Supplemental Data

Translational profiles of medullary myofibroblasts during kidney fibrosis

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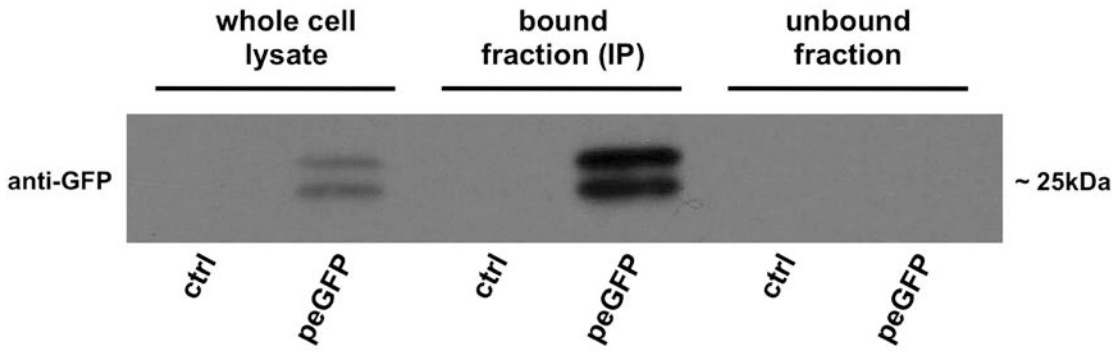

Figure S1. Validation of immunoprecipitation efficiency in eGFP-transfected HEK293 cells. HEK293 cells were transiently transfected with an eGFP expression plasmid and cell lysates immunoprecipitated with anti-GFP monoclonal antibody clones C8 and F7. Immunoblotting documented a strongly enhanced GFP signal in the bound, immunoprecipitated (IP) fraction when compared to the whole cell lysate and the GFP-depleted unbound fraction, respectively, indicating efficient immunoprecipitation of GFP.

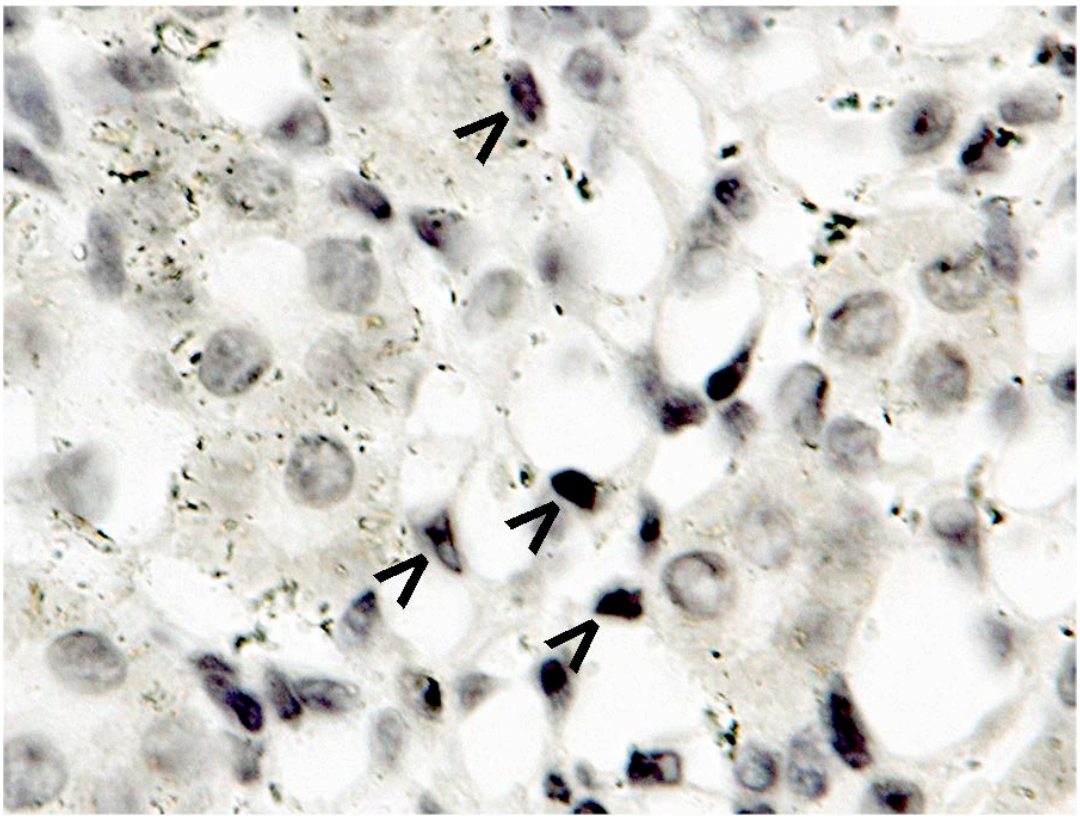

Figure S2. Strong intersrtitial eGFPL10a expression in kidney medulla from Peri/Fibro^{TRAP} mice. Immunohistochemistry using an anti-GFP antibody reveals strong interstitial reactivity in medulla, consistent with results by epifluorescence.

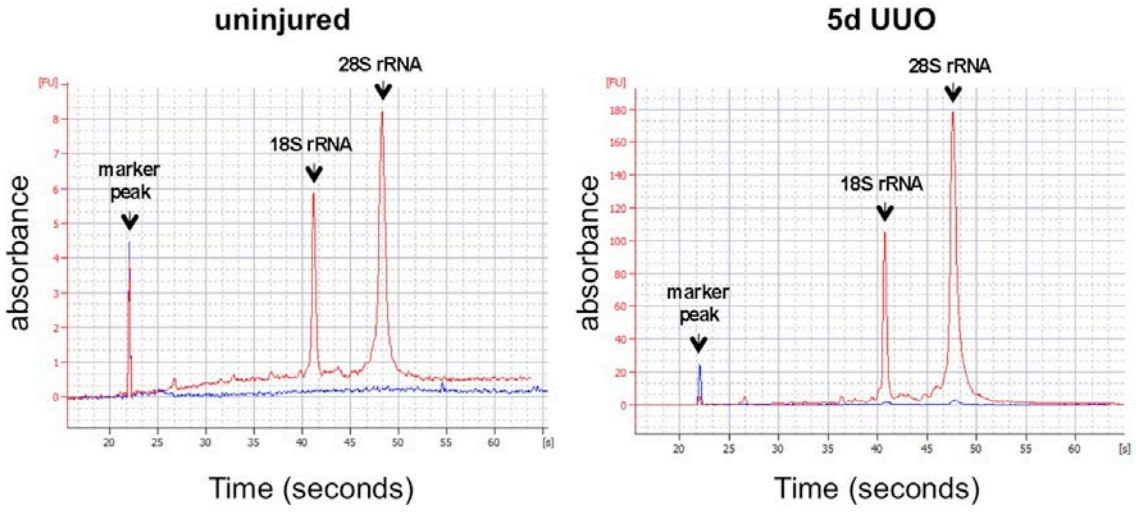

Figure S3. Validation of polysomal RNA isolation using Peri/Fibro^{TRAP} mice and affinity purification procedure. Electropherograms recorded by Bioanalyzer (PicoChip, Agilent Technologies) of TRAP-isolated RNA from uninjured *(left)* and fibrotic *(5d UUO*, *right)* kidney medulla from Peri/Fibro^{TRAP} mice (red traces) and wildtype controls (blue traces). Significant amounts of high quality RNA (RIN > 9.0) are detected only in samples from Peri/Fibro^{TRAP} mice. Note higher RNA yield in fibrotic compared to uninjured kidney indicating substantial induction of renal GFP-L10a expression in Peri/Fibro^{TRAP} animals during fibrogenesis. Y-axis: absorbance in arbitrary fluorescence units (FU); *arrows* mark identity of peaks.

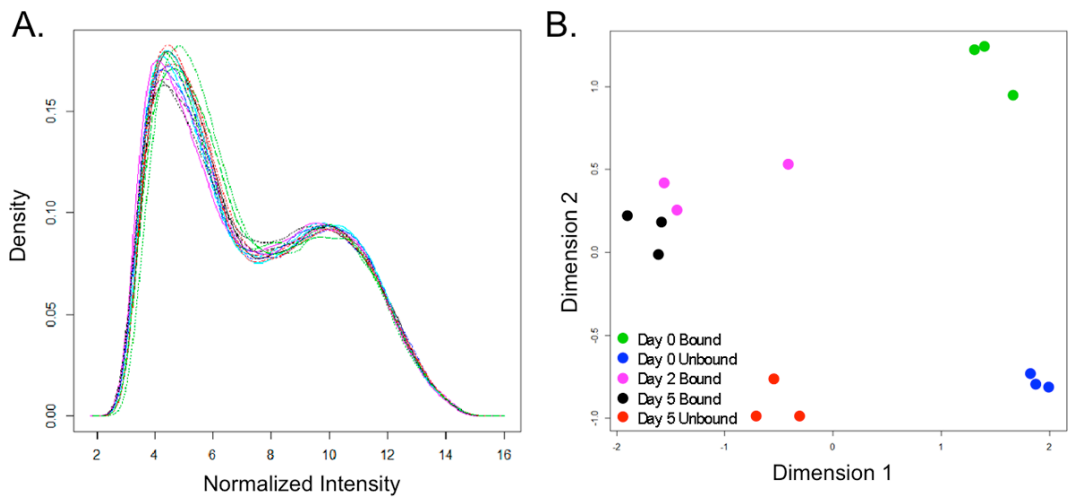

Figure S4. Normalized density curves and multi-dimensional scaling (MDS) plot for all microarrays. A. All 15 microarrays were normalized by the Robust Microchip Average and the normalized density curves reveal only small variations between samples, indicating good quality and adequate normalization. **B.** In order to compare the similarity of expression profiles among and between groups, all arrays are represented by MDS plot. As expected, within all groups there is good clustering indicating a high degree of similarity between biological replicates. The exception is the Day 2 bound group which clusters with Day 5 Bound, which may reflect variability in initiation of the fibrotic response. Day 0 and Day 5 groups all show excellent separation from one another and were used for downstream analysis.