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# Matrix stiffness drives epithelial–mesenchymal transition and tumour metastasis through a TWIST1–G3BP2 mechanotransduction pathway

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Matrix stiffness potently regulates cellular behaviour in various biological contexts. In breast tumours, the presence of dense clusters of collagen fibrils indicates increased matrix stiffness and correlates with poor survival. It is unclear how mechanical inputs are transduced into transcriptional outputs to drive tumour progression. Here we report that TWIST1 is an essential mechanomediator that promotes epithelial-mesenchymal transition (EMT) in response to increasing matrix stiffness. High matrix stiffness promotes nuclear translocation of TWIST1 by releasing TWIST1 from its cytoplasmic binding partner G3BP2. Loss of G3BP2 leads to constitutive TWIST1 nuclear localization and synergizes with increasing matrix stiffness to induce EMT and promote tumour invasion and metastasis. In human breast tumours, collagen fibre alignment, a marker of increasing matrix stiffness, and reduced expression of G3BP2 together predict poor survival. Our findings reveal a TWIST1–G3BP2 mechanotransduction pathway that responds to biomechanical signals from the tumour microenvironment to drive EMT, invasion and metastasis.

Breast tumours are often detected by manual palpation, as they are more rigid than their surrounding normal tissue. This increase in tissue rigidity, or matrix stiffness, plays a significant role during tumour progression<sup>1–5</sup>. Organized collagen fibre alignment, which is a surrogate marker for increasing matrix stiffness in the tumour microenvironment, is associated with breast tumour progression<sup>6–8</sup>. The importance of mechanical forces in regulating cellular behaviours is also evident during embryogenesis<sup>9–11</sup>. For example, mesenchymal stem cells undergo lineage selection into either neurons or muscle and bone in response to distinct matrix elasticities<sup>12</sup>. The transcription coactivator YAP accumulates in the nucleus in stiffer matrices to allow osteogenic differentiation of mesenchymal stem cells<sup>13</sup>. How changes in the mechanical properties of extracellular matrix are converted into biochemical and transcriptional responses to direct tumour cell behaviour remains unknown.

Studies have shown that human mammary epithelial cells form normal ductal acini on compliant matrices that recapitulate the stiffness of normal mammary glands. On matrices with increased rigidity similar to breast tumours, however, cells lose apical-basal polarity, form weaker junctions and invade through the basement membrane<sup>1,2</sup>. These cellular changes in response to increasing stiffness resemble many morphological features associated with EMT, a developmental program also critical for tumour cell dissemination and metastasis<sup>14,15</sup>. During EMT, cells lose their epithelial characteristics, including cell junctions and polarity, and acquire a mesenchymal morphology and the ability to invade. The EMT program is orchestrated through a network of transcription factors, including TWIST1, TWIST2 (refs 16,17), SNAI1, SNAI2 (refs 18–20), ZEB1 and ZEB2 (refs 21,22). Therefore, we set out to understand how matrix stiffness regulates the EMT molecular pathway to promote tumour invasion and metastasis.

#### RESULTS

# TWIST1 is essential for matrix-stiffness-induced EMT and invasion

The basic helix–loop–helix (bHLH) transcription factor, TWIST1, is essential for the ability of tumour cells to metastasize through activation of EMT and extracellular matrix degradation<sup>16,23</sup>. Mechanical

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**Figure 1** TWIST1 is essential for matrix-stiffness-induced EMT and invasion. (a) Eph4Ras cells after 5 days of growth in 3D culture on polyacrylamide hydrogels with the indicated rigidities imaged by bright-field (top) or stained (bottom) for E-cadherin (green), fibronectin (red) and nuclei (blue; scale bars,  $25 \,\mu$ m). (b) Cell lysates from Eph4Ras cells expressing control and *Twist1* shRNAs were analysed by SDS–PAGE and probed for Twist1 and  $\beta$ -actin. Unprocessed original scans of the blots are shown in Supplementary Fig. 7. (c) Bright-field images of Eph4Ras cells expressing control or *Twist1* knockdown shRNAs after 5 days growth in 3D culture on polyacrylamide hydrogels with the indicated rigidities (scale bars,  $50 \,\mu$ m). (d) Quantification of invasive acini in 3D culture described in c from 3 independent experiments (\*\*\*, P < 0.001, unpaired two-tailed *t*-test with Welch's correction, n = 50 acini per experiment, 3 independent experiments, error bars represent s.d.).

forces induce Twist expression during *Drosophila* larval development<sup>24</sup>; therefore, we investigated whether increasing matrix stiffness regulates mammalian TWIST1 to promote EMT and tumour invasion. We employed a collagen-coated polyacrylamide hydrogel system with calibrated elastic moduli ranging from the ~150 pascals (Pa) of normal mammary glands to the ~5,700 Pa of breast tumour tissues<sup>1,25</sup> in a three-dimensional (3D) Matrigel overlay culture system<sup>26–28</sup>. Non-transformed human MCF10A and tumorigenic mouse Eph4Ras mammary epithelial cells were used because unlike normal mammary epithelial cells *in vivo*<sup>29</sup>, both cell lines endogenously express TWIST1, suggesting that genetic or epigenetic alterations predispose them to tumour progression<sup>23,30,31</sup>. Both cells developed polarized ductal acini surrounded by intact basement membrane on compliant

(e) Eph4Ras cells expressing control or *Twist1* knockdown shRNAs after 5 days growth in 3D culture on polyacrylamide hydrogels with the indicated rigidities stained for laminin V (red), E-cadherin (green) and nuclei (blue; scale bars,  $25 \,\mu$ m). (**f**,**g**) Eph4Ras cells expressing control or *Twist1* shRNAs were cultured in 3D culture with the indicated rigidities in the absence (**f**) or presence of  $5 \,n \text{gml}^{-1}$  TGF- $\beta$  (**g**) for 8 days and stained for E-cadherin (green), fibronectin (red) and nuclei (blue; scale bars,  $25 \,\mu$ m). (**h**-I) qPCR analysis of *Twist1* (**h**), *Snai1* (**i**), *Snai2* (**j**), *Zeb1* (**k**) and *Zeb2* (**I**) mRNA expression in Eph4Ras cells expressing control or *Twist1* shRNAs cultured under the indicated matrix rigidities in the absence or presence of  $5 \,n \,\text{gml}^{-1}$  TGF- $\beta$  (\*, P < 0.05; \*\*, P < 0.01; unpaired two-tailed *t*-test with Welch's correction, n = 3 independent experiments, statistics source data can be found in Supplementary Table 1; error bars represent s.d.).

150 Pa matrices. In contrast, at a high matrix stiffness of 5,700 Pa, cells presented a partial EMT phenotype (Fig. 1a), similar to the matrix-stiffness-induced malignant phenotype described previously<sup>1</sup>. Notably, the intact basement membrane observed at low stiffness was destabilized at high matrix stiffness, consistent with previous observations that increasing matrix stiffness induces cellular invasion<sup>1,2,32</sup> (Supplementary Fig. 1A). As loss of basement membrane integrity is a critical event during the metastatic cascade, we used this pronounced response as a functional readout of cellular invasion in conjunction with changes in EMT markers.

Using this system, we investigated whether TWIST1 is required for induction of EMT and invasion in response to high matrix stiffness. We generated Eph4Ras and MCF10A cells expressing short hairpin



**Figure 2** Matrix stiffness regulates TWIST1 nuclear localization. (a) qPCR analysis of MCF10A cells grown in 3D culture on polyacrylamide hydrogels with the indicated rigidities (not significant, unpaired two-tailed *t*-test with Welch's correction, n=3 independent experiments, statistics source data can be found in Supplementary Table 1; error bars represent s.d.). (b) Cell lysates from MCF10A cells grown in 3D culture on polyacrylamide

hydrogels with the indicated rigidities were analysed by SDS-PAGE and probed for TWIST1 and  $\beta$ -actin. Unprocessed original scans of the blots are shown in Supplementary Fig. 7. (c-e) Eph4Ras, MCF10A (c), Bt-549 (d) and MCF10DCIS (e) cells were cultured in 3D culture with the indicated rigidities for 5 days and stained for TWIST1 (green) and nuclei (blue; scale bars, 25  $\mu$ m).

RNAs (shRNAs) against TWIST1 and tested their mechanosensing competence (Fig. 1b and Supplementary Fig. 1B-D). Knockdown of TWIST1 prevented the invasive phenotype at 5,700 Pa; instead, these cells formed basally polarized acini with strong junctional E-cadherin on rigid matrices (Fig. 1c-f and Supplementary Fig. 1E). Importantly, knockdown of Twist1 prevented stiffness-induced basement membrane destabilization, as shown by basal laminin V staining (Fig. 1e), demonstrating that matrix-stiffness-induced invasion is Twist1-dependent. As high stiffness alone was not sufficient to induce a complete EMT (Fig. 1f), we investigated whether TWIST1 is also required for the induction of a full EMT by mechanical signals in concert with the EMT-inducing biochemical signal TGF- $\beta$  (ref. 33). Consistent with published data<sup>34</sup>, although TGF-B was not sufficient to induce EMT on soft matrix, rigid matrix together with TGF-B triggered a complete EMT, evidenced by both immunostaining and quantitative PCR (qPCR) analysis of EMT markers (Fig. 1g and Supplementary Fig. 1F,G). Importantly, knockdown of Twist1 completely blocked induction of EMT by TGF-B at high matrix stiffness and rescued acinar development (Fig. 1g). Together, these data indicate an essential role for TWIST1 in mediating matrix-stiffness-induced EMT and invasion.

As the EMT program is orchestrated synergistically by a number of EMT-inducing transcription factors, we next aimed to understand how the EMT transcription program is regulated by matrix stiffness and TGF- $\beta$ . The messenger RNA levels of EMT-inducing transcription factors, *Twist1*, *Snai1*, *Snai2*, *Zeb1* and *Zeb2* did not change significantly in response to changes in matrix stiffness alone (Fig. 1h–l). On TGF- $\beta$  treatment, only *Snai1* mRNA is markedly induced in a Twist1-independent manner (Fig. 1i), as reported previously<sup>31</sup>. However, without Twist1, TGF- $\beta$ -induced *Snai1* expression alone could not induce even a partial EMT or any invasive phenotype on soft or hard matrices (Fig. 1g). The mRNA expression levels of *Snai2*, *Zeb1* and *Zeb2* were significantly dampened on *Twist1* knockdown (Fig. 1j–l), further supporting a key role of TWIST1 in regulating EMT gene response. These data suggest that TWIST1-dependent mechanotransduction, together with induction of *Snai1* by TGF- $\beta$ , is required to induce a complete EMT at high matrix stiffness.

#### Matrix stiffness regulates TWIST1 nuclear localization

We next aimed to understand how TWIST1 is regulated by matrix stiffness to mediate EMT and invasion. As Drosophila *Twist* mRNA expression is induced by mechanical forces<sup>24</sup>, we examined TWIST1 mRNA and protein expression under various matrix rigidities and found no differences (Fig. 2a,b). Surprisingly, immunostaining showed that TWIST1 was largely cytoplasmic on the compliant matrix of 150 Pa and translocated into the nucleus on the rigid matrix of



Figure 3 TWIST1 and YAP nuclear localization are regulated by distinct mechanotransduction pathways. (a) MCF10A cells were cultured in 3D culture on polyacrylamide hydrogels with the indicated rigidities in the presence of a control IgG or a  $\beta$ 1-integrin-blocking antibody (AIIB2) for 5 days and stained for TWIST1 (green), YAP (red) and nuclei (blue; scale bars, 25 µm). (b,c) Bright-field images (scale bars, 50 µm; b) and confocal images of MCF10A cells cultured on micropatterned glass coverslips for 6 h stained for TWIST1 (green), YAP (red), F-actin

(greyscale) and nuclei (blue; scale bars,  $25\,\mu$ m; c). (d) Quantification of relative cytoplasmic localized TWIST1 and YAP. (#, not significant; \*, P < 0.01, unpaired two-tailed *t*-test with Welch's correction, n=25 cells per experiment, 3 independent experiments, error bars represent s.d.). (e) MCF10A cells were cultured in 3D culture on polyacrylamide hydrogels with the indicated rigidities in the absence or presence of leptomycin B and stained for TWIST1 (green), YAP (red) and nuclei (blue; scale bars,  $25\,\mu$ m).



**Figure 4** Matrix stiffness regulates the interaction between TWIST1 and G3BP2 to control TWIST1 subcellular localization. (a) Endogenous TWIST1 from MCF10A cell lysates was immunoprecipitated, analysed by SDS-PAGE and probed for G3BP2 and TWIST1. (b) Population plot of the putative G3BP2-binding domain motif. (c) Alignment of the putative G3BP2-binding domain in TWIST1 homologues. (d) Exogenously expressed wild-type (WT) and Gln105-Thr112 deletion (ΔQT) Myc-tagged Twist1 from 293T cell lysates were immunoprecipitated, analysed by SDS-PAGE and probed for G3BP2 and Myc. (e) Eph4Ras cells in 3D culture at the indicated rigidities were stained for G3BP2 (red) and nuclei (blue; scale bars, 50 μm). (f) Eph4Ras cells in 3D culture for 6 days at the indicated rigidities were analysed for Twist1 and G3bp2 interaction by *in situ* PLA assay, PLA signal (green) and DAPI (blue; scale bars, 25 μm. (g) Quantification

5,700 Pa. High-stiffness-induced nuclear translocation of TWIST1 was observed in human MCF10A and mouse Eph4Ras cells (Fig. 2c), and in MCF10DCIS and Bt-549 human breast cancer cells (Fig. 2d,e), suggesting that nuclear translocation of TWIST1 is a conserved response to increasing matrix stiffness. These results suggest that matrix stiffness could directly impinge on the EMT program by controlling TWIST1 nuclear translocation.

# TWIST1 subcellular localization is regulated by a distinct mechanotransduction pathway independent of YAP

We next investigated whether integrin activation is necessary for TWIST1 nuclear localization at high matrix stiffness because

of PLA signal normalized to cell number in 3D cultures described in **f** (\*\*\*, P < 0.001, unpaired two-tailed *t*-test with Welch's correction, n = 50 acini, 3 independent experiments, error bars represent s.d.). (**h**) Eph4Ras cells in 3D culture for 20 h at the indicated rigidities were analysed for Twist1 and G3bp2 interaction by *in situ* PLA assay, PLA signal (green) and DAPI(blue; scale bars,  $15\,\mu$ m). (**i**) Quantification of PLA signal (green) and DAPI(blue; scale bars,  $15\,\mu$ m). (**i**) Quantification of PLA signal normalized to cell number in 3D cultures described in **h** (\*\*\*, P < 0.001, unpaired two-tailed *t*-test with Welch's correction, n = 25 acini, 3 independent experiments, error bars represent s.d.). (**j**) Exogenously expressed wild-type (WT), Y107F and Y107E Myc-tagged Twist1 from 293T cell lysates were immunoprecipitated and analysed by SDS–PAGE, and probed for G3BP2 and Myc. Unprocessed original scans of the blots are shown in Supplementary Fig. 7.

mechanosensing responses to matrix stiffness are mediated in part through clustering and activation of integrins<sup>1,35</sup>. Treatment with a  $\beta$ 1integrin-blocking antibody (AIIB2) prevented nuclear translocation of TWIST1 and blocked the invasive phenotype induced by high matrix stiffness<sup>1,2</sup> (Fig. 3a), further supporting a critical role for TWIST1 in mediating matrix-stiffness-induced EMT and invasion. Notably, blockade of  $\beta$ 1-integrin activation also prevented nuclear localization of YAP, which was recently identified as one of the few known mechanoresponsive transcription regulators<sup>13</sup>. Therefore, integrin activation is critical to the mechanoregulation of both Twist1 and YAP.

Next we examined whether TWIST1 and YAP are regulated by similar mechanoregulatory machineries. As matrix stiffness also affects



**Figure 5** Loss of G3BP2 cooperates with increasing matrix stiffness to promote TWIST1 nuclear localization and EMT. (a) Cell lysates from Eph4Ras cells expressing control or *G3bp2* shRNAs were analysed by SDS–PAGE and probed for G3BP2 and  $\beta$ -actin. Unprocessed original scans of the blots are shown in Supplementary Fig. 7. (b) Eph4Ras cells expressing control or *G3bp2* shRNAs were cultured in 3D culture with the indicated rigidities for 5 days and stained for Twist1 (green) and nuclei (blue; scale bars, 50 µm). (c) Eph4Ras cells expressing control or *G3bp2* shRNAs were cultured in 3D culture different of the culture with varying rigidities for 5 days and stained for Twist1 (green) and nuclei (blue; scale bars, 50 µm). (c) Eph4Ras cells expressing control or *G3bp2* shRNAs were cultured in 3D culture with varying rigidities for 5 days and stained for E-cadherin (green), laminin V (red) and nuclei (blue; scale bars, 50 µm). (d) Quantification of invasive acini in 3D culture described in c from 3 independent experiments (\*\*\*, *P* < 0.001, unpaired two-tailed *t*-test with Welch's correction, *n*=50 acini per experiment, 3 independent experiments,

error bars represent s.d.). (e-h) qPCR analysis of G3bp2 (e), Snai2 (f), Cdh1 (g) and Vim (h) in Eph4Ras cells expressing control or G3bp2 shRNAs 3D cultured under the indicated matrix rigidities for 5 days (\*, P < 0.05; \*\*, P < 0.01; \*\*\*, P < 0.001, unpaired two-tailed *t*-test with Welch's correction, n=4 independent experiments, Supplementary Table 1, error bars represent s.d.). (i) Quantification of invasive acini of Eph4Ras cells expressing control (Ctrl shRNA1) or G3bp2 shRNAs, together with control (Ctrl shRNA2) or *Twist1* shRNA (Twist1 shRNA5), 3D cultured under the indicated matrix rigidities for 5 days, from 3 independent experiments (\*, P < 0.05; \*\*, P < 0.01, unpaired two-tailed *t*-test with Welch's correction, n=50 acini per experiment, 3 independent experiments; double knockdown compared with the respective single knockdown, error bars represent s.d.).



**Figure 6** Loss of G3BP2 induces tumour invasion *in vivo*. (a) Cell lysates from MCF10DCIS cells expressing control or *G3BP2* shRNAs were analysed by SDS–PAGE and probed for G3BP2 and GAPDH. Unprocessed original scans of the blots are shown in Supplementary Fig. 7. (b) Quantification of invasive acini formed by MCF10DCIS cells expressing control or *G3BP2* shRNAs cultured in 3D culture with varying rigidities for 5 days (\*, P < 0.05; \*\*, P < 0.01; \*\*\*, P < 0.001, unpaired two-tailed *t*-test with Welch's correction, n=50 acini per experiment, 3 independent experiments; error bars denote s.e.m.). (c) Tumour weight of MCF10DCIS xenograft tumours expressing control or *G3BP2* shRNAs (#, not statistically significant, unpaired two-tailed *t*-test with Welch's correction, n=20 tumours from 10 mice per group,

3 independent experiments, error bars represent s.d.). (d) Tissue sections of control and G3BP2 shRNA MCF10DCIS xenografts stained for G3BP2 (green),  $\alpha$ SMA (red) and nuclei (blue) and imaged by confocal microscopy (scale bars, 50 µm). (e) Fluorescent and bright-field images of GFP (green)-labelled MCF10DCIS xenograft tumours *in situ* (scale bars, 5 mm). (f) Quantification of local (MG-invasive) and regional (Peritoneum-invasive) invasion of MCF10DCIS xenograft tumours. (g,h) Fluorescent images (scale bars, 100 µm; g) and quantification (h) of lung metastases (green, indicated by arrows) from MCF10DCIS xenograft tumours (\*\*, *P* < 0.01, unpaired two-tailed *t*-test with Welch's correction, *n* = 10 mice per experiment, 3 independent experiments).





Figure 7 Downregulation of G3BP2 and increasing collagen organization synergistically predict poor outcome in breast cancer patients. (a) Confocal microscopy of normal human breast terminal ductal lobular units (TDLU) and ducts stained for G3BP2 (red) and nuclei (blue; scale bars,  $100 \,\mu$ m). (b) Representative images of stage-3 human breast tumours analysed for collagen organization by SHG (red), and stained for G3BP2 (green) and TO-PRO-3 for nuclei (blue) respectively (scale bars,  $100 \,\mu$ m). (c) Kaplan–Meier curve

cell shape, we sought to distinguish their impacts on TWIST1 nuclear localization. First, we used micropatterning to selectively alter cell shapes without changing underlying matrix rigidity. Restrictive patterns with areas of  $225 \,\mu\text{m}^2$  and  $400 \,\mu\text{m}^2$  prevented any cell spreading; in contrast, MCF10A cells on unpatterned regions were able to spread effectively (Fig. 3b). TWIST1 nuclear localization was not affected by changes in cell shape in either MCF10A or Eph4Ras cells (Fig. 3b-d and Supplementary Fig. 2). To confirm that micropatterningrestriction of cell spreading was effective, we also examined the localization of YAP. In contrast to TWIST1, YAP subcellular localization was responsive to changes in cell shape (Fig. 3c,d), consistent with previous reports that YAP localization is sensitive to any changes in actin cytoskeleton<sup>13,36</sup>. This difference suggests the existence of distinct mechanoregulatory mechanisms for TWIST1 and YAP. These data also suggest that matrix stiffness directly regulates TWIST1 subcellular localization independently of changes in cell shape.

As TWIST1 protein subcellular localization could be regulated by nuclear transport, we explored whether TWIST1 nuclear import

of recurrence-free survival for stage-3 breast cancer patients, stratified by collagen organization (SHG) and G3BP2 expression (\*, Disorganized collagen/G3BP2<sup>high</sup> tumours versus Organized collagen/G3BP2<sup>low</sup>, log-rank *P* value = 0.0135, *n*=152 breast tumours; Disorganized collagen/G3BP2<sup>high</sup> *n*=19 breast tumours; Disorganized collagen/G3BP2<sup>low</sup> *n*=65 breast tumours; Organized collagen/G3BP2<sup>low</sup> *n*=65 breast tumours; Disorganized collagen/G3BP2<sup>low</sup> *n*=62 breast tumours).

and export might be regulated by matrix stiffness. Treatment of MCF10A cells with leptomycin B, a nuclear export inhibitor<sup>37</sup>, did not promote nuclear accumulation of TWIST1 on compliant matrices (Fig. 3e, upper panel). In contrast, YAP accumulated into the nucleus on inhibition of nuclear export (Fig. 3e, lower panel). Therefore, similar to the micropatterning experiment, inhibition of nuclear export differentially affected matrix stiffness regulation of TWIST1 and YAP, supporting the existence of distinct Twist1 and YAP mechanotransduction pathways. Furthermore, as TWIST1 contains two functional nuclear localization sequences<sup>38</sup>, these results suggest that TWIST1 is likely to be actively anchored in the cytoplasm on compliant matrices, therefore preventing nuclear translocation.

# Matrix stiffness regulates the interaction between TWIST1 and G3BP2 to control TWIST1 subcellular localization

To understand the molecular mechanism underlying TWIST1 cytoplasmic retention, we used mass spectrometry analysis to identify TWIST1-binding proteins that anchor TWIST1 in the cytoplasm (Supplementary Fig. 3A). Ras GTPase-activating protein-binding protein 2 (G3BP2) stood out as a promising candidate on the basis of previous studies showing that G3BP2 regulates cytoplasmic retention of MDM2 and NFKBIA (refs 39,40). We confirmed that both endogenously and exogenously expressed TWIST1 co-immunoprecipitated with endogenous G3BP2 (Fig. 4a and Supplementary Fig. 3C). Previous studies identified a region of NFKBIA responsible for binding to G3BP2 (ref. 40). Sequence alignment of this G3BP2-interacting region of NFKBIA with TWIST1 and MDM2 revealed a consensus G3BP2binding motif, Q-X-X-X-E-L-Q-[ET]-X-[KR]-[LPV] (Fig. 4b). Interestingly, this G3BP2-binding motif is highly conserved among vertebrate Twist1 proteins, but to a significantly lesser degree in Drosophila in which Twist expression, rather than localization, is regulated by mechanical cues<sup>24</sup> (Fig. 4c). Deletion of this motif ( $\Delta QT$  mutant) in Twist1 abolished its interaction with G3BP2 (Fig. 4d). Consistent with its putative role as a cytoplasmic anchoring protein, G3BP2 was observed only in the cytoplasm in Eph4Ras, MCF10A and Bt-549 cells at all matrix rigidities (Fig. 4e and Supplementary Fig. 3B). Together, these data show that G3BP2 binds to TWIST1 through the conserved G3BP2-binding motif on vertebrate TWIST1 proteins.

To directly investigate whether matrix stiffness regulates Twist1-G3BP2 interaction, we used an *in situ* proximity ligation assay (PLA) to examine the interaction of endogenous Twist1 and G3bp2 proteins in 3D acinar cultures of Eph4Ras cells. PLA technology directly detects endogenous Twist1/G3bp2 interactions with high specificity and sensitivity in intact acini using antibodies against Twist1 and G3bp2. Indeed, at 150 Pa a strong PLA signal, indicating Twist1/G3bp2 interaction, was specifically enriched in the cytoplasm. In contrast, very little PLA signal was detected at 5,700 Pa, indicating that Twist1 is released from G3bp2 and translocates into the nucleus at high matrix rigidity (Fig. 4f,g). To understand whether Twist1-G3bp2 interaction is specifically regulated by matrix stiffness, and not by secondary changes in cell polarity or adherens junctions due to matrix-stiffnessinduced EMT, we examined Twist1-G3bp2 interaction in single cells devoid of apical-basal polarity and mature adherens junctions. PLA analysis in single cells detected strong interaction between G3bp2 and Twist1 in the cytoplasm at low stiffness, but not at high stiffness (Fig. 4h,i), identical to what we observed in mammary organoids with mature adherens junctions and polarity. These experiments demonstrate that matrix stiffness directly regulates the interaction between Twist1 and G3bp2 to control Twist1 subcellular localization.

Next, we investigated how the interaction between TWIST1 and G3BP2 could be regulated in response to changes in matrix stiffness. Interestingly, the tyrosine residue Tyr 103 (Tyr 107 in murine Twist1), which lies within the identified G3BP2-binding motif of human TWIST1, is predicted as a potential phosphorylation site. This provided a very attractive potential mechanism by which increased matrix stiffness activates integrins and then signals through tyrosine kinases to release TWIST1 from G3BP2. Supportive of this possibility, mass spectrometry analysis of a human lung adenocarcinoma cell line reveals phosphorylation of Tyr 103 on endogenous TWIST1 (ref. 41), albeit with no known functional consequence. Interestingly, the phospho-deficient Y107F Twist1 mutant co-immunoprecipitated with G3BP2 with similar efficiency as wild-type Twist1 but the interaction between the phospho-mimetic Y107E Twist1 mutant and G3BP2 was markedly attenuated (Fig. 4j). These data strongly suggest

that increasing matrix stiffness could disrupt Twist1–G3BP2 binding through phosphorylation of Tyr 107 within the G3BP2-binding motif of Twist1.

# Loss of G3BP2 cooperates with increasing matrix stiffness to promote TWIST1 nuclear localization and EMT

We next investigated whether G3BP2 is functionally required for TWIST1 cytoplasmic retention in compliant matrices. We used shRNAs to knock down G3BP2 expression and determined the impact on TWIST1 localization (Fig. 5a,e, and Supplementary Fig. 4A). For both MCF10A and Eph4Ras cells on compliant matrices, knockdown of G3BP2 resulted in nuclear accumulation of TWIST1, suggesting that G3BP2 is necessary for cytoplasmic sequestration of TWIST1 in response to low matrix stiffness (Fig. 5b and Supplementary Fig. 4B). TWIST1 nuclear localization at high matrix stiffness was not affected by knockdown of G3BP2, consistent with our model in which G3BP2 and TWIST1 dissociate at high matrix stiffness. In further support of distinct mechanoregulation of TWIST1 and YAP, knockdown of G3BP2 did not affect YAP localization (Supplementary Fig. 4D). These data strongly support a critical role for G3BP2 in regulating TWIST1 subcellular localization in response to matrix stiffness.

To determine the impact of G3BP2 loss on EMT and invasion, we cultured Eph4Ras cells on a gradient of polyacrylamide hydrogels with elasticities ranging from 150 Pa to 5,700 Pa in 3D culture. G3bp2 knockdown and the resulting constitutive Twist1 nuclear localization significantly increased the percentage of invasive acini at matrix rigidities ranging from 150 Pa to 670 Pa. Importantly, loss of G3bp2 and increasing matrix stiffness synergistically resulted in destabilization of basement membrane, an EMT phenotype and invasion of cells into the surrounding ECM (Fig. 5c,d). The EMT phenotype was characterized by downregulation of E-cadherin and disruption of basement membrane as shown by laminin V staining (Fig. 5c). Furthermore, G3bp2 knockdown repressed expression of E-cadherin and induced expression of vimentin (Fig. 5g,h). To determine whether the EMT phenotype resulting from G3bp2 knockdown is dependent on Twist1, we knocked down both Twist1 and G3bp2 and found that the EMT and invasive phenotype were significantly suppressed compared with cells that were depleted of only G3bp2 (Fig. 5i). Snai2, a direct transcription target of TWIST1 (ref. 42), was induced following G3bp2 knockdown; in contrast, double knockdown of G3bp2 and Twist1 blocked Snai2 induction, suggesting that the effects of G3bp2 knockdown are dependent on Twist1 (Fig. 5f and Supplementary Fig. 4C). These data indicate that G3BP2 directly impacts EMT and invasion in response to matrix stiffness and provide a mechanism by which the TWIST1-G3BP2 mechanotransduction pathway can facilitate tumour invasion. Furthermore, they suggest that downregulation of G3BP2 expression in tumour cells could cooperate with increasing matrix stiffness in the tumour microenvironment to facilitate tumour invasion and metastasis.

# Loss of G3BP2 promotes tumour invasion and metastasis *in vivo*

To investigate the role of G3BP2 in tumour progression *in vivo*, we employed a human xenograft tumour model of comedo ductal carcinoma *in situ*, the MCF10DCIS cell line<sup>43</sup>, which is a derivative of MCF10A cells expressing oncogenic Ras. This xenograft model reca-

pitulates the development of ductal carcinoma in situ (DCIS) in human breast cancer. Concordant with our results in Eph4Ras and MCF10A mammary epithelial cells, knockdown of G3BP2 in conjunction with increasing matrix stiffness promoted TWIST1 nuclear localization and an invasive phenotype in MCF10DCIS cells in 3D culture, indicating that the TWIST1-G3BP2 mechanotransduction pathway is intact in this model (Fig. 6a,b, and Supplementary Fig. 5). We injected these cells into the mammary fat pads of NOD/SCID mice and allowed tumour formation for 7 weeks. There was no significant difference in the weight of control and G3BP2 shRNA primary mammary tumours (Fig. 6c). Immunostaining confirmed significantly lower levels of G3BP2 in tumours with G3BP2 knockdown (Fig. 6d). Interestingly, in control tumours, aSMA-positive mesenchymal cells were largely present at the edge of the tumour; in contrast, these cells often infiltrated into the intratumoral region in G3BP2 shRNA tumours, a phenotype associated with the progression of DCIS to invasive ductal carcinoma (Fig. 6d).

We next examined whether knockdown of G3BP2 affects tumour invasion and metastasis. Tumours expressing *G3BP2* shRNAs presented not only local invasion into the surrounding mammary tissue, but also regional invasion into the nearby peritoneal wall, visualized as GFP-positive tumour cells in these regions (Fig. 6e,f). More importantly, tumours expressing *G3BP2* shRNAs consistently presented with a striking increase in the number of distant metastases in the lungs compared with tumours expressing a control shRNA (mean increase: 15- and 65-fold for *G3BP2* shRNA6 and shRNA8 versus control, respectively; Fig. 6g,h). Together, these results strongly support a key role for G3BP2 in suppressing tumour invasion and metastasis *in vivo*.

# Downregulation of G3BP2 and increasing collagen organization synergistically predict poor outcome in breast cancer patients

We next investigated whether the TWIST1-G3BP2 mechanotransduction pathway has a significant role in human cancer progression. We first analysed The Cancer Genome Atlas (TCGA) breast cancer (TCGA BRCA G4502A 07 3) data set and observed a decrease in overall survival in patients with tumours with low G3BP2 expression (Supplementary Fig. 6A,B). Furthermore, consistent with a role in preventing EMT and invasion, we observed that G3BP2 protein expression was restricted to the luminal epithelial cells in normal human breast and colon tissues (Fig. 7a and Supplementary Fig. 6D). We next analysed G3BP2 expression and collagen organization in a cohort of 152 stage-3 breast tumours from the NCI Cancer Diagnosis Program (Fig. 7b). We analysed collagen fibre alignment by second harmonic generation imaging (SHG) and used it as a surrogate marker for tissue rigidity. In agreement with previous publications<sup>6-8,44,45</sup>, stage-3 patients presenting stiffer tumours (organized collagen structures) had a median recurrence-free survival time of 31 months compared with 49 months in patients with more compliant tumours (disorganized collagen; P = 0.0014; Supplementary Fig. 6C). Importantly, the level of G3BP2 expression, together with matrix stiffness, could further stratify these patients to predict outcome (Fig. 7c). Patients with disorganized collagen/G3BP2<sup>high</sup> tumours had markedly improved outcomes with a 10-year recurrence-free survival rate of 46.4% compared with 10.1% of patients with organized collagen/G3BP2low tumours. Patients whose tumours presented either low G3BP2 or organized collagen fibres had intermediate survival outcomes (31.18% and 33.33% 10-year recurrence-free survival, P = 0.0284), reflective of the cooperative effect of G3BP2 loss and increasing matrix stiffness on tumour progression. The association between downregulation of G3BP2 and poor prognosis was independent of tumour grade or oestrogen receptor status (Supplementary Fig. 6E,F). Concordant with data from 3D culture and animal tumour models, these results demonstrate that increasing rigidity in the tumour microenvironment, in concert with downregulation of G3BP2, promotes human breast tumour progression.

#### DISCUSSION

In summary, we demonstrate that increasing matrix stiffness in the tumour microenvironment directly activates EMT, tumour invasion, and metastasis through the EMT-inducing transcription factor TWIST1. This mechanotransduction pathway may have important implications in breast tumours, as G3BP2 loss and tissue rigidity act synergistically to promote tumour progression. Given that matrix stiffening and ECM reorganization has been observed in many human tumour types<sup>10</sup>, the Twist1–G3BP2 mechanotransduction pathway warrants further investigation as a key mode of EMT activation as well as for therapeutic applications.

Mechanistically, our study reveals a molecular pathway directly linking mechanical forces with transcriptional regulation of the EMT program. Our findings suggest a model in which increasing matrix stiffness induces integrin-dependent phosphorylation events and release of TWIST1 from its cytoplasmic anchor G3BP2 to enter the nucleus and drive transcriptional events of EMT and invasion. Notably, to our knowledge, low stiffness and integrin disengagement are the only conditions in which cytoplasmic retention of TWIST1 are observed, thus providing a unique mode of EMT regulation<sup>46</sup>. Interestingly, our analyses showed that matrix stiffness regulates TWIST1 and YAP/TAZ through distinct molecular mechanisms, suggesting that multiple mechanotransduction pathways exist. We found that the TWIST1-G3BP2 signalling axis is responsive only to matrix stiffness and is independent of cell shape, cell polarity and adherens junction; in contrast, YAP/TAZ are sensitive to all of these factors. At present, the complete molecular pathways that transmit the mechanical signals from extracellular matrix to either the YAP/TAZ or TWIST1 signalling axis remain to be elucidated. Understanding the similarities and differences between the YAP/TAZ versus TWIST1 mechanotransduction pathways will provide further insight into how different mechanical cues are interpreted into unique biological responses. Given the importance of mechanoregulation in embryonic morphogenesis, such information would have broad implications not only in tumour progression, but also in development. 

#### METHODS

Methods and any associated references are available in the online version of the paper.

Note: Supplementary Information is available in the online version of the paper

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#### AUTHOR CONTRIBUTIONS

S.C.W. and J.Y. conceived the project and wrote the manuscript. S.C.W. and L.F. performed most of the experiments and prepared the figures. J.H.T., Y.G., V.H.P., H.E.M. and A.C.C. contributed to the experimental work. R.L.S., S.S.T. and A.J.E. advised on experimental design. L.F., J.H.T. and A.J.E. revised the manuscript.

#### COMPETING FINANCIAL INTERESTS

The authors declare no competing financial interests.

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#### METHODS

#### METHODS

Cell culture. MCF10A cells were grown in DMEM/F12 media supplemented with 5% horse serum, 20 ng ml<sup>-1</sup> human EGF, 10 µg ml<sup>-1</sup> insulin, 0.5 µg ml<sup>-1</sup> hydrocortisone, penicillin, streptomycin and 100 ng ml<sup>-1</sup> cholera toxin (Sigma-Aldrich). Eph4Ras cells were cultured as previously described in MEGM (Lonza) mixed 1:1 with DMEM/F12 media supplemented with 10 ng ml<sup>-1</sup> human EGF, 10 µg ml<sup>-1</sup> insulin, 0.5 µg ml<sup>-1</sup> hydrocortisone, penicillin and streptomycin<sup>23</sup>. Bt-549 cells were grown in RPMI 1640 supplemented with L-glutamine, penicillin, streptomycin, 10% fetal bovine serum and 1 µg ml<sup>-1</sup> insulin. All cell lines were tested for mycoplasma contamination.

Generation of stable knockdown cell lines. Stable gene knockdown cell lines were generated using lentiviral plasmid vectors. Briefly, shRNA target constructs were introduced by infection with lentiviruses. Concentrated viral supernatants were applied to target cells with  $6 \,\mu g \, m l^{-1}$  protamine sulphate. Infected cells were then selected for with  $2 \,\mu g \, m l^{-1}$  puromycin or blasticidin.

**Polyacrylamide hydrogel preparation.** Hydrogels were prepared as previously described on No. 1 12 mm and 25 mm coverslips<sup>47</sup>. Briefly, No. 1 glass coverslips were etched using 0.1 N NaOH, functionalized using 3-aminopropyltriethoxysilane (Sigma-Aldrich), rinsed with dH<sub>2</sub>O, incubated in 0.5% glutaraldehyde in PBS, dried, and then acrylamide/bis-acrylamide mixtures polymerized between the functionalized coverslip and a glass slide coated with dichlorodimethylsiloxane (Sigma-Aldrich). Polyacrylamide-coated coverslips were then washed twice with dH<sub>2</sub>O, incubated with 1 mM Sulpho-SANPAH (Thermo Scientific Pierce) in HEPES buffer under 365 nm ultraviolet light for 10 min, rinsed twice with 50 mM HEPES pH 8.5 buffer, rinsed twice in 50 mM HEPES pH 8.5 buffer, and sterilized.

Three-dimensional (3D) cell culture. MCF10A and Eph4Ras cells were grown in 3D cell culture as previously described<sup>28</sup>. Briefly, Eph4Ras cells were seeded on hydrogels in 2% Matrigel (BD Biosciences) MEGM mixed 1:1 with DMEM/F12 and MCF10A cells seeded similarly in 2% Matrigel DMEM/F12 media supplemented with 2% horse serum, 5 ng ml<sup>-1</sup> human EGF, 10  $\mu$ g ml<sup>-1</sup> insulin, 0.5  $\mu$ g ml<sup>-1</sup> hydrocortisone, penicillin, streptomycin and 100 ng ml<sup>-1</sup> cholera toxin.

**3D** confocal microscopy. We used a protocol adapted from the method described in ref. 28. In brief, cells were fixed with 2% paraformaldehyde (PFA) for 20 min at room temperature, permeabilized with PBS-0.5% Triton X-100, quenched with 100 mM PBS–glycine, and then blocked with 20% goat serum-immunofluorescence (IF) buffer (130 mM NaCl, 7.7 mM NaN<sub>3</sub>, 0.1% BSA, 0.2% Triton X-100, 0.05% Tween-20, PBS). Samples were incubated with primary antibodies overnight in 20% goat serum-IF buffer, washed 3 times with IF buffer, incubated with secondary antibodies for 1 h, washed 3 times with IF buffer, counterstained for nuclear for 15 min (5 ng ml<sup>-1</sup> DAPI or TO-PRO-3), washed once with PBS, and mounted with Slow Fade Gold (Invitrogen). Confocal images were acquired using an Olympus FV1000 with 405, 488, 555 and 647 laser lines. Images were linearly analysed and pseudo-coloured using ImageJ analysis software.

**Invasive acini quantification.** Invasive acini were quantified using bright-field images with a minimum of 5 random low-magnification fields being analysed per condition per experiment. Acini were scored as either normally developed acini or acini that adopted a spread and invasive phenotype.

Second harmonic generation microscopy. Formalin-fixed paraffin embedded sections (5  $\mu$ m) were re-hydrated and imaged using a multi-photon Leica SP5 confocal microscope using a Ti:sapphire light source and a  $\times 20$  water-immersion objective at 880 nm. Fields were acquired using resonant scanning mode, line averaging, and frame accrual. IF staining was sequentially imaged using scanning laser confocal microscopy. The scoring rubric (which was defined before blinded scoring) for SHG analysis was defined as 'organized collagen' in tumours having prominent linearized collagen fibres (with a circularity close to 0) or as 'disorganized collagen' in tumours having either collagen fibres with a high degree of circularity (that is, curved) or low/no SHG signal.

**Tumour tissue microarrays.** National Cancer Institute Cancer Diagnosis Program stage-3 breast cancer progression tumour tissue microarrays (TMA) were stained for G3BP2 by immunofluorescence for retrospective analysis. TMAs were concurrently imaged by confocal microscopy and SHG. Cores that were missing, damaged, or without detectable tumour cells were omitted from analyses. G3BP2 was scored blindly according to the following rubrics. G3BP2 expression was scored 0 for no detectable expression, 1 for very weak expression, 2 for moderate expression in greater than 75% of tumour cells, and 3+ for strong expression in greater than 75%

of tumour cells. Data for ER status and tumour grade were included in the annotated data set provided by the NCI CDP.

Antibodies. Primary antibodies include anti-β-actin (Abcam, ab13822, 1:3,000), anti-E-cadherin (BD, 610182, 1:200 for immunostaining, 1:1,000 for western blotting), anti-E-cadherin (Abcam, ab11512, Decma-1, 1:200), anti-G3BP2 (Sigma-Aldrich, HPA018425, 1:200, 1:1,000), anti-fibronectin (Sigma-Aldrich, F3648, 1:200), anti-integrin α6 (Millipore, MAB1378, NKI-GoH3, 1:200), anti-human laminin V (Chemicon, D4B5, 1:200), anti-mouse laminin V (kind gift from M. Aumailley, University of Cologne, Germany, 1:1,000), anti-Twist1 (Santa Cruz, ab50887, Twist2C1a, 1:100, 1:1,000), rabbit anti-Twist1 (Sigma-Aldrich, T6451, 1:1,000), 5b7 mouse anti-Twist1 hybridoma cell line (1:1,000), anti-YAP1 (Santa Cruz, H-125, 1:100). AIIB2 hybridoma supernatant was used for  $\beta$ 1-integrin -blocking experiments (Developmental Studies Hybridoma Bank, 1:1,000). Secondary fluorescent antibodies used include anti-mouse, anti-rat and anti-rabbit conjugated with Alexa Fluor 488, 546 and 647 (Life Technologies). Secondary horseradish peroxidase (HRP)conjugated antibodies used include anti-mouse, anti-rabbit and anti-chicken (Jackson Immunoresearch).

Immunoprecipitation. Cells were lysed using a 2-step protocol adapted from ref. 48. Cells were directly lysed with lysis buffer (20 mM Tris-HCl, 1% Triton X-100, 10 mM MgCl<sub>2</sub>, 10 mM KCl, 2 mM EDTA, 1 mM NaF, 1 mM sodium orthovanadate, 2.5 mM  $\beta$ -glycerophosphate, 10% glycerol, pH 7.5), scraped off the culture dish, sonicated, supplemented to 400 mM NaCl, sonicated and diluted to 200 mM NaCl. Antibodies were conjugated to protein G beads (Invitrogen), crosslinked using disuccinimidyl suberate (Thermo Scientific Pierce) as per the manufacturer's protocol, incubated with lysates overnight at 4 °C, washed eight times with IP lysis buffer supplemented with 200 mM NaCl, and eluted using 50 mM DTT LDS sample buffer at 95 °C for 15 min. 587 mouse hybridoma concentrated supernatant was used. For immunoprecipitation of exogenously transfected Myc–Twist1, 293T cell lysates were collected 48 h after transfection and subjected to the 2-step lysis protocol. Immunoprecipitation was performed using anti-Myc antibody (9E10) crosslinked to protein A agarose beads (Invitrogen).

Mass spectrometry. The gel bands were excised and cut into  $1 \times 1$ -mm pieces. In gel digestion and extraction were done as previously described<sup>49</sup>. The peptides were separated on a reversed-phase HPLC analytical column (360 µm O.D. × 50 µm I.D., ODS-AQ 5 µm, 10 cm) with an integrated tip (1–2 µm) with a gradient of 0–40%B for 30 min, 40–100%B for 5 min, 100%–0%B for 2 min, and 0%B for 15 min using an Agilent 1100 quaternary pump and eluted into an LTQ Orbitrap. The LTQ Orbitrap was operated in a data-dependent mode. MS spectra were acquired in the Orbitrap with a resolution of 15,000 and MS/MS spectra were acquired in the LTQ. Tandem mass spectra were searched against the IPI mouse database using Bioworks with the following modification: differential Methionine 15.9949. For peptides an xcorr cutoff filter of 1.5 for +1, 2.0 for +2 and 2.5 for +3 was applied, and identified peptides were confirmed by manually inspecting the MS/MS spectra.

**Micropatterning.** Micropatterned coverslips were designed with and produced by CYTOO (http://www.cytoo.com). Square micropatterns were produced in blocks with a 90  $\mu$ m pitch between each pattern with a block period of 1,300  $\mu$ m. Each pattern block was produced in duplicate on each coverslip. Activated coverslips were coated with 20  $\mu$ g ml<sup>-1</sup> rat tail collagen I for 2 h at room temperature. Cells were then seeded for 6 h and then fixed for analysis by confocal microscopy. At least 25 random single cells from 5 random fields were analysed per condition.

Motif sequence alignment. Sequences were aligned using ExPASy SIB bioinformatics portal<sup>50</sup>.

**Proximity ligation assay.** Cells were 3D cultured on polyacrylamide gels for 20 h or 6 days and fixed and processed as described for immunofluorescence before performing Duolink PLA (Sigma-Aldrich) as per the manufacturer's protocol. Briefly, mouse anti-Twist1 (Abcam, ab50887, Twist2C1a, 1:150) and rabbit anti-G3BP2 (Sigma-Aldrich, HPA018425, 1:600) primary antibodies were used to detect endogenous proteins and subsequently recognized using species-specific plus and minus PLA oligonucleotide-conjugated probes at 37 °C for 60 min. Interacting probes were then ligated at 37 °C for 30 min and detected by polymerase-mediated amplification at 37 °C for 100 min and subsequently analysed by fluorescent confocal microscopy. For analysis of formed day 6 acini a minimum of 50 cells from 5 random fields were quantified per condition. To quantify the PLA signal, confocal images were thresholded using ImageJ analysis software. The area with positive PLA signals was then quantified and divided by the number of cells examined.

Xenograft tumour assay. All animal care and experiments were approved by the Institutional Animal Care and Use Committee of the University of California, San Diego. MCF10DCIS cells  $(1.0 \times 10^6)$  suspended in 15 µl Matrigel (BD Biosciences) were injected bilaterally into the inguinal mammary fat pads of 8-week-old female SCID-beige mice. No statistical method was used to predetermine sample size and the experiments were not randomized. Mice were euthanized and tumour burden was analysed at 7 weeks post tumour implantation. Mice were dissected and tumour invasion was assessed *in situ* using a fluorescent dissection scope (Leica Microsystems). The investigators were not blinded to allocation during experiments and outcome assessment. All work with animals was performed in accordance with UC San Diego IACUC and AAALAC guidelines.

TCGA data set analysis. The TCGA breast cancer gene expression data set (TCGA BRCA G4502A\_07\_3) was downloaded from the UCSC Cancer Genome Browser (https://genome-cancer.ucsc.edu). Samples were stratified by *G3BP2* expression, with *G3BP2*<sup>high</sup> and *G3BP2*<sup>low</sup> samples with expression above and below mean G3BP2 expression, respectively. Overall patient survival in each group was then analysed.

**Statistical analysis.** All *P* values were derived from Student's *t*-test using unpaired two-tailed analysis with Welch's correction, unless otherwise noted. Error bars denote standard deviation unless otherwise noted. Kaplan–Meier survival curves were analysed by Cox–Mantel Log-rank analysis. Contingency tables were analysed using Fisher's exact analysis. Statistical significance was defined as *P* < 0.05, with regard to the null hypothesis. All qualitative data shown using representative data were repeated in at least 3 independent experiments.

**Real-time PCR.** RNA was extracted from cells using the RNeasy Mini and Micro Kit (Qiagen). cDNA was generated using random hexamer primers and a cDNA Reverse Transcription Kit (Applied Biosystems). Expression values were generated using ddCt values normalized to GAPDH. Experiments were performed in biological and technical triplicate using 7500 Fast (Applied Biosystems) and CFX Connect (Bio-Rad) real-time PCR detection systems. For data analysis in each comparison (one shRNA versus the control shRNA), unpaired two-tailed Student's *t*-tests with Welch's correction were used to determine statistical significance.

Murine primer sequences: Twist1 (5'-CAGCGGGTCATGGCTAAC-3', 5'-CAGCTTGCCATCTTGGAGTC-3'), G3bp2 (5'-CCCGAGTATTTGCACAG GTT-3', 5'-TCACTCAAGGTTGCATGAGC-3'), Snail (5'-AAGATGCACAT CCGAAGCC-3', 5'-CGCAGGTTGGAGCGGTCAGC-3'), Snai2 (5'-ATGCCC AGTCTAGGAAATCG-3', 5'-CAGTGAGGGCAAGAGAAAGG-3'), Zeb1 (5' -TGATGAAAACGGAACACCAGATG-3', 5'-GTTGTCCTCGTTCTCCAT GG-3'), Zeb2 (5'-TGAAGAGAACATCTTTCCTGCCCT-3', 5'-ATTTGGTGCTGA TCTGTCCCT-3'), E-cadherin (5'-GGGTGAATTCCCAAAGAACC-3', 5'-TGGCA ATGGCTTCTCTATCC-3'), wimentin (5'-CGGCTGCGAGAGAAATTGC-3', 5'-C CACTTTCCGTTCAAGGTCAAG-3').

Human primer sequences: E-cadherin (5'-TGCCCAGAAAATGAAAAAGG-3', 5'-GTGTATGTGGCAATGCGTTC-3'), vimentin (5'-GAGAACTTTGCCGTTGA AGC-3', 5'-GCTTCCTGTAGGTGGCAATC-3'), fibronectin (5'-CAGTGGGAGA CCTCGAGAAG-3', 5'-TCCCTCGGAACATCAGAAAC-3').

Shared murine and human primer sequences: GAPDH (5'-GACCCCTTCATT GACCTCAAC-3', 5'-CTTCTCCATGGTGGTGAAGA-3').

shRNA sequences. pSP108 lentiviral target sequences: Twist1 shRNA3, 5'-AAGC TGAGCAAGATTCAGACC-3'. Twist1 shRNA5, 5'-AGGTACATCGACTTCCTG TAC-3'. ControlshRNA (GFPshRNA), 5'-GCAAGCTGACCCTGAAG-3'.

pLKO.1 (Sigma-Aldrich) lentiviral target sequences: G3BP2shRNA2, 5'-AGT TAAATTGAGGTGGACATT-3'. G3BP2shRNA5, 5'-TTCGAGGAGAAGTAC GTTTAA-3'. G3BP2shRNA6, 5'-CGGGAGTTTGTGAGGCAATAT-3'. G3BP2 shRNA8, 5'-CCACAAAGTATTATCTCTGAA-3'.

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Supplementary Figure 1 TWIST1 is required for matrix stiffness-induced EMT. (A) Confocal microscopy of MCF10A cells grown in 3D culture for 5 days on varying matrix rigidities stained for Laminin V (green) and DAPI (blue) (scale bar, 50  $\mu$ m). (B-C) Brightfield images of MCF10A (B) and Eph4Ras (C) cells expressing control and shTwist1 shRNAs (scale bar, 75  $\mu$ m). (D) Lysates of control and shTwist expressing MCF10A cells analyzed by SDS-PAGE and probed for TWIST1 and  $\beta$ -Actin. (E) Quantification of invasive acini of MCF10A shTwist1 cells in 3D culture (\*\*\*, P<0.001, unpaired two-tailed T-test with Welch's correction, n=50 acini/experiment, 3 independent experiments, error bars represent s.d.). (F) qPCR analysis

of E-cadherin (CDH1) mRNA expression in MCF10A cells in 3D culture on PA hydrogels treated or not with 5 ng/ml TGF- $\beta$  for 5 days (P<0.05, unpaired two-tailed T-test with Welch's correction, n=4 independent experiments, statistics source data can be found in Supplementary Table 1, error bars represent s.d.). (**G**) qPCR analysis of the mRNA expression of mesenchymal markers, Fibronectin (FN1) and Vimentin (VIM), in MCF10A cells in 3D culture on PA hydrogels treated or not with 5 ng/ml TGF- $\beta$ for 5 days (P<0.05, unpaired two-tailed T-test with Welch's correction, n=4 independent experiments, statistics source data can be found in Supplementary Table 1, error bars represent s.d.).

## Α





Eph4Ras Micropatterned Cells

Supplementary Figure 2 Mechanoregulation of Twist1 nuclear localization in Eph4Ras cells. Brightfield images (**A**) and confocal images (scale bar, 50  $\mu$ m) (**B**) of Eph4Ras cells cultured on micropatterned glass coverslips for 6 hours stained for Twist1 (green) and DAPI (blue) (scale bar, 20  $\mu$ m).

(C) Quantification of nuclear localized Twist1 in percentage of the total cell number (#, not significant, unpaired two-tailed T-test with Welch's correction, n=25 cells/experiment, 3 independent experiments, error bars represent s.d.).



**Supplementary Figure 3** G3BP2 is a TWIST1 binding protein that localizes in the cytoplasm. (**A**) Immunoprecipitation of endogenous TWIST1 from MCF10A cell lysates resolved by SDS-PAGE and silver stained. Unique bands were identified, excised, and analyzed by mass spectrometry. (**B**) Confocal images

of MCF10A and Bt-549 cells grown in 3D culture stained for endogenously expressed G3BP2 (red) and DAPI (blue) (scale bar, 50  $\mu$ m). (**C**) Exogenously expressed Twist1 from 293T cell lysates was immunoprecipitated and analyzed by SDS-PAGE, and probed for G3BP2 and Twist1.



Supplementary Figure 4 G3BP2 mediates mechanoregulation of TWIST1 and EMT. (A) Brightfield images of Eph4Ras (left panel) and MCF10A (right panel) cells expressing control and *G3BP2* shRNAs (scale bar, 75 μm).
(B) Confocal images of MCF10A cells expressing shRNAs against *G3BP2* grown in 3D culture for 5 days on varying matrix rigidities and stained for endogenously expressed TWIST1 (green) and DAPI (blue) (scale bar, 25 μm).
(C) qPCR analysis of *G3bp2*, *Twist1* and *Snai2* in Eph4Ras cells expressing control (shCtrl#1) or *G3bp2* shRNAs, together with control (shCtrl#2) or

*Twist1* shRNA (shTwist1#5), 3D cultured under indicated matrix rigidities for 5 days (\*, P<0.05; \*\*, P<0.01; \*\*\*, P<0.001, unpaired two-tailed T-test with Welch's correction, n=3 independent experiments, statistics source data can be found in Supplementary Table 1; double knockdown compared to the respective single knockdown, error bars represent s.d.). (**D**) Confocal images of MCF10A cells expressing shRNAs against *G3BP2* grown in 3D culture for 5 days on varying matrix rigidities and stained for YAP1 (red) and DAPI (blue) (scale bar, 50 µm).





Supplementary Figure 5 G3BP2 is required for mechanosensing in MCF10DCIS cells. (A) Brightfield images of MCF10DCIS cells expressing control and *G3BP2* shRNAs (scale bar, 25  $\mu$ m). (B) Brightfield images of MCF10DCIS cells expressing control and *G3BP2* shRNAs cultured in 3D

at indicated matrix rigidities for 5 days (scale bar, 150  $\mu$ m). (C) Confocal images of MCF10DCIS cells expressing shRNAs against *G3BP2* grown in 3D culture for 5 days on varying matrix rigidities and stained for endogenously expressed TWIST1 (green) and DAPI (blue) (scale bar, 25  $\mu$ m).



**Recurrence Free Survival** 

100

0

Ô

50

100

Months

Percent

В

	G3BP2 Low	G3BP2 High			
Median Survival (Months)	91.99	146.50			
Total Patients	291	273			
Hazard ratio	0.7797				
Hazard ratio 95% CI	0.5155	to 1.181			





Disorganized

Organized

200

250

44

150

**Supplementary Figure 6** G3BP2 expression profile in normal and cancer human tissues. (**A**) Kaplan-Meier survival curve of patients stratified by G3BP2 expression in the TCGA breast cancer dataset (TCGA\_BRCA\_G4502A\_07\_3) (P=0.2435, Log-Rank). (**B**) Statistics of overall survival of patients stratified by G3BP2 expression in the TCGA breast cancer dataset (TCGA\_BRCA\_ G4502A\_07\_3). (**C**) Kaplan-Meier curve of recurrence free survival in stage 3 breast cancer patients based on SHG imaging (\*\*, P=0.0047, Log-Rank, n=197 breast tumors). (**D**) Confocal microscopy of normal human colon luminal epithelial cells stained for G3BP2 (red) and nuclei (blue) (scale bar, 50  $\mu$ m). (**E**, **F**) Correlation between G3BP2 expression and ER positivity (**E**) or tumor grade (**F**) in stage 3 breast cancer patient samples analyzed in (C) (#, not significant, Fisher's Exact, n=197 breast tumors, error bars represent s.d.).



Supplementary Figure 7 Uncropped Western blots images.

		01	C+2				2	02				3	02		
	shGFP 150		17.498	17.467		shGFP 150		16.08	16.26		shGFP 150		19.03	18.95	
	shGFP 5700		17.503	17.382		shGFP 5700		16.41	15.89		shGFP 5700		19.11	18.80	
	shGFP 5700 TGF		17.671	17.570		shGFP 5700 TGF		17.03	16.54		shGFP 5700 TGF		19.05	19.15	
	sh#3 150 sh#3 5200		17.388	17.588		sh#3 150 sh#3 5700		15.75	15.76		sh#3 150 sh#3 5700		18.16	18.20	
GAPDH	sh#3 150 TGF		17.329	17.512	GAPDH	sh#3 150 TGF		16.23	16.66	GAPDH	sh#3 150 TGF		17.62	17.50	
	sh#3 5700 TGF sh#5 150		17.120	17.036		sh#3 5700 TGF sh#5 150		16.64	16.94		sh#3 5700 TGF		18.06	18.26	
	sh#5 5700		17.059	16.557		sh#5 5700		16.44	16.50		sh#5 5700		17.94	18.26	
	sh#5 150 TGF sh#5 5700 TGF		17.035	17.308 17.420		sh#5 150 TGF sh#5 5700 TGF		17.27 16.74	17.22 16.97		sh#5 150 TGF sh#5 5700 TGF		18.16 18.45	17.88 18.42	
		Ct1	Ct2				Ct1	Ct2				Ct1	Ct2		
	shGFP 150		22.758	23.058		shGFP 150		22.45	22.26		shGFP 150		24.70	24.97	
	shGFP 150 TGF		23.447	23.316		shGFP 150 TGF		23.57	23.52		shGFP 150 TGF		25.57	25.63	
	shGFP 5700 TGF sh#3 150		23.881 25.463	23.880		shGFP 5700 TGF sh#3 150		23.57	23.38		shGFP 5700 TGF sh#3 150		25.57 28.40	25.88 28.28	
Twist1	sh#3 5700		26.001	25.449	Twist1	sh#3 5700		25.30	24.86	Twist1	sh#3 5700		28.42	28.61	
	sh#3 150 TGP sh#3 5700 TGP		25.912 26.142	25.834		sh#3 150 TGF sh#3 5700 TGF		25.66 26.21	26.06		sh#3 150 TGF sh#3 5700 TGF		28.58 28.89	28.18 28.60	
	sh#5 150		24.090	24.149		sh#5 150		24.49	24.44		sh#5 150		27.38	27.38	
	sh#5 150 TGF		24.302	24.52		sh#5 150 TGF		24.05	25.01		sh#5 150 TGF		26.53	26.56	
	sh#5 5700 TGF		25.124	24.882		sh#5 5700 TGF		24.53	24.30		sh#5 5700 TGF		27.51	27.75	
	shGFP 150	Ct1	Ct2 17.498	17.467		shGFP 150	Ct1	Ct2 16.08	16.26		shGFP 150	Ct1	Ct2 19.03	18.95	
	shGFP 5700		17.503	17.382		shGFP 5700		16.41	15.89		shGFP 5700		19.11	18.80	
	shGFP 5700 TGF		17.671	17.570		shGFP 5700 TGF		17.03	16.54		shGFP 5700 TGF		19.12	19.24	
	sh#3 150 sh#3 5200		17.388	17.588		sh#3 150 sh#3 5200		15.75	15.76		sh#3 150 sh#3 5200		18.16	18.20	
GAPDH	sh#3 150 TGF		17.329	17.512	GAPDH	sh#3 150 TGF		16.23	16.66	GAPDH	sh#3 150 TGF		17.62	17.50	
	sh#3 5700 TGF sh#5 150		17.120	17.036		sh#3 5700 TGF sh#5 150		16.64 16.84	16.94 16.39		sh#3 5700 TGF sh#5 150		18.06 18.30	18.26 18.26	
	sh#5 5700		17.059	16.557		sh#5 5700		16.44	16.50		sh#5 5700		17.94	18.26	
	sh#5 150 TGF sh#5 5700 TGF		17.035 17.334	17.308 17.420		sh#5 150 TGF sh#5 5700 TGF		17.27 16.74	17.22 16.97		sh#5 150 TGF sh#5 5700 TGF		18.16 18.45	17.88 18.42	
		Ct1	Ct2				Ct1	Ct2				Ct1	Ct2	Ct3	
	shGEP 150 shGEP 570 <sup>n</sup>		24.074 24.059	23.926 24.197		shGFP 150 shGFP 570 <sup>n</sup>		23.96 23.36	23.50 23.72		shGFP 150 shGFP 5709		25.13 25.67	24.84 25.33	25.20 25.44
	shGFP 150 TGF		23.985	23.925		shGFP 150 TGF		24.52	24.54		shGFP 150 TGF		25.37	25.29	25.21
	shGFP 5700 TGF sh#3 150		23.955 25.169	24.210 25.228		shGFP 5700 TGF sh#3 150		24.23 24.43	24.43 24.41		shGFP 5700 TGF ab#3 150		25.33 25.99	25.23 26.06	25.24 26.15
Slug	sh#3 5700		25.276	25.183	Slug	sh#3 5700		24.12	24.30	Slug	sh#3 5700		25.86	25.87	25.75
	sh#3 150 TGF sh#3 5700 TGF		24.244 24.593	24.235 24.644		sh#3 150 TGF sh#3 5700 TGF		24.53 24.83	24.51 24.95		sh#3 150 TGF sh#3 5700 TGF		25.29 26.01	25.05 25.48	25.29 25.40
	sh#5 150		24.817	24.904		sh#5 150		24.97	24.87		sh#5 150		25.74	25.88	25.62
	sh#5 150 TGF		24.000	24.002		sh#5 150 TGF		29.52	24.49		sh#5 150 TGF		25.08	25.03	24.92
	sh#5 5700 TGF		25.033	25.087		sh#5 5700 TGF		24.97	24.99		sh#5 5700 TGF		25.74	25.76	25.96
	shGEP 150	Ct1	Ct2	17.467		shGEP 150	Ct1	Ct2	16.26		shGEP 150	Ct1	Ct2	18.95	
	shGFP 5700		17.503	17.382		shGFP 5700		16.41	15.89		shGFP 5700		19.11	18.80	
	shGFP 150 TGF shGFP 5700 TGF		17.609	17.816 17.570		shGFP 150 TGF shGFP 5700 TGF		17.33 17.03	17.01 16.54		shGFP 150 TGF shGFP 5700 TGF		19.12 19.05	19.24 19.15	
	sh#3 150		17.388	17.588		sh#3 150		15.75	15.76		sh#3 150		18.16	18.20	
GAPDH	sh#3 150 TGF		17.329	17.512	GAPDH	sh#3 5/00 sh#3 150 TGF		16.23	16.66	GAPDH	sh#3 5/00 sh#3 150 TGF		17.62	17.50	
	sh#3 5700 TGF sh#5 150		17.120	17.036		sh#3 5700 TGF sh#5 150		16.64	16.94		sh#3 5700 TGF		18.06	18.26	
	sh#5 5700		17.059	16.557		sh#5 5700		16.44	16.50		sh#5 5700		17.94	18.26	
	sh#5 150 TGF sh#5 5700 TGF		17.035	17.308		sh#5 150 TGF sh#5 5700 TGF		17.27	17.22 16.97		sh#5 150 TGF sh#5 5700 TGF		18.16 18.45	17.88	
												Ct1	Ct2	Ct3	
	1050 (20	Ct1	Ct2			1070 470	Ct1	Ct2			shGFP 150	Ct1	Ct2 25.72	Ct3	25.75
	shGFP 150 shGFP 5700	Ct1	Ct2 23.70 22.98	23.40 23.10		shGFP 150 shGFP 5700	Ct1	Ct2 22.32 22.19	22.37 22.23		shGFP 150 shGFP 5700 shGFP 150 TGF	Ct1	Ct2 25.72 25.07 22.86	Ct3 26.02 25.20 22.72	25.75 25.05 22.82
	shGFP 150 shGFP 5700 shGFP 150 TGF	Ct1	Ct2 23.70 22.98 20.49 20.58	23.40 23.10 20.59 20.44		shGFP 150 shGFP 5700 shGFP 150 TGF	Ct1	Ct2 22.32 22.19 20.83 20.23	22.37 22.23 20.59 20.17		shGFP 150 shGFP 5700 shGFP 150 TGF shGFP 5700 TGF shB3 150	Ct1	Ct2 25.72 25.07 22.86 22.25 24.43	Ct3 26.02 25.20 22.72 22.23 24.39	25.75 25.05 22.82 22.27 24.37
	shGFP 150 shGFP 5700 shGFP 150 TGF shGFP 5700 TGF sh#3 150	Ct1	Ct2 23.70 22.98 20.49 20.58 22.87	23.40 23.10 20.59 20.44 22.74		shGFP 150 shGFP 5700 shGFP 150 TGF shGFP 5700 TGF sh#3 150	Ct1	Ct2 22.32 22.19 20.83 20.23 22.90	22.37 22.23 20.59 20.17 22.74	Snail1	shGFP 150 shGFP 5700 shGFP 150 TGF shGFP 5700 TGF shR3 150 shR3 5700	Ct1	Ct2 25.72 25.07 22.86 22.25 24.43 24.03	Ct3 26.02 25.20 22.72 22.23 24.39 23.71	25.75 25.05 22.82 22.27 24.37 24.05
Snail1	shGFP 150 shGFP 5700 shGFP 5700 TGF shR3 150 shW3 5700 shW3 5700	Ct1	Ct2 23.70 22.98 20.49 20.58 22.87 22.52 20.27	23.40 23.10 20.59 20.44 22.74 22.55 20.40	Snail1	shGFP 150 shGFP 5700 shGFP 5700 TGF shR3 150 shR3 5700 shR3 5700	Ct1	Ct2 22.32 22.19 20.83 20.23 22.20 22.64 20.58	22.37 22.23 20.59 20.17 22.74 22.87 20.89	Snail1	shGFP 150 shGFP 5700 shGFP 150 TGF shGFP 5700 TGF shK3 150 shK3 5700 shK3 5700 TGF shK5 5700 TGF	Ct1	Ct2 25.72 25.07 22.88 22.25 24.43 24.03 21.42 21.81	Ct3 26.02 25.20 22.72 24.39 23.71 21.42 21.55	25.75 25.05 22.22 24.37 24.05 21.54 22.00
Snail1	#hGFP 150 #hGFP 5700 #hGFP 5700 TGF #h43 5700 #h43 550 #h43 550 TGF #h43 5700 TGF	Ct1	Ct2 23.70 22.98 20.49 20.58 22.87 22.52 20.27 20.09	23.40 23.10 20.59 20.44 22.74 22.55 20.40 20.35	Snail1	#hGFP 150 #hGFP 5700 #hGFP 5700 TGF #hK3 F30 #hK3 530 #hK3 550 TGF #hK3 5700 TGF	Ct1	Ct2 22.32 22.19 20.83 20.23 22.90 22.64 20.58 20.58 20.85	22.37 22.23 20.59 20.17 22.74 22.87 20.89 20.69	Snail1	shGFP 150 shGFP 5700 shGFP 150 TGF shGFP 5700 TGF shH3 5700 shH3 150 TGF shH3 5700 TGF shH3 5700 TGF	Ct1	Ct2 25.72 25.07 22.86 22.25 24.43 24.03 21.42 21.81 24.96	Ct3 26.02 25.20 22.72 22.23 24.39 23.71 21.42 21.55 24.18 24.18	25.75 25.05 22.82 24.37 24.05 21.54 22.00 24.57
Snail1	shQFP 150 shQFP 150 TQF shQFP 150 TQF shQFP 150 TQF shQ3 750 shQ3 750 shQ3 750 TQF shQ3 750 TQF shQ3 750 TQF shQ5 750	Ct1	Ct2 23.70 22.98 20.49 20.58 22.87 22.52 20.27 20.09 23.28 22.59	23.40 23.10 20.50 20.44 22.74 22.55 20.40 20.55 23.00 22.43	Šnail1	shQFP 150 shQFP 150 TQF shQFP 150 TQF shQFP 5700 TQF shH3 5700 shH3 5700 TQF shH3 5700 TQF shH3 5700 TQF shH3 5700	Ct1	Ct2 22.32 22.19 20.23 22.29 22.64 20.58 20.58 20.58 22.41 22.06	22.37 22.23 20.50 20.17 22.74 22.87 20.89 20.69 22.37 22.24	Snail1	ahGFP 150 ahGFP 5700 ahGFP 5700 ahGFP 5700 TGF ahR3 150 ahR3 15700 ahR3 5700 TGF ahR3 5700 TGF ahR3 5700 ahR3 5700	Ct1	Ct2 25.72 25.07 22.86 22.25 24.43 24.03 21.42 21.81 24.36 24.18 24.18 24.18 24.18	Ct3 26.02 25.20 22.72 24.39 23.71 21.42 21.55 24.18 23.39 21.48	25.75 25.05 22.82 24.37 24.05 21.54 22.00 24.55 24.05 24.05 24.05 24.05
Snail1	shQFP 150 shQFP 150 TQF shQFP 150 TQF shQFP 150 TQF shN3 150 shN3 150 TQF shN3 150 TQF shN5 150 shN5 150 shN5 150 TQF shN5 5700 TQF	Ct1	Ct2 23.70 22.98 20.49 20.58 22.87 22.52 20.27 20.09 23.28 23.28 22.59 20.41 20.15	23.40 23.10 20.59 20.44 22.74 22.55 20.40 20.35 23.00 22.43 22.43 20.53 20.09	Snail1	shQFP 150 shQFP 150 TQF shQFP 150 TQF shQFP 5700 TQF shN3 150 TQF shN3 150 TQF shN3 5700 TQF shN5 150 TQF shN5 5700 TQF shN5 5700 TQF	Ct1	Ct2 22.52 22.19 20.23 22.90 22.64 20.85 22.41 22.06 20.07 20.05	22.37 22.23 20.59 20.17 22.74 20.89 20.69 22.59 22.264 20.12 20.264	Snail1	ah:GFP 150 ah:GFP 5700 ah:GFP 5700 TGF ah:GFP 5700 TGF ah:3 150 ah:3 150 ah:3 150 TGF ah:3 5700 TGF ah:3 5700 ah:45 5700 TGF ah:45 5700 TGF	Ct1	Ct2 25.72 25.67 22.25 24.43 24.03 21.42 21.81 24.38 24.18 24.18 24.18 21.53 21.41	Ct3 28.02 25.20 22.72 24.39 23.71 21.42 21.55 24.18 23.99 21.48 21.58	25.75 25.05 22.82 24.37 24.05 21.54 22.00 24.55 24.65 21.72 24.05 21.72 21.39
Snail1	ahGFP 150 ahGFP 5700 ahGFP 5700 TGF ahH3 150 ahH3 150 ahH3 150 TGF ahH3 5700 TGF ahH3 5700 TGF ahH5 5700 ahH5 150 TGF ahH5 5700 TGF	Ct1	Ct2 23.70 22.98 20.40 20.58 22.87 22.52 20.27 20.09 23.28 22.59 20.41 20.15	23.40 23.10 20.59 20.44 22.27 20.85 20.85 20.95 23.09 20.55 22.43 20.53 20.06	Snail1	ahQFP 150 ahQFP 5700 ahQFP 5700 TGF ahR3 150 ahR3 5700 TGF ahR3 5700 ahR3 5700 TGF ahR3 5700 ahR5 5700 ahR5 5700 TGF ahR5 5700 TGF	Ct1	Ct2 22.32 22.19 20.83 30.23 22.64 20.58 20.58 20.45 22.41 22.41 22.45 20.65 20.07 20.20	22.37 22.23 2059 20.17 22.24 20.89 20.89 22.37 20.89 22.37 20.89 22.24 20.12 20.12 19.85	Snail1	ahQFP 150 ahQFP 5700 ahQFP 5570 TGF ahQFP 550 TGF ah43 150 ah43 5700 ah43 5700 TGF ah43 5700 TGF ah45 5700 TGF ah45 5700 TGF	Ct1	Ct2 25.72 25.07 22.86 22.25 24.63 21.42 21.81 24.36 24.18 24.18 24.18 24.18 24.18 21.53 21.41	Ct3 28.02 25.20 22.22 22.33 24.39 23.71 21.42 21.55 24.18 21.99 21.48 21.58	25.75 25.06 22.82 22.27 24.05 21.54 22.00 24.65 24.66 24.65 21.72 24.65
Snail1	ahQFP 150 ahQFP 5700 ahQFP 5700 TQF ahA3 150 ahA3 150 ahA3 5700 TQF ahA3 5700 TQF ahA3 5700 TQF ahA5 5700 ahA5 150 TQF ahA5 5700 TQF	C11	Ct2 23.70 20.98 20.40 20.52 20.52 20.52 20.52 20.52 20.52 20.52 20.52 20.52 20.54 20.55 20.54 20.55 20.54 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20	23.40 25.50 25.44 22.25 20.40 20.55 22.49 20.55 22.49 20.53 20.69	Snail1	ahQFP 150 ahQFP 5700 ahQFP 5700 TGF ahR3 5700 TGF ahR3 5700 ahR3 5700 TGF ahR3 5700 TGF ahR3 5700 TGF ahR5 5700 TGF ahR5 5700 TGF	C11	Ct2 22.32 20.93 20.33 22.30 22.30 22.30 22.44 20.55 20.45 20.41 20.55 20.07 20.20	22.37 20.50 20.17 22.24 22.24 20.49 20.49 20.49 20.49 22.37 22.24 22.37 22.24 20.12 19.85	Snail1	ahQFP 150 ahQFP 150 TQF ahQFP 150 TQF ahQFP 150 TQF ah43 150 ah43 150 TQF ah43 5700 TQF ah43 5700 TQF ah45 1570 ah45 1570 TQF ah45 5700 TQF	Ct1	Ct2 25.72 25.05 22.265 22.265 22.44 24.00 21.42 21.81 24.36 24.18 21.53 21.41	Ct3 28.02 25.20 22.72 22.23 24.39 23.71 21.42 21.55 24.18 23.99 21.48 23.99 21.48 21.58	25.75 25.66 22.82 24.57 24.57 24.65 21.54 22.00 24.65 21.54 24.65 21.72 21.39
Snail1	ahQFP 150 ahQFP 5370 ahQFP 5370 TQF ahQFP 5370 TQF ahQ3 5570 ahQ3 5570 ahQ3 5570 ahQ3 5570 TQF ahQ5 5570 TQF ahQ5 5570 TQF ahQ5 5700 TQF ahQ5 5700 TQF	Ct1 Ct1	Ct2 23.70 22.98 20.49 20.58 22.87 20.09 23.28 20.09 23.28 22.59 20.41 20.15 21.7098 Ct2	23.40 23.10 20.54 22.25 20.44 22.25 20.45 20.45 20.45 20.55 23.00 20.65 20.06 20.06	Snail1	ahGFP 150 ahGFP 5500 ahGFP 5500 TGF ahGFP 5500 TGF ahH3 550 ahH3 5500 TGF ahH3 5500 TGF ahH3 5500 TGF ahH5 5500 TGF ahH5 5500 TGF ahH5 5500 TGF ahH5 5500 TGF	C11 C11	Ct2 22.52 22.19 20.23 22.24 20.55 20.55 20.55 20.45 20.55 20.41 20.07 20.20 20.07 20.20 20.07 20.20 20.07 20.20 20.07 20.20 20.07 20.20 20.07 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20.20 20	22.37 20.59 20.17 22.14 22.89 20.89 20.89 20.89 20.89 20.12 19.85	Snail1	ahQFP 150 ahQFP 55700 ahQFP 150 TGF ahQFP 150 TGF ahQFP 150 TGF ahQ5 5700 TGF ahQ5 5700 TGF ahQ5 5700 TGF ahQ5 5700 TGF ahQ5 5700 TGF	Ct1	Ct2 25.72 25.07 22.85 22.25 21.43 24.43 24.43 24.43 24.45 24.45 24.45 24.45 24.45 24.45 21.53 21.41 21.53 21.53 21.51 21.51 21.51 21.51 21.51 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21.52 21	Ct3 25.02 25.20 22.72 22.23 24.39 22.37 21.45 24.18 23.59 24.18 23.59 24.18 23.59 24.18 21.48 21.48 21.58	25.75 22.56 22.22 24.37 24.05 21.54 22.00 24.57 24.05 21.72 21.39
Snail1	#AGP 150 #AGP 50102F #AGP 50102F #AGP 50102F #AGP 50102F #AG 5100 #AG 5100	C11 C11	Ct2 23.70 22.98 20.49 20.58 22.87 20.09 20.25 20.09 20.25 20.09 20.24 20.25 20.41 20.15 T.7.498 T.7.498	23.40 23.10 20.59 20.44 22.24 22.85 20.60 20.55 23.00 22.43 20.53 20.05 20.05 21.00 20.53 20.05 21.00 21.447 17.447 17.345	Snail1	#AGP 150 #AGP 50 TOF #AGP 50 TOF #AGP 50 TOF #AGP 50 TOF #AG 5700 TOF #AG 5700 TOF #AG 5700 TOF #AG 5700 TOF #AG 5700 TOF #AGP 150 #AGP 150 TOF	C11 C11	Ct2 22.52 22.19 20.23 22.26 20.58 20.58 20.58 20.58 20.58 20.58 20.58 20.58 20.58 20.58 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 20.59 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22.82 24.37 24.65 21.54 22.00 24.57 24.65 21.72 21.39
Snail1	#AGFP 150 #AGFP 500 #AGFP 5100 #AGFP 510 TGF #AGFP 5100 #AK 159 TGF #AK 159 TGF #AK 159 TGF #AK 159 TGF #AK 5700 TGF #AGFP 510 #AGFP 150 #AGFP 150 #AGFP 500 #AGFP 500 TGF	Ct1	Ct2 23.70 23.98 20.49 20.58 22.87 20.09 20.20 20.09 20.20 20.20 20.21 20.00 20.25 20.41 20.15 7.7498 7.7498 7.7498 7.7693 7.7693	22.40 23.10 20.50 20.44 20.274 22.254 20.64 20.25 20.64 20.25 20.65 20.06 20.65 20.06 21.74 20.55 20.06 21.75 20.55 20.06	Snail1	#AGIP 150 #AGIP 5100 #AGIP 5100 #AGIP 5100 #AGIP 5100 #A1510 #A15150 #A15150 #A15150 #A15150 #A15150 #A15150 TGF #A162P 150 #AGIP 5100 #AGIP 5100 #AGIP 5100 TGF	Ct1 Ct1	Ct2 22.32 22.99 22.84 20.85 22.40 22.84 20.85 22.41 20.85 22.41 20.05 20.07 20.20 20.07 20.20 50.07 20.20 50.07 20.20 50.07 20.20 50.07 20.20 50.07 20.20 50.07 20.50 50.07 20.50 50.07 20.50 50.07 20.50 50.07 20.50 50.07 20.50 50.07 20.50 50.07 20.50 50.07 20.50 50.07 20.50 50.07 20.50 50.07 20.50 50.07 20.50 50.07 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 20.55 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Snail1	#AGIP 190 #AGIP 500 #AGIP 500 ToF #AGIP 500 ToF #AG 500 ToF #AG 500 ToF #AG 500 ToF #AG 500 ToF #AG 500 ToF #AGIP 5100 #AGIP 5100 #AGIP 5100 TOF #AGIP 500 TOF #AGIP 500 TOF #AGIP 500 TOF	C1 C1	Ct2 23.70 22.98 20.49 20.52 22.52 20.27 20.27 20.27 20.29 22.59 20.41 20.15 T7.498 T7.699 17.699 17.691 17.389 16.475	23.40 23.30 20.59 20.54 20.54 20.55 20.60 20.55 20.60 20.53 20.60 20.53 20.60 20.53 20.60 20.53 20.60 20.53 20.60 21.7382 21.7382 21.7570 21.7570 21.7570	Snail1	#AGIP 150 #AGIP 530 TOF #AGIP 530 TOF #AGIP 530 TOF #A15 150 TOF #A15 150 TOF #A15 5700 #A15 5700 TOF #A15 5700 TOF #A15 5700 TOF #A16 P15 100 #A16 P15 100 #A16 P15 100 #A15 P150	C11 C11	Ct2 22.32 22.90 20.83 20.23 22.264 20.55 22.241 22.264 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05 20.05	22.37 22.23 26.59 23.17 23.17 23.18 23.18 23.18 23.19 23.17 23.24 23.12 23.25 23.12 23.24 19.85 16.26 15.59 17.51 15.56	Snail1	anGPP 150 anGPP 5700 anGPP 5700 anGPP 5700 and 2P 5700 TOF and 35 700 and 35 700 and 35 700 and 35 700 and 55	Ct1 Ct1	Ct2 25.07 22.85 24.43 24.03 21.42 21.81 24.55 24.43 21.43 21.43 21.41 19.03 19.11 19.12 19.12 19.12 19.12	Ct3 25.20 22.22 24.30 23.71 21.42 21.55 21.44 21.56 21.48 21.58 18.80 19.24 19.24 19.24 19.24 19.24	25.75 25.65 22.82 24.37 24.65 21.54 22.00 24.65 21.75 24.65 21.72 21.59
Snail1 GAPDH	#GZP 150 #GZP 150 TOF #GZP 151 TOF #GZP 150 TOF #48 150 #48 150 #48 150 #48 150 TOF #46 570 TOF #46 570 TOF	C11	Ct2 22.70 22.98 20.49 20.58 22.87 20.52 20.27 20.09 20.21 20.01 20.25 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 20.21 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Snail1 GAPDH ZEB1	#4C/P 150 #4C/P 150 #4C/P 1010 #4C/P 1010 #4C/P 1010 #4C/P 1010 #4C/P 100 #4C/P 1	C1 C1	C12 23.5 23.8 23.8 23.9 23.9 23.9 23.9 23.9 23.9 23.9 23.9	23-6 23-15 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 25 25 25 25 25 25 25 25 25 25 25 25 2	Snail1 GAPDH ZEB1	#ACIP 150 #ACIP 150 #ACIP 1510 #ACIP 150 #ACIP 150 #AC	α1	C(2 23) 23) 23) 23) 23) 23) 23) 23) 23) 23	2237 2223 239 2407 2518 2407 2428 2429 2429 2429 2429 2429 2429 2429	Snail1 GAPDH ZEB1	#GPP 190 #GPP 190 #GPP 1910 #GPP 1910 TOP #GPP 1910 #GPP 1910 #G	Ct1 Ct1	C2 27 27 27 27 28 28 28 28 29 29 29 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	C1 202 202 207 207 202 202 202 202 202 202	235 266 287 297 297 297 297 297 297 205 205 205 205 205 205 205 205 205 205
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23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-25 23-	Snail1 GAPDH ZEB1	aidJP 150           aidJP 200 UF           aidJP 200 UF           aidJP 200 UF           aidJP 200 UF           aidJP 100 UF           aidJP 100 UF           aidJP 100 UF           aidJ 100 UF           ai	C1 C1 C1	C2 22 22 32 22 35 22 35 23 35	227 222 223 229 220 220 220 220 220 220 220 220 220	Snail1 GAPDH ZEB1	#GCP 190           #GCP 190 <t< td=""><td>Ct1 Ct1</td><td>C2 377 228 228 244 243 244 243 244 243 244 100 100 100 100 100 100 100 100 100 1</td><td>C3 A02 20 20 20 20 20 20 20 20 20 20 20 20 2</td><td>23.75 23.65 23.67 24.77 24.77 24.77 24.77 24.64 24.77 24.77 24.77 24.77 24.77 24.77 24.77 24.77 24.77 24.77 24.77 24.77 24.77 24.77 24.77 24.77 24.77 24.77 24.77 24.77 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Snall1 GAPDH ZEB1 GAPDH	#4CJP 150           #4CJP 200 TOF           #4CJP 200 TOF <td>C1 C1 C1</td> <td>CC2 235 235 235 235 235 235 235 235 235 23</td> <td>23-4 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5</td> <td>Snail1 GAPDH ZEB1 GAPDH</td> <td>#4CIP 150           #4CIP 150           <td< td=""><td><ul> <li>α1</li> <li>α1</li> <li>α1</li> </ul></td><td>C(2 2) 2) 2) 2) 2) 2) 2) 2) 2) 2) 2) 2) 2)</td><td>22.27 22.25 22.25 22.25 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 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22.27 22.27 22.27 22.27 22.27 22.27 22.27 22.27 22.27 27.27 27.27 27.27 27.27 27.27 27.27 27.27 27.27 27.27 27.2</td><td>Snail1 GAPDH ZEB1 GAPDH</td><td>#GCP 190           #GCP 190           <t< td=""><td>C11 C11 C11</td><td>0.2 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2</td><td>C3 302 2022 2023 2023 2023 2023 2023 202</td><td>23.75 23.65 23.67 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.070</td></t<></td></td<></td>	C1 C1 C1	CC2 235 235 235 235 235 235 235 235 235 23	23-4 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5	Snail1 GAPDH ZEB1 GAPDH	#4CIP 150           #4CIP 150 <td< td=""><td><ul> <li>α1</li> <li>α1</li> <li>α1</li> </ul></td><td>C(2 2) 2) 2) 2) 2) 2) 2) 2) 2) 2) 2) 2) 2)</td><td>22.27 22.25 22.25 22.25 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 22.26 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202</td><td>23.75 23.65 23.67 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 23.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 24.07 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Snaill GAPDH ZEB1 GAPDH	#4CJPP 150           #4CJPP 150           #4CJPP 150 100"           #4CJPP 150"           #4CJPP 150"           #4CJPP 150"           #4CJPP 150"           #4CJPP 150"           #4CJPP 150" <td>с1 с1 с1 с1</td> <td>C(2) 235 235 235 235 235 235 235 235 235 235</td> <td>23-4 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5</td> <td>Snail1 GAPDH ZEB1 GAPDH</td> <td>#4CJP 150           #4CJP 200           #4CJP 2000           #4CJP 2000</td> <td>а а а а</td> <td>C22 22.9 22.9 22.9 22.9 22.9 22.9 22.9 2</td> <td>22.37     22.32     32.63     32.64     32.64     32.65     32.64     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65 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23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5	Snail1 GAPDH ZEB1 GAPDH	#4CJP 150           #4CJP 200           #4CJP 2000	а а а а	C22 22.9 22.9 22.9 22.9 22.9 22.9 22.9 2	22.37     22.32     32.63     32.64     32.64     32.65     32.64     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65     32.65  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Snail1 GAPDH ZEB1	#GCPP 160           #GCPP 160           #GCPP 200 TOP	сн сн сн сн	CC2 235 235 235 235 235 235 235 235 235 23	23.4 23.9 23.9 23.9 23.9 23.6 23.6 23.6 23.6 23.6 23.6 23.6 23.6	Snail1 GAPDH ZEB1 GAPDH	##GPP 150           #GPP 150           <	а а а а	C(2 2) 2) 2) 2) 2) 2) 2) 2) 2) 2) 2) 2) 2)	22.27     22.25     22.25     22.25     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     22.26     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Snaill GAPDH ZEB1 GAPDH	#GCPP 150           #GCPP 150           #GCPP 250           #GCPP 250           #GCPP 250           #GCPP 250           #GCPP 150           #GCPP 150 <td< td=""><td>са са са са</td><td>CCU 2015 2015 2015 2015 2015 2015 2015 2015</td><td>23-4 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 23-5 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GAPDH</td><td>#4CPP 150           #4CPP 150           #4CPP 250           #4CPP 250           #4CPP 250           #4CPP 250           #4CPP 150           <td< td=""><td>а а а а</td><td>C12 223 239 239 239 239 239 239 239 239 23</td><td>227 222 228 239 239 239 239 239 239 239 239 239 239</td><td>Snail3 GAPDH ZEB1 GAPDH</td><td>#GCP 50 aGP 50</td><td>C11 C11 C11 C11</td><td>C2 22 23 22 23 23 24 24 24 24 24 24 24 24 24 24 24 25 24 24 25 24 24 25 24 25 24 24 25 25 24 25 25 25 25 25 25 25 25 25 25 25 25 25</td><td>C1 302 202 202 202 202 203 203 203 203 203</td><td>20.25 20.26 20.26 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 20.27 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ZEB1 GAPDH</td><td>#GCPP 150           #GCPP 150           <td< td=""><td>сн сн сн сн</td><td>0.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2</td><td>C3 302 222 223 223 224 225 225 225 225 225 225 225 225 225</td><td>233 228 228 228 228 228 228 228 228 228</td></td<></td></td<>	а а а а	C2 23 23 5 23 5 24 5 26 5 26 5 26 5 26 5 26 5 26 5 26 5 26	22.37     22.3     23.39     30.9     32.17     32.39     32.17     32.39     32.37     32.39     32.37     32.39     32.37     32.39     32.37     32.39     32.37     32.39     32.37     32.37     32.37     32.37     32.37     32.37     32.37     32.37     32.37     32.37     32.37     32.37     32.37     32.37     32.37     32.37     32.37     32.37     32.37     32.37     32.37     32.37     32.37     32.37     32.37     32.37     32.37     32.37     32.37     32.37     32.37     32.37     32.37     32.37     32.37     32.37     32.37     32.37     32.37     32.37     32.37     32.37     32.37     32.37     32.37     32.37     32.37     32.37     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   203         203         203         203         203         203         203         203         203         203	23.4 23.9 23.9 23.9 23.9 23.6 23.6 23.6 23.6 23.6 23.6 23.6 23.6	Snail1 GAPDH ZEB1 GAPDH	#4CPP 150           #4CPP 150 <td< td=""><td>а а а а а</td><td>C(2 2) 2) 2) 2) 2) 2) 2) 2) 2) 2) 2) 2) 2)</td><td>223     223     223     223     223     224     223     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     224     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230</td></td<>	C11 C11 C11	C2 27 27 27 27 27 27 27 27 27 27 27 27 27	0.3 202 202 202 202 202 202 202 202 202 20	235 236 236 237 237 230 230 230 230 230 230 230 230 230 230

 $\label{eq:supplementary Table 1} Statistical \ \text{source data}.$