

Materials List for:

# Single-molecule Manipulation of G-quadruplexes by Magnetic Tweezers

Huijuan You\*<sup>1</sup>, Shimin Le\*<sup>2,3</sup>, Hu Chen<sup>2,4</sup>, Linyan Qin<sup>1</sup>, Jie Yan<sup>2,4,5</sup>

<sup>1</sup>School of Pharmacy, Tongji Medical College, Huazhong University of Science and Technology

<sup>2</sup>Mechanobiology Institute, National University of Singapore

<sup>3</sup>Department of Physics, National University of Singapore

<sup>4</sup>Research Institute for Biomimetics and Soft Matter, Fujian Provincial Key Lab for Soft Functional Materials Research, Department of Physics, Xiamen University

<sup>5</sup>Center for Bioimaging Sciences, National University of Singapore

\* These authors contributed equally

Correspondence to: Huijuan You at [youthuijuan@hust.edu.cn](mailto:youthuijuan@hust.edu.cn), Jie Yan at [phyjji@nus.edu.sg](mailto:phyjji@nus.edu.sg)

URL: <https://www.jove.com/video/56328>

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## Materials

Name	Company	Catalog Number	Comments
DNA PCR primers	IDT		DNA preparations
DNA PCR chemicals	NEB		DNA preparations
restriction enzyme BstXI	NEB	R0113S	DNA preparations
coverslips (#1.5, 22*32 mm, and 20*20 mm)	BMH.BIOMEDIA	72204	flow channel preparation
Decon90	Decon Laboratories Limited		flow channel preparation
APTES	Sigma	440140-500ML	flow channel preparation
Sulfo-SMCC	ThermoFisher Scientific	22322	flow channel preparation
M-280, paramagnetic beads, streptavidin	ThermoFisher Scientific	11205D	flow channel preparation
Polybead Amino Microspheres 3.00 μm	Polysciences, Inc	17145-5	flow channel preparation
2-Mercaptoethanol	Sigma	M6250-250ML	flow channel preparation
Olympus Microscopes IX71	Olympus	IX71	Magnetic tweezers setup
Piezo-Z Stages P-721	Physik Instrumente	P-721	Magnetic tweezers setup
Olympus Objective lense MPLAPON-Oil 100X	Olympus	MPLAPON-Oil 100X	Magnetic tweezers setup
CCD/CMOS camera	AVT	Pike F-032B	Magnetic tweezers setup
Translation linear stage	Physik Instrumente	MoCo DC	Magnetic tweezers setup
LED	Thorlabs	MCWHL	Magnetic tweezers setup
Cubic Magnets	Supermagnete		Magnetic tweezers setup
Labview	National Instruments		Magnetic tweezers setup
OriginPro/Matlab	OriginLab/MathWorks		Data analysis