

Table S5. Primers used in this study.

| Primer name | Primer sequence | Purpose |
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| CPS-F | 5' GCGTGCATTTTCGAACCAA 3' | Real-time PCR |
| CPS-R | 5' TTGGCCAGCACTGACACTCT 3' | Real-time PCR |
| KS-F | 5' GTTCCCGTCAGCATCCGTG 3' | Real-time PCR |
| KS-R | 5' GCTCCTGCCAACATTCCA 3' | Real-time PCR |
| OsKO1-F | 5' CCCGCCTCCAGCTGTTC 3' | Real-time PCR |
| OsKO1-R | 5' AGCCCCGGTCCTTATAGTGT 3' | Real-time PCR |
| OsKO2-F | 5' CTACAATGCTACTGTGACCGAC 3' | Real-time PCR |
| OsKO2-R | 5' ATCCTTTCTTCTGCTGCTT 3' | Real-time PCR |
| OsKO4-F | 5' CATCCTGGCTGCAGCTGATA 3' | Real-time PCR |
| OsKO4-R | 5' GGAACACGGCGTTGAGGTA 3' | Real-time PCR |
| KAO-F | 5' CAGCAACGCAGAACGGATTA 3' | Real-time PCR |
| KAO-R | 5' ACGGAAGGACACGAAGGAGA 3' | Real-time PCR |
| GA20ox1-F | 5' TACTGCCACGAGATGAGCC 3' | Real-time PCR |
| GA20ox1-R | 5' ACGCCGGGTAGTAGTTGAG 3' | Real-time PCR |
| GA20ox2-F | 5' GACCGCTTCGCCTCCAA 3' | Real-time PCR |
| GA20ox2-R | 5' GCGACAGCTCCTTCATCTCC 3' | Real-time PCR |
| GA3ox2-F | 5' TCTTCTCCAAGCTCATGTGGT 3' | Real-time PCR |
| GA3ox2-R | 5' AACTCCTCCATCACGTCACAG 3' | Real-time PCR |
| GA2ox1-F | 5' CGAGCAAACGATGTGGAAGGGCTACAGG 3' | Real-time PCR |
| GA2ox1-R | 5' TGGCTCAGGCGGAGTGAGTACATTGTCG 3' | Real-time PCR |
| OsNCED2-F | 5' AGCCGACGATGATCCACGACTT 3' | Real-time PCR |
| OsNCED2-R | 5' GCCTCCTCCCACGCATTCCACA 3' | Real-time PCR |
| OsNCED3-F | 5' TCTTCGCGCTCAGCTACAATGT 3' | Real-time PCR |
| OsNCED3-R | 5' GCCTTCTCCCTGTCGTATACCA 3' | Real-time PCR |
| OsABA8ox2-F | 5' CGTCTTCTTCGCCTCCAA 3' | Real-time PCR |
| OsABA8ox2-R | 5' ATCATCCGCTCCTTGCTC 3' | Real-time PCR |
| Amylase-2-F | 5' ACTTCTTGTCCTTTCCG 3' | Real-time PCR |
| Amylase-2-R | 5' GCCCATAAGCAGGTTGTA 3' | Real-time PCR |
| GAMYB-F | 5' GAATCCACCCCTCCTGTT 3' | Real-time PCR |
| GAMYB-R | 5' GCCCCATTACTTGCTCTC 3' | Real-time PCR |
| GID2-F | 5' TCGGTGTTTTATTACGAGATCC 3' | Real-time PCR |
| GID2-R | 5' GAAGTCCACAGCGTCAGGTT 3' | Real-time PCR |
| ARAG1-F | 5' CAACGACGGTGAGGGAGGAG 3' | Real-time PCR |
| ARAG1-R | 5' CGGGGAACAGTAGCGAGCAG 3' | Real-time PCR |
| PYR/PYL-F | 5' GCGGGTGTCGTGTTATTTGT 3' | Real-time PCR |
| PYR/PYL-R | 5' CCGTACAAACCAAACAGGCT 3' | Real-time PCR |
| PP2C-F | 5' GTCACCCAGCTGATGCTGTA 3' | Real-time PCR |
| PP2C-R | 5' TAGCAGTTGCACAACCCCAT 3' | Real-time PCR |
| SnRK2-F | 5' GAGGGAGAAGGCCGACTACA 3' | Real-time PCR |

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| SnRK2-R | 5' TAGGTGTCATACTCATCGGCG 3' | Real-time PCR |
| U50-F | 5' CGAGAACGGCGAGAAGTGGT 3' | Real-time PCR |
| U50-R | 5' GGACGGAGATGGTATGGAGA 3' | Real-time PCR |
| U53-F | 5' TGCTCAACCCCGTCTCCACT 3' | Real-time PCR |
| U53-R | 5' TTGCTCAGCTCCCGTATCTG 3' | Real-time PCR |
| T46-F | 5' CGAGAACTGCTACGGATGGA 3' | Real-time PCR |
| T46-R | 5' CGGGATGCTGGGACAGACTA 3' | Real-time PCR |
| U49-F | 5' AGATGGGGGAGGAAGGGT 3' | Real-time PCR |
| U49-R | 5' CTCGTCGATGTCGATGCC 3' | Real-time PCR |
| U32-F | 5' GCGACCAAGAACAAGCTGG 3' | Real-time PCR |
| U32-R | 5' TCACGCCGTCTTGA ACTC 3' | Real-time PCR |
| U47-F | 5' ATGAGCCAGGAGCAGCCGA 3' | Real-time PCR |
| U47-R | 5' GTCTTCCCCAGCACGAGGT 3' | Real-time PCR |
| U51-F | 5' GCGACGGAGAACATCTACG 3' | Real-time PCR |
| U51-R | 5' GCCTTCACCCGCATCATCA 3' | Real-time PCR |
| U2-F | 5' GGGCAGGTGATGGCGCAGTT 3' | Real-time PCR |
| U2-R | 5' ACGGGCTCGTTGTCGTCGGA 3' | Real-time PCR |
| D30-F | 5' AACGATCGGGAGACGGGGAG 3' | Real-time PCR |
| D30-R | 5' GTTGACGGTGATGTTGCGGC 3' | Real-time PCR |
| R21-F | 5' GCGTTCGTGACCTTGAAAAGCA 3' | Real-time PCR |
| R21-R | 5' CGTTGGGGTCGTAGGAGCAGAG 3' | Real-time PCR |
| U15-F | 5' CGGGTTAAGGCAATGGAGGT 3' | Real-time PCR |
| U15-R | 5' TGTGGCGTTAGTTTGGGCAG 3' | Real-time PCR |
| T45-F | 5' TCAACGACCCCTTCATCACC 3' | Real-time PCR |
| T45-R | 5' AACCTTCTTGGCACCACCCT 3' | Real-time PCR |
| Osactin1-F | 5' GGAAGTACAGTGTCTGGATTGGAG 3' | Real-time PCR |
| Osactin1-R | 5' TCTTGGCTTAGCATTCTTGGGT 3' | Real-time PCR |
| Os06g0570100-F | 5' ATGGAGGCGTTCGTGCCG 3' | CDS clone |
| Os06g0570100-R | 5' TCACATCCTTCCTCTGCGCG 3' | CDS clone |
| Os06g0569900-F | 5' ATGGAGTCGCTGCTCGCA 3' | CDS clone |
| Os06g0569900-R | 5' TCACATCCTTCCTCTGGGC 3' | CDS clone |
| Os06g0569500-F | 5' ATGGAGTCGATGCTCGTAGC 3' | CDS clone |
| Os06g0569500-R | 5' TCACATCCTTCCTCTGGGCT 3' | CDS clone |
| Os06g0570100-pro moter-F | 5' ATCAATGCTCCTGGTTCTTTTG 3' | Promoter clone |
| Os06g0570100-pro moter-R | 5' GGATCACACGCTGTGCGC 3' | Promoter clone |
| Os06g0569900-pro moter-F | 5' GAAAATGTTTCACTCATTTAAATCA 3' | Promoter clone |
| Os06g0569900-pro moter-R | 5' GGCCGACCCCTACTCAGA 3' | Promoter clone |
| Os06g0569900RNA | 5'GGGGACAAGTTTGTACAAAAAAGCAGGCTT | OsKO1 RNAi |

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| i-F | CCCTCAATGCCGTCTTCCAG 3' | |
| Os06g569900RNAi | 5'GGGGACCACTTTGTACAAGAAAGCTGGGTCT | OsKO1 RNAi |
| -R | TCTCCTCGTCACCCTCCCTCA 3' | |
| Os06g0570100RNA | 5' GGGGACAAGTTTGTACAAAAAAGCAGG | OsKO2 RNAi |
| i-F | CTTACCTCAACGCCGTCTTCCA 3' | |
| Os06g0570100RNA | 5' GGGGACCACTTTGTACAAGAAAGCTGG | OsKO2 RNAi |
| i-R | GTCTTCTCCTCGTCACCCTCCCT 3' | |
| KO2-taqman-F | 5' ATGAACAGGAAGGAGTGGGAGT 3' | Linkage analysis |
| KO2-taqman-R | 5' TGGAGCTTGTAGGCGGTGAG 3' | Linkage analysis |
