**Supplementary Table S1**. Analyzed genotypes of *Drosophila*

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| For immunohistochemistry and observation of adult wings | | | | |
| Analyzed tissue | | | Denoted as | Genotype |
| Adult wing/Wing discs | Control | | *C96*>+ | *C96-GAL4*/+ |
| *en*>*GFP* | *en-UAS-GFP, GAL4*/+ |
| *ms1096*>+ | *ms1096-GAL4*/+ |
| dBCAS2-depletion | | *C96*>*dBCAS2dsRNA* | *UAS-dBCAS2dsRNA*/+; *C96-GAL4*/+ |
| *en*>*GFP*, *dBCAS2dsRNA* | *en-UAS-GFP, GAL4*/*UAS-dBCAS2dsRNA* |
| *ms1096*>*dBCAS2dsRNA* | *ms1096-GAL4*/+; *UAS-dBCAS2dsRNA*/+ |
| 3xFLAG-dBCAS2 overexpression | | *ms1096*>*dBCAS2* | *ms1096-GAL4*/+; *UAS*-*dBCAS2*/+ |
| *en*>*GFP*, *dBCAS2* | *en-UAS-GFP, GAL4*/*UAS-dBCAS2* |
| hBCAS2 overexpression | | *en*>*GFP*, *hBCAS2* | *en-UAS-GFP, GAL4/UAS-hBCAS2* |
| dBCAS2-depletion rescued with ectopic expression of 3xFLAG~~-~~dBCAS2 | | *ms1096*>*dBCAS2dsRNA*, *dBCAS2* | *ms1096-GAL4*/+; *UAS-dBCAS2dsRNA*, *UAS-3xFLAG-dBCAS2*/+ |
| *en*>*GFP*, *dBCAS2dsRNA*, *dBCAS2* | *UAS-GFP, en-GAL4*/*UAS-dBCAS2dsRNA*, *UAS~~-~~dBCAS2* |
| dBCAS2-depletion rescued with ectopic expression of hBCAS2 | | *en*>*GFP*, *dBCAS2dsRNA,* *hBCAS2* | *en-UAS-GFP, GAL4*/*UAS-dBCAS2dsRNA, UAS-hBCAS2* |
| p35 overexpression | | *en>GFP, p35* | *en-UAS-GFP, GAL4/+*; *UAS-p35/+* |
| dBCAS2-depletion with p35 overexpression | | *en>GFP, dBCAS2dsRNA, p35* | *en-UAS-GFP, GAL4*/*UAS-dBCAS2dsRNA*; *UAS-p35/+* |
| Dl overexpression | | *C96>Dl* | *C96-GAL4/UAS-Dl* |
| dBCAS2-depletion with Dl overexpression | | *C96>dBCAS2dsRNA, Dl* | *UAS-dBCAS2dsRNA/+; C96-GAL4/UAS-Dl* |
| E(spl)m8-lacZ reporter | Control | *en*>*GFP* | *E(spl)m8-lacZ*/+; *UAS-GFP,* *en-GAL4*/+ |
| dBCAS2-depletion | *en*>*GFP*, *dBCAS2dsRNA* | *E(spl)m8-lacZ*/+; *UAS-GFP, en-GAL4*/*UAS-dBCAS2dsRNA* |
| Dl-lacZ reporter | Control | *en*>*GFP* | *en-UAS-GFP, GAL4*/+; *Dl-lacZ*/+ |
| dBCAS2-depletion | *en*>*GFP*, *dBCAS2dsRNA* | *UAS-GFP, en-GAL4* /*UAS-dBCAS2dsRNA*; *Dl-lacZ*/+ |
| Pupal retina | Control | | *GMR*>*+* | *GMR-GAL4*/+ |
| 3xFLAG-dBCAS2 overexpression | | *GMR*>*dBCAS2* | *GMR-GAL4*/*UAS-dBCAS2* |
| dBCAS2-depletion | | *GMR*>*dBCAS2dsRNA* | *GMR-GAL4*/*UAS-dBCAS2dsRNA* |
| Dl overexpression | | *GMR*>*Dl* | *GMR-GAL4*/+; *UAS*-*Dl*/+ |
| Dl overexpression rescued with depletion of dBCAS2 | | *GMR*>*Dl*, *dBCAS2dsRNA* | *GMR-GAL4*/*UAS*-*dBCAS2dsRNA*; *UAS*-*Dl*/+ |
| Coexpression of Dl and GFP | | *GMR*>*Dl*, *GFP* | *UAS-GFP*/+;*GMR-GAL4*/+; *UAS*-*Dl*/+ |

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| For quantitative RT-PCR analysis | | | |
| CNSs and imaginal discs | Control | *Act5C*>+ | *Act5C-GAL4*/+ |
| dBCAS2-depletion | *Act5C*>*dBCAS2dsRNA* | *Act5C-GAL4*/*UAS*-*dBCAS2dsRNA* |
| dBCAS2-depletion rescued with ectopic expression of hBCAS2 | *Act5C*> *dBCAS2dsRNA,* *hBCAS2* | *Act5C-GAL4*/*UAS*- *dBCAS2dsRNA,* *UAS*-*hBCAS2* |
| dBCAS2-depletion rescued with ectopic expression of 3xFLAG-dBCAS2 | *Act5C*>*dBCAS2dsRNA*, *dBCAS2* | *Act5C-GAL4*/*UAS*- *dBCAS2dsRNA,* *UAS*-*dBCAS2* |