Local Basmati | | 13178 Rambhog |
| | 12853 Ma sho | | 13672 Ratul |
| | 77185 Manan Elatla | NA | Reiho |
| | 74610 Maninjau | NA | Reimei |
| | 11559 Manri 2 | | 109700 Rexmont |
| NA | Masumikir | | 14044 Seenady |
| | 37823 Milyang 23 | NA | Sekiyama |
| | 11777 Moch Ine Sukensan | | 11555 Shinha Sen |
| | 81699 Moe Ma Kha | NA | Shinriki |
| NA | Muha | | 54535 Shoni |
| | 13351 Naba | | 11605 Shoutan Zairai |

| JP.ID | Name | JP.ID | Name |
|-------|-----------------------|-------|------|
| | 11831 Shuusoushu | | |
| | 80366 Shwe Nang Gyi | | |
| | 12723 Siampang | | |
| | 103853 Sikasunbo | | |
| | 181302 Sirendah Putih | | |
| | 12887 Surjamukhi | | |
| | 12485 Tadukan | | |
| | 12276 Taichung 65 | | |
| | 11647 Taiwan Sou | | |
| | 71279 Thapa Chinni | | |
| | 81972 Tima | | |
| | 11222 Toboshi | | |
| | 11821 Totou | | |
| | 70609 Tupa 121-3 | | |
| | 70616 Tupa729 | | |
| | 71954 Turakin | | |
| | 11595 Ubaisen | | |
| | 4656 Urasan 1 | | |
| | 54647 Vandaran | | |
| | 77231 Vary Futsi | | |
| | 83162 Wahuigu | | |
| | 4375 Wase Sekitori F | | |
| | 14286 Wzbeuskij 2 | | |
| | 86100 Xiaobaigu | | |
| NA | Xiligu | | |
| NA | Xuanchangmi | | |
| | 11731 Yousentou 29 | | |

*Identification number of rice germplasm at the NIAS Genebank

**Non-available