Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: Time lapse of cell transfected with LifeAct-GFP and plated on a polyacrylamide

gel of 0.6 kPa in stiffness.

File Name: Supplementary Movie 2

Description: Time lapse of cell transfected with LifeAct-GFP and plated on fibronectin-

coated glass.

File Name: Supplementary Software 1

Description: Codes employed for the computational clutch model, and to analyze AFM and

optical tweezers data.