

Materials List for:

Monitoring Plasmid Replication in Live Mammalian Cells over Multiple Generations by Fluorescence Microscopy

Kathryn Norby¹, Ya-Fang Chiu¹, Bill Sugden¹

¹Department of Oncology, University of Wisconsin - Madison

Correspondence to: Bill Sugden at sugden@oncology.wisc.edu

URL: <https://www.jove.com/video/4305>

DOI: [doi:10.3791/4305](https://doi.org/10.3791/4305)

Materials

Name	Company	Catalog Number	Comments
DMEM	GIBCO	11965	
OptiMEM	GIBCO	31985	
Fetal bovine serum	Hyclone	SH30910.03	
Penicillin	Sigma	P3032	
Streptomycin sulfate	Sigma	S9137	
Hygromycin	Calbiochem	400050	400 µg/ml for SLK; 300 µg/ml for HeLa
Isopropyl-b-D-thiogalactoside (IPTG)	Roche	10 724 815 001	Final concentration 200 µg/ml
Lipofectamine 2000	Invitrogen	11668-027	
HEPES	GIBCO	15630	
Glass-bottom dishes	MatTek	P35G-1.5-10-C	
CultFoil	Pecon	000000-1116-08	
Axiovert 200M	Zeiss		
Colibri	Zeiss	423052-9500-000	
Neutral white LED	Zeiss	423052-9120-000	
Filter Cube 75 HE	Zeiss	489075-0000-000	
Plan-Apochromat 63x/1.4 objective	Zeiss	440762-9904-000	
Cascadell:1024 EMCCD camera	Photometrics	B10C892007	
Tempcontrol mini	Zeiss/Pecon	000000-1116-070	
Tempcontrol 37-2 digital	Zeiss/Pecon	000000-1052-320	
CTI Controller 3700 digital	Zeiss/Pecon	411856-9903	
Objective heater	Zeiss/Pecon	440760-0000-000	
Stage heating insert P	Zeiss/Pecon	411861-9901-000	
Stage-top Incubator S	Zeiss/Pecon	411860-9902-000	
Humidifier System	Zeiss/Pecon	000000-1116-065	