Description of Additional Supplementary Files

Animated 3D-projections of CLSM Z-stacks of WT, mpk4 and mpk4/summ2 female gametophytes, with a focal plane distance of 1-2 µm within a total range of about 20-30 µm.

File name: Supplementary Movie 1

Description: associated with Figure 1i WT

Title: Mature WT female gametophyte

File name: Supplementary Movie 2

Description: associated with Figure 1k_mpk4

Title: Mature mpk4 female gametophyte showing synergids that undergo premature degeneration.

File name: Supplementary Movie 3

Description: associated with Figure 1m_mpk4

Title: Mature mpk4 female gametophyte showing prematurely degenerating synergids

File name: Supplementary Movie 4

Description: associated with Figure 1o_mpk4

Title: Mature mpk4 female gametophyte with entirely degenerated synergids

File name: Supplementary Movie 5

Description: associated with Figure 2I_MPK4:GFP

Title: MPK4:GFP localization in the micropylar ovule region in WT background

File name: Supplementary Movie 6

Description: associated with Figure 4d_mpk4/summ2

Title: Mature mpk4/summ2 female gametophyte with restored synergid formation.

File name: Supplementary Movie 7

Description: associated with Supplementary Figure 3a_WT

Title: WT female gametophyte

File name: Supplementary Movie 8

Description: associated with Supplementary Figure 3b_mpk4/+

Title: Female gametophyte of a heterozygote mpk4 plant