

Materials List for:

A Method for Screening and Validation of Resistant Mutations Against Kinase Inhibitors

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Materials

Name	Company	Catalog Number	Comments
Cell and Tissue culture			
BaF3 Cells	ATCC		
HEK293T cells	ATCC		
pMSCV-JAK2-V617F-puro.GW	A gift from Ross Levine		
pMSCV-JAK2-V617F/Y931C.GW	Made in house		
pMSCV-JAK2-V617F/L983F.GW	Made in house		
pMSCV-JAK2-V617F/P58A.GW	Made in house		
pMSCV-V617F-Cherry.GW	Made in house		
pMSCV-JAK2-V617F/Y931C-cherry.GW	Made in house		
pMSCV-JAK2-V617F/L983F-cherry.GW	Made in house		
pMSCV-Luciferase-puro.GW	Made in house		
RPMI	Cellgro (corning)	15-040-CV	
DMEM	Cellgro (corning)	15-013-CV	
Penn/Strep	Cellgro (corning)	30-002-CI	
FBS	Atlanta biological	S11150	
Trypsin EDTA 1X	Cellgro (corning)	25-052-CI	
1x PBS	Cellgro (corning)	21-040-CV	
L-Glutamine	Cellgro (corning)	25-005-CL	
Puromycin	Gibco (life technologies)	A11138-03	
Protamine sulfate	Sigma	P3369	5 mg/ml stock in water
Trypan Blue solution (0.4%)	Sigma	T8154	
DMSO	Cellgro (corning)	25-950-CQC	
INCB018424 (Ruxolitinib)	ChemieTeK	941678-49-5	
WST-1	Roche	11644807001	
0.45 micron disc filter	PALL	2016-10	
70 micron nylon cell strainer	Becton Dickinson	352350	
Bacterial Culture			
XL-1 red <i>E. coli</i> cells	Agilent Tech	200129	
SOC	New England Biolabs	B90920s	
Ampicillin	Sigma	A0166	100 mg/ml stock solution
Bacto agar	Difco	214050	
Terrific broth	Becton Dickinson	243820	
Agarose	Genemate	E-3119-500	

Kits			
Dneasy Blood& tissue kit	Qiagen	69506	
Expand long template PCR system	Roche	1168134001	
Wizard Sv gel and PCR clean up system	Promega	A9282	
Pure Yield plasmid mini prep system	Promega	A1222	
PCR Cloning System with Gateway Technology with pDONR 221 & OmniMAX 2 Competent Cells	Invitrogen	12535029	
Gateway LR Clonase Enzyme mix	Invitrogen	11791019	
Mouse reagents			
Vivo-Glo Luciferin in-vivo Grade	Promega	P1043	
1/2 cc Lo-Dose u-100 insulin syringe 28 G1/2	Becton Dickinson	329461	
Mortor pestle	Coor tek	60316 and 60317	
Isoflorane (Isothesia TM)	Butler Schien	29405	
Instruments			
NAPCO series 8000 WJ CO2 incubator	Thermo scientific		
Swing bucket rotor centrifuge 5810R	Eppendorf		
TC-10 automated cell counter	Bio-RAD		This is not necessary, one can use standard hemocytomemetr for cell counting