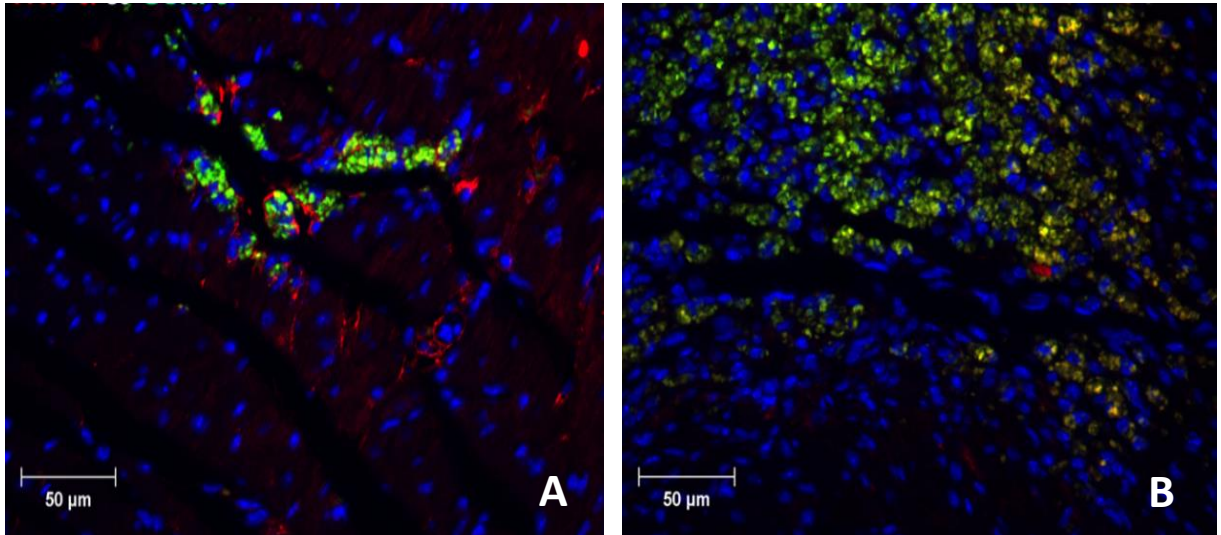
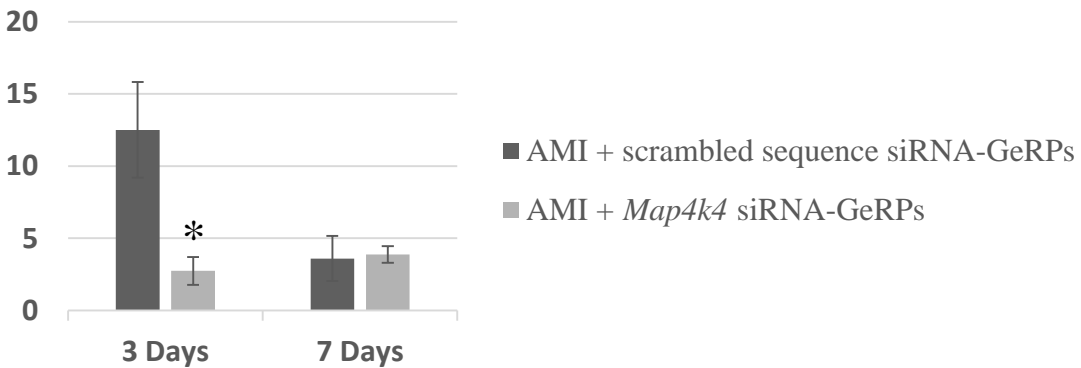


SUPPLEMENTARY DATA



C Relative *Tnf* transcription



SUPPLEMENTARY FIG. S3. To clarify the TNF- α findings, another pilot was conducted, comparing intra-infarct delivery of *Map4k4*-targeted GeRPs to GeRPs containing scrambled siRNA (n=3), examining transcription and TNF- α protein expression in histologic cross-sections of whole hearts at 7 days following GeRP delivery. TNF- α was visualized in the infarct area by immunohistochemistry (red); GeRP particles were identified by their fluorescent label (green).

(A) Infarcted heart injected on Day 0 with GeRPs containing scrambled sequence siRNA. (B) Infarcted heart injected on Day 0 with GeRPs containing *Map4k4* siRNA, showing relatively less TNF- α protein expression co-localized with the *Map4k4*-targeted GeRPs.

(C) Whole heart *Tnf* transcripts at 3 and 7 days in hearts injected with scrambled sequence siRNA followed the same pattern seen in PBS-treated infarcted hearts. However, hearts with *Map4k4*-targeted GeRPs had a 78% reduction in transcript levels at 3 days (* $p < 0.05$) which was no longer apparent at 7 days. Nonetheless, differences in protein expression were still evident on histology at 7 days within the infarct area at the site of GeRP delivery.