Supplementary information for article: LuminoCell: a versatile and affordable luminometer platform for monitoring in-cell luciferase-based reporters by Weissová et al.

Supplementary Figures

Supplementary Figure 1

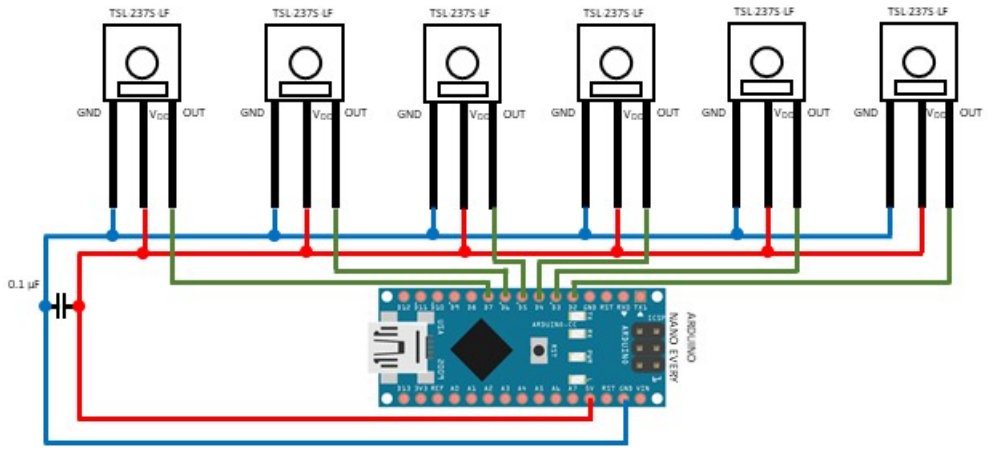

Figure S1: Wiring diagram of the LuminoCell device

Supplementary Figure 2

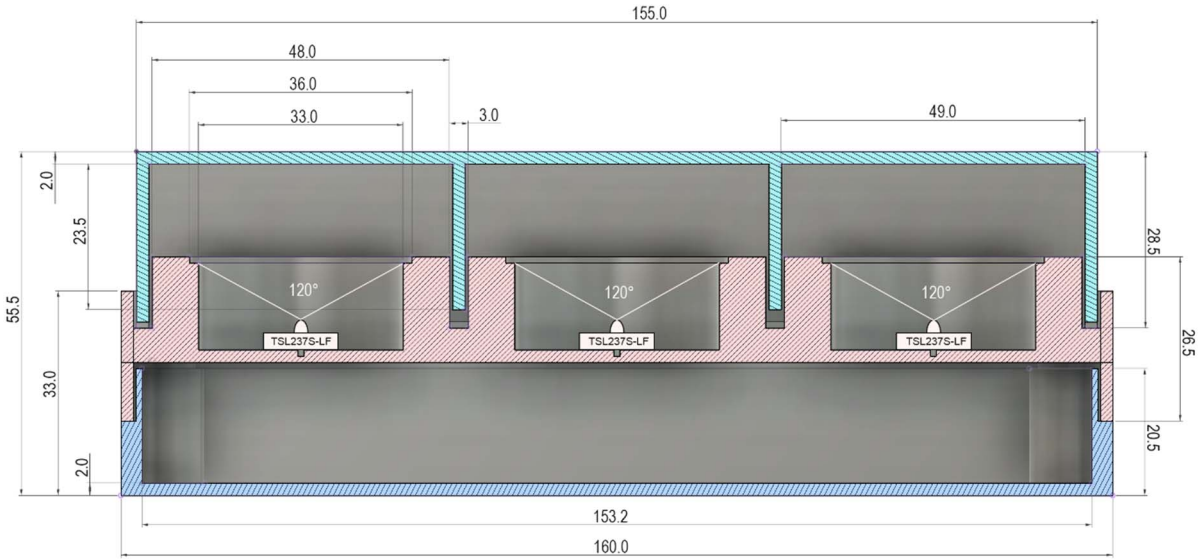

Figure S2: Cross section of the LuminoCell. Dimensions are given in millimetres.

Supplementary Figure 3

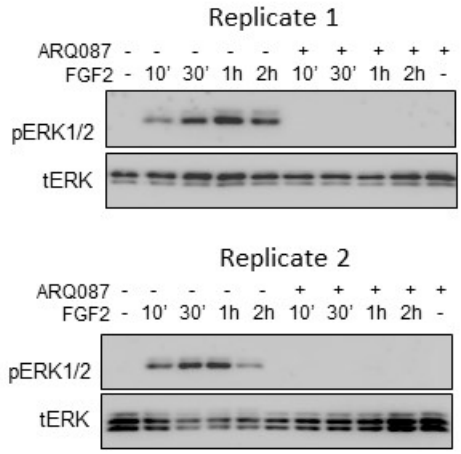

Figure S3: Western blot analysis of ERK phosphorylation (p) in RCS::pKrox24^{Luc} cells treated with 500 nM ARQ087 and 20 ng/ml FGF2. Total levels of ERK (t) represent a loading control.

Supplementary Figure 4

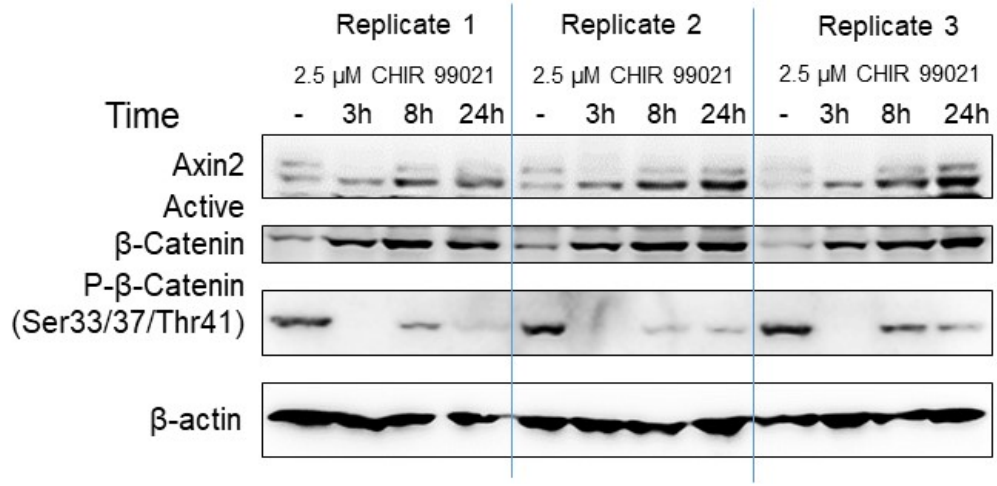

Figure S4: Western blot analysis of β-catenin and Axin2 expression in STF cells, β-actin represents a loading control.

Supplementary Figure 5

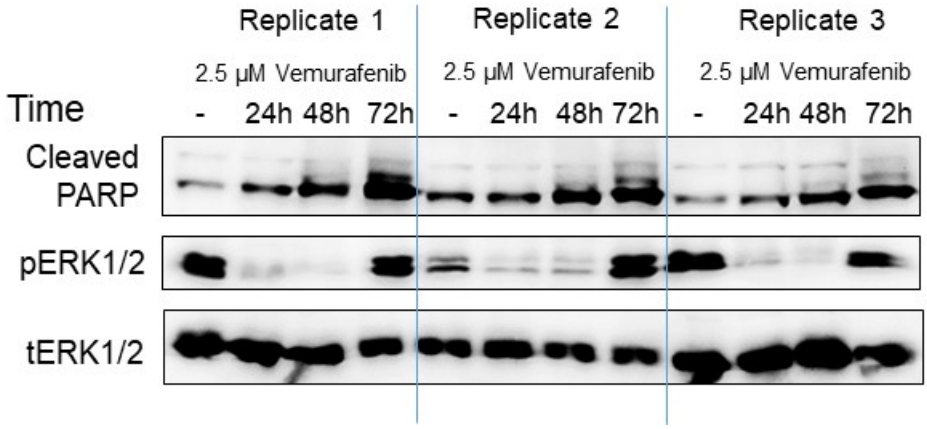

Figure S5: Western blot analysis of PARP cleavage and ERK (p) phosphorylation. Total (t) ERK represents a loading control.

Supplementary Figure 6

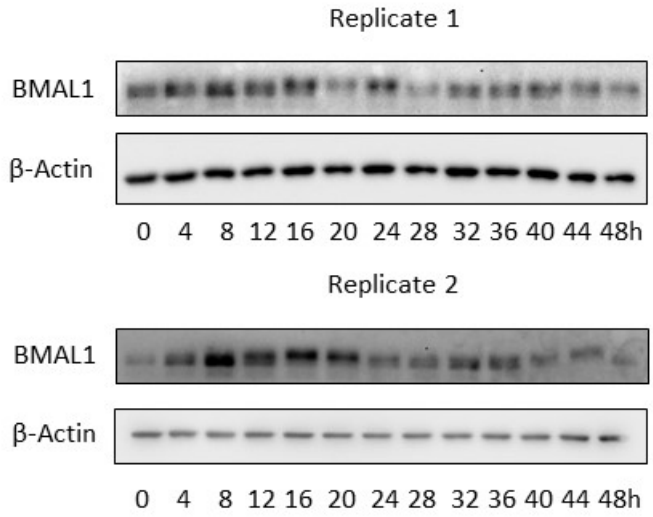

Figure S6: Western blot analysis of BMAL1 expression in hDF upon serum shock treatment, β-actin represents a loading control.

Supplementary Tables

Supplementary Table 1

Costs to build the LuminoCell		
Quantity	Part	Price (USD)
6x	TSL237S-LF	24
1x	Arduino Nano Every	11
1x	Capacitor (0.1 µF)	0.1
1x	USB cable	4
Estimated total costs		**39.1**

Table S1: Summary of costs to build the LuminoCell. Costs for 3D printed case are not included.

Supplementary Table 2

List of primary antibodies used for Western blot analysis		
Name	Catalogue Number	Manufacturer
Axin2	2151	Cell Signaling Technology
β-Catenin	05-665	Merck
Phospho-β-Catenin (Ser33/37/Thr41)	9561	Cell Signaling Technology
β-Actin	4970	Cell Signaling Technology
Cleaved PARP	9541	Cell Signaling Technology
pERK1/2	9101	Cell Signaling Technology
tERK1/2	4695	Cell Signaling Technology
BMAL1	ab93806	Abcam

Table S2: Summary of primary antibodies used in this study.