

Materials List for:

Real-time Observation of the DNA Strand Exchange Reaction Mediated by Rad51

Kentaro Ito¹, Bilge Argunhan¹, Hideo Tsubouchi¹, Hiroshi Iwasaki¹

¹Cell Biology Center, Institute of Innovative Research, Tokyo Institute of Technology

Correspondence to: Hiroshi Iwasaki at hiwasaki@bio.titech.ac.jp

URL: <https://www.jove.com/video/59073>

DOI: [doi:10.3791/59073](https://doi.org/10.3791/59073)

Materials

Name	Company	Catalog Number	Comments
0.2 x 1.0 cm quartz cuvette	Hellma Analytics	105-250-15-40	
1.0 x 1.0 cm quartz cuvette	Hellma Analytics	101-10-40	
adenosine triphosphate (ATP)	Sigma	A2383	
DynaFit	BioKin, Ltd.		DynaFit is a program to analyze kinetics of biochemical reactions.
Fluorescent labeled and non-labeled oligonucleotides	Eurofins Genomics		The sequences of oligos are listed in Table. 1.
Magnetic stirrer	Aisis (Japan)	CM1609	
PCR machine	TAKARA (Japan)	TP600	TAKARA PCR Thermal Cycler Dice
Spectrofluorometer	JASCO	FP8300	Contains a peltier temperature controller and magnetic stirrer system
Syringe	HAMILTON	1702RN 25ul SYR (22s/2"/2)	