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| **Supplementary Table S1.** Arabidopsis mutant lines used in this study |
| Allele name | Stock number | AGI number | References |
| *glcna.ut1-1* | SALK\_068977 | AT1G31070 | (Chen et al., 2014) |
| *glcna.ut2-1* | SALK\_150383 | AT2G35020 | (Chen et al., 2014) |
| *stt3a-2* | SALK\_058814 | AT5G19690 | (Koiwa et al., 2003) |
| *cgl1-3* | SALK\_073650 | AT4G38240 | (Kang et al., 2008) |
| *nced3* | GABI\_129B08 | AT3G14440 | (Wan and Li, 2006) |
| *aba2*/*gin1-3* |  | AT1G52340 | (Cheng et al., 2002) |

The mutants were requested from the Arabidopsis Biological Research Center (ABRC, OH).

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| **Supplementary Table S2.** Primers used for RT-qPCR  |
| AGI number | Gene name | Forward primer (5'-> 3') | Reverse primer (5'-> 3') |
| AT1G31070 | *GlcNA.UT1* | TATGCTCCTTCAACCGCACTT | GGTGCAAACTCCTCTTCCCTTA |
| AT2G35020 | *GlcNA.UT2* | TGCTTTCCTTATGCTCCTTCGA | GCAAACTCTTCCTCCCTCAACA |
| AT5G05320 | *UBQ10* | AGAAGTTCAATGTTTCGTTTCATGTAA | GAACGGAAACATAGTAGAACACTTATTCA |
| AT5G20990 | *CNX1* | GGCGAAGAAAAGAAAGGAGGAA | GCTGTCAACAAACCGTCTTCAC |
| AT1G09210 | *CRT2* | ATCTGATGCTGAAGACGAACCA | TCGGAATCATCTCCTCCTTCAT |
| AT5G42020 |  *BiP2* | TCAAGGACGCTGTTGTCACTGT | GCTTGCCTTTGAGCATCATTG |
| AT2G47470 | *PDIL2* | TCACTCGCTCCCACATACGAA | GCATCCAAATTGGCGATGAC |
| AT1G13320 | *PP2A* | TAACGTGGCCAAAATGATGC | GTTCTCCACAACCGCTTGGT |
| AT3G14440 | *NCED3* | TCCAGATTGCTTCTGCTTCCAT | GGACCCTATCACGACGACTTCA |
| AT1G71960 | *ABCG25* | TCTCATGTGGTGGCACTCTGA | AGGCCTAGTCGGTCATGTACGT |
| AT2G36270 | *ABI5* | CTAAAACATGCATTGGCGGAGT | CAATTTCGGTTGTGCCCTTG |
| AT5G52310 | *RD29A* | TGCACCAGGCGTAACAGGTAA  | TGCACCAGGCGTAACAGGTAA  |
| AT5G52300 | *RD29B* | CCTGTGTCTCTGCTTTCAGCAA | CACCAGGAGCAAACGTCCTAGT |
| AT5G05410 | *DREB2A* | AACAGTGTTGCCAACGGTTCA | TGAGGCTTTGTAGCGGATCAA |
| AT3G03450 | *RGL2* | TCGTAACGGTGGTTGAGCAAG | CGAGGAAGACGATTCCGTTGT |
| AT5G17490 | *RGL3* | GCGGTGGAGATGGATACAGAGT | GTTTCGTTTGCCACGCAAG |
| AT4G40010 | *SNRK2.7* | ACGTTGCTCCGGAAGTCTTGT | CCACACATCTGCAATCTTTCCA |

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| **Supplementary Table S3.** Primers used for genotyping |
| Allele name | Right Primer (5'->3') | Left Primer (5'-> 3') | T-DNA Border Primer (5'-> 3') |
| *GlcNA.UT1* | AGAGATATTGAGGTTCGTGATTTC | GCCTTGTTCCCTACATTAGTTTC |  |
| *glcna.ut1-1* | AGAGATATTGAGGTTCGTGATTTC |  | ATTTTGCCGATTTCGGAAC |
| *GlcNA.UT2* | GTAAGCACACCTGAAAAGTAAAC | CTGGTTAGCTCTCTCAGTTTCAAG |  |
| *glcna.ut2-1* | GTAAGCACACCTGAAAAGTAAAC |  | ATTTTGCCGATTTCGGAAC |
| *RNAi* | GTTGAGAGATTGAAAGATTATGGA | GATGTGATATCTCCACTGACG |  |
| *NCED3* | ACAGAGGCTCTCCTCCGTAAC | GTCAGCCACGAGAAGCTACAC |  |
| *nced3* | ACAGAGGCTCTCCTCCGTAAC |  | ATATTGACCATCATACTCATTGC |
| *STT3A* | TTGTTGTGTCTATCGGCATGTAC | GGAAGTGTTGTCCTCTGCCTAA |  |
| *stt3a-2* | TTGTTGTGTCTATCGGCATGTAC |  | ATTTTGCCGATTTCGGAAC |
| *CGL1* | CATGTTCACCAAAATTGTATGTTCTA | GGCGAACTGACTGCGTACTACAAG |  |
| *cgl1-3* | CATGTTCACCAAAATTGTATGTTCTA |  | ATTTTGCCGATTTCGGAAC |
| *ABA* | AGGAGACTATGGTGCGATTGG | TGGACTCACCACGAAGCAGAC |  |