

Appendix A Primers used in mutant detection

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| OsBGLU19-F | TGTCCTACTCGGAATGAGCC |
| OsBGLU19-R | CTCCTCTTCTTCGCCATG |
| OsBGLU23-F | TTGACAACCTGCAATTGACG |
| OsBGLU23-R | ATCGCTCGGTGTATCATTCC |
| Tos17TP-R | ATTGTTAGGTTGCAAGTTAGTTAAGA |

Appendix B Primers used in qRT-PCR

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| OsBGLU1-qF | GCATGCTGCACCTATTTATGAACG |
| OsBGLU1-qR | ATGTAGCTCCTGTAGTAGGCGACCC |
| OsBGLU2-qF | GCCGTTTGGTAGAAGGTGTTTC |
| OsBGLU2-qR | GTTCATACTTCTCCGTTGGTGG |
| OsBGLU3-qF | ACGACACTGACAGGGTGGATTAC |
| OsBGLU3-qR | CACGAAGAACCAAGCGAAGTAG |
| OsBGLU4-qF | TGGTGAAGTAGGCTTGGTTGTC |
| OsBGLU4-qR | GGGTCCAGGTACCATCCTAGC |
| OsBGLU5-qF | AACATTGTCGGTCTCGCCTTC |
| OsBGLU5-qR | TGTAGGTACTGCACCATCAATCTCAA |
| OsBGLU6-qF | GATGAGGAGCCTGATGAACTATGTC |
| OsBGLU6-qR | CCACGAAGTAGAGCCCGAATC |
| OsBGLU7-qF | CTAGCTACATGAAGGGCCAGCAATT |
| OsBGLU7-qR | AGAAATGAACCCCTCGTGGTGTGC |
| OsBGLU8-qF | ATCATATCTGAAAATGGAATGGATC |
| OsBGLU8-qR | GTAGAACTCAATCCTTTCGGTGTGTC |
| OsBGLU9-qF | TTGGAGATTCAGGAAGGGAGC |
| OsBGLU9-qR | CAGGACCTGGCTGAAAGTGAAT |
| OsBGLU10-qF | GATTACTGGTAGTCGAAACGGGATTC |
| OsBGLU10-qR | TCATAGCACTTAGCAGGGCGAGA |
| OsBGLU11-qF | TACTATCACAAGCACCTTCTCGCC |
| OsBGLU11-qR | TCATTCCGTCATCGTAATCCACA |
| OsBGLU12-qF | TGGCAATCCTACCGTCTACATC |
| OsBGLU12-qR | AAGGAGGTGCTTGTGGTAGTATTC |
| OsBGLU13-qF | GGA CTGCCACAGGCATTAG |
| OsBGLU13-qR | TTTGAAGCAGGTTTCAGCGTAC |
| OsBGLU14-qF | ACCTACATTCAAGGCTACCTCATTTC |
| OsBGLU14-qR | ATTTTGGCGTCTTTCAGTGTGTC |
| OsBGLU15-qF | CGGTCAGGAAGGGAGCAAAT |
| OsBGLU15-qR | CTGTTACATTGGAGCCCGTGA |
| OsBGLU16-qF | CACTGCACTTCATGGGTACTTTGT |
| OsBGLU16-qR | TCGTTTGCTCCCTTCCTGATT |
| OsBGLU17-qF | AGGCATACAACCATTCGTGACA |
| OsBGLU17-qR | CACCGAAAGCCTTGAAGCAC |
| OsBGLU18-qF | ACTCCAACAGCGATGCCCACT |

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|-------------|------------------------------|
| 0sBGLU18-qR | CTCTATCCTATCCTCGTCATCAATCCA |
| 0sBGLU19-qF | GGGGAGGATTGACTGCTTGAC |
| 0sBGLU19-qR | CTTGTAATCGCCAAACATCTCG |
| 0sBGLU20-qF | TGAAGATATTGGTGCCACTGAAAGA |
| 0sBGLU20-qR | AGTAGCAATGTCGGCAGTCAAGTC |
| 0sBGLU21-qF | GGAACCATAGTAGATCCTCGGC |
| 0sBGLU21-qR | CTCCACATCATCCAGGGTTTC |
| 0sBGLU22-qF | CAATGTGAAGGGTACTTTGTGTGG |
| 0sBGLU22-qR | TCGGGACTAATCGTGCTTTTC |
| 0sBGLU23-qF | GACAAGTACCAGGCTAAGCAGAAGG |
| 0sBGLU23-qR | CAATGAAATCGGCACTCCCAC |
| 0sBGLU24-qF | AAAGGCTGGTTCATCTTGGCTCTAC |
| 0sBGLU24-qR | CGAACAGTGACCATGCAAAGTATCC |
| 0sBGLU25-qF | GAAGACAGATACGGAGGCTGGTTG |
| 0sBGLU25-qR | GATGCCAAGGTCATAGCCGTC |
| 0sBGLU26-qF | CCAACCTGGCAACGTCAGTATCAC |
| 0sBGLU26-qR | CTCTTTAGCGTCTGTAGTCCACGTAGAC |
| 0sBGLU27-qF | TATCCTTCCACTACCAGCATCTCC |
| 0sBGLU27-qR | GCTGGACTTCTTGCGATACCTCT |
| 0sBGLU28-qF | GACAGGTTACCGCAATAGCATC |
| 0sBGLU28-qR | GGATTGTTGTATCTCCTCTTGACG |
| 0sBGLU29-qF | GCTTCCGCAACGGCAAACC |
| 0sBGLU29-qR | CCGTTCTTGATGGCGTGGTTG |
| 0sBGLU30-qF | ATACCGCCGCTAACTCCAAGC |
| 0sBGLU30-qR | TGATGGCGTGGTTGACGAACTG |
| 0sBGLU31-qF | GGTCCAGGCTACCATCTTTCAC |
| 0sBGLU31-qR | GTCATGAAGTCACTCGTCAACCC |
| 0sBGLU32-qF | GTTTGCTTCAAGAACTTCGGTG |
| 0sBGLU32-qR | GCTCTATGTTCCGGCTCATTAC |
| 0sBGLU36-qF | GAGTTGAAACTGCTAAGGAGACCG |
| 0sBGLU36-qR | AAGGTGGAAGTGAGTGATGAAACAGA |
| 0sBGLU34-qF | CACATTCTACACAAAGGATGACCA |
| 0sBGLU34-qR | CAGTATCTGCCAAGGTGTTGTTC |
| 0sBGLU37-qF | CTGGCGATGTGGCAAATGACTT |
| 0sBGLU37-qR | TTCGCTCAGGAAGCCTCCGTAT |
| 0sBGLU38-qF | ACAGGCGTACTCGAACTGGCTTTAT |
| 0sBGLU38-qR | TGTCAAGCAGGGACCAAGCAAA |
| 0sActin-F | TGTATGCCAGTGGTCGTACCA |
| 0sActin-R | CCAGCAAGGTCGAGACGAA |
| 0sAOS2-F | CAATACGTGTACTGGTCAATGG |
| 0sAOS2-R | AAGGTGTCGTACCGGAGGAA |
| 0sWRKY72-F | CGAGAAATCCAACGACAACTTCG |
| 0sWRKY72-R | TGAAGGGAAGAGAGGTGAGGAGG |

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|-----------|--------------------------|
| 0sJAMyb-F | GACCTCACCCATCAATTAC |
| 0sJAMyb-F | AGCTCTCCCAGTCTCTTC |
| 0sPR1a-F | CGTCTTCATCACCTGCAACTACTC |
| 0sPR1a-R | CATGCATAAACACGTAGCATAGCA |
| 0sPR1b-F | GGCAACTTCGTCGGACAGA |
| 0sPR1b-R | CCGTGGACCTGTTACATTTCA |
| 0sPR5-F | GGAGGCAGACGACTCGACTT |
| 0sPR5-R | CCATGGTTGTTCTGGATTCA |