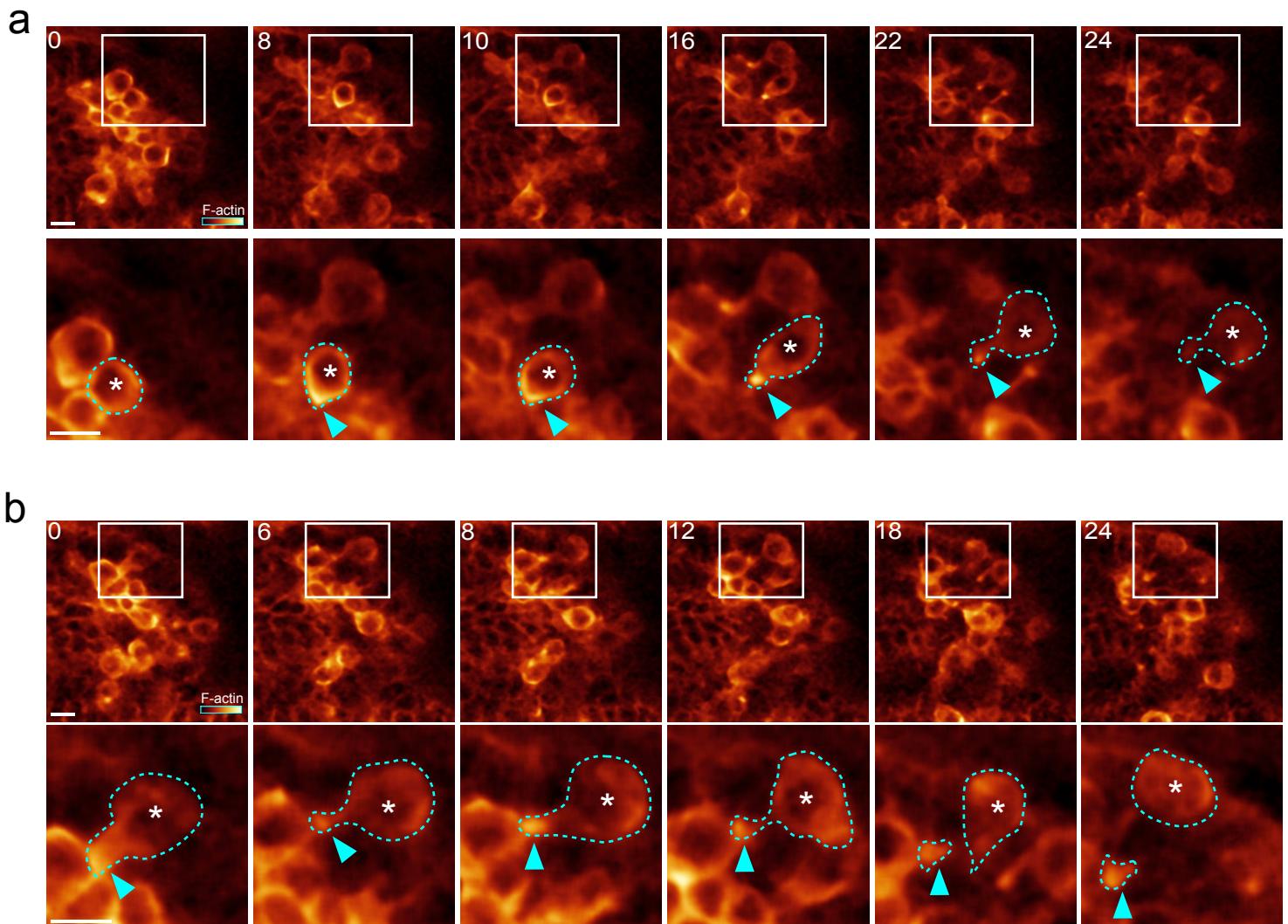


Supplementary Information

Collectively stabilizing and orienting posterior migratory forces disperses cell clusters *in vivo*

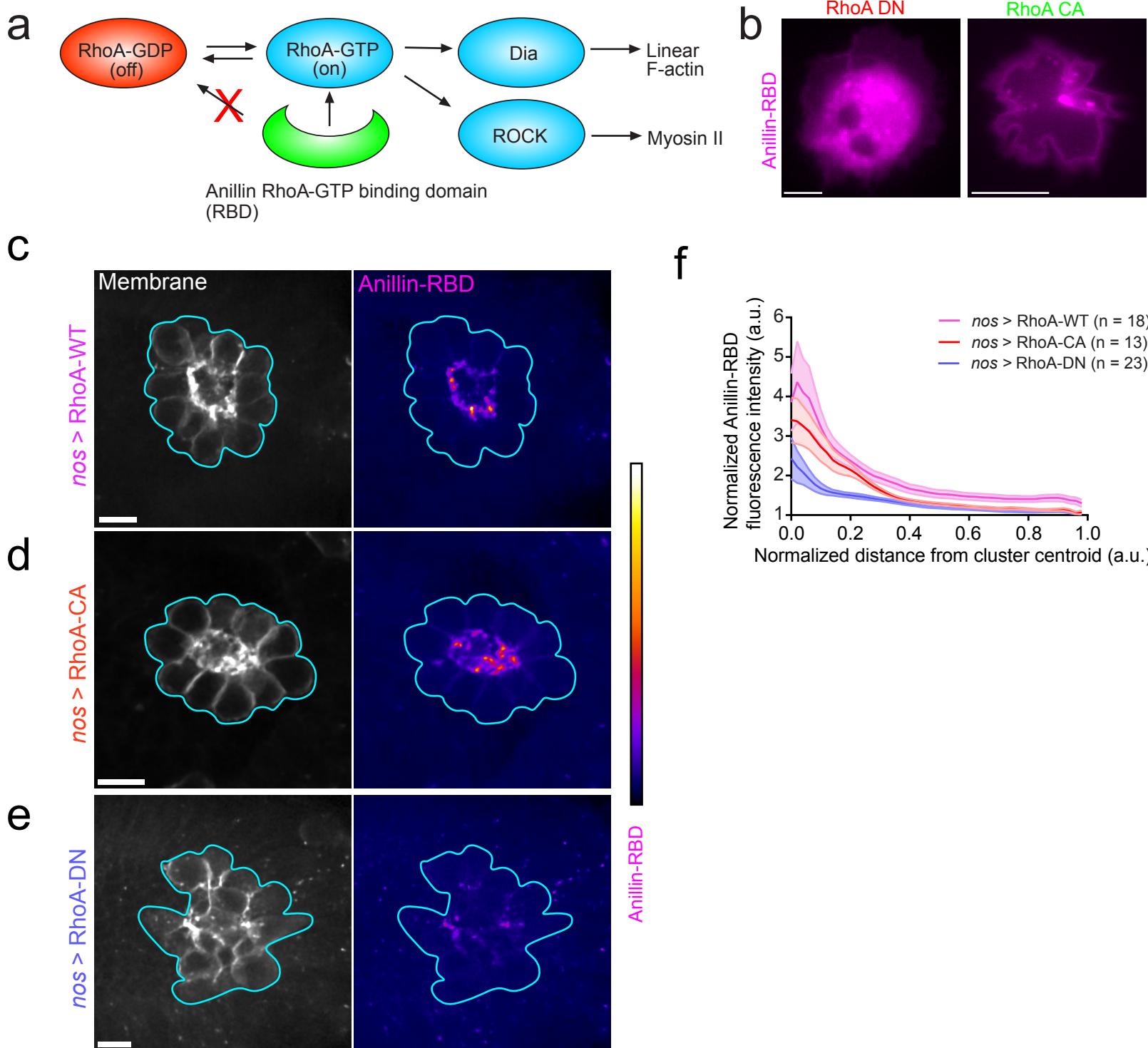
Lin et al.

Fig. S1- Tail phenotypes during PGC dispersal



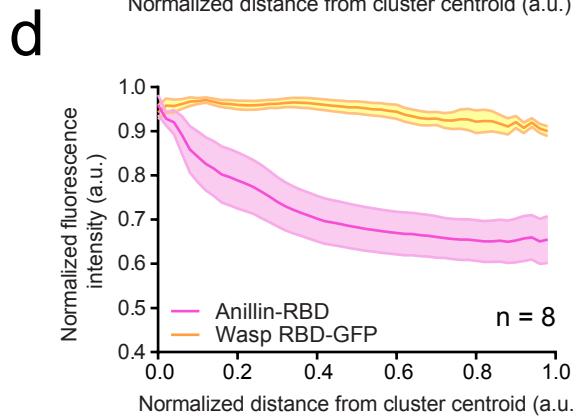
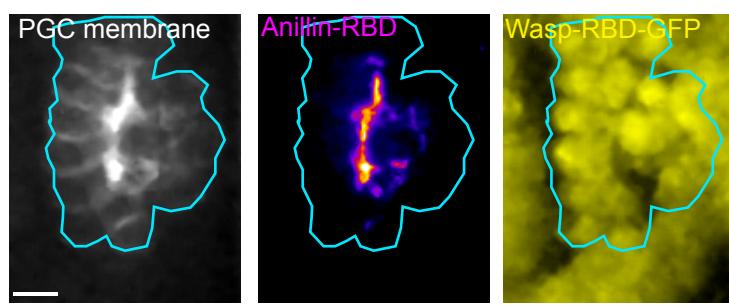
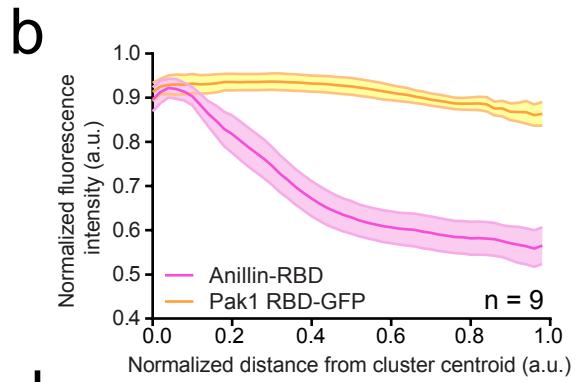
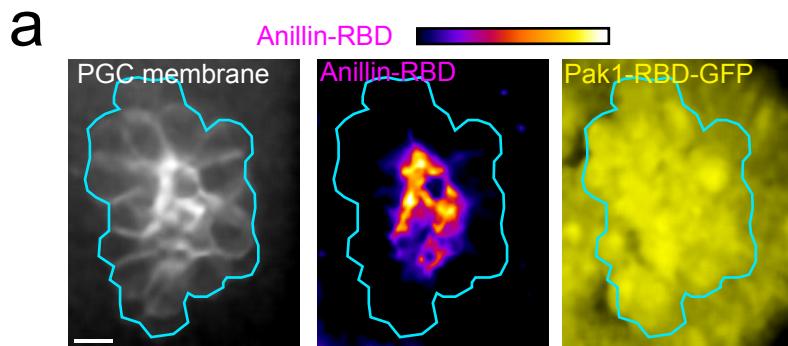
a-b, Two photon timelapse imaging of different Z slices from the WT PGC cluster shown in Figure 1 during dispersal, highlighting F-actin foci at PGC tails which are retained (**a**) or detached (**b**). F-actin is visualized with lifeact-tdTomato, which is pseudocolored with the indicated color bar in the first image (Intensity ranges- 662 - 13000 (**a**), 680 to 11000 (**b**)). The white rectangle indicates the subregion expanded in the bottom row. Cyan dashed lines outline PGCs, white asterisks track PGCs, and cyan arrows mark PGC tails. Representative images are from $n = 6$ embryos. Times indicated are in minutes. Scale bars, 10 μm .

Fig. S2- Characterization of the Anillin RhoA-GTP binding domain



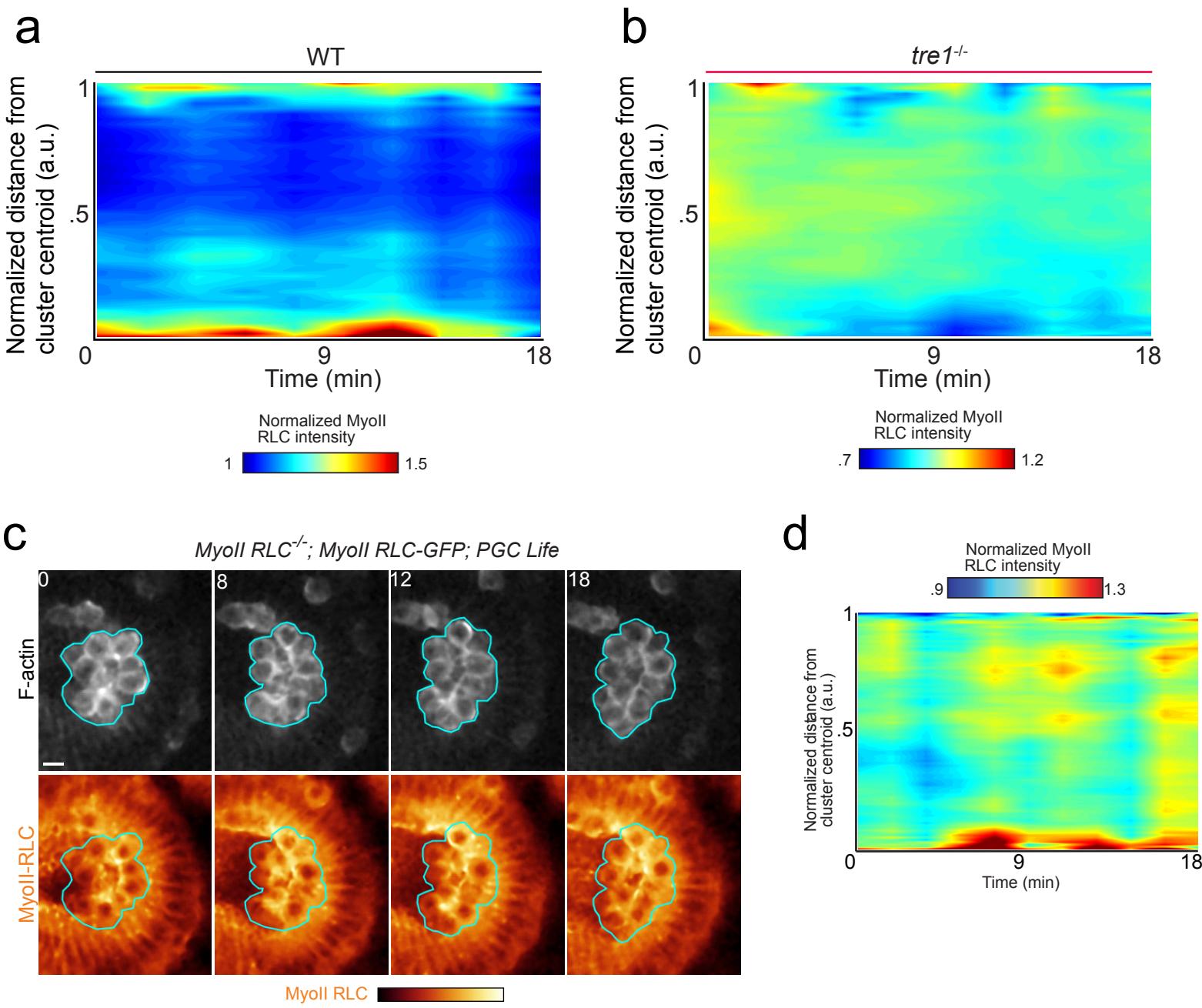
a, Schematic depicting simplified RhoA pathway and how the RhoA-GTP binding domain (RBD) of Anillin selectively interacts with GTP bound (active) RhoA. **b**, Anillin-RBD-tdTomato localization in S2 cells transfected with RhoA G14V (Constitutively active (CA)) and RhoA T19N (Dominant negative (DN)). The Anillin-RBD is cytoplasmic when RhoA DN is co-expressed, while it is enriched along the membrane when RhoA CA is co-expressed. Representative image is from $n = 2$ independent transfections. **c-e**, Two photon imaging of individual Z slices from the center of Anillin-RBD expressing PGC clusters which overexpress (c) RhoA-WT, (d) RhoA-Constitutively Active (CA), or (e) RhoA-Dominant Negative (DN). A membrane marker is also expressed (tdKatushka2-CAAX). The Anillin-RBD is pseudocolored with the color bar on the right (Intensity range- 73 to 1000 in c-e). Representative images are from $n = 18$ embryos in c, $n = 13$ embryos in d, and $n = 23$ embryos in e. **f**, Quantification of normalized Anillin-RBD intensity relative to distance from the cluster centroid from PGC clusters overexpressing the indicated RhoA constructs. Number of clusters are indicated. Shaded regions represent SEM. All scale bars, 10 μ m.

Fig. S3- Rac1 and Cdc42 binding domains are not polarized in PGC clusters



a, Two photon imaging of a representative WT PGC cluster expressing the Anillin-RBD, Pak1-Rho binding domain (RBD)-GFP, and membrane marker (tdKatushka2-CAAX). A single Z slice is shown. Anillin-RBD is pseudocolored with color bar above (Intensity range- 1689 - 3771). Representative images are from $n = 9$ embryos. **b**, Quantification of normalized fluorescence intensity of the Anillin-RBD and Pak1-RBD-GFP in PGC clusters relative to the distance from the cluster centroid. Number of embryos are indicated. Shaded regions are SEM. **c**, Two photon imaging of a representative WT PGC cluster expressing the Anillin-RBD, Wasp-RBD-GFP, and membrane marker (tdKatushka2-CAAX). A single Z slice is shown. Anillin-RBD is pseudocolored with color bar above **a** (Intensity range- 1108 - 3508). Representative images are from $n = 8$ embryos. **d**, Quantification of normalized fluorescence intensity of the Anillin-RBD and Wasp-RBD-GFP in PGC clusters relative to the distance from the cluster centroid. Number of embryos are indicated. Shaded regions are SEM. All scale bars, 10 μ m.

Figure S4. Myosin II dynamics in WT and *tre1* PGC clusters



a-b, Quantification of normalized Myosin II RLC-GFP intensity vs. distance from the cluster centroid over time. These are the individual myosin II heatmaps from the WT (**a**) or *tre1*^{-/-} (**b**) PGC clusters shown in Fig. 3e (**a**) and Fig. 3f (**b**). Myosin II RLC-GFP is pseudocolored with the indicated color bar on bottom. Note that the scaling is different between **a** and **b** to visualize dynamics. The enrichment near the cluster center in **a** is not present in **b**. **c**, Two photon timelapse imaging of a representative WT PGC cluster for 18 minutes prior to endoderm EMT with the indicated genotype on top. All myoII RLC provided to the organism is GFP tagged. A single Z slice is shown over time. Myosin II RLC-GFP is pseudocolored with color bar on bottom (Intensity range- 4000 - 11000). Representative images are from $n = 5$ embryos. Times are in minutes. Scale bars, 10 μ m. **d**, Quantification of normalized Myosin II RLC-GFP intensity vs. distance from the cluster centroid over time from the cluster in **c**. The heatmap is interpolated. Myosin II RLC-GFP is pseudocolored with the indicated color bar on top.

Fig. S5- Optimization of 3'UTR for conditional overexpression in PGCs

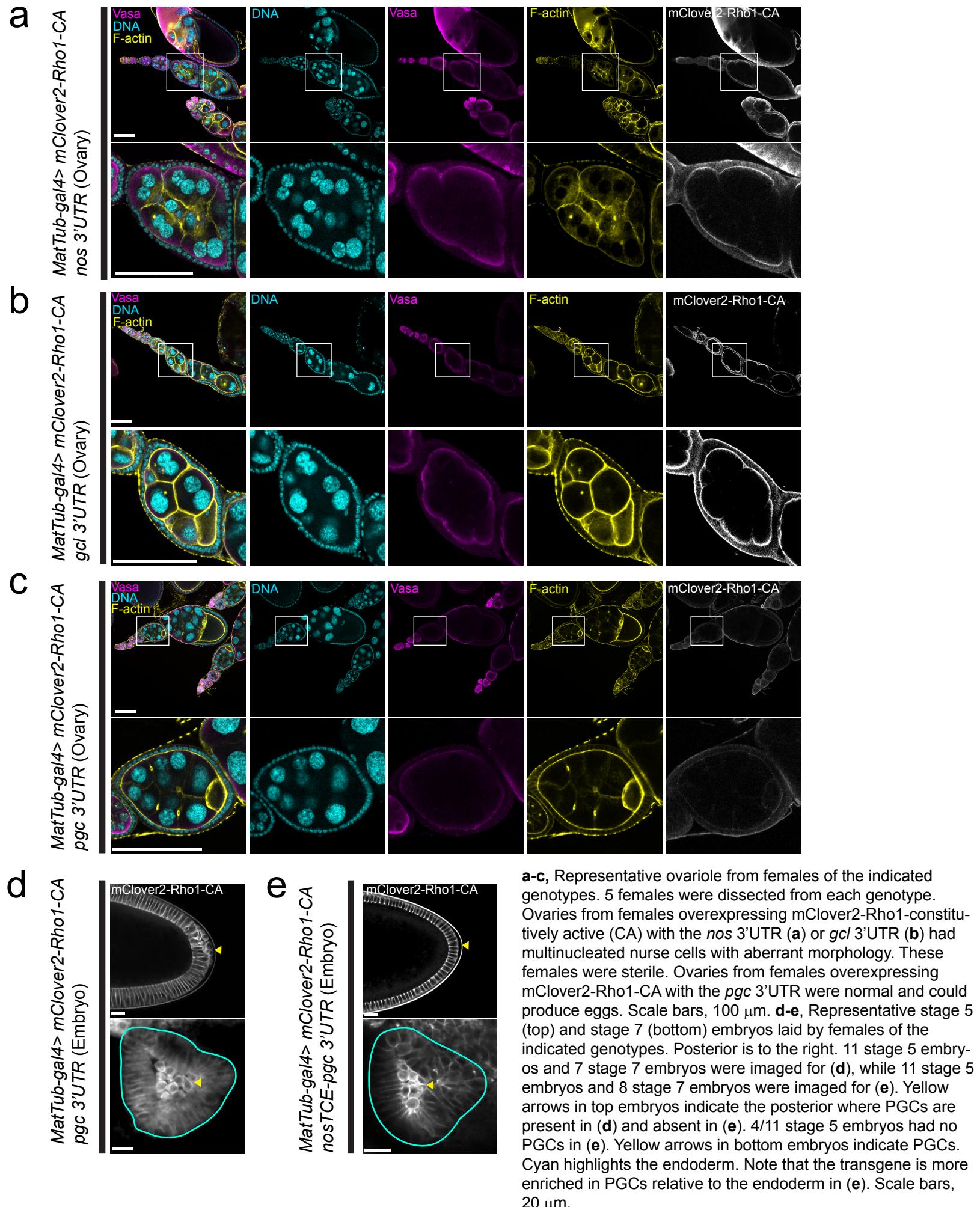
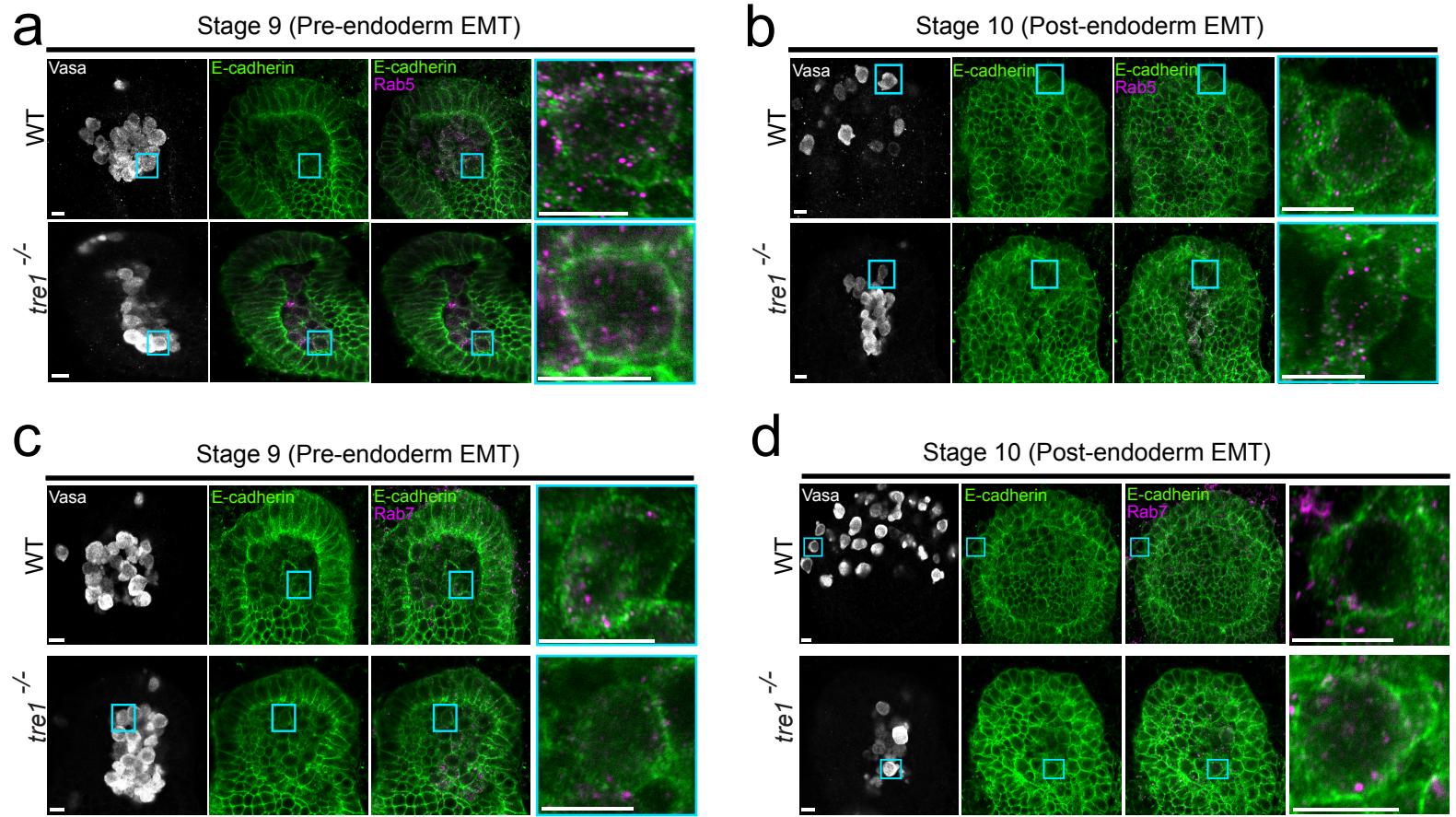


Fig. S6- E-cadherin remains present on PGC membranes before and after endoderm EMT



a-b, Confocal imaging of a single Z slice from representative WT and *tre1*^{-/-} embryos stained prior to endoderm EMT (**a**, stage 9) and after endoderm EMT (**b**, stage 10) for Vasa, Ecadherin, and Rab5. Representative images are from n= 7 WT and n = 4 *tre1*^{-/-} embryos in **a** and n = 4 WT and n = 6 *tre1*^{-/-} embryos in **b**. **c-d**, Confocal imaging of a single Z slice from representative WT and *tre1*^{-/-} embryos stained prior to endoderm EMT (**c**, stage 9) and after endoderm EMT (**d**, stage 10) for Vasa, Ecadherin, and Rab7. Representative images are from n= 7 WT and n = 8 *tre1*^{-/-} embryos in **c** and n = 9 WT and n = 5 *tre1*^{-/-} embryos in **d**. Scale bars, 10 μ m.

	Supplementary Table 1	
Figure	Genotype	Source
1A, C	nos-Lifeact-tdTomato-P2A-tdKatushka2-CAAX	This study
1B	tre1 ^{epΔ5} ; nos-Lifeact-tdTomato-P2A-tdKatushka2-CAAX	
1D, F-H	Matα-gal4::vp16 (67)/UASp(FRT.His2B-GFP)His2B-mKO; nos-Lifeact-tdTomato-p2a-tdKatushka2-CAAX	Matα-gal4::vp16 (67)- BL7062 UASp(FRT.His2B-GFP)His2B-mKO- Xin Chen ¹
1E, F-H	tre1 ^{epΔ5} ; Matα-gal4::vp16 (67)/UASp(FRT.His2B-GFP)His2B-mKO; nos-Lifeact-tdTomato-p2a-tdKatushka2-CAAX	
2A,C	nos-tdTomato-Anillin-RBD-P2A-tdKatushka2-CAAX/+	nos-tdTomato-Anillin-RBD-P2A-tdKatushka2-CAAX ²
2B,C	tre1 ^{epΔ5} ; nos-tdTomato-Anillin-RBD-P2A-tdKatushka2-CAAX/+	
2D,E	Matα-gal4::vp16 (67)/P{UASp-dia.RBD-GFP}; nos-tdTomato-Anillin-RBD-P2A-tdKatushka2-CAAX/+	P{UASp-dia.RBD-GFP}- BL52291
2F,G,I	nos-tdTomato-Anillin-RBD-P2A-tdKatushka2-CAAX/P{sqh-GFP-Rok}30	P{sqh-GFP-Rok}30- BL52289
2H,I	tre1 ^{epΔ5} ; nos-tdTomato-Anillin-RBD-P2A-tdKatushka2-CAAX/P{sqh-GFP-Rok}30	
3A, C-D	nos-tdTomato-Anillin-RBD-P2A-tdKatushka2-CAAX/+; P{sqh-GFP.RLC}3/+	P{sqh-GFP.RLC}3- BL57145
3B, C-D	tre1 ^{epΔ5} ; nos-tdTomato-Anillin-RBD-P2A-tdKatushka2-CAAX/+; P{sqh-GFP.RLC}3/+	
3E, H	nos-Lifeact-tdTomato-P2A-tdKatushka2-CAAX; P{sqh-GFP.RLC}3	
3F, H	tre1 ^{epΔ5} ; nos-Lifeact-tdTomato-P2A-tdKatushka2-CAAX; P{sqh-GFP.RLC}3	
3I-J	nos-Lifeact-tdTomato-P2A-tdKatushka2-CAAX; MyoII::3XGFP	MyoII::3XGFP- Yohanns Bellaïche ³
4B, D-I	Donor- nos-Lifeact-tdTomato-P2A-tdKatushka2-CAAX; MyoII::3XGFP Host- Tud ^{A36-38} /Tud ¹ ; nos-Lifeact-tdTomato-P2A-tdKatushka2-CAAX/+	Tud ^{A36-38} , Tud ¹ - Ruth Lehmann
4C, D-I	Donor- tre1 ^{epΔ5} ; nos-Lifeact-tdTomato-P2A-tdKatushka2-CAAX; MyoII::3XGFP Host- Tud ^{A36-38} /Tud ¹ ; nos-Lifeact-tdTomato-P2A-tdKatushka2-CAAX/+	
5A, C-E	y ¹ w ¹ cv ¹ sqh ^{AX3} ; P{w[+mC]=sqh-GFP.RLC}2; UASp-degradFP- nos TCE-pgc 3'UTR, nos-Lifeact-tdTomato-P2A-tdKatushka2-CAAX/+ (female) X P{nullo-GAL4.G}5.20, P{w[+mC]=UAS-sqh.WT}TM1 (male)	y1 w* cv1 sqhAX3; P{w[+mC]=sqh-GFP.RLC}2- BL57144 UASp-degradFP-nos TCE-pgc 3'UTR- This study P{nullo-GAL4.G}5.20- BL26875 P{w[+mC]=UAS-sqh.WT}TM1- DGRC 109808
5B, C-E	y ¹ w ¹ cv ¹ sqh ^{AX3} ; P{w[+mC]=sqh-GFP.RLC}2; UASp-degradFP- nos TCE-pgc 3'UTR, nos-Lifeact-tdTomato-P2A-tdKatushka2-CAAX/ P{w[+mC]=matalpha4-GAL-VP16}V37, P{sqh-GFP.RLC}3 (female) X P{nullo-GAL4.G}5.20, P{w[+mC]=UAS-sqh.WT}TM1 (male)	P{w[+mC]=matalpha4-GAL-VP16}V37- BL7063
5F-G	P{GAL4::VP16-nos.UTR}CG6325 ^{MVD1} (female) (Experiment) X w[*]; P[w+, UASp-CIBN::pmGFP]; P[w+, UASp-RhoGEF2-CRY2::mCherry] (male)	P{GAL4::VP16-nos.UTR}CG6325 ^{MVD1} - BL4937 P[w+, UASp-CIBN::pmGFP], P[w+, UASp-RhoGEF2-CRY2::mCherry]- Stefano De Renzis ⁴
5F-G	P{GAL4::VP16-nos.UTR}CG6325 ^{MVD1} (female) (Control) X w[*]; P[w+, UASp-CIBN::pmGFP] (male)	
6A, C	Donor- Ecad::3xGFP; nos-Lifeact-tdTomato-P2A-tdKatushka2-CAAX Host- nos-Lifeact-tdTomato-P2A-tdKatushka2-CAAX	Ecad::3xGFP- Yohanns Bellaïche ³
6B, C	Donor- tre1 ^{epΔ5} ; Ecad::3xGFP; nos-Lifeact-tdTomato-P2A-tdKatushka2-CAAX Host- tre1 ^{epΔ5} ; nos-Lifeact-tdTomato-P2A-tdKatushka2-CAAX	
6D, F	Control- Matα-gal4::vp16 (67)/+; nos-Lifeact-tdTomato-P2A-tdKatushka2-CAAX/+ Ecadherin-OE- Matα-gal4::vp16 (67)/UASp-DE-cadherin-mClover2-nos TCE-pgc 3'UTR; nos-Lifeact-tdTomato-P2A-tdKatushka2-CAAX/+	UASp-DE-cadherin-mClover2-nos TCE-pgc 3'UTR- This study
6E, G	Control- MatTub-gal4/+; nos-Lifeact-tdTomato-P2A-tdKatushka2-CAAX/+ Neuroglian-OE- MatTub-gal4/UASp-Neuroglian-mClover2-nos TCE-pgc 3'UTR; nos-Lifeact-tdTomato-P2A-tdKatushka2-CAAX/+	MatTub-gal4- This study UASp-Neuroglian-mClover2-nos TCE-pgc 3'UTR- This study
6H, J	Control- tre1 ^{epΔ5} ; Matα-gal4::vp16 (67)/+; nos-Lifeact-tdTomato-P2A-tdKatushka2-CAAX/+ Ecadherin-OE- tre1 ^{epΔ5} ; Matα-gal4::vp16 (67)/UASp-DE-cadherin-mClover2-nos TCE-pgc 3'UTR; nos-Lifeact-tdTomato-P2A-tdKatushka2-CAAX/+	
6I, J	Control- tre1 ^{epΔ5} ; MatTub-gal4/+; nos-Lifeact-tdTomato-P2A-tdKatushka2-CAAX/+ Neuroglian-OE- tre1 ^{epΔ5} ; MatTub-gal4/UASp-Neuroglian-mClover2-nos TCE-pgc 3'UTR; nos-Lifeact-tdTomato-P2A-tdKatushka2-CAAX/+	
7A,C, E-G	Donor- nos-Lifeact-tdTomato-P2A-tdKatushka2-CAAX Host- tre1 ^{epΔ5} , nos-EGFP::moe; nos-EGFP::moe	nos-EGFP::moe- Ruth Lehmann

7B,D, E-G	Donor- nos-Lifeact-tdTomato-P2A-tdKatushka2-CAAX Host- nos-EGFP::moe	
Fig. S1A,B	nos-Lifeact-tdTomato-P2A-tdKatushka2-CAAX	
Fig. S2C,F	nos-tdTomato-Anillin-RBD-P2A-tdKatushka2-CAAX/+; P{GAL4::VP16-nos.UTR}CG6325MVD1 (Female) X w[*]; P{w[+mC]=UAS-Rho1.W}3	P{w[+mC]=UAS-Rho1.W}3- BL28872
Fig. S2D,F	nos-tdTomato-Anillin-RBD-P2A-tdKatushka2-CAAX/+; P{GAL4::VP16-nos.UTR}CG6325MVD1 (Female) X w[*]; P{w[+mC]=UAS-Rho1.V14}2.1 (male)	P{w[+mC]=UAS-Rho1.V14}2.1- BL8144
Fig. S2E,F	nos-tdTomato-Anillin-RBD-P2A-tdKatushka2-CAAX/+; P{GAL4::VP16-nos.UTR}CG6325MVD1 (Female) X w[*]; P{w[+mC]=UAS-Rho1.N19}2.1 (male)	P{w[+mC]=UAS-Rho1.N19}2.1- BL7328
Fig. S3A,B	P{w[+mC]=sqh-Pak1.RBD-GFP}21/+; nos-tdTomato-Anillin-RBD-P2A-tdKatushka2-CAAX/+	P{w[+mC]=sqh-Pak1.RBD-GFP}21- BL56549
Fig. S3C,D	P{sqh-WASp.RBD-GFP}378a P{sqh-WASp.RBD-GFP}378b/ nos-tdTomato-Anillin-RBD-P2A-tdKatushka2-CAAX	P{sqh-WASp.RBD-GFP}378a, P{sqh-WASp.RBD-GFP}378b - BL56746
Fig. S4A	nos-Lifeact-tdTomato-P2A-tdKatushka2-CAAX; P{sqh-GFP.RLC}3	
Fig. S4B	tre1 ^{epd5} ; nos-Lifeact-tdTomato-P2A-tdKatushka2-CAAX; P{sqh-GFP.RLC}3	
Fig. S4C,D	y1 w* cv1 sqhAX3; P{w[+mC]=sqh-GFP.RLC}2; nos-Lifeact-tdTomato-P2A-tdKatushka2-CAAX	
Fig. S5A	MatTub-gal4/UASp-mClover2-Rho1-G14V-nos 3'UTR	UASp-mClover2-Rho1-G14V-nos 3'UTR- This study
Fig. S5B	MatTub-gal4/UASp-mClover2-Rho1-G14V-gcl 3'UTR	UASp-mClover2-Rho1-G14V-gcl 3'UTR- This study
Fig. S5C,D	MatTub-gal4/UASp-mClover2-Rho1-G14V-pgc 3'UTR	UASp-mClover2-Rho1-G14V-pgc 3'UTR- This study
Fig. S5E	MatTub-gal4/UASp-mClover2-Rho1-G14V-nos TCE-pgc 3'UTR	UASp-mClover2-Rho1-G14V-nos TCE-pgc 3'UTR- This study
Fig. S6	WT- Ecad::3xGFP tre1 ^{1/-} - tre1 ^{epd5} , Ecad::3xGFP	
	References	
	1. Tran, V., Lim, C., Xie, J. & Chen, X. Asymmetric division of Drosophila male germline stem cell shows asymmetric histone distribution. <i>Science</i> (New York, N.Y.) 338, 679-682 (2012).	
	2. Kong, D. et al. In vivo optochemical control of cell contractility at single cell resolution. <i>EMBO Reports</i> , EMBR1310	
	3. Pinheiro, D. et al. Transmission of cytokinesis forces via E-cadherin dilution and actomyosin flows. <i>Nature</i> 545, 103 (2017).	
	4. Izquierdo, E., Quinkler, T. & De Renzis, S. Guided morphogenesis through optogenetic activation of Rho signalling during early Drosophila embryogenesis. <i>Nature Communications</i> 9, 2366 (2018).	

Supplementary Table 2

Primer name	sequence	Purpose
pwal22_loxp_rev	CATACATTATAACGAAGTTATAAGCTGGTACTACTAGT	Create pwaliium22 infusion template lacking UAS and K10
pwal22_k10end_fwd	GCGTGCTTGGAGCTGAG	Create pwaliium22 infusion template lacking UAS and K10
pwal22_nhel_nos5utr_fwd	TTCGTATAATGTATGgctgcAAGCTTCGACCGTTAACCTCG	Clone <i>nos</i> 5'UTR and promoter into pwaliium22
nos5utr_Zral_nos3utr_rev	CAGAGCTGGATTGCCCTCTgacgtcGGCGAAATCCGGGTCAAA	Clone <i>nos</i> 5'UTR and promoter into pwaliium22
nos3utr_fwd	AGAGGGCGAATCCAGCTC	Clone <i>nos</i> 3'UTR into pwaliium22
pwal22_ecori_nos3utr_rev	AGCTCCAAGCACGCgaattCCTAAATTGTAACCATTCTTATTGGCACTC	Clone <i>nos</i> 3'UTR into pwaliium22
Pwaliium22_Nhel_rev	GCTAGCGGCTGAATATGGGAT	Create pwaliium22 infusion template with UAS and lacking K10
pwal22_nhel_gprk2_fwd	tccatattcagccgttagcATGGAATTAGAGAATATTGTGGCCAATACG	Clone GPRK2 as a spacer into pwaliium22 with <i>nos</i> TCE-pgc 3'UTR
gprk2_zral_nosTCE_pgc3_fwd	CGACGGTCGAAAGCTGAgacgtcAGAGGGCGAATCCAGCTCTGGAGCAGAGGCTCTGG CAGCTTTGCAGCGTTATAACATGAAATATATACGCATTCCGATCAAAGCTGGGTTctggacctccaaaagcc	Clone GPRK2 as a spacer into pwaliium22 with <i>nos</i> TCE-pgc 3'UTR
pwal22_ecori_pgc3UTR_rev	AGCTCCAAGCACGCgaattcACGATTGCAATCGAAAAATATTCTATCTATTTTG	Clone the <i>pgc</i> 3'UTR into pwaliium22
gcl3utr_fwd_224	GCACGTGCTGAGCAGTC	Clone the <i>gcl</i> 3'UTR into pwaliium22
gcl3utr_ecori_pwal22_rev	CCCTCAGCTCAAAGCACGCgaattcTTATTAAGTGAATCTTAATAATGTCACTCAAGGTAATGTTACTG	Clone the <i>gcl</i> 3'UTR into pwaliium22
nos5_zral_Lifeact_fwd	CGACCCGGATTTCCGacATGGGTGTCGCGGACCTCATCAAGAAGTCGAGAGTATTCCAAGGAAGAG agtgcagggtggaaagtgcgtggaggcagtgcaggtaATGGTGAGCAAGGGCG	Clone lifeact-tdtomato-p2a-tdkatushka2-CAAX into pwaliium22 with nos regulatory elements
tdtomato_nostop_p2a_rev	ggggccgggttcctccacgtcgccgcgtctcgcaggagaagtggggccCTTGTACAGCTGTCCATGC	Clone lifeact-tdtomato-p2a-tdkatushka2-CAAX into pwaliium22 with nos regulatory elements
p2aoverlap_tdkatushka_fwd	tggaggagaacccccggccccATGGTGGGTGAGGATAGCG	Clone lifeact-tdtomato-p2a-tdkatushka2-CAAX into pwaliium22 with nos regulatory elements
tdKatushka2_caax_stop_zral_nos3utr	agttggattcgccctgacTTAcatgtacacatttcgtttcgacttttttttttgcacatccgtcatctttttttGCTGTGCCAGTTGC	Clone degradFP system into pwaliium22 with <i>nos</i> TCE-pgc 3'UTR
pw22_nhei_NSImb-vhhGFP4_fwd	tcacatattcagccgttagcATGATGAAAATGGAGACTGACAAAATAATGGA	Clone degradFP system into pwaliium22 with <i>nos</i> TCE-pgc 3'UTR
NSImb-vhhGFP4_stop_nosTCE_rev	CAGAGCTGGATTGCCCTCTgacTTAGCTGGAGACGGTGAC	Clone degradFP system into pwaliium22 with <i>nos</i> TCE-pgc 3'UTR
pw22_nhei_shotgun_fwd	TTCGTATAATGTATGgctgcATGTCACCAGTGTCCAGC	Clone dE-cadherin-mClover2 into pwaliium22 with <i>nos</i> TCE-pgc 3'UTR
shotgun_linker_rev	tccacctgcactgcctccaggcactccaccgtcactGATGCGCCAGCCCTG	Clone dE-cadherin-mClover2 into pwaliium22 with <i>nos</i> TCE-pgc 3'UTR
linker_mclover2_fwd	ctggaggcagtgcaggtaATGGTGAGCAAGGGCGA	Clone dE-cadherin-mClover2 into pwaliium22 with <i>nos</i> TCE-pgc 3'UTR
mClover2_stop_zral_NosTCE_rev	CAGAGCTGGATTGCCCTCTgacttaCTTGTACAGCTGTCCATGC	Clone dE-cadherin-mClover2 into pwaliium22 with <i>nos</i> TCE-pgc 3'UTR
pw22_nhei_uasp_NRG_fwd	tccatattcagccgttagcATGTGGGGCAGTC	Clone Neuroglian-mClover2 into pwaliium22 with <i>nos</i> TCE-pgc 3'UTR
NRG_linker_rev	tccacctgcactgcctccaggcactccaccgtcactAAGTCCTTGCCTCATATTGG	Clone Neuroglian-mClover2 into pwaliium22 with <i>nos</i> TCE-pgc 3'UTR

Rho1G14V_fwd_137	GTCGGCGACGtcGCCTGCGGT A	site directed mutagenesis for creating Rho1 constitutively active
Rho1G14V_rev_138	AATTACCAATTCTTGCATCGTC	site directed mutagenesis for creating Rho1 constitutively active
Rho1T19N_fwd_139	TGCGGTAAAAacTGCCCTCTGATTGTCTTCAGCAAAG	site directed mutagenesis for creating Rho1 dominant negative
Rho1T19N_rev_140	GGCACCGTCGCCGACAAT	site directed mutagenesis for creating Rho1 dominant negative
pwal22_nhel_mclover2_fwd	tcccatattcagccgctagcGCCACCATGGTGAGCAAG	Clone mClover2-Rho1 constructs
mClover2_nostop_linker_rev	tccacctgcactgcctccagactCTTGTACAGCTCGTCCATGC	Clone mClover2-Rho1 constructs
linker_rho1_fwd	ctggaggcagtgcagggtgaATGACGACGATTGCAAGAAATTG	Clone mClover2-Rho1 constructs
rho1g14v_stop_nos3utr_rev	cagagctggattcgcccttTTAGAGCAAAAGGCATCTGGCTTC	Clone mClover2-Rho1 G14V with nos 3'UTR
rho1g14v_stop_pgc3utr_rev	ttggctttggagggtccagTTAGAGCAAAAGGCATCTGGCTTC	Clone mClover2-Rho1 G14V with pgc 3'UTR
rho1g14v_stop_gcl3utr_rev	gtggactgctcagcacgtgcTTAGAGCAAAAGGCATCTGGCTTC	Clone mClover2-Rho1 G14V with gcl 3'UTR
pac5_fwd_infus	AGACATGATAAGATACATTGATGAGTTG	Create actin promoter infusion template
pac5_rev_infus	CCGATCCGGGGTCTCT	Create actin promoter infusion template
pAc_mclover2_fwd	ATCCAGAGACCCCGATCGGGCACCATGGTGAGCAA	Clone mClover2-Rho1 constructs into actin promoter vector
rho1_stop_sv40pa_rev	CAATGTATCTTATCATGTCTtaGAGCAAAGGCATCTGGCTTC	Clone mClover2-Rho1 constructs into actin promoter vector
pw22_atub67c_prom_fwd	TTCGTATAATGTATGgctagCTGACAAATGAAGCTTACCTGTATTAGT	Clone MatTub-Gal4 into pw22
atub67c_prom_rev	GCCAATCTGGATGGAGACTACTT	Clone MatTub-Gal4 into pw22
atub67c_Gal4_fwd	tagtctccatccagattggcAAGCTGCTGAGTAGTATTGAACAA	Clone MatTub-Gal4 into pw22
Gal4_rev	CTACTCCTCTTGGGTTCGGT	Clone MatTub-Gal4 into pw22
gal4_atub84b_pw22 (Gblock)	ACCCAAAGAAGGAGTAGacGCGTCACGCCACTCAACGCTCGATGGGAGCGTCATTGGGGCGGGTAACCGTCGAAATCAGTGTT TACGCTTC CAATCGCAACAAAAAAATTACTGCAACACTGAAAAGCATAACGAAAACGATGAAGATTGTACGAGAAACCATAAAAGTATTTATCCACA AAAGACACGTATAGCAGAAAAGCCAAGTTAACCGCGATAAGTTGTACACAAGAATAAAATCGGCCAGATTCAAGTGTTCAGAAA TAAAGgtcgaaattcGCGTGTCTTGG	Clone MatTub-Gal4 into pw22