

Materials List for:

Unbiased Deep Sequencing of RNA Viruses from Clinical Samples

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URL: <https://www.jove.com/video/54117>

DOI: [doi:10.3791/54117](https://doi.org/10.3791/54117)

Materials

Name	Company	Catalog Number	Comments
96-well PCR Plates	VWR	47743-953	
Strips of Eight Caps	VWR	47745-512	
Nuclease-free water	Ambion	AM9937	50 ml bottle
TURBO DNase	Ambion	AM2238	post RNA extraction step, 2 U/μl, buffer included
PCR cyclers			any PCR cyclers
Agencourt RNAClean XP SPRI beads	Beckman Coulter Genomics	A63987	beads for RNA cleanup
Real Time qPCR system			any system
DynaMag-96 Side Skirted Magnet	Invitrogen	12027	
70% Ethanol			prepare fresh
qRT-PCR primers	IDT DNA		see Table 2
5 M NaCl	Ambion	AM9760G	
1 M Tris-HCl pH 7.4	Sigma	T2663-1L	
1 M Tris-HCl pH 7.5	Invitrogen	15567-027	
1 M MgCl ₂	Ambion	AM9530G	
Linear acrylamide	Ambion	AM9520	
DNA oligos covering entire rRNA region	IDT DNA		see Table 3 , order lab-ready at 100 μM
Oligo (dT)	IDT DNA		40 nt long, desalted
Hybridase Thermostable RNase H	Epicentre	H39100	
RNase-free DNase Kit	Qiagen	79254	post selective depletion step
SUPERase-In RNase Inhibitor	Ambion	AM2694	
Random Primers	Invitrogen	48190-011	mostly hexamers
10 mM dNTP mix	New England Biolabs	N0447L	
SuperScript III Reverse Transcriptase	Invitrogen	18080-093	with first-strand buffer, DTT
Air Incubator			any air incubator cyclers
NEBNext Second Strand Synthesis (dNTP-free) Reaction Buffer	New England Biolabs	B6117S	10x
<i>E. coli</i> DNA Ligase	New England Biolabs	M0205L	10 U/μl
<i>E. coli</i> DNA Polymerase I	New England Biolabs	M0209L	10 U/μl
<i>E. coli</i> RNase H	New England Biolabs	M0297L	2 U/μl
0.5 M EDTA	Ambion	AM9261	
Agencourt AMPure XP SPRI beads	Beckman Coulter Genomics	A63881	beads for DNA cleanup
Elution Buffer	Qiagen		10 mM Tris HCl, pH 8.5

Quant-iT dsDNA HS Assay Kit	Invitrogen	Q32854	
Qubit fluorometer	Invitrogen	Q32857	
Nextera XT DNA Sample Prep Kit	Illumina	FC-131-1096	
Nextera XT DNA Index Kit	Illumina	FC-131-1001	
Tapestation 2200	Agilent	G2965AA	
High Sensitivity D1000 reagents	Agilent	5067-5585	
High Sensitivity D1000 ScreenTape	Agilent	5067-5584	
BioAnalyzer 2100	Agilent	G2939AA	
High Sensitivity DNA reagents	Agilent	5067-4626	
Library Quantification Complete kit (Universal)	Kapa Biosystems	KK4824	alternative to tapestation, bioanalyzer for library quantification