

Materials List for:

Spatiotemporally Controlled Nuclear Translocation of Guests in Living Cells Using Caged Molecular Glues As Photoactivatable Tags

Rina Mogaki¹, Kou Okuro¹, Akio Arisaka¹, Takuzo Aida^{1,2}

¹Department of Chemistry and Biotechnology, School of Engineering, University of Tokyo

²Riken Center for Emergent Matter Science

Correspondence to: Kou Okuro at okuro@macro.t.u-tokyo.ac.jp, Takuzo Aida at aida@macro.t.u-tokyo.ac.jp

URL: <https://www.jove.com/video/58631>

DOI: [doi:10.3791/58631](https://doi.org/10.3791/58631)

Materials

Name	Company	Catalog Number	Comments
Azide-PEG4-NHS ester	Click Chemistry Tools	AZ103	
Q-dot 655 ITK	Invitrogen	Q21521MP	
Regenerated cellulose membrane (MWCO 3,500)	NIPPON Genetics	TOR-3K	
Regenerated cellulose membrane (MWCO 25,000)	Harvard Apparatus	7425-RC25K	
Hep3B Cells	ATCC	HB-8064	
8-chambered glass substrate	Nunc	155411JP	
96-well culture plate	Nunc	167008	
Eagle's minimal essential medium (EMEM)	Thermo Fisher Scientific	10370-021	
Fetal bovine serum (FBS)	GE Healthcare	SH30406.02	
Dulbecco's phosphate buffer saline (D-PBS)	Wako Pure Chemical Industries	045-29795	
LysoTracker Red	Lonza Walkersville	PA-3015	
Hoechst 33342	Dojindo	H342	
Cell Counting Kit-8	Dojindo	CK04	
Confocal laser scanning microscope	Carl-Zeiss	LSM 510	Equipped with two-photon excitation laser (Mai Tai laser, Spectra-Physics)
Confocal laser scanning microscope	Leica	TCS SP8	
Xenon light source	Asahi Spectra	LAX-102	
Microplate reader	Molecular Devices	SpectraMax Paradigm	