

Reconstruct Human Retinoblastoma In Vitro

 Xiao Zhang¹, Zi-Bing Jin¹
¹Beijing Institute of Ophthalmology, Beijing Tongren Eye Center, Beijing Tongren Hospital, Capital Medical University, Beijing Ophthalmology & Visual Science Key Laboratory

Corresponding Author

Zi-Bing Jin

jinzb502@ccmu.edu.cn

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Materials

Name	Company	Catalog Number	Comments
2-mercaptoethanol	Life Technologies	21985-023	
Anti-ARR3	Sigma	HPA063129	Antibody
Anti-CRX (M02)	Abnova	ABN-H00001406-M02	Antibody
Anti-Ki67	Abcam	ab15580	Antibody
Anti-Syk (D3Z1E)	Cell Signaling Technology	13198	Antibody
BbsI	NEB	R3539S	Restriction enzymes
Dispase (1U/mL)	Stemcell Technologies	7923	
DMEM basic	Gibco	10566-016	
DMEM/F-12-GlutaMAX	Gibco	10565-042	
DMSO	Sigma	D2650	
DPBS	Gibco	C141905005BT	
EDTA	Thermo	15575020	
Fetal Bovine Serum (FBS), Qualified for Human Embryonic Stem Cells	Biological Industry	04-002-1A	
Glutamine	Gibco	35050-061	
Ham's F-12 Nutrient Mix (Hams F12)	Gibco	11765-054	
MEM Non-essential Amino Acid Solution (100X)	Sigma	M7145	
Neurobasal Medium	Gibco	21103-049	
P3 Primary Cell 4D-Nucleofector X Kit S	Lonza	V4XP-3032	Nucleofection kit
Pen Strep	Gibco	15140-122	
Puromycin	Gene Operation	ISY1130-0025MG	
QIAquick PCR Purification Kit	QIAGEN	28104	
ncEpic-hiPSC/hESC culture medium	Nuwacell	RP01001	ncEpic-hiPSC/hESC culture medium in 1.2.1
Growth factor reduced basement membrane matrix	BD	356231	Matrigel in 1.2.1
Cell dissociation enzyme	Gibco	12563-011	TrypLE Express in 1.2.8
RNeasy Midi Kit	QIAGEN	75144	
RNeasy Mini Kit	QIAGEN	74104	

Supplement A	Life Technologies	17502-048	N-2 Supplement (100X), liquid, supplement in medium I
Supplement B	Life Technologies	17105-041	B-27 Supplement (50X), liquid, supplement in medium I, II, III
T4 Polynucleotide Kinase	Life Technologies	EK0032	
Taurine	Sigma	T-8691-25G	
Y-27632 2HCl	Selleck	S1049	
pX330-U6- Chimeric BB-CBh-hSpCas9-2A-Puro	Addgene	42230	
Nucleofector 4D	Lonza		
RPMI	Sigma	R0883-500ML	