Table II. **Calculated parameters derived from FRAP measurements in BAC HeLa and E3 U2-OS cell lines**

Proteins	Nucleoplasm				Splicing factor compartments		E3 gene loci
	$D_{f\ DRB}$	$k_{off\ nt}$	$k_{off\ isog}$	$D_{f\ isog}$	$D_{f\ DRB}$	k_{ofwnt}	$k_{off\ E3\ gene\ loci}$
	$\mu m^2 s^{-1}$	s^{-1}	s^{-1}	$\mu m^2 s^{-1}$	$\mu m^2 s^{-1}$	s^{-1}	s^{-1}
U1-70K[a,b]	0.27 ± 0.02	1.57 ± 0.21	0.058 ± 0.007	NA	0.33 ± 0.05	1.07 ± 0.26	NA
U2A′[a,b]	0.56 ± 0.05	0.062 ± 0.005	0.047 ± 0.006	NA	0.17 ± 0.02	0.050 ± 0.08	NA
hPrp31[a,b]	0.55 ± 0.03	1.36 ± 0.30	0.63 ± 0.26	NA	0.24 ± 0.03	0.055 ± 0.005	NA
hPrp4[a,b]	0.47 ± 0.08	1.55 ± 0.13	0.90 ± 0.23	NA	0.32 ± 0.04	0.048 ± 0.007	NA
hPrp8[a,b]	0.27 ± 0.02	0.037 ± 0.004	NA	0.40 ± 0.02	0.10 ± 0.04	0.035 ± 0.005	NA
Snu114[a,b]	0.26 ± 0.03	0.032 ± 0.006	NA	0.27 ± 0.03	0.19 ± 0.02	0.038 ± 0.007	NA
U1-70K[a,c]	0.50 ± 0.05	1.88 ± 0.15	ND	ND	ND	ND	0.112 ± 0.010
U2B″[c]	0.61 ± 0.07	0.064 ± 0.005	ND	ND	ND	ND	0.056 ± 0.009
hPrp4[c]	0.75 ± 0.08	1.51 ± 0.20	ND	ND	ND	ND	0.043 ± 0.006
hPrp8[a,c]	0.37 ± 0.03	0.040 ± 0.003	ND	ND	ND	ND	0.030 ± 0.002

NA, not applicable. Diffusion coefficients $D_{f\ FRAP\ DRB}$ were calculated from fits of the FRAP curves measured in the nucleoplasm and the splicing factor compartments in DRB-treated cells. Dissociation rates $k_{off\ nt}$ were derived from fits of the FRAP curves measured in the nucleoplasm and splicing factor compartments of nontreated cells. Kinetic parameters $k_{off\ nucl\ isog}$ and $D_{f\ nucl\ isog}$ were derived from fits of the FRAP curves measured in the nucleoplasm of isoginkgetin-treated cells. Dissociation rates $k_{off\ E3\ gene\ loci}$ were calculated from fits of the FRAP curves measured at the transcription site of the E3 transgene in doxycycline-treated E3 U2-OS cells. The mean ± SEM is shown.

[a]BAC stable cell line.

[b]HeLa cells.

[c]E3 U2-OS cells.