

Description of Additional Supplementary Files

File Name: Supplementary Data 1

Description: Differentially expressed genes in the process of apical and basal cell lineage specification.

File Name: Supplementary Data 2

Description: List of EMBRYO-DEFECTIVE (EMB) genes analyzed in the present study.

File Name: Supplementary Data 3

Description: Differentially expressed genes between apical and basal cell lineages of early proembryos at different stages.

File Name: Supplementary Data 4

Description: List of apical and basal cell lineage- maintained genes.

File Name: Supplementary Data 5

Description: The sequences of novel lncRNAs.

File Name: Supplementary Data 6

Description: Confirmed sequences of twenty novel lncRNAs.

File Name: Supplementary Data 7

Description: List of TF genes identified in the apical and basal cell lineages of early proembryos.

File Name: Supplementary Data 8

Description: List of TFs and their potential target-genes identified in apical and basal cell lineages of early proembryos at different stages.

File Name: Supplementary Data 9

Description: List of differently expressed genes between apical and basal cell that are hardly detected in 32-cell embryos.