

Descriptions of Additional Supplementary Files

Supplementary Movie 1. Phase-contrast microscopy video using a 100 x objective showing pairs of *fus1 plus* gametes and WT *minus* gametes whose apical ends interacted but failed to attach. This video is related to Fig. 3C.

Supplementary Movie 2. Phase-contrast microscopy video using a 100 x objective showing an *fh1fh2fh3* fusion helix mutant and a WT *plus* gamete attached to each other by their mating structures. This video is related to Fig. 4D-ii.