

**Supplemental Table S1. Primers of cucumber *CsLRX* genes used in qRT-PCR.**

| Gene Name       | primer(5'-3')                        | Purpose                  |
|-----------------|--------------------------------------|--------------------------|
| CsLRX1-F        | TACTGCCCACGATCCCCA                   |                          |
| CsLRX1-R        | GAAGAGGGGGAGGGGGAG                   |                          |
| CsLRX2-F        | AGGGGTTTTCTGCGCTCC                   |                          |
| CsLRX2-R        | CAGGCAAGTACCCGGCAA                   |                          |
| CsLRX3-F        | CAAACCTCCGTCGCCACCT                  |                          |
| CsLRX3-R        | CAGACGTCGGGGCCATAC                   |                          |
| CsPEX1-F        | CCACCCCCGATCTCCTCA                   |                          |
| CsPEX1-R        | TGGGGAGTGGACAGGAGG                   | qRT-PCR                  |
| CsPEX2-F        | CCTCCGCCTCCCTCTCAT                   |                          |
| CsPEX2-R        | ACAAAGGTGGAGGCGGTG                   |                          |
| CsPEX3-F        | CCCGTCCTCTCTCCACCA                   |                          |
| CsPEX3-R        | GAATGATGGCGGCGGAGA                   |                          |
| CsUBI-F         | CACCAAGCCCAAGAAGATC                  |                          |
| CsUBI-R         | TAAACCTAATCACCACCAGC                 |                          |
| LRX1-1300-CDS-F | GGTACCCGGGGATCCATGAATCCCAAATCCCATTTC |                          |
| LRX1-1300-CDS-R | GCTCACCATGTTCGACATAGAAGGGTGGTGGAGGA  |                          |
| LRX3-1300-CDS-F | GGTACCCGGGGATCCATGCCATGTCCCATTAACCT  | subcellular localization |
| LRX3-1300-CDS-R | GCTCACCATGTTCGACATAAGGTGGCGGCGGCGG   |                          |