

Table 1. Calculated parameters derived from FCS measurements

Proteins	Nucleoplasm				Splicing factor compartments			
	τ_{Da}	D_{fa}	τ_{Db}	D_{fb}	τ_{Da}	D_{fa}	τ_{Db}	D_{fb}
	<i>ms</i>	$\mu m^2 s^{-1}$	<i>ms</i>	$\mu m^2 s^{-1}$	<i>ms</i>	$\mu m^2 s^{-1}$	<i>ms</i>	$\mu m^2 s^{-1}$
U1-70K ^a	0.56 ± 0.08	28.21 ± 4.22	24.92 ± 3.08	0.63 ± 0.08	0.67 ± 0.17	24.98 ± 7.41	33.68 ± 3.77	0.47 ± 0.05
U2A ^a	0.67 ± 0.18	24.85 ± 6.87	19.91 ± 4.68	0.82 ± 0.20	0.72 ± 0.11	22.30 ± 3.70	26.82 ± 5.98	0.61 ± 0.15
hPrp31 ^a	0.99 ± 0.23	16.74 ± 5.40	18.08 ± 3.13	0.88 ± 0.15	0.97 ± 0.12	16.27 ± 2.01	20.55 ± 4.49	0.79 ± 0.18
hPrp4 ^a	0.76 ± 0.17	21.35 ± 4.49	24.68 ± 3.03	0.64 ± 0.08	1.06 ± 0.35	15.96 ± 4.54	22.46 ± 2.83	0.71 ± 0.10
hPrp8 ^a	0.64 ± 0.12	24.97 ± 4.50	30.29 ± 1.44	0.52 ± 0.02	0.78 ± 0.16	20.79 ± 4.34	33.83 ± 4.91	0.47 ± 0.07
Snu114 ^a	0.76 ± 0.24	22.09 ± 5.83	26.45 ± 5.16	0.61 ± 0.12	1.01 ± 0.09	15.58 ± 1.47	27.18 ± 2.78	0.58 ± 0.06
U1-70KΔ1-197	0.58 ± 0.19	28.81 ± 6.36	6.80 ± 1.50	2.40 ± 0.55	0.82 ± 0.10	19.39 ± 6.36	6.18 ± 1.89	2.70 ± 0.66
EGFP	0.56 ± 0.05	27.87 ± 2.22	NA	NA	ND	ND	ND	ND

NA, not applicable. Dynamics of snRNP proteins were measured in the nucleoplasm and the splicing factor compartments by FCS. The delay time values τ_{Da} for EGFP are comparable with the values of the fast component detected in the FCS measurements of snRNP proteins. The values for the delay times τ_{Db} describe the diffusion of the slow-moving component that reflects snRNP complexes. τ_{Da} and τ_{Db} were used to calculate the diffusion coefficients D_{fa} and D_{fb} , respectively. The mean ± SD from 8–10 cells is shown.

^aBAC stable cell line.