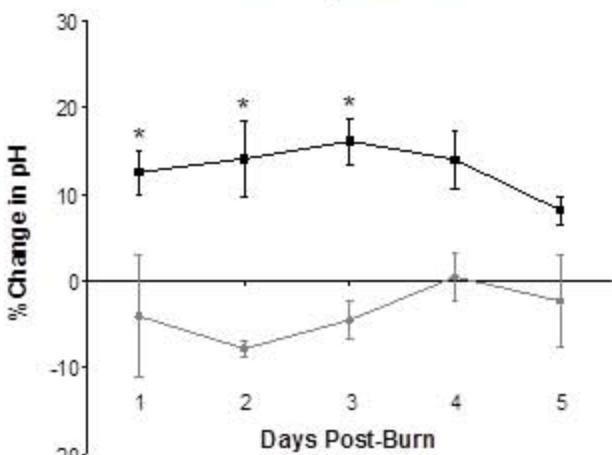
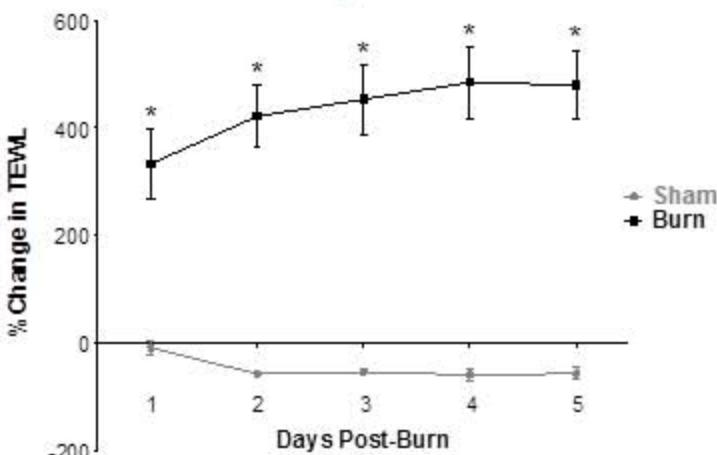


**(A) Burn-Injured Skin**

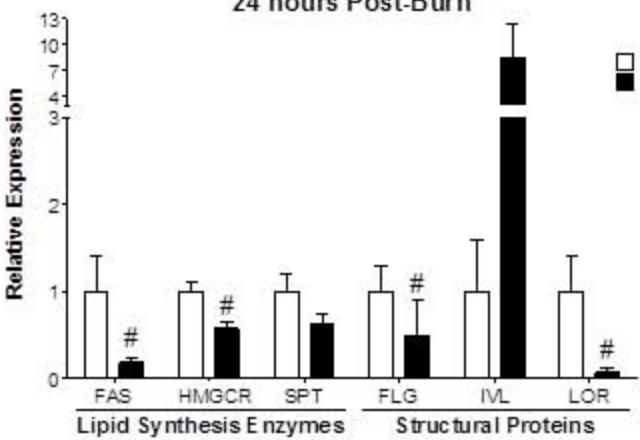


**(B) Burn-Injured Skin**



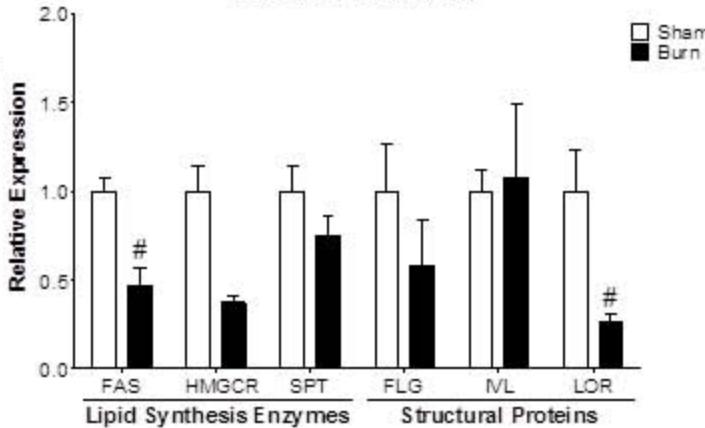
**(C)**

**Burn Margin  
24 hours Post-Burn**



**(D)**

**Burn Margin  
96 hours Post-Burn**

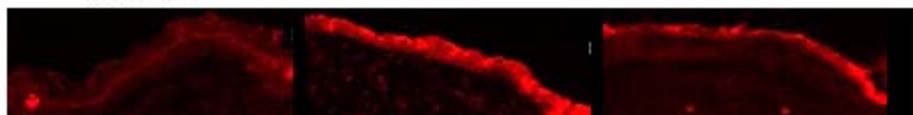


**(E)**

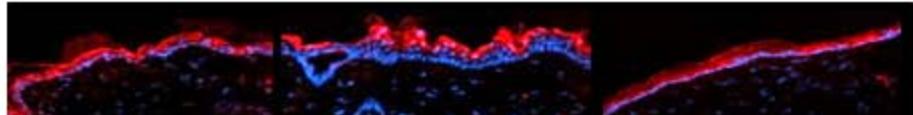
**Burn Margin**

Sham                          24 hours                          96 hours

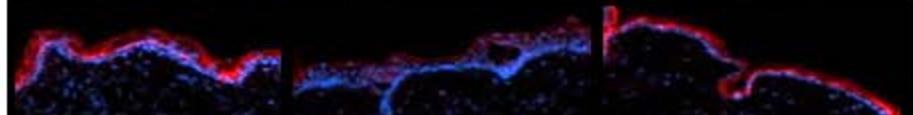
**Nile Red**



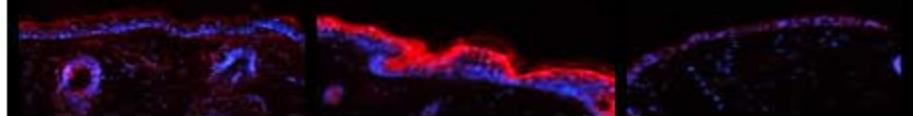
**Filaggrin**



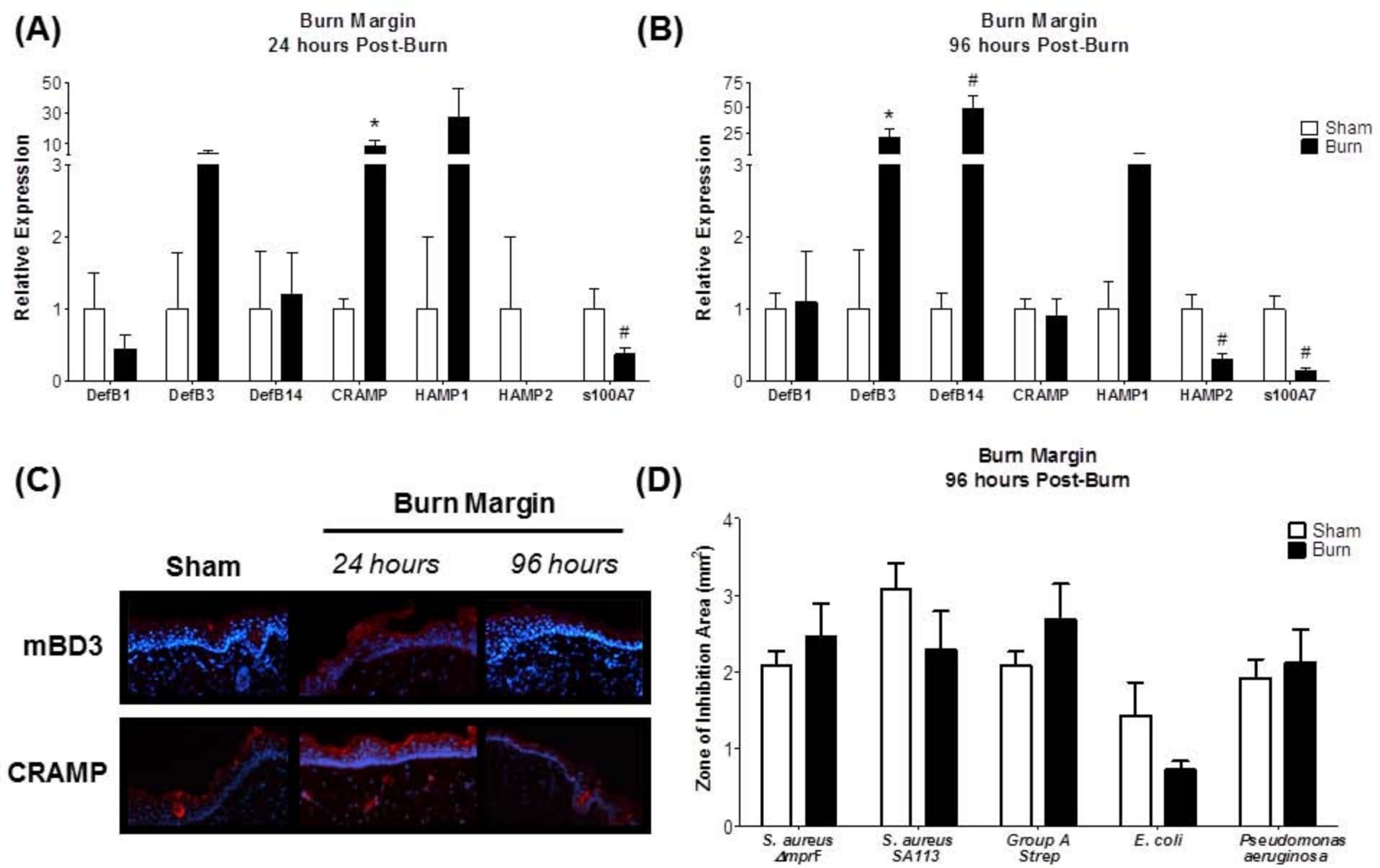
**Loricrin**



**Involucrin**



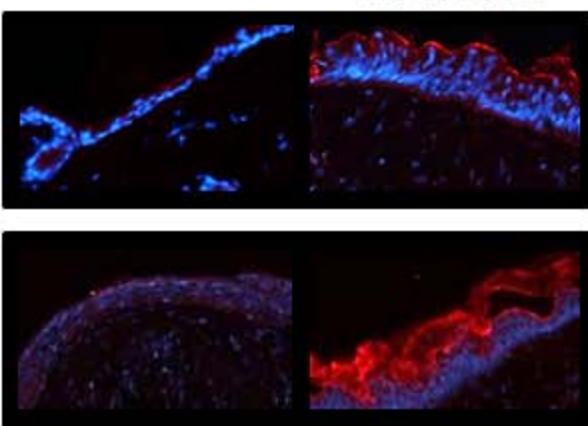
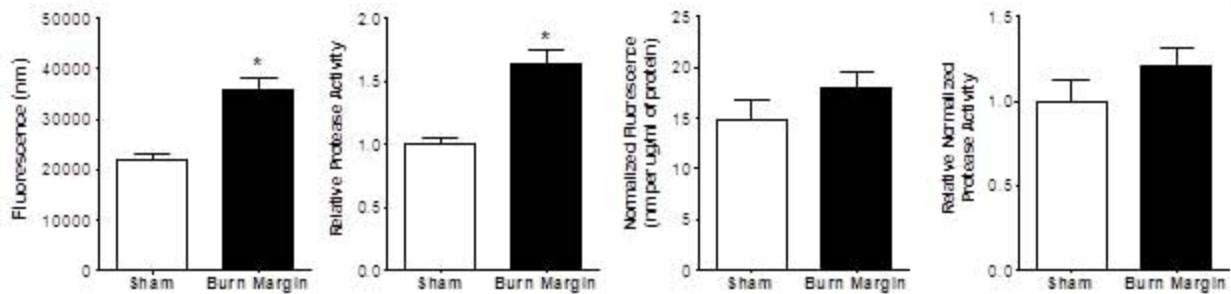
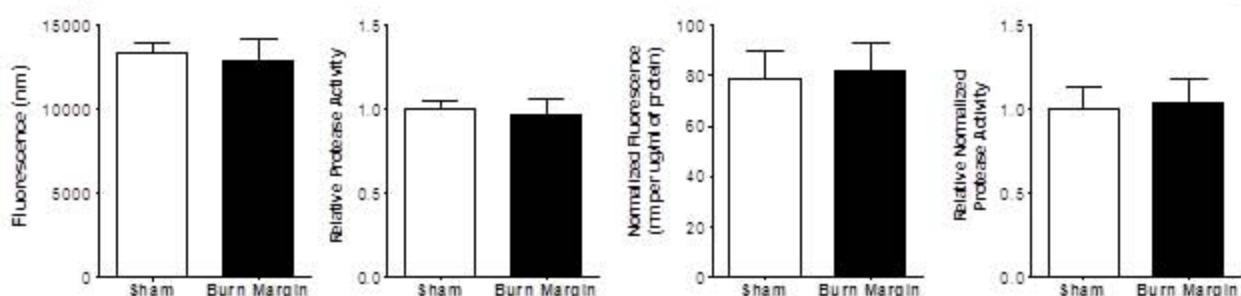
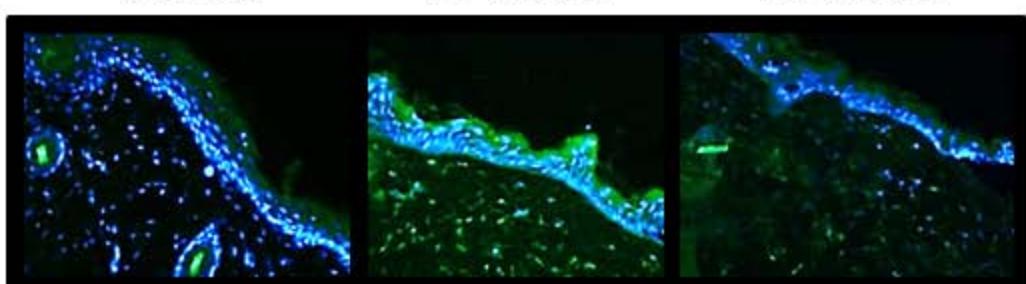
**Figure 1**



**Figure 2**

**(A)**

Burn Margin

**(B)****Burn Margin****Sham***24 hours***(C)****24 hours Post-Burn****(D)****96 hours Post-Burn****(E)****Burn Margin****Sham***24 hours**96 hours***Protease Activity****Figure 3**

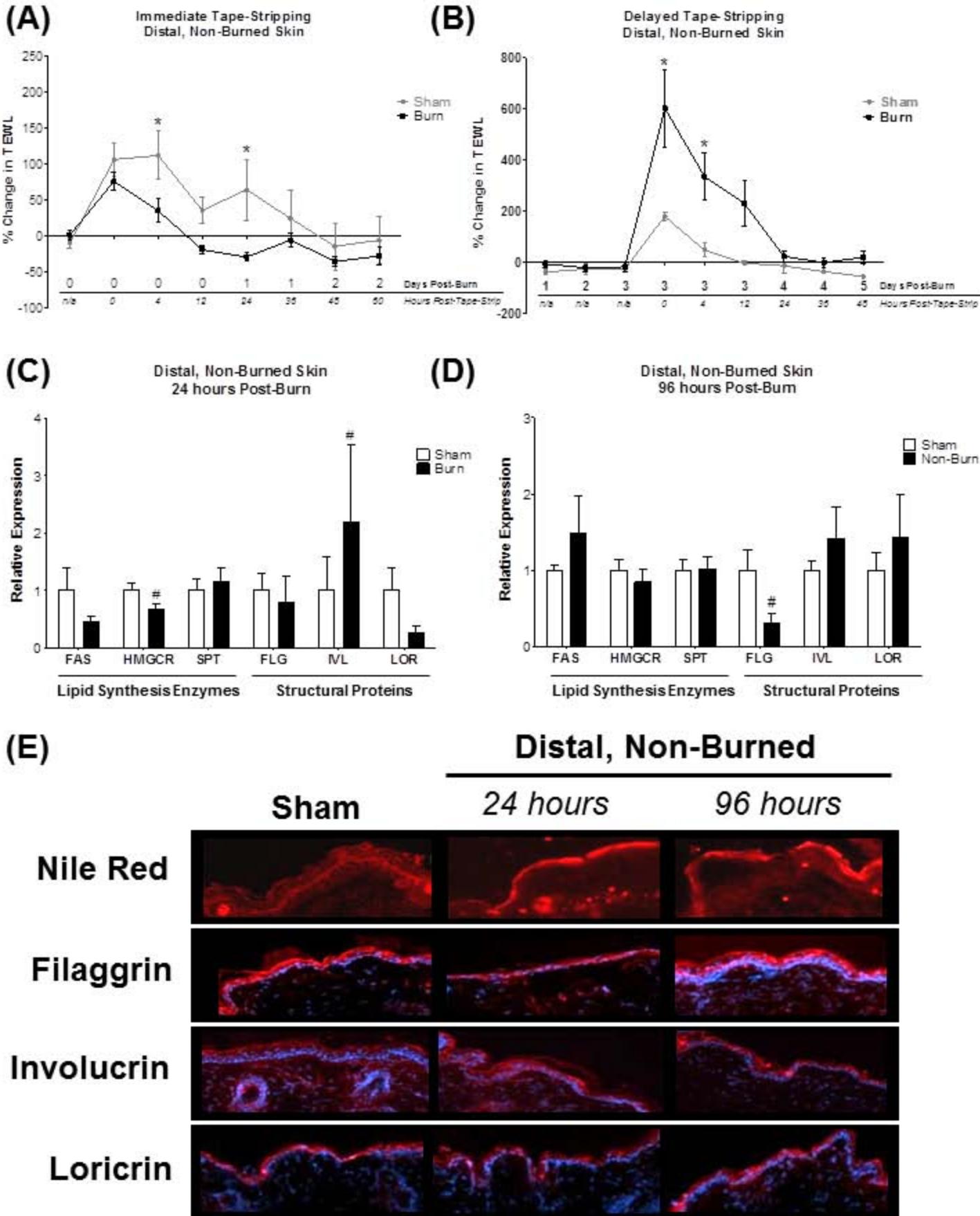


Figure 4

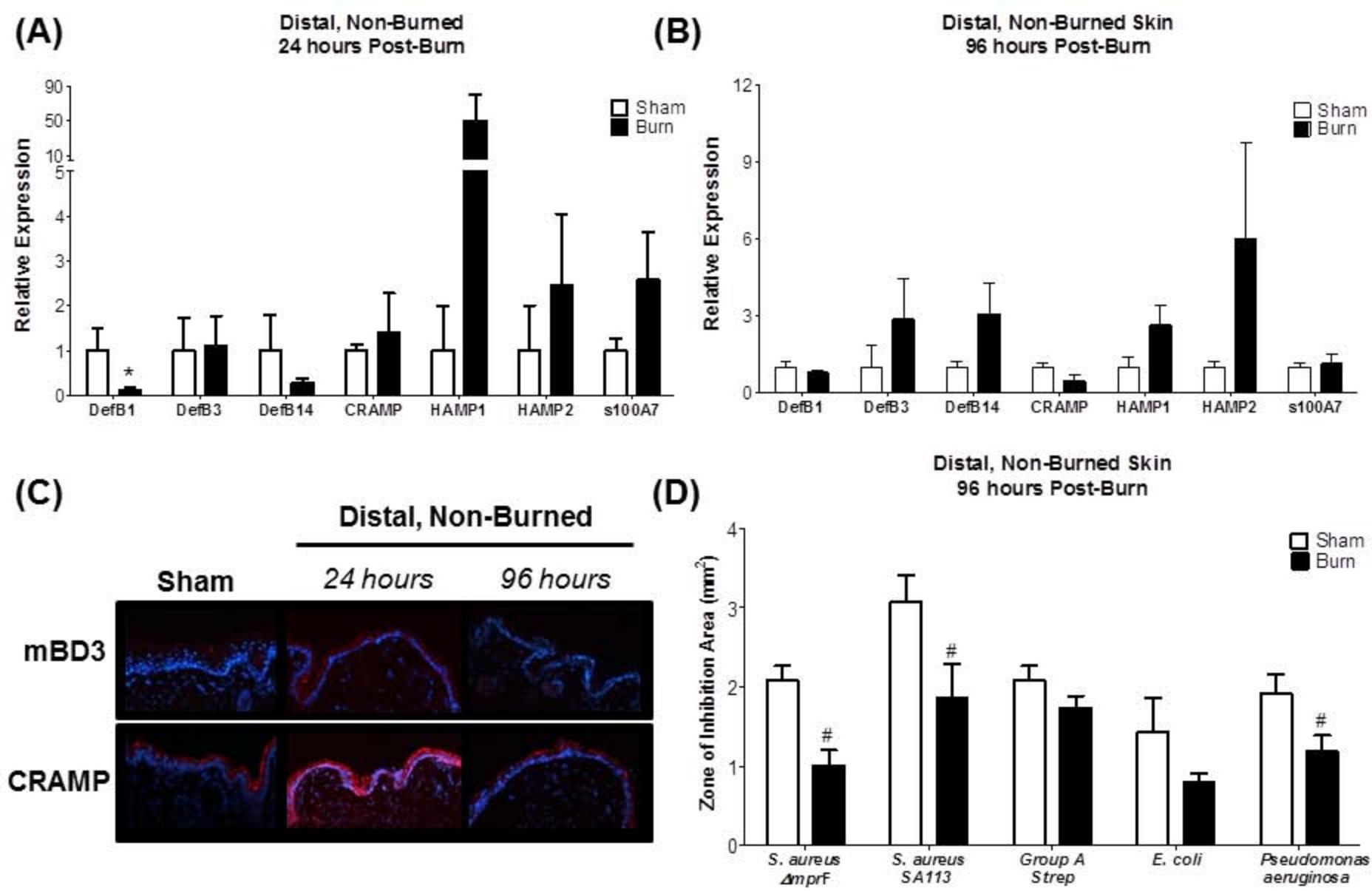


Figure 5

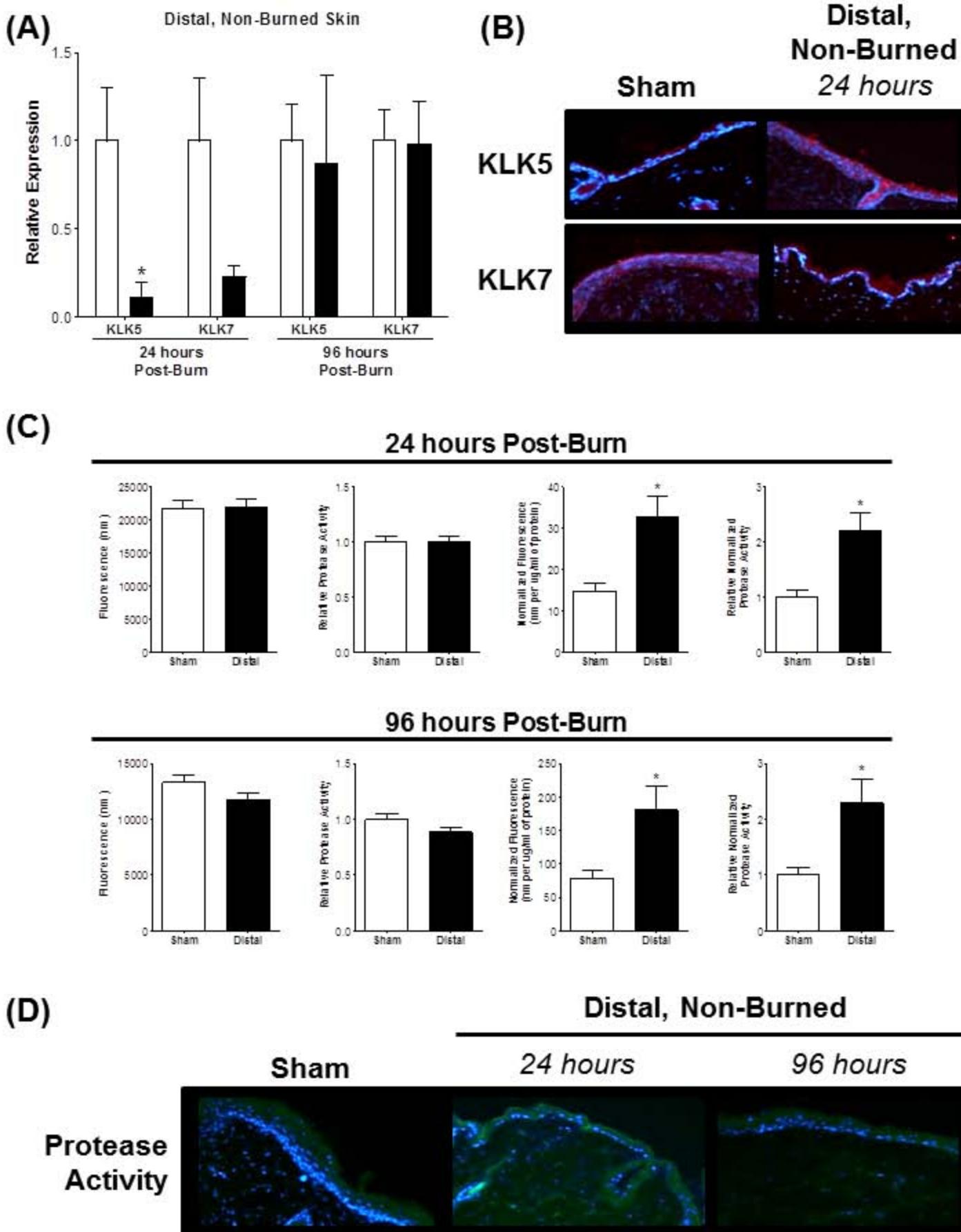
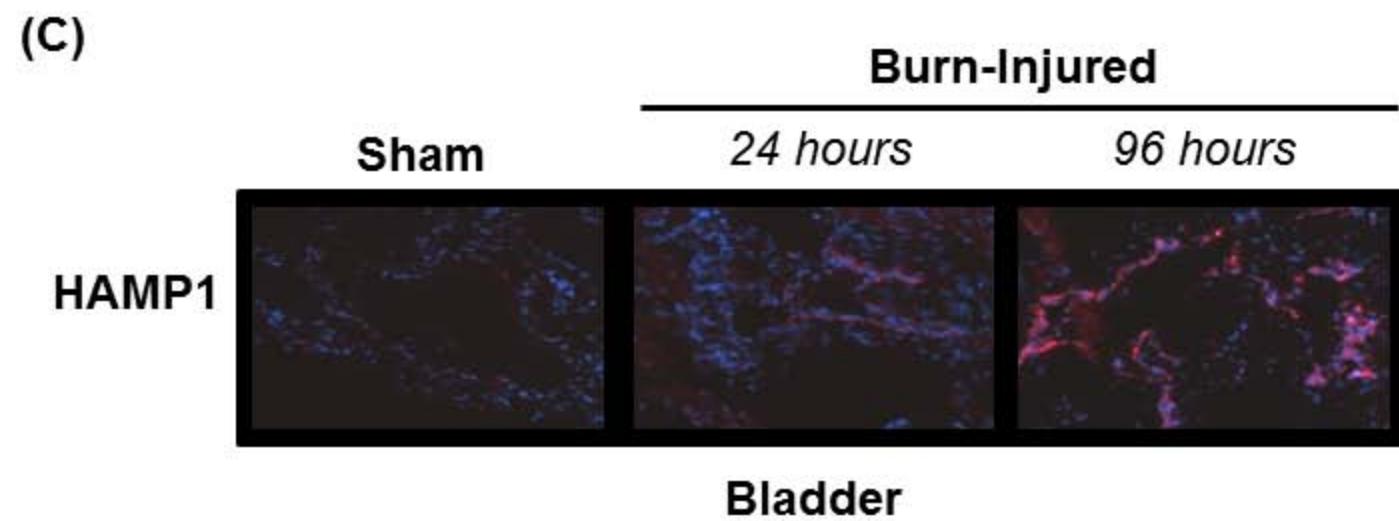
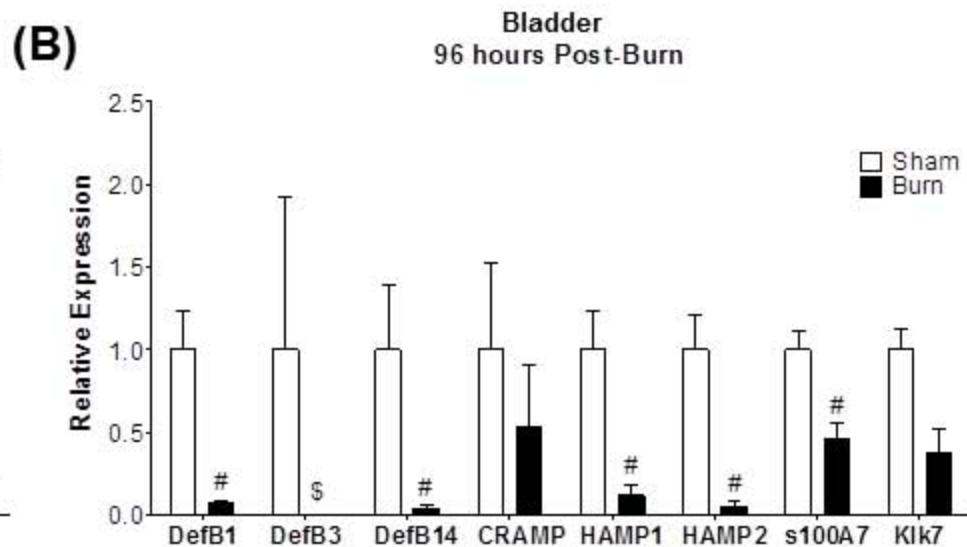
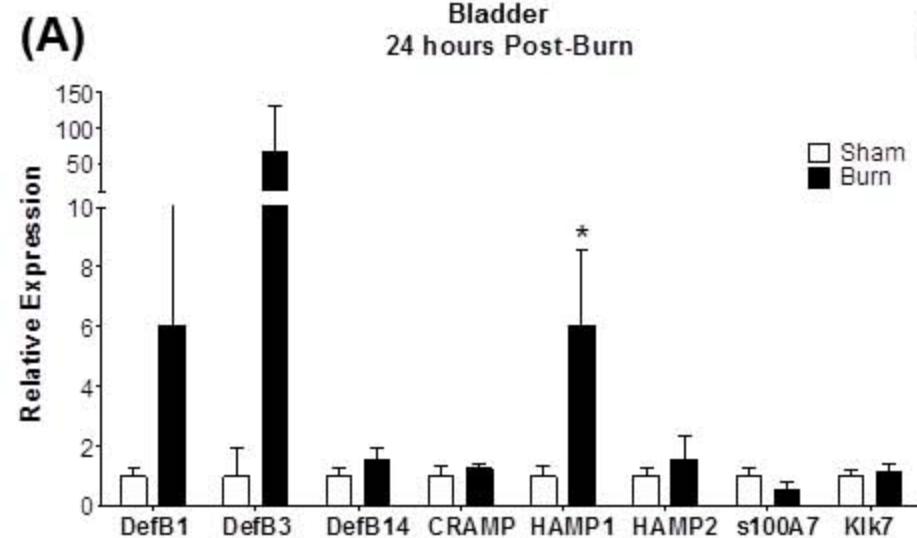
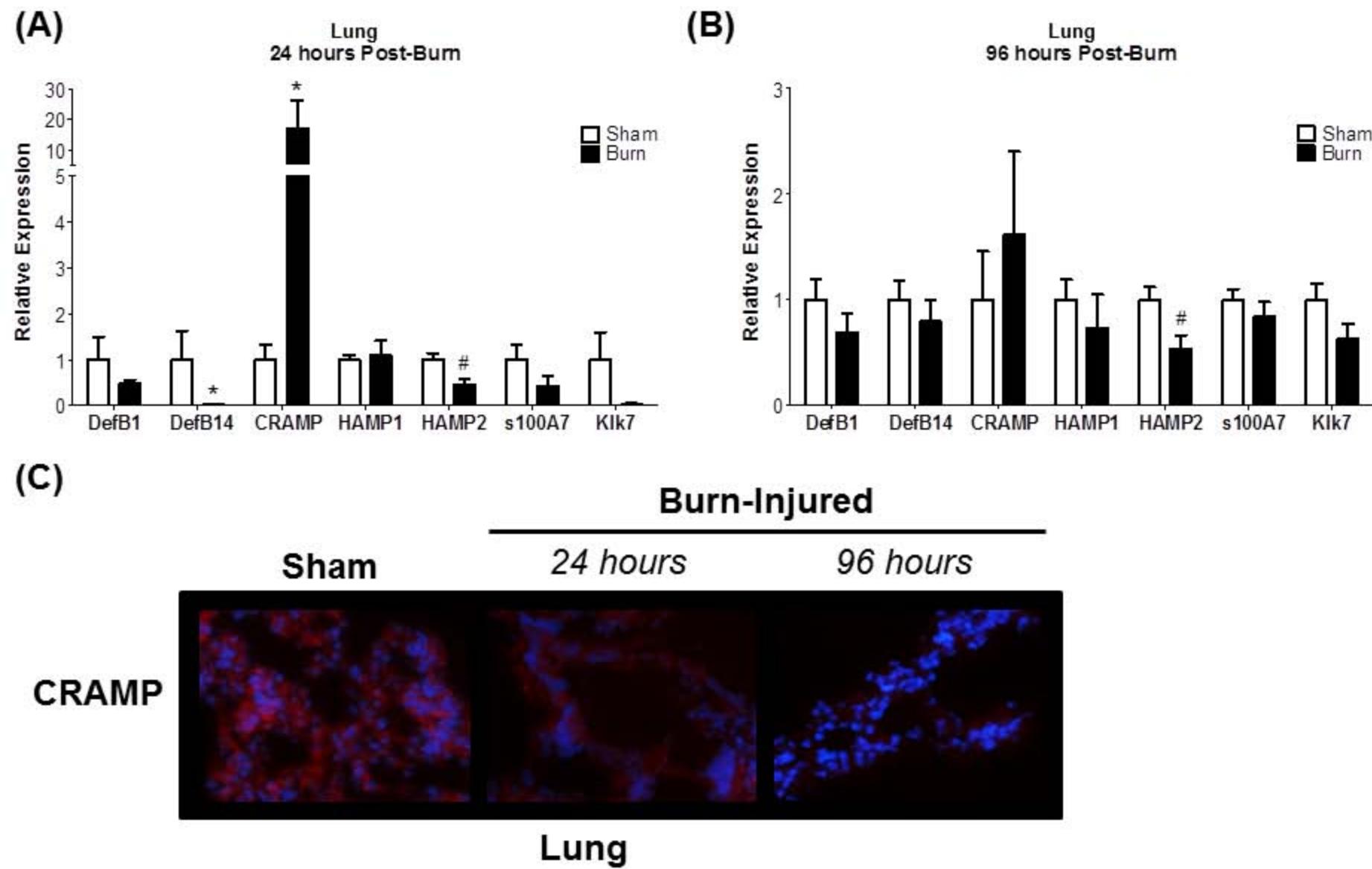


Figure 6



**Figure S1**



**Figure S2**

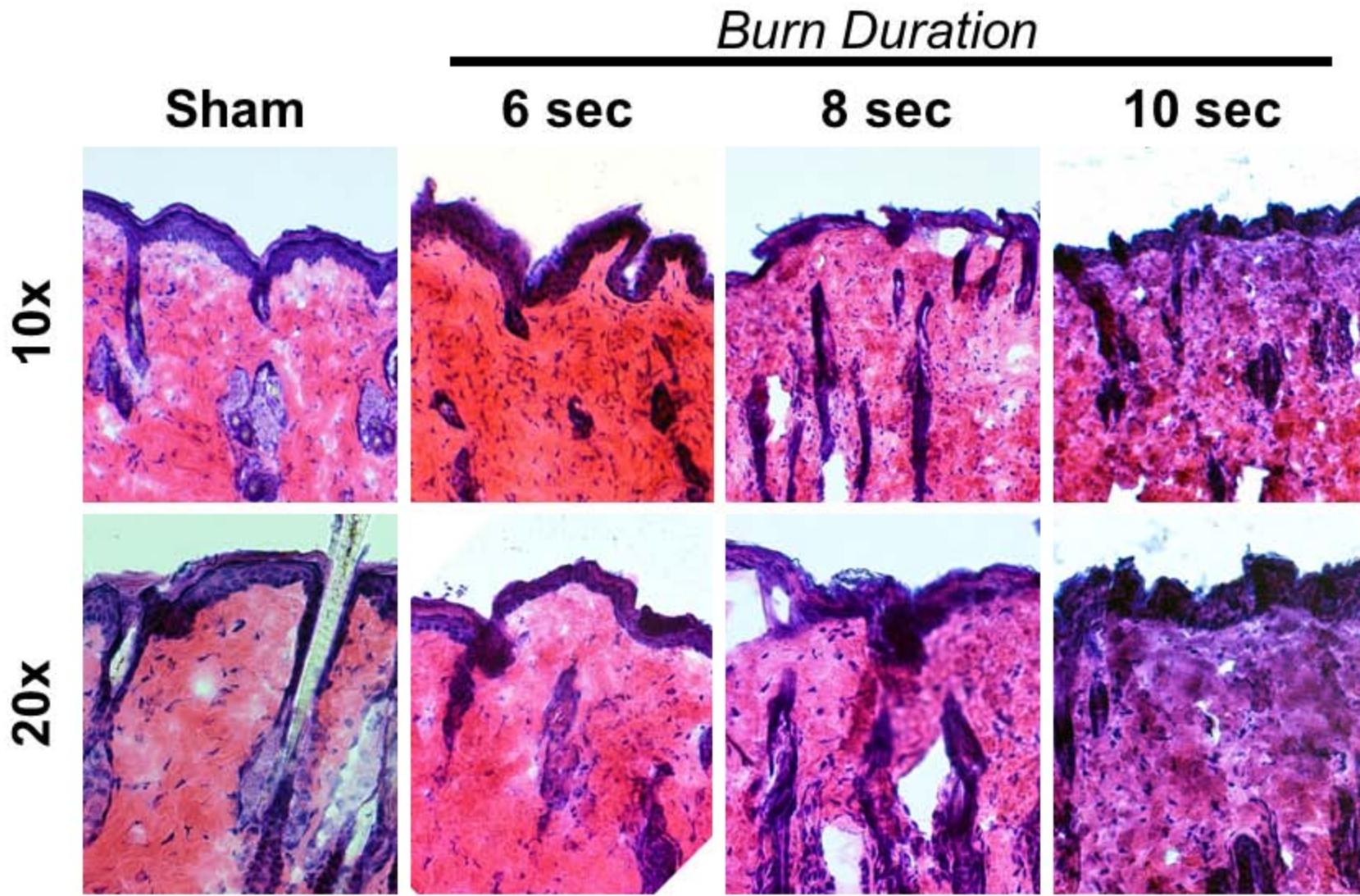


Figure S3

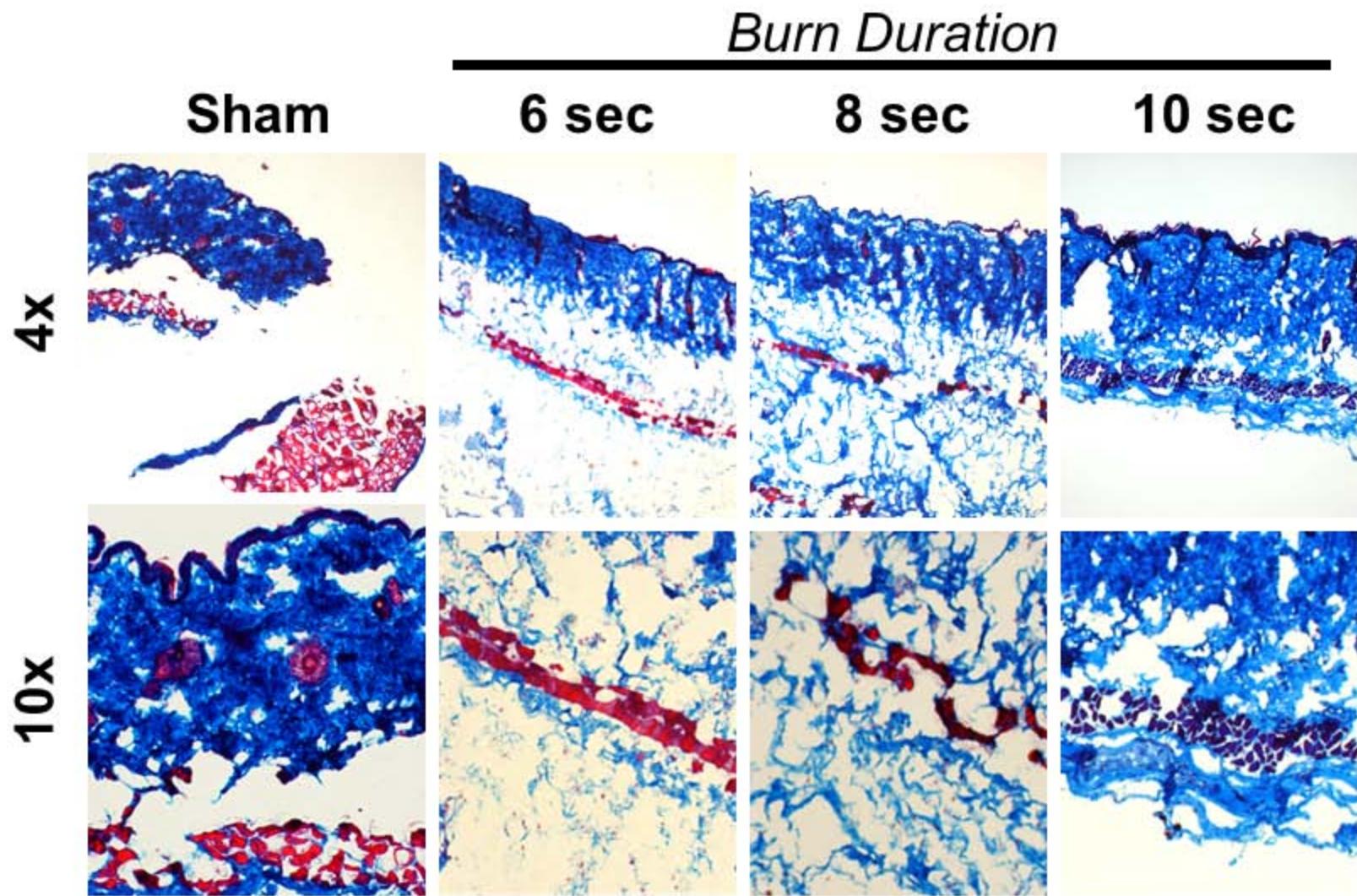


Figure S4

20x

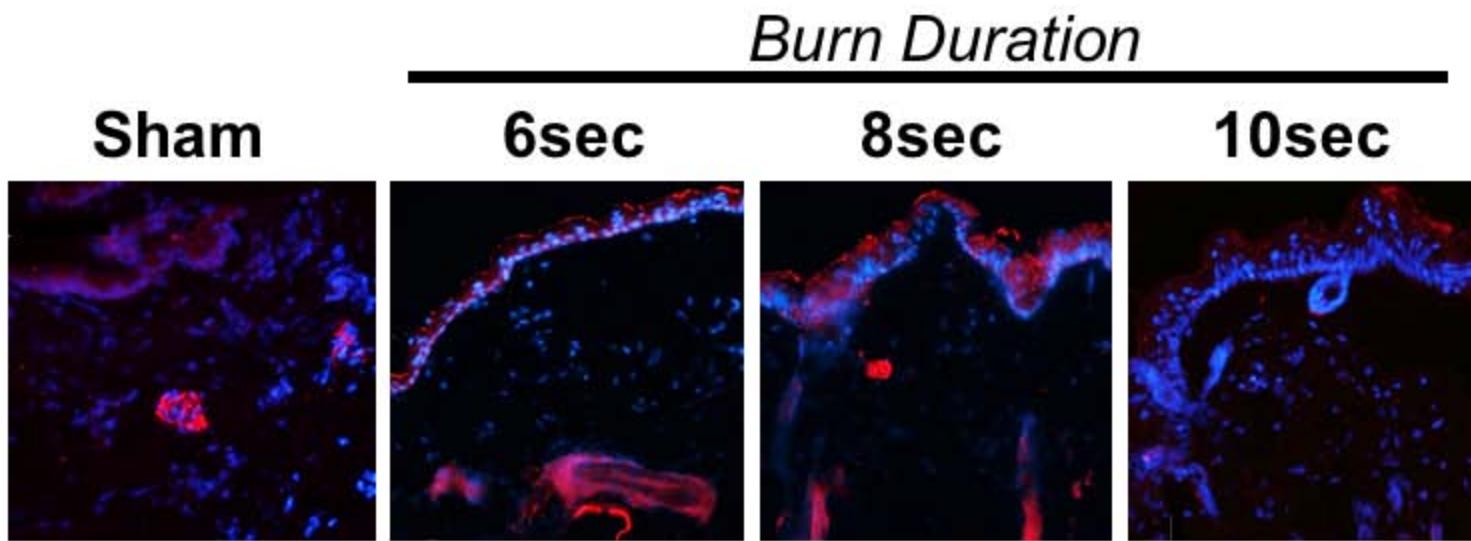
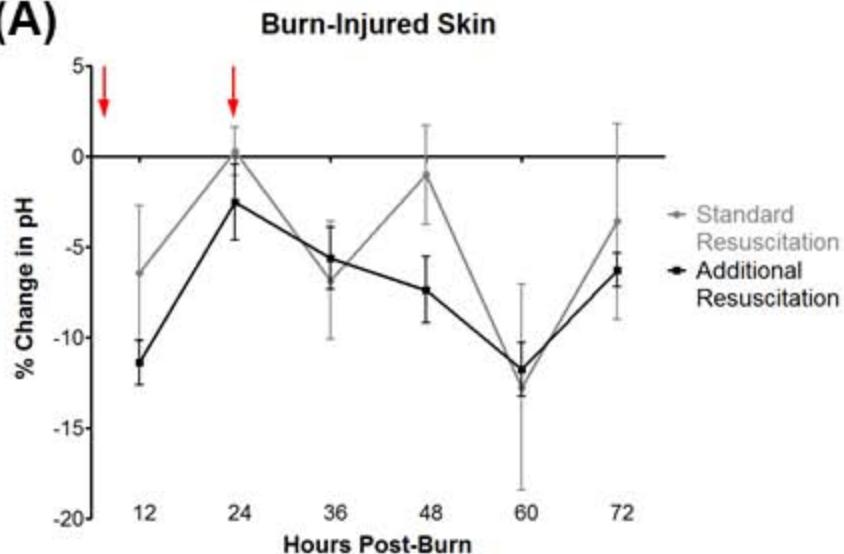
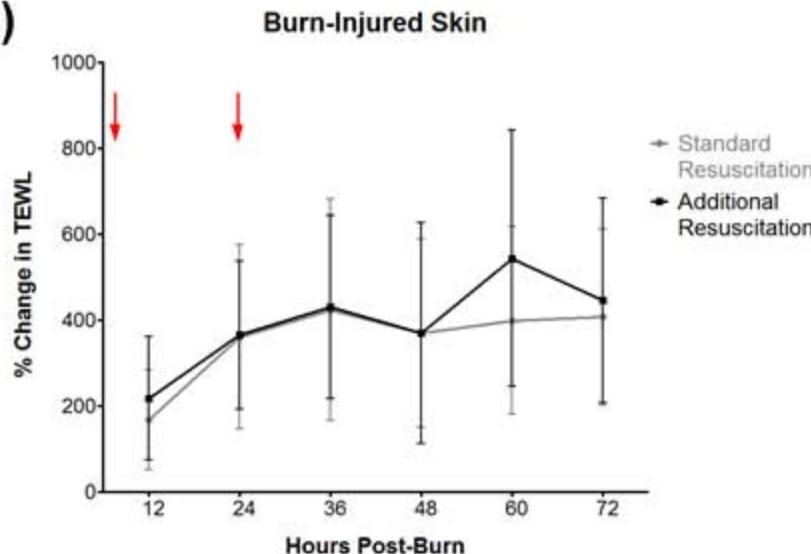
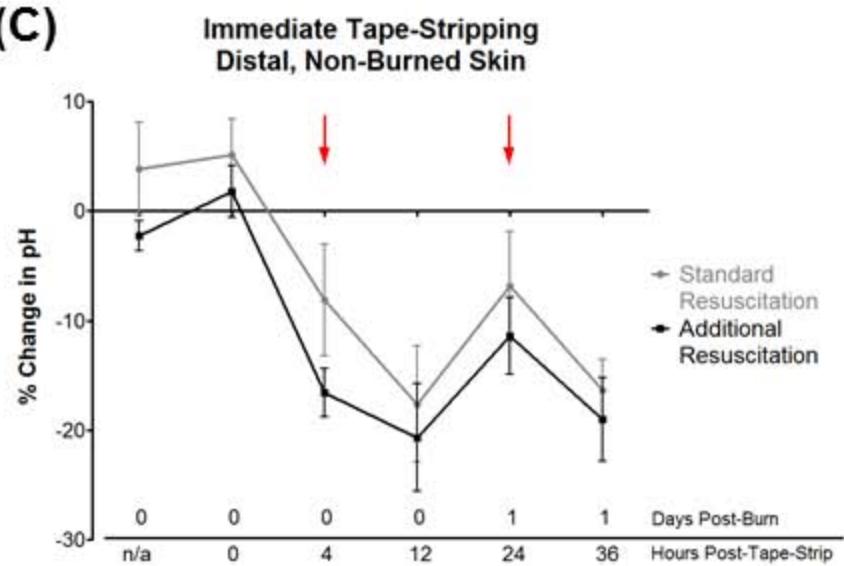
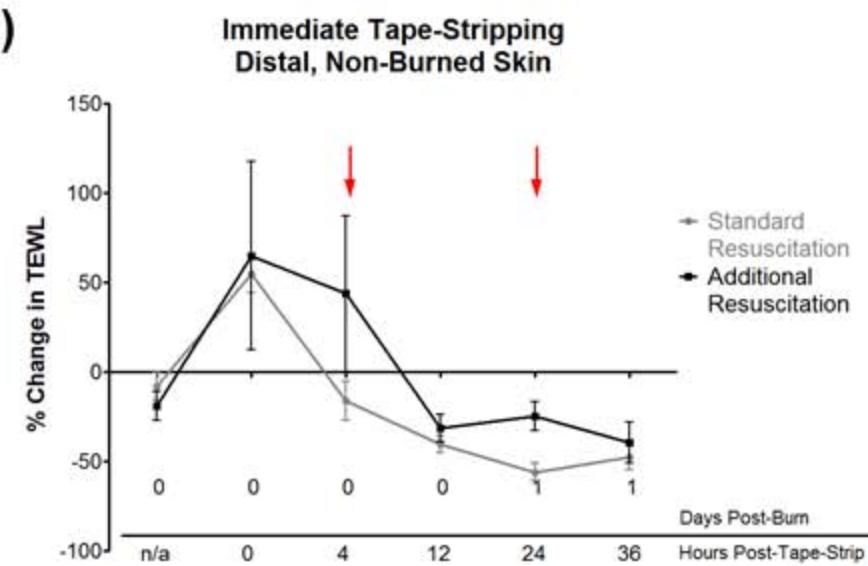


Figure S5

**(A)****(B)****(C)****(D)****Figure S6**