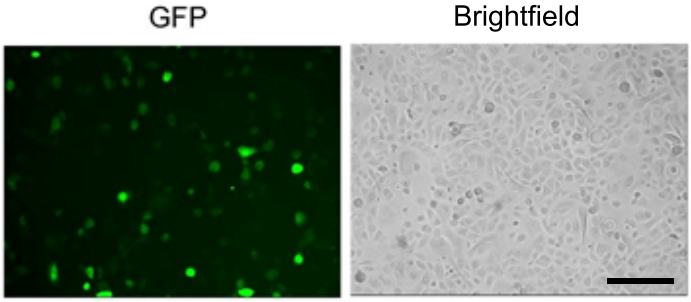
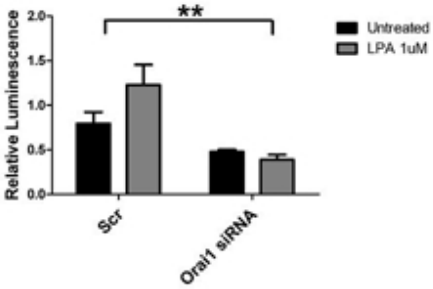
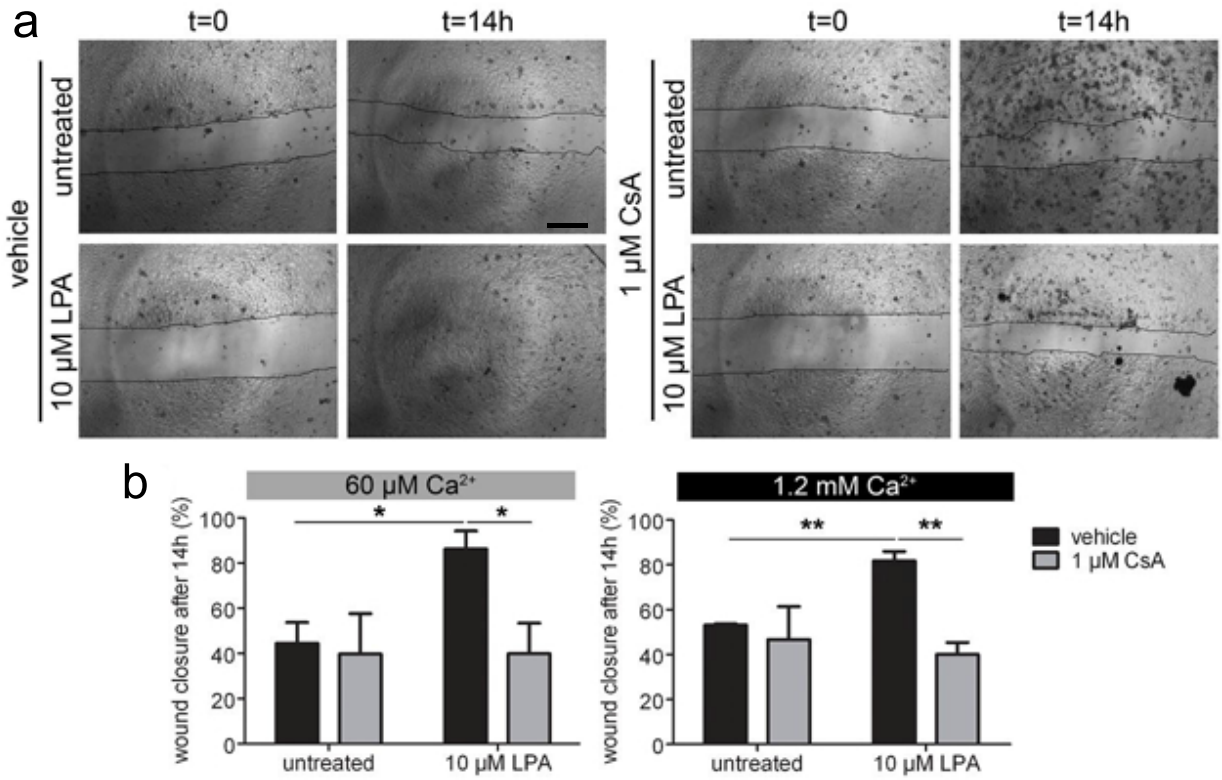


Supplementary figure 1. Transfection efficiency of siRNA following nucleofection. Primary keratinocytes were transfected with GFP using nucleofection, 24hours post transfection cells were imaged using a fluorescence microscope to determine transfection efficiency. Scale bar=100 µm.



Supplementary figure 2. Dual luciferase reporter assay shows significantly less LPA-triggered activation of NFAT2 after transfection with Orai1-directed siRNA compared to scrambled siRNA. Cells were treated with 10uM LPA for 24h where indicated (** p<0.01, 2-way ANOVA)



Supplementary fig. 3 : LPA-induced keratinocyte migration into scratch wounds requires calcineurin activity. (A) Keratinocyte cultures were subjected to 2D scratch wounding assays, which were performed in medium containing 60 µM Ca2+ or physiological 1.2 mM Ca2+. The average percentages of wound closure (B) are represented as bar graphs±SEM. Pre-incubation of cells with 1 µM cyclosporin A significantly impaired LPA-induced migration in both assays (n≥3, ** p<0.01, * p<0.05, t test and 2-way ANOVA). Scale bar=100 µm.