

Table EV2. List of *Drosophila* genotypes

Figure	Genotype
1B, 1C	<i>tj-Gal4</i> , UAS-Anillin RNAi/+; UAS-Myr:GFP, tub-Gal80 ^{ts} /UAS-mCherry <i>tj-Gal4</i> , UAS-Anillin RNAi/UAS-ECad; UAS-Myr:GFP, tub-Gal80 ^{ts} /+ <i>tj-Gal4</i> /UAS-ECad; UAS-Myr:GFP, tub-Gal80 ^{ts} /+
1D, 1E, 1F, 1G	<i>tj-Gal4</i> , UAS-Anillin RNAi/+; UAS-Myr:GFP, tub-Gal80 ^{ts} /UAS-mCherry <i>tj-Gal4</i> , UAS-Anillin RNAi/UAS-CAM or UAS-ECM-protein RNAi; UAS-Myr:GFP, tub-Gal80 ^{ts} /+ <u>or</u> <i>tj-Gal4</i> , UAS-Anillin RNAi/+; UAS-Myr:GFP, tub-Gal80 ^{ts} /UAS-CAM or UAS-ECM-protein RNAi
2B, 2C	<i>tj-Gal4</i> , ECad:GFP/+; <i>Dys</i> ^{E17/Df} <i>tj-Gal4</i> , ECad:GFP/UAS-Anillin RNAi <i>tj-Gal4</i> , ECad:GFP/UAS-Anillin RNAi; <i>Dys</i> ^{E17/Df} <i>tj-Gal4</i> , ECad:GFP/+; <i>Dys</i> ^{MI025024/Df} <i>tj-Gal4</i> , ECad:GFP/UAS-Anillin RNAi; <i>Dys</i> ^{MI025024/Df}
2D, 2E	<i>tj-Gal4</i> /UAS-mRFP:Anillin <i>tj-Gal4</i> /UAS-mRFP:Anillin; <i>Dys</i> ^{MI025024/Df} <i>tj-Gal4</i> /UAS-mRFP:Anillin; <i>Dys</i> ^{E17/Df}
3A	<i>tj-Gal4</i> , UAS-Dg:GFP/UASp-mRFP:Anillin
3B	Dg:GFP/Sqh:3xmKate2
3C, 3D	Sqh:3xmKate2/+; <i>Dys</i> :sfGFP
3E	Tub:RFP/+; <i>Dys</i> :sfGFP
4A	GFP:aPKC/CyO IF/CyO; <i>Dys</i> :sfGFP <i>Dys</i> ^{short} :sfGFP/TM3 <i>Dys</i> ^{long} :sfGFP/TM3
4B	Sqh:3xmKate2/+; <i>Dys</i> ^{short} :sfGFP Sqh:3xmKate2/+; <i>Dys</i> ^{long} :sfGFP
4C, 4D	<i>tj-Gal4</i> , ECad:GFP/+; MKRS/TM6 <i>tj-Gal4</i> , ECad:GFP/+; <i>Dys</i> ^{long181/Df} <i>tj-Gal4</i> , ECad:GFP/UAS-Anillin RNAi <i>tj-Gal4</i> , ECad:GFP/UAS-Anillin RNAi; <i>Dys</i> ^{long181/Df} <i>tj-Gal4</i> , ECad:GFP/+; <i>Dys</i> ^{RE225/Df} <i>tj-Gal4</i> , ECad:GFP/UAS-Anillin RNAi; <i>Dys</i> ^{RE225/Df}
5A	<i>tj-Gal4</i> , Zip:GFP/UAS-Anillin RNAi <i>tj-Gal4</i> , Zip:GFP/UAS-Anillin RNAi; <i>Dys</i> ^{E17/Df}

5B	<i>tj-Gal4</i> , Zip:GFP/+ <i>tj-Gal4</i> , Zip:GFP/UAS-Anillin RNAi <i>tj-Gal4</i> , Zip:GFP/UAS-Anillin RNAi; <i>Dys</i> ^{E17/Df}
5C	<i>tj-Gal4</i> , Zip:GFP/UAS-Anillin RNAi <i>tj-Gal4</i> , Zip:GFP/UAS-Anillin RNAi; <i>Dys</i> ^{E17/Df} <i>tj-Gal4</i> , Zip:GFP/UAS-Anillin RNAi; <i>Dys</i> ^{long181/Df} <i>tj-Gal4</i> , Zip:GFP/UAS-Anillin RNAi; <i>Dys</i> ^{RE225/Df}
5D, 5E	<i>tj-Gal4</i> , Sqh:3xmKate2/+ <i>Dg</i> ^{086/043} ; Sqh:3xmKate2/+ Sqh:3xmKate2/+; <i>Dys</i> ^{E17/Df}
5F	<i>tj-Gal4</i> , Zip:GFP/+ <i>tj-Gal4</i> , Zip:GFP/+; <i>Dys</i> ^{long181/Df} <i>tj-Gal4</i> , Zip:GFP/+; <i>Dys</i> ^{R225/Df}
5G	<i>tj-Gal4</i> , Sqh:3xmKate2/+ <i>Dg</i> ^{086/043} ; Sqh:3xmKate2/+ Sqh:3xmKate2/+; <i>Dys</i> ^{E17/Df} <i>tj-Gal4</i> , Zip:GFP/+ <i>tj-Gal4</i> , Zip:GFP/+; <i>Dys</i> ^{long181/Df} <i>tj-Gal4</i> , Zip:GFP/+; <i>Dys</i> ^{RE225/Df}
EV1A, EV1B	<i>tj-Gal4</i> , UAS-Anillin RNAi/+; UAS-Myr:GFP, tub-Gal80 ^{ts} /UAS-mCherry
EV2A	<i>tj-Gal4</i> , ECad:GFP/+; UAS-mCherry RNAi/+ <i>tj-Gal4</i> , ECad:GFP/+; UAS-ECad RNAi/+
EV2B	<i>tj-Gal4</i> /+; UAS-mCherry/+ <i>tj-Gal4</i> /+; UAS-NCad RNAi/+
EV2C	<i>tj-Gal4</i> /+; tub-Gal80 ^{ts} /UAS-mCherry RNAi <i>tj-Gal4</i> /+; tub-Gal80 ^{ts} /UAS-Fas2 RNAi
EV2D	<i>tj-Gal4</i> /+; tub-Gal80 ^{ts} /UAS-mCherry RNAi <i>tj-Gal4</i> /+; tub-Gal80 ^{ts} /UAS-Fas3 RNAi
EV2E	<i>tj-Gal4</i> , Ed:GFP/+; UAS-mCherry RNAi <i>tj-Gal4</i> , Ed:GFP/UAS-Ed RNAi; +/-
EV2F	Nrg:GFP/+; <i>tj-Gal4</i> /+ Nrg:GFP/+; <i>tj-Gal4</i> /+; UAS-Nrg RNAi/+
EV2G	<i>tj-Gal4</i> /+; UAS-mCherry/+ <i>tj-Gal4</i> /+; UAS- β PS-integrin RNAi/+

EV2H	<i>tj-Gal4/Dg:GFP; UAS-mCherry RNAi/+</i> <i>tj-Gal4/Dg:GFP; UAS-Dg RNAi/+</i>
EV2I	<i>tj-Gal4/+; LanA:GFP/UAS-mCherry</i> <i>tj-Gal4/+; LanA:GFP/UAS-LanA RNAi</i>
EV2J	<i>tj-Gal4/+; LanB1:GFP/UAS-mCherry RNAi</i> <i>tj-Gal4/+; LanB1:GFP/LanB1 RNAi</i>
EV2K	<i>tj-Gal4/+; UAS-mCherry/+</i> <i>tj-Gal4/+; UAS-Perlecan RNAi/+</i>
EV2L	<i>tj-Gal4/Collagen IV:GFP; tub-Gal80^{ts}/+</i> <i>tj-Gal4/Collagen IV:GFP; tub-Gal80^{ts}/UAS-Collagen IV RNAi</i>
EV3A	<i>tj-Gal4, ECad:GFP/+; UAS-mCherry RNAi/+</i> <i>tj-Gal4, ECad:GFP/+; UAS-ECad RNAi/+</i>
EV3B	<i>tj-Gal4, UAS-Anillin RNAi/+; UAS-Myr:GFP tub-Gal80^{ts}/UAS-mCherry</i> <i>tj-Gal4, UAS-Anillin RNAi/+; UAS-Myr:GFP tub-Gal80^{ts}/UAS-αPS1 RNAi #1</i> <i>tj-Gal4, UAS-Anillin RNAi/+; UAS-Myr:GFP, tub-Gal80^{ts}/UAS-βPS RNAi #1</i> <i>tj-Gal4, UAS-Anillin RNAi/+; UAS-Myr:GFP, tub-Gal80^{ts}/UAS-βPS RNAi #2</i> <i>tj-Gal4, UAS-Anillin RNAi/+; UAS-Myr:GFP, tub-Gal80^{ts}/UAS-Dg RNAi</i> <i>tj-Gal4, UAS-Anillin RNAi/UAS-Kug RNAi; UAS-Myr:GFP, tub-Gal80^{ts}/+</i> <i>tj-Gal4, UAS-Anillin RNAi/+; UAS-Myr:GFP, tub-Gal80^{ts}/UAS-Collagen IV RNAi</i> <i>tj-Gal4, UAS-Anillin RNAi/+; UAS-Myr:GFP, tub-Gal80^{ts}/UAS-Perlecan RNAi</i>
EV3C	<i>tj-Gal4/+; UAS-Myr:GFP, tub-Gal80^{ts}/UAS-mCherry</i> <i>tj-Gal4/UAS-Kug RNAi; UAS-Myr:GFP, tub-Gal80^{ts}/+</i> <i>tj-Gal4/UAS-Ed RNAi; UAS-Myr:GFP, tub-Gal80^{ts}/+</i> <i>tj-Gal4/+; UAS-Myr:GFP, tub-Gal80^{ts}/UAS-Nrg RNAi #1</i> <i>tj-Gal4/+; UAS-Myr:GFP, tub-Gal80^{ts}/UAS-NrxIV RNAi</i> <i>tj-Gal4/+; UAS-Myr:GFP, tub-Gal80^{ts}/UAS-Dg RNAi</i> <i>tj-Gal4/+; UAS-Myr:GFP, tub-Gal80^{ts}/UAS-Perlecan RNAi</i> <i>tj-Gal4/+; UAS-Myr:GFP, tub-Gal80^{ts}/UAS-Cals RNAi</i>
EV3D	<i>tj-Gal4, ECad:GFP/Gal80^{ts}; UAS-mCherry RNAi/UAS-Dg RNAi</i> <i>tj-Gal4, ECad:GFP/Gal80^{ts}; UAS-mCherry RNAi/UAS-Tum RNAi</i> <i>tj-Gal4, ECad:GFP/Gal80^{ts}; UAS-Dg RNAi/UAS-Tum RNAi</i>
EV4C	<i>Sqh:3xmKate2/Dg:GFP</i>
EV4D	<i>Sqh:3xmKate2/+; Dys:GFP/+</i>
EV5A	<i>Dys^{short}:sfGFP/+</i>
EV5B	<i>Dys^{long}:sfGFP/+</i>

EV5C	<i>tj-Gal4</i> , Sqh:3xmKate2/+; <i>Dys</i> ^{short} :GFP/+ <i>tj-Gal4</i> , Sqh:3xmKate2/+; <i>Dys</i> ^{shortΔSR24} :GFP/+ <i>tj-Gal4</i> , Sqh:3xmKate2/+; <i>Dys</i> ^{shortΔSD} :GFP/+ <i>tj-Gal4</i> , Sqh:3xmKate2/+; <i>Dys</i> ^{shortΔCT} :GFP/+
EV5D	<i>tj-Gal4</i> , Sqh:3xmKate2/+; <i>Dys</i> ^{short} :GFP/+
EV5E	<i>tj-Gal4</i> , Sqh:3xmKate2/+; <i>Dys</i> ^{shortΔSR24} :GFP/+
EV5F	<i>tj-Gal4</i> , Sqh:3xmKate2/+; <i>Dys</i> ^{shortΔSD} :GFP/+
EV5G	<i>tj-Gal4</i> , Sqh:3xmKate2/+; <i>Dys</i> ^{shortΔCT} :GFP/+