

Supplementary information

### **3D Viscoelastic Traction Force Microscopy**

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Legends for supplementary figures:

Figure S1: Example of creep response portraying the material behavior under simple shear deformation with (a) applied stress and (b) induced strain as function of time for a material described by our constitutive relation.

Figure S2: Example of material relaxation response portraying the material behavior under simple shear deformation with (a) applied strain and (b) induced stress as function of time for a material described by our constitutive relation.