

Legends to Supplementary Figures

Figure S1. Semi-quantitative RT-PCR showing the knockdown efficiency in two RNAi lines. Salivary glands of the 3rd instar larvae of *wild type*, *dSkp2*^{KK108837} and *dSkp2*^{GD5142} in combination with *Sgs-Gal4*, respectively, were used for total RNA extraction. Rp49 represents the internal control.

Figure S2. Quantitative presentation of the WHS phenotype caused by *dSkp2* RNAi. Wing hair cells are marked with blue filled black circles in a corresponding region in *wild type* (A) and *dSkp2* (B) knockdown region. White arrows indicate the multiple wing hairs in the wings with *dSkp2* knockdown. (C) is a bar graph showing the number of wing hair cells within six equal-sized areas of *wt* and *dSkp2* knockdown adult wings. **indicates $p < 0.01$.

Figure S3. High magnification images showing the WHS phenotype of *dap* overexpression or *dSkp2* knockdown in the wing. (A) A control wing of *en-Gal4*. (B) *dSkp2* knockdown in the posterior region of the wing under the control of *en-Gal4* leads to a typical WHS phenotype. Overexpression of *dap* in independent transgenic lines (C-C' and D-D''''') under the control of *en-Gal4* causes similar phenotypes.

Figure S4. Wing hair spacing phenotype caused by overexpression of cell cycle regulator genes. Shown are wings with *en-Gal4*-driven overexpression of *Cks85A* (B), *CycE* (C) or *Cdk2* (D) in the posterior region of the wing. The detected WHS phenotype is similar to that of *dSkp2* knockdown.

Figure S5. *dSkp2* knockdown in the posterior region of the wing discs under the control of *en-Gal4* in combination with *UAS-dcr2* (marked by GFP, B and C) leads to an accumulation of endogenous Dap protein (B'). This effect is further enhanced by simultaneous knockdown of *Cks85A* (C'; see Discussion). In both cases, only a small fraction of disc cells exhibit increased accumulation of Dap signals (see Discussion). A and A' are controls.

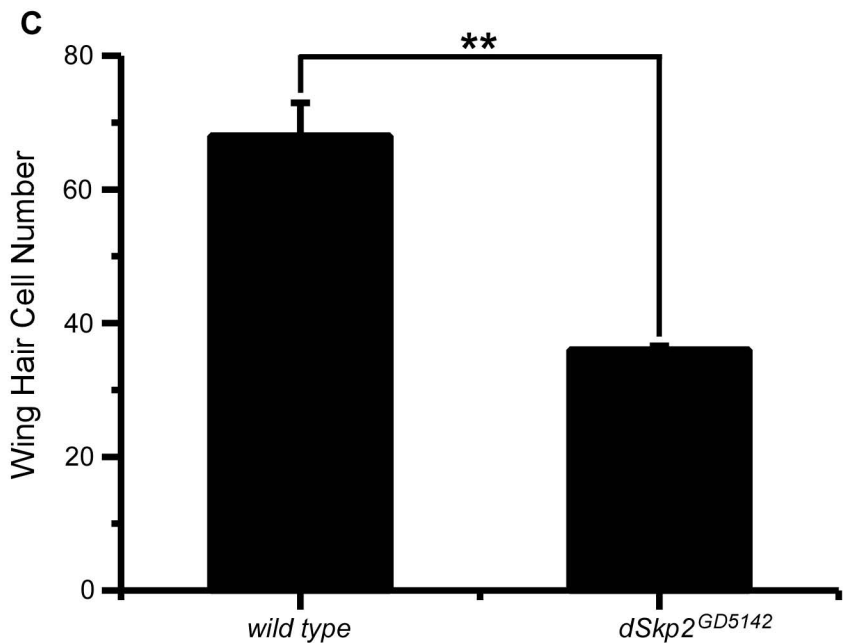
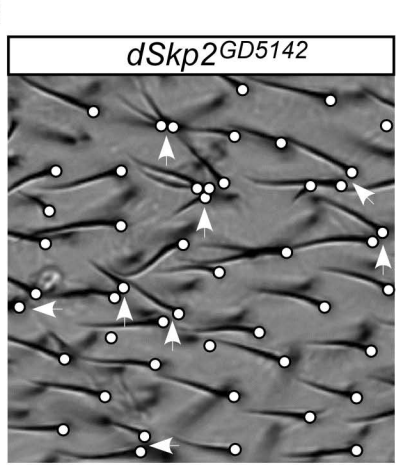
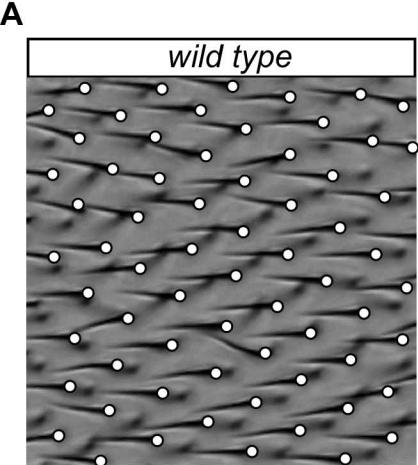
wild type
dSkp2^{GD5142}
dSkp2^{KK108837}

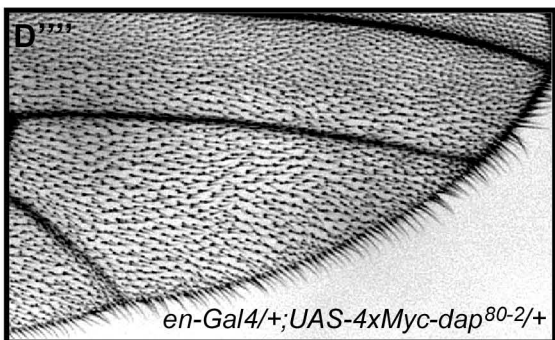
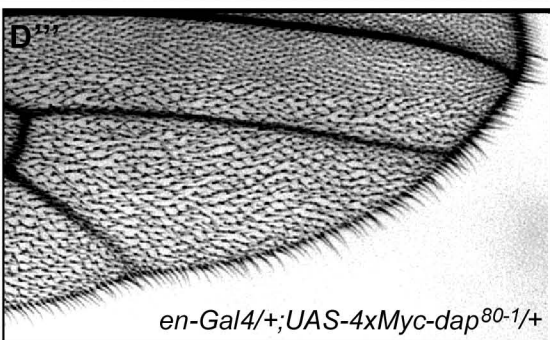
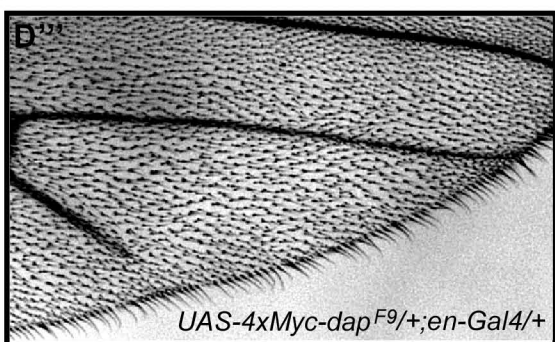
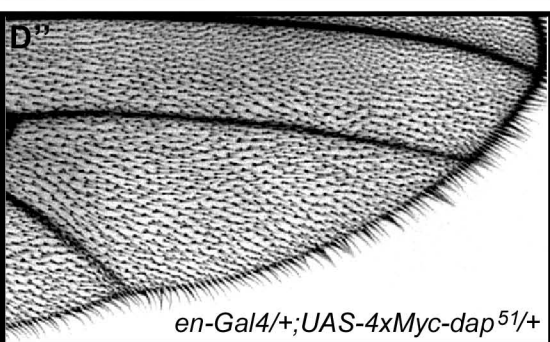
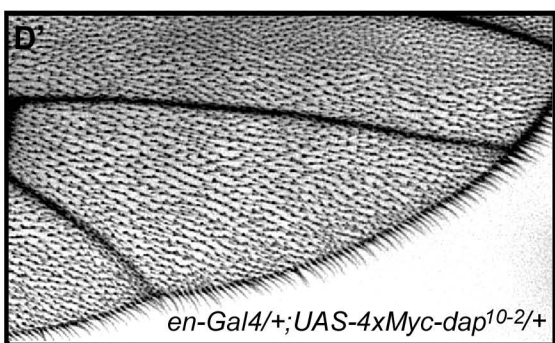
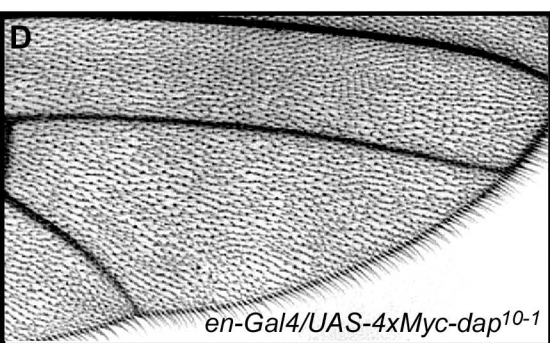
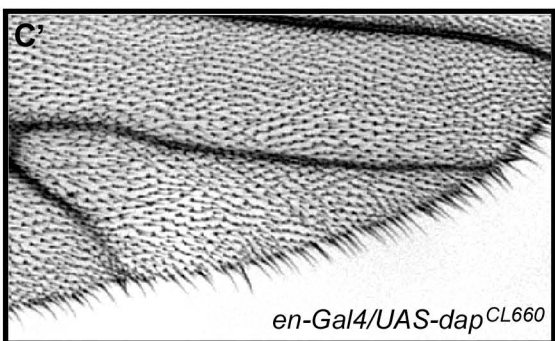
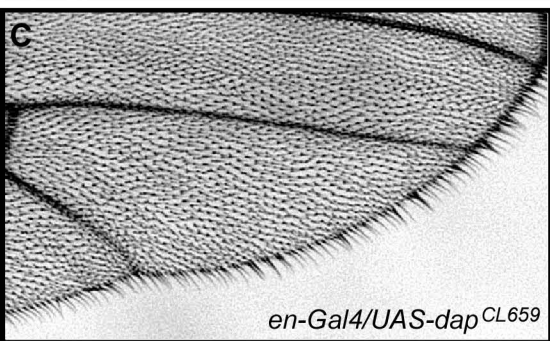
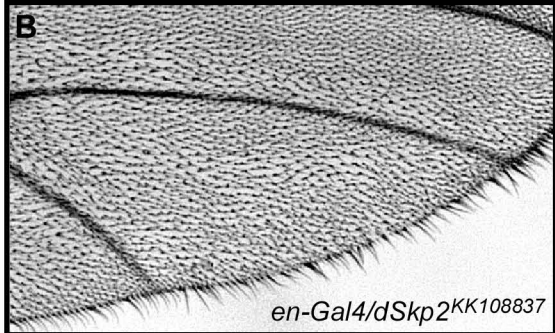
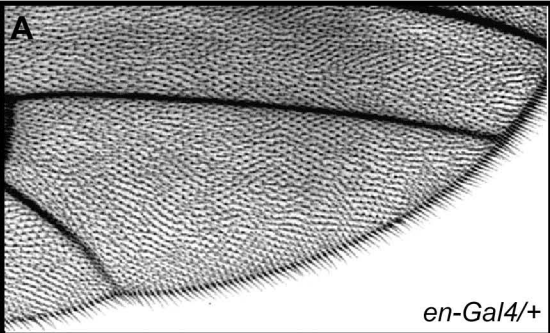
dSkp2

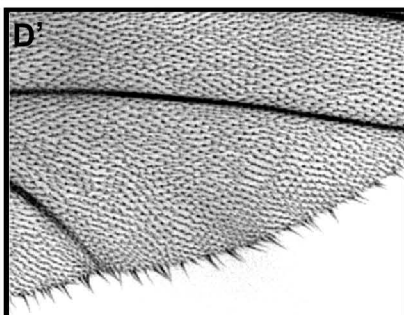
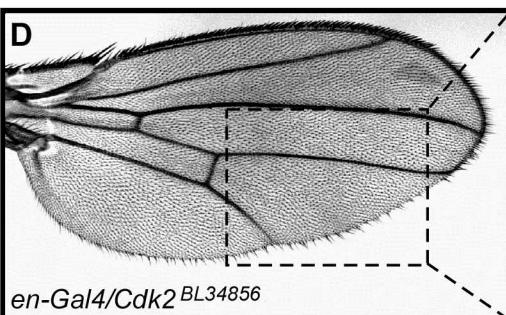
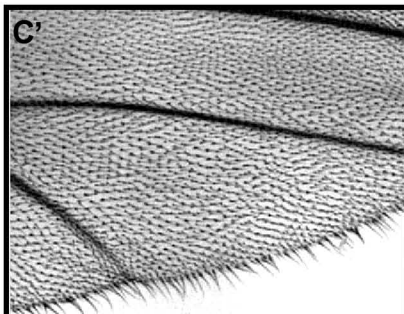
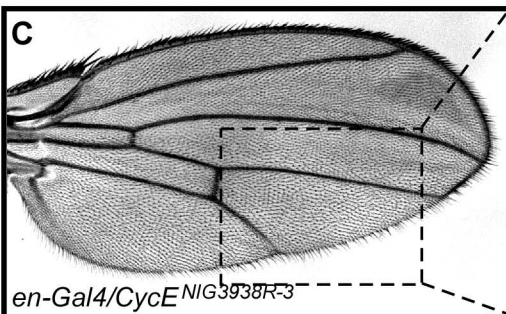
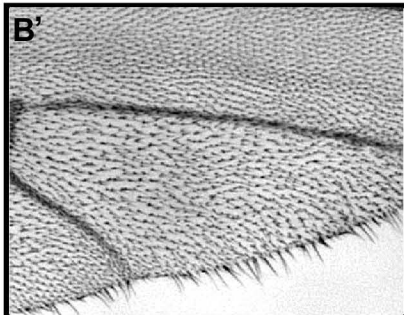
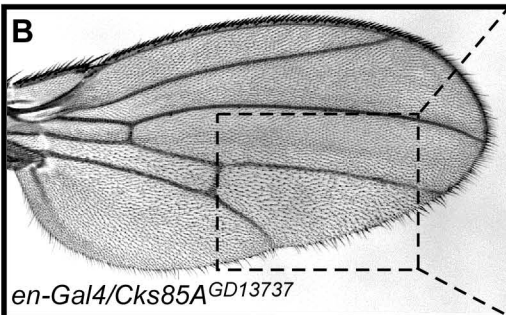
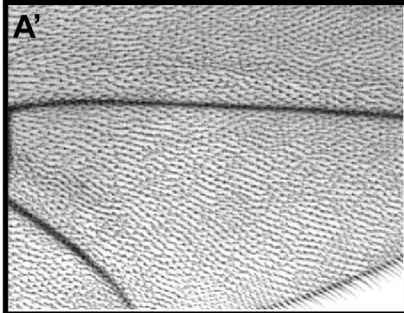
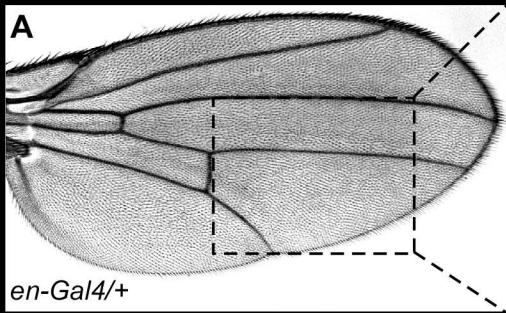


Rp49









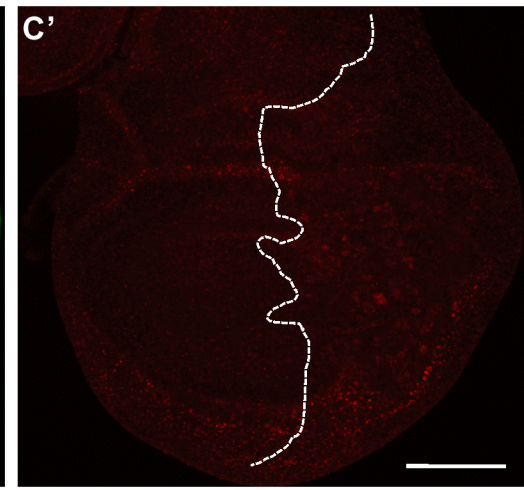
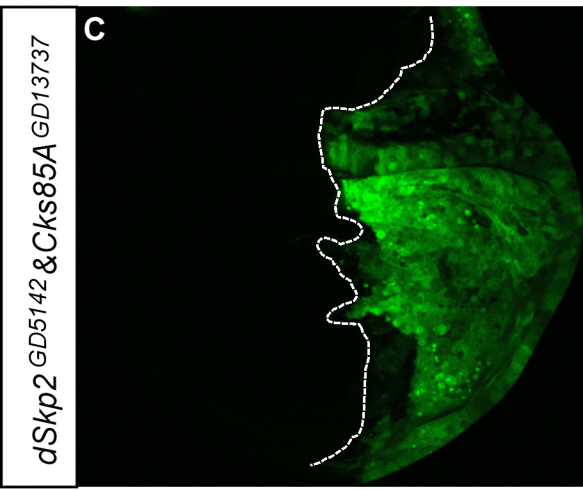
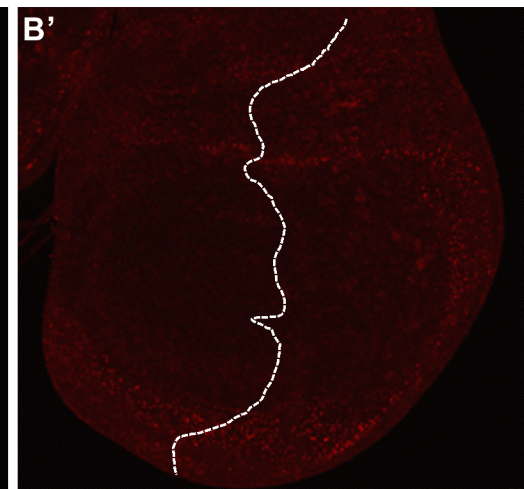
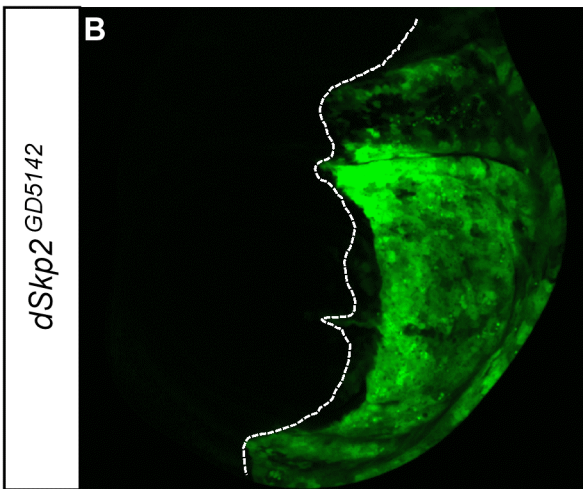
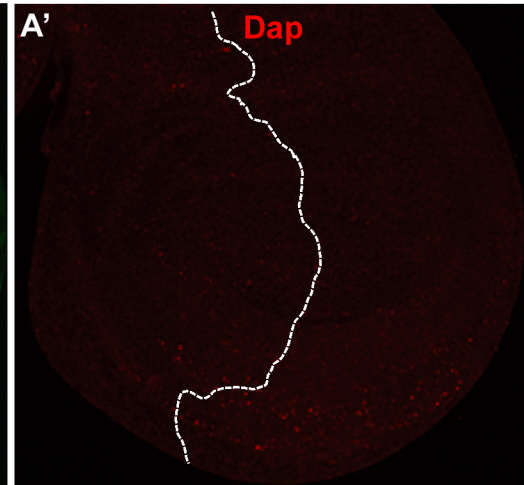
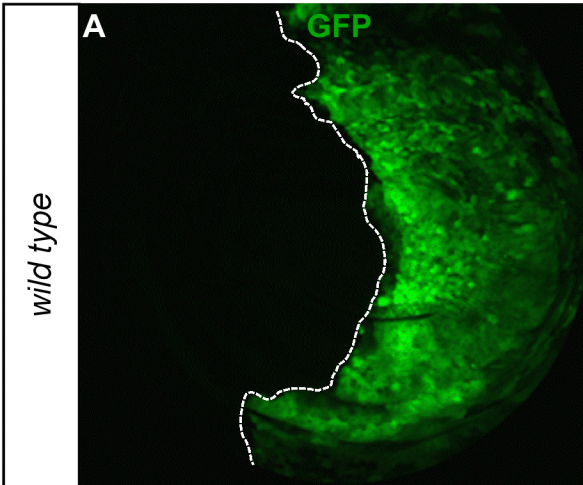


Table S1. Different RNAi lines of *dSkp2* lead to similar phenotype

	<i>en-Gal4</i>	<i>en-Gal4</i> in combination with <i>UAS-dcr2</i>
<i>dSkp2</i> ^{GD5142}	WHS++	Die in pupae+++
<i>dSkp2</i> ^{KK108837}	WHS+	WHS++
<i>dSkp2</i> ^{JF01326}	Normal-	WHS+
<i>dSkp2</i> ^{HMS00116}	WHS+	WHS++

WHS: Wing-Hair-Spacing