

Materials List for:

Detection of Rare Mutations in CtDNA Using Next Generation Sequencing

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Materials

Name	Company	Catalog Number	Comments
QIAamp Circulating Nucleic Acid Kit	Qiagen	55114	DNA Extraction from Peripheral Blood for cfDNA
QIAamp DNA Blood Mini Kit	Qiagen	51105	DNA Extraction from Peripheral Blood for gDNA
Quant-iT dsDNA HS Assay Kit	Invitrogen	Q32854	Measure cfDNA concentration
Quant-iT dsDNA BR Assay Kit	Invitrogen	Q32853	Measure library concentration
Agilent DNA 1000 Reagents	Agilent	5067-1504	Measure cfDNA and library fragments
The NEBNext UltraII DNA Library Prep Kit for Illumina	NEB	E7645L	Library Preparation
Agencourt SPRIselect Reagent	Beckman	B23317	DNA fragment screening and purification
Tris-HCl (10 mM, pH 8.0)-100ML	Sigma	93283	Dissolution
xGen Lockdown Probes	IDT	—	xGen Custom Probe
Human Cot-1 DNA	Life	15279-011	Targeted DNA capture
Dynabeads M-270 Streptavidin	Life	65305	Targeted DNA capture
xGen Lockdown Reagents	IDT	1072281	Targeted DNA capture
KAPA HiFi HotStart ReadyMix	KAPA	KK2602	post-capture PCR enrichment libraries
KAPA Library Quantification Kit	KAPA	KK4602	Measure library concentration
NextSeq 500 High Output Kit v2((150 cycles)	illumina	FC-404-2002	Sequence
Centrifuge5810	eppendorf	5810	
Nanodrop8000	Thermo Scientific	8000	Measure gDNA concentration
Qubit 2.0	Invitrogen		Quantify
Agilent 2100 Bioanalyzer	Agilent		
ThermoMixer C	eppendorf		Incubation
16-tube DynaMagTM-2 Magnet	Life	12321D	
Concentrator plus	eppendorf		
PCR	AB	simplyamp	
QPCR	AB	7500Dx	
NextSeq 500	illumina		