

***Supplementary Figure 4: Effect of Hsp70 induction of pIRE treatment***

Transgenic Hspa1b-LucF (+/+) Hspa1b-mPlum (+/+) mice were intradermally injected with 0.5x106 B16F10 cells. When the tumor reached a volume of 20 to 30mm3, pIRE parameters were applied with contact electrodes (0.4cm gap): 10 square waved pulses of 1200V, duration 100µs, frequency 1kHz. Bioluminescence imaging of pIRE-induced expression of LucF in these mice was performed 6h after pIRE. Luciferin (3 mg/mouse) was injected intraperitoneally 5 min before imaging (A) Gray images (top) and bioluminescent images (bottom) of transgenic mice, 6h after pIRE treatment (T) or no treatment (UT). High magnifications of treated (left) and untreated (right) tumor areas. (B) Quantification of tumors area mean bioluminescence intensity after pIRE treatment (T) or no treatment (UT). (C) Bioluminescence ratio between pIRE treated (T) or not treated (UT) tumors area. (D) Bioluminescence ratios determined after thermal stress between the leg exposed to the indicated temperature (°C) water-bath for 8 min and the not exposed leg. Values are means ± s.e.m., n=3, \*\*\*P<0.001, (Two-way ANOVA analysis).