

Materials List for:

Profiling DNA Replication Timing Using Zebrafish As an *In Vivo* Model System

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Materials

Name	Company	Catalog Number	Comments
NaCl	Fisher Scientific	BP358-10	
KCl	Fisher Scientific	P217-500	
CaCl ₂	Fisher Scientific	C79-500	
MgSO ₄	EMD Millipore	MMX00701	
NaHCO ₃	Fisher Scientific	BP328-500	
Pronase	Sigma	10165921001	protease solution
Phosphate buffered saline (PBS)	Sigma	D1408	
Ethanol (EtOH)	KOPTEC	V1016	
Bovine serum albumin (BSA)	Sigma	A9647-100G	
Propidium Iodide (PI)	Invitrogen	P3566	
Tris-HCl	Fisher Scientific	BP153-500	
EDTA	Sigma	E9844	
SDS	Santa Cruz	sc-24950	
Proteinase K	NEB	P8107S	
Phenol:Chloroform	Sigma	P3803-100ML	
Sodium acetate	J.T.Baker	3470	
Glycogen	Ambion	AM9510	
RNase A	Thermo Scientific	EN0531	
Quanti-iT	Invitrogen	Q33130	Reagents for fluorescence-based DNA quantification
Covaris AFA microTUBE	Covaris	520045	specialized tube for sonication
Covaris E220 Sonicator	Covaris	E220	focused ultrasonicator
Agilent 4200 TapeStation	Agilent	G2991AA	automated electrophoresis machine
D1000 ScreenTape	Agilent	5067-5582	Reagents for automated electrophoresis machine
NEBNext Ultra DNA Library Prep Kit for Illumina	NEB	Cat#E7370L	DNA library preparation kit
NEBNext Multiplex Oligos Kit for Illumina (Index Primers Set 1)	NEB	Cat#E7335S	multiplex oligos for DNA library preparation kit
NEBNext Multiplex Oligos Kit for Illumina (Index Primers Set 2)	NEB	Cat#E7500S	additional multiplex oligos for DNA library preparation kit
NEBNext Library Quant Kit for Illumina	NEB	E7630L	quantification kit for library preparation
Agencourt AMPure XP beads	Beckman Coulter	A63882	magnetic beads

Illumina HiSeq 2500	Illumina	SY-401-2501	next generation DNA sequencing platform
40 µm Falcon Nylon Cell Strainer	Fisher Scientific	08-771-1	
VWR Disposable Petri Dish 100 x 25 mm	VWR	89107-632	
6.0 mL Syringe for Nichiryo Model 8100	VWR	89078-446	
Posi-Click Tubes, 1.7 mL, Natural Color	Denville Scientific	C2170 (1001002)	Dnase/Rnase free
Vortex Genie 2	Scientific Industries	SI-0236	
Wash Bottles	VWR	16650-022	Low-Density Polyethylene, Wide Mouth
Strainer	VWR	470092-440	6.9 cm, fine mesh
Corssing tank	Aquaneering	ZHCT100	individual breeding tank
iSpawn	Techniplast	N/A	large breeding tank
FACSaria II	BD biosciences	N/A	cell sorting machine
Wild M5a stereomicroscope	Wild Heerbrugg	N/A	dissecting microscope
Qubit 3 Fluorometer	Thermo Scientific	Q33216	quantitative fluorescence-based method for determining DNA concentration
Matlab	Mathworks	version 2017a	
Matlab Statistics Toolbox	Mathworks	version 11.1	
Matlab Curve Fitting Toolbox	Mathworks	version 3.5.5	