

Table 1. Mobility analysis of single BR2 mRNPs and reference particles

Particle	A_{III} , %	D_{III} , $\mu\text{m}^2/\text{s}$	A_{II} , %	D_{II} , $\mu\text{m}^2/\text{s}$	A_I , %	D_I , $\mu\text{m}^2/\text{s}$	n
DNA-labeled BR mRNP	22 ± 9	0.24 ± 0.05	65 ± 7	0.7 ± 0.1	14 ± 4	4.0 ± 1.28	49,547
Qdots 655			40 ± 8	1.43 ± 0.15	60 ± 7	4.17 ± 0.39	3,598
Beads (210 nm)	4 ± 0.9	0.01 ± 0.002	30 ± 11	0.13 ± 0.03	66 ± 11	0.4 ± 0.05	18,743
FITC-dextran,* 500 kDa					100	2.42 ± 0.2	

A , relative fraction of total absorbance; n , number of single jumps from frame to frame.

*This diffusion constant was determined by a FRAP experiment; see [SI Materials](#).