Supplementary Online Material

"Tissue-specific interaction of Per1/2 and Dec2 in the regulation of fibroblast circadian rhythms"

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**Suppl. Figure 1:**

Suppl. Figure 1: Representative micrographs of ear- and lung-derived fibroblast preparations transduced with GFP-containing lentiviral particles. In any tested preparation more than 95 % of cells were positive for GFP. Scale bar – 250 µm.

**Suppl. Figure 2:**
**Suppl. Figure 2:** Response of ear- and lung-derived PER2::LUC fibroblasts to dexamethasone synchronization. Cells were treated with the depicted concentrations of dexamethasone and induction of PER2::LUC activity over the following 24 hours was determined relative to baseline levels. Data are presented as means ± SEM (n = 4).

**Suppl. Figure 3:**

**Suppl. Figure 3:** Period length in *Per/Dec2* single and double mutant fibroblasts. Period length as determined by sine wave fitting on baseline-subtracted recordings from ear- (left) and lung-derived cells (right). All data are presented as means ± SEM (n = 6-7); ** - p < 0.01, *** - p < 0.001, One-way ANOVA with Bonferroni post-test vs. WT; n/a - no rhythm detectable.