

Supplement

Supplement Table S1

Primer	Sequence
attB1-USP	AAAAAGCAGGCTTCATGGCTTCTACGGTTGATTC
attB2-AtUSP-with-stop	GAAAGCTGGGTTCAATCTTCAACAGAAAATTTGCC
attB2-AtUSP-without-stop	GAAAGCTGGGTATCTTCAACAGAAAATTTGCCA
attB1-UDP-GlcDH	AAAAAGCAGGCTTCATGGTGAAGATTTGCTGCAT
attB2-UDP-GlcDH-with-stop	GAAAGCTGGGTTATGCCACAGCAGGCAT
attB2-UDP-GlcDH-without-stop	GAAAGCTGGGTTGCCACAGCAGGCATGT
attB1-UGPase	AAAAAGCAGGCTTCATGCGTTATGCGGTATATTCTTT
attB2-UGPase-with-stop	GAAAGCTGGGTTACAGATCCTCTGGACCGT
attB2-UGPase-without-stop	GAAAGCTGGGTCAGATCCTCTGGACCGTTGA
attB1-adaptor	GGGGACAAGTTTGTACAAAAAAGCAGGCTTC
attB2-adaptor	GGGGACCACTTTGTACAAGAAAGCTGGGT
Salk_092647-T-DNA	TGAGCAAGTGTGGATTTCTACTA
Salk_030169-T-DNA	ATTGTCTTCCATTTTCGTGATCTG
USP-WT-Salk_030169F	ATTGTCTTCCATTTTCGTGATCTG
USP-WT-Salk_030169R	TGAGCAAGTGTGGATTTCTACTA
USP-WT-Salk_092647F	GCTACAGGTAACCGATCTTCTC
USP-WT-Salk_092647R	GCTCTTTCGCAGTCTTAATGTATG
Salk-LB	CGTGGACCGCTTGCTGCAACT
pMiox4-F	TAAGCTTCATAGTCGAGCAAGAAGTTCAA
pMiox4-R	TACTAGTCTTTTCGAAGAAAGTTTTTAAAAGAG
pLAT52-F	TAAGCTTAATCAAATCAAAAAGAAAATGA
pLAT52-R	TACTAGTTCTTTTATTAGAGATTTTTGTTTTGTTTT
pUbq10-F	TAAGCTTCTTATAAGTTACAAACC
pUbq10-R	TACTAGTCTTGATCACGGTAGAGAGAATTG

Suppl. Fig. S1 (Gene expression) The AtGenexpress microarray dataset was analyzed for expression of genes involved in the recycling pathway to nucleotide sugars. The maximum value for the organs root, rosette leaves, shoot, flower and stamen was set to 100% and is represented as a heat map by dark blue squares.

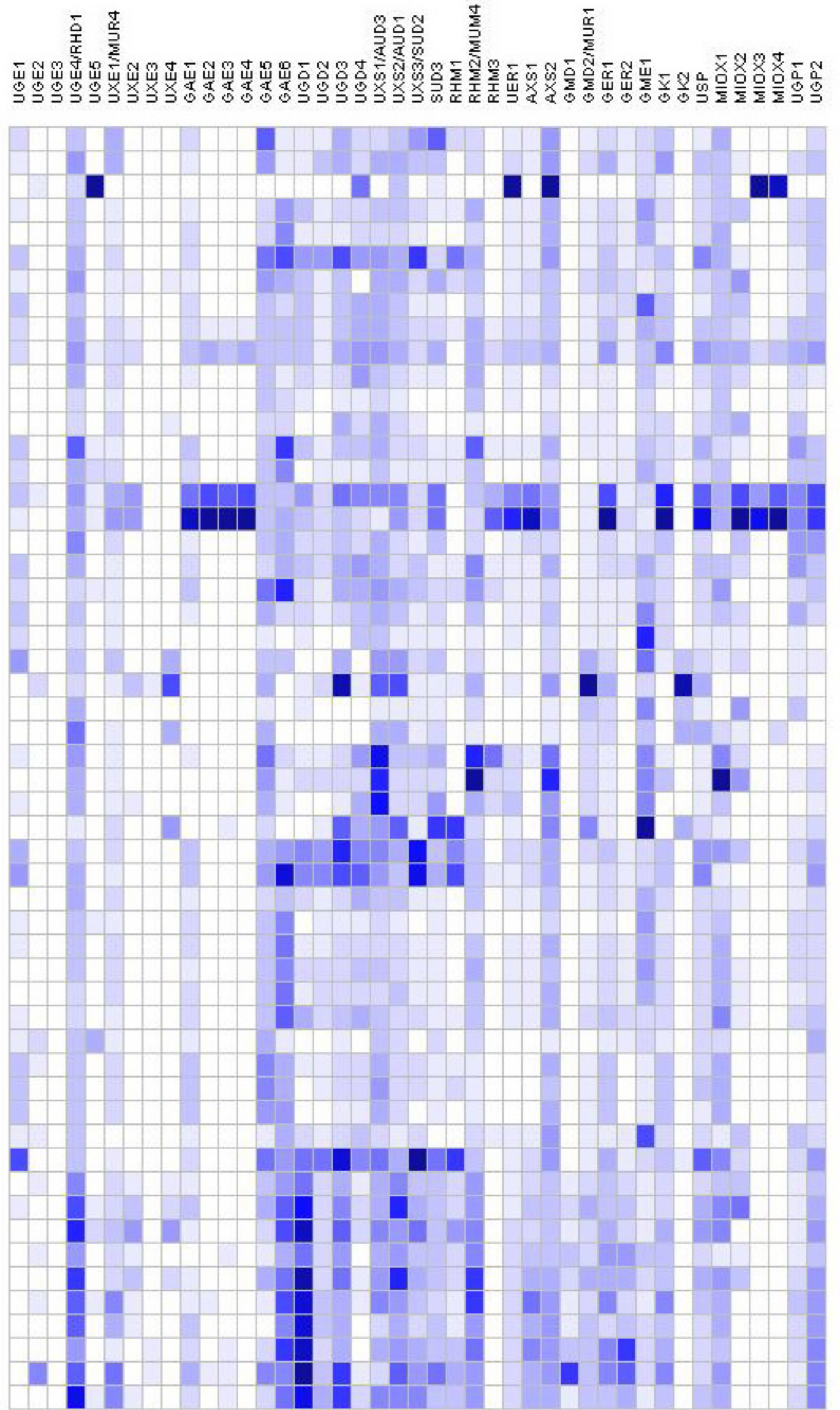
Suppl. Fig. S2

Separation and staining of AGPs. Total AGPs were separated on an agarose gel and stained with

Yariv. (1) wild type; (2) *ara1-1*; (3) *kd-usp*.

*Arabidopsis thaliana*

- callus
- cell culture / primary cell
  - sperm cell
- seedling
  - cotyledons
  - hypocotyl
  - radicle
  - imbibed seed
- inflorescence
  - flower
    - carpel
      - ovary
      - stigma
    - petal
    - sepal
    - stamen
      - pollen
      - abscission zone
    - pedicel
  - silique
  - seed
    - embryo
    - endosperm
      - micropylar endosperm
      - peripheral endosperm
      - chalazal endosperm
    - testa (seed coat)
      - general seed coat
      - chalazal seed coat
    - suspensor
  - stem
  - node
  - shoot apex
  - cauline leaf
- rosette
  - juvenile leaf
  - adult leaf
  - petiole
  - senescent leaf
  - hypocotyl
    - xylem
    - cork
  - leaf primordia
  - stem
- roots
  - lateral root
  - root hair zone
  - root tip
  - elongation zone
  - endodermis
  - endodermis+cortex
  - epid. atrichoblasts
  - lateral root cap
  - stele



- arrays**
- 6
  - 130
  - 3
  - 1195
  - 9
  - 6
  - 23
  - 26
  - 718
  - 216
  - 15
  - 4
  - 3
  - 6
  - 6
  - 87
  - 32
  - 14
  - 3
  - 17
  - 179
  - 15
  - 22
  - 2
  - 4
  - 5
  - 12
  - 2
  - 6
  - 2
  - 46
  - 3
  - 175
  - 3
  - 1234
  - 131
  - 482
  - 12
  - 3
  - 39
  - 9
  - 9
  - 3
  - 3
  - 3
  - 3
  - 3





*Fig. S2*

1

2

3

