**Figure 5 – Source Data 1.** Quantification of MEFs

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| **C. Hyper-contractility**  **phenotypes** | ***Pafah1b1+/+***  (N=4)  3.6± 3.6% | ***Pafah1b1hc/ko***  (N=5)  56.2± 8.4% | **Student’s *t*-test**  ***p*-value** (**\*\****p*=0.0011) |
| **E. Hyper-contractility**  **phenotypes** | ***CAGG-CreERT2; Pafah1b1+/+***  (N=3)  13.5 ± 2.4% | ***CAGG-CreERT2; Pafah1b1hc/hc*** (N=4)  40.5 ± 8.4% | (**\*\****p*=0.0446) |

N: total number of independent experimental sets performed for the time lapse live-cell imaging experiments of MEFs, total mitotic events were monitored; *Pafah1b1+/+*(96), *Pafah1b1hc/ko* (36), *CAGG-CreERT2; Pafah1b1+/+* (20), *CAGG-CreERT2; Pafah1b1hc/hc*(27)