

Materials List for:

Next Generation Sequencing for the Detection of Actionable Mutations in Solid and Liquid Tumors

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Materials

Name	Company	Catalog Number	Comments
Genomic DNA ScreenTape	Agilent Technology	5067-5365	
Genomic DNA Reagents	Agilent Technology	5067-5366	
High Sensitivity D1000 ScreenTape	Agilent Technology	5067-5584	
High Sensitivity D1000 Reagents	Agilent Technology	5067-5585	
TapeStation 2200	Agilent Technology	G2965A	
TapeStation Analysis Software	Agilent Technology	A.01.04 or higher	
96-well Tube Storage Racks	Any Vendor		
15/50 ml Tube Rack	Any Vendor		
96-well Plate Rack	Any Vendor		
Pipette, single-channel, 0.5–2.5 µl	Any Vendor		
Pipette, single-channel, 1–10 µl	Any Vendor		
Pipette, single-channel, 2–20 µl	Any Vendor		
Pipette, single-channel, 10–100 µl	Any Vendor		
Pipette, single-channel, 20–200 µl	Any Vendor		
Pipette, single-channel, 100–1,000 µl	Any Vendor		
Serological Pipettor	Any Vendor		
Vortexer	Any Vendor		
Ice bucket	Any Vendor		
Microcentrifuge (for tubes and strip tubes)	Any Vendor		
Freezer, -20 °C	Any Vendor		
4 °C Refrigerator	Any Vendor		
Water or Bead Bath	Any Vendor		
Incubator (37 °C)	Any Vendor		
Serological Pipettes, 1 ml	Any Vendor		
Serological Pipettes, 5 ml	Any Vendor		
Serological Pipettes, 10 ml	Any Vendor		
Serological Pipettes, 25 ml	Any Vendor		
Gloves	Any Vendor		
Razor Blades/Scaples	Any Vendor		
KimWipes	Any Vendor		

15 ml Conical Tube	Any Vendor		
50 ml Conical Tube	Any Vendor		
Paper Towels	Any Vendor		
200 proof Ethanol	Any Vendor		Store in Flammable Cabinet
2-Propanol (Isopropanol)	Any Vendor		Store in Flammable Cabinet
25 ml Reservoirs	Any Vendor		
10 N NaOH	Any Vendor		
Pipette, 8-channel, 1 – 10 µl	Any Vendor		
Pipette, 8-channel, 10 – 100 µl	Any Vendor		
Pipette, 8-channel, 20 – 300 µl	Any Vendor		
Ice Bucket	Any Vendor		
Water Squirt Bottle	Any Vendor		
Alcohol Squirt Bottle	Any Vendor		
Lens Cleaning Paper	Any Vendor		
Plates, 96-well PCR, Semi-Skirted	Any Vendor		
Tube strips, 8-well, 0.2 ml	Any Vendor		
Agencourt AMPure XP Beads	Beckman Coulter	A63881	
BioShake IQ or 3000-T elm	Bulldog Bio/Q.Instruments	1808-0506/ 1808-0517	
DropPlate96 S - LabChipDS	Caliper	128876	
DropPlate96 D - LabChipDS	Caliper	132848	
DropSense96	Caliper (Trinean)		
DropQuant Software	Caliper (Trinean)		
Plate Sealing Film	Denville	B1212-5S	
Aluminum Seal Foil	Denville	B1212-6S	
Nuclease-Free, Pure Water System	EMD Millipore		
5424 centrifuge	Eppendorf	22621408	
5804R centrifuge	Eppendorf	22623508	Both 15 ml tube and plate rotators, preferably a centrifuge that can go up to 2,500 x g.
Safe-Lock Tube 1.5 ml, Natural	Eppendorf	22431021	
5 ml Tube, DNA LoBind Tube	Eppendorf	30108310	
5430R Centrifuge	Eppendorf	022620645	Any plate rotator centrifuge will work
Hybex Microsample Incubator	Fisher Scientific	1057-30-0	
Hybex 0.2 ml Tube Block	Fisher Scientific	1057-31-0	
TruSeq Amplicon – Cancer Panel	Illumina	FC-130-1008	96 reactions
TruSeq Custom Amplicon	Illumina	PE-940-1011	96 reactions
TruSeq Custom Amplicon Index Kit	Illumina	FC-130-1003	96 Indices, 384 Samples
MiSeq Reagent Kit v3, 500 Cycles	Illumina	MS-102-3003	
MiSeq Reagent Kit v2, 300 Cycles	Illumina	MS-102-2002	
MiSeq Reagent Kit v2, 500 Cycles	Illumina	MS-102-2003	
Experiment Manager	Illumina	1.3 or higher	
MiSeq Reporter	Illumina	2.0 or higher	
Sequencing Analysis Viewer	Illumina	1.8 or higher	
TruSeq Index Plate Fixture and Collar Kit	Illumina	FC-130-1007	

MiSeq v2	Illumina	SY-410-1003	
TruSeq Custom Amplicon Filter Plate	Illumina	FC-130-1006	
Index Adapter Replacement Caps	Illumina	11294657	
Qubit 2.0	Invitrogen	Q32866	
Qubit 0.5 ml Tubes	Invitrogen	Q32856	
Qubit dsDNA Broad Range Assay Kit	Invitrogen	Q32853	
DynaMa6-96 Magnetic Stand, Side Skirted	Invitrogen	120.27	
GeneAmp PCR System 9700 (gold/silver block)	Life Technologies	N8050200	
Genra Puregene Blood Kit	Qiagen	158489	
Deparaffinization Solution (16 ml)	Qiagen	19093	
Buffer ATL (4 x 50ml)	Qiagen	939011	
Protein Precipitation Solution (50 ml)	Qiagen	158910	
DNA Hydration Solution (100 ml)	Qiagen	158914	
Glycogen Solution (500 µl)	Qiagen	158930	
Qiagen Proteinase K	Qiagen	19133	
Rnase (5 ml)	Qiagen	158924	
Nuclease-Free Water (10 x 50 ml)	Qiagen	129114	
Pestles	USA Scientific	1415-5390	
TipOne RPT 10 µl elongated filter pipet tips in sterilized racks, 10 racks of 96 tips (960 tips).	USA Scientific	1180-3810	
TipOne RPT 100 µl natural, beveled filter pipet tips in sterilized racks, 10 racks of 96 tips (960 tips)	USA Scientific	1180-1840	
TipOne RPT 200 µl natural, beveled filter pipet tips in racks, sterilized racks, 10 racks of 96 tips (960 tips)	USA Scientific	1180-8810	
TipOne RPT 20 µl natural, beveled filter pipet tips in racks, sterilized racks, 10 racks of 96 tips (960 tips)	USA Scientific	1180-1810	
TipOne RPT 1,000 µl natural, graduated XL filter pipet tips in	USA Scientific	1182-1830	