

Materials List for:

A Blood-based Test for the Detection of ROS1 and RET Fusion Transcripts from Circulating Ribonucleic Acid Using Digital Polymerase Chain Reaction

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URL: <https://www.jove.com/video/57079>

DOI: [doi:10.3791/57079](https://doi.org/10.3791/57079)

Materials

Name	Company	Catalog Number	Comments
Ultrapure Distilled Water (DNase, RNase Free) (500 mL)	Life Technologies	10977-015	1604071
Ultrapure Distilled Water (DNase, RNase Free) (500 mL)	Life Technologies	10977-015	1809353
Nuclease-free water (molecular grade)	Ambion	AM9938	1604071
Nuclease-free water (molecular grade)	Ambion	AM9938	1606077
Phosphate Buffered Saline 1X, Sterile	Amresco	K812-500mL	1446C189
Phosphate Buffered Saline 1X, Sterile – 500 mL	Invitrogen	10010023	1916C092
RNase Zap (Life Tech) (250 mL)	Ambion	AM9780	353952
Beta-Mercaptoethanol (BME) (250 mL)	CalbioChem	6050	W105B
OmniPur Ethyl Alcohol	CalbioChem	4455-4L	56054611
OmniPur Ethyl Alcohol	CalbioChem	4455-4L	56238638
Isopropyl Alcohol	VWR	0918-4L	2116C416
TranscriptAid T7 High Yield Transcription Kit	Thermo Scientific	K0441	403648
TranscriptAid T7 High Yield Transcription Kit	Thermo Scientific	K0441	288461
DNase I	Thermo	K0441	371299
QIAzol Lysis Reagent	Qiagen	79306	54809699
20x TE buffer pH 8.0	Alfa Aesar	J62388	R13C548
UltraPure Agarose	Invitrogen	16500-100	552730
10x TBE buffer	Invitrogen	AM9863	353065
Cell-Free RNA BCT	Streck	218976	60110327
Cell-Free RNA BCT	Streck	218976	61900327
Cell-Free RNA BCT	Streck	218976	61480327
Cell-Free RNA BCT	Streck	218976	62320327
Plasma/Serum Circulating and Exosomal RNA Purification Kit (Slurry Format) 50 preps	Norgen	42800	585849
Plasma/Serum Circulating and Exosomal RNA Purification Kit (Slurry Format) 50 preps	Norgen	42800	588308
Lysis Buffer	Norgen	21205	A5F61E

RNA Cleanup and Concentration Micro-Elute Kit (Norgen) 50 preps	Norgen	61000	585848
RNA Cleanup and Concentration Micro-Elute Kit (Norgen) 50 preps	Norgen	61000	588309
DNA Clean and ConcentratorTM- 5 200 preps (samples)	Zymo	D4014	ZRC186976
DNA Clean and ConcentratorTM- 5 200 preps (samples)	Zymo	D4014	ZRC188077
DNA Clean and ConcentratorTM- 5 200 preps (samples)	Zymo	D4014	ZRC188413
Collection Tubes 500 pack	Zymo	C1001-500	N/A
SuperScript IV First Strand Synthesis System 200 rxn (samples)	Life Technologies	18091200	391657
SuperScript IV First Strand Synthesis System 200 rxn (samples)	Life Technologies	18091200	392504
SuperScript IV First Strand Synthesis System 200 rxn (samples)	Life Technologies	18091200	448001
SuperScript IV Reverse Transcriptase	Life Technologies	18090200	451702
Qubit HS RNA Assay Kit (500)	Life Technologies	Q32854	1745264
Qubit assay tubes (500)	Life Technologies	Q32856	13416Q311
ddPCR Supermix for Probes (no dUTP)	Bio-Rad	1863023	64031651
ddPCR Supermix for Probes (no dUTP)	Bio-Rad	1863023	64063941
ddPCR Supermix for Probes (no dUTP)	Bio-Rad	1863023	64065740
ddPCR Supermix for Probes (no dUTP)	Bio-Rad	1863023	64065741
ddPCR Supermix for Probes (no dUTP)	Bio-Rad	1863023	64079083
ddPCR Buffer Control for Probes	Bio-Rad	1863052	64025320
ddPCR Buffer Control for Probes	Bio-Rad	1863052	64052358
gBlock KIF5B-RET K15:R12	IDT	151004172	4-Oct-16
gBlock KIF5B-RET K16:R12	IDT	151004173	4-Oct-16
gBlock KIF5B-RET K22:R12	IDT	151004174	4-Oct-16
gBlock KIF5B-RET K23:R12	IDT	151004175	4-Oct-16
gBlock KIF5B-RET K24:R11	IDT	151004176	4-Oct-16
gBlock KIF5B-RET K24:R8	IDT	151004177	4-Oct-16
gBlock CCDC6-RET C1:R12	IDT	151004178	4-Oct-16
gBlock TRIM33-RET T14:R12	IDT	151004179	4-Oct-16
RET exon 8 RT Gene Specific Primer	IDT	150554385	28-Sep-16
5'-CTCCACTCACACCTG-3'	IDT	150554385	28-Sep-16
RET exon 11 RT Gene Specific Primer	IDT	150554384	28-Sep-16
5'-GCAAACCTGTGGTAGCAG-3'	IDT	150554384	28-Sep-16
RET exon 12 RT Gene Specific Primer	IDT	150554383	28-Sep-16

5'-CTGCCTTTCAGATGGAAG-3'	IDT	150554383	28-Sep-16
gBlock CD74-ROS1 C6:R34	IDT	152324366	15-Nov-16
gBlock CD74-ROS1 C6:R32	IDT	152324367	15-Nov-16
gBlock SDC4-ROS1 S2:R32	IDT	152324368	15-Nov-16
gBlock SDC4-ROS1 S2:R34	IDT	152324369	15-Nov-16
gBlock S13del2046-ROS1 S13del2046:R32	IDT	152324370	15-Nov-16
gBlock S13del2046-ROS1 S13del2046:R34	IDT	152324371	15-Nov-16
gBlock EZR-ROS1 E10:R34	IDT	152324372	15-Nov-16
gBlock TPM3-ROS1 T8:R35	IDT	152324373	15-Nov-16
ROS1 exon 34 RT Gene Specific Primer	IDT	152704983	21-Nov-16
5'-CCTTCCTTGGCACTTT-3'	IDT	152704983	21-Nov-16
ROS1 exon 35 RT Gene Specific Primer	IDT	152704985	21-Nov-16
5'- CTCTTGGGTTGGAAGAGTATG-3'	IDT	152704985	21-Nov-16
ALK Gene Specific Primer	IDT	140035422	26-Aug-16
5'- CAGTAGTTGGGGTTGTAGTCG-3'	IDT	140035422	26-Aug-16
EML4-ALK Cell line pellet	Horizon Discovery	N/A	11-Jun-15
SLC34A2-ROS1 Cell line pellet	Horizon Discovery	N/A	11-Jun-15
CCDC6-RET Cell line pellet	Horizon Discovery	N/A	11-Jun-15
Human Brain Total RNA	Ambion	AM7962	1703548
PrimePCR ddPCR Expert Design Assay: K15:R12	Bio-Rad	N/A	17-Aug-16
PrimePCR ddPCR Expert Design Assay: K16:R12	Bio-Rad	N/A	17-Aug-16
PrimePCR ddPCR Expert Design Assay: K22:R12	Bio-Rad	N/A	17-Aug-16
PrimePCR ddPCR Expert Design Assay: K23:R12	Bio-Rad	N/A	17-Aug-16
PrimePCR ddPCR Expert Design Assay: K24:R11	Bio-Rad	N/A	17-Aug-16
PrimePCR ddPCR Expert Design Assay: K24:R8	Bio-Rad	N/A	17-Aug-16
PrimePCR ddPCR Expert Design Assay: C1:R12	Bio-Rad	N/A	17-Aug-16
PrimePCR ddPCR Expert Design Assay: T14:R12	Bio-Rad	N/A	17-Aug-16
PrimePCR ddPCR Expert Design Assay: C6:R34	Bio-Rad /Biodesix	N/A	6-Dec-16
PrimePCR ddPCR Expert Design Assay: C6:R32	Bio-Rad /Biodesix	N/A	6-Dec-16
PrimePCR ddPCR Expert Design Assay: S2:R32	Bio-Rad /Biodesix	N/A	6-Dec-16
PrimePCR ddPCR Expert Design Assay: S2:R34	Bio-Rad /Biodesix	N/A	6-Dec-16
PrimePCR ddPCR Expert Design Assay: S13del2046:R32	Bio-Rad /Biodesix	N/A	6-Dec-16

PrimePCR ddPCR Expert Design Assay: S13del2046:R34	Bio-Rad /Biodesix	N/A	6-Dec-16
PrimePCR ddPCR Expert Design Assay: E10:R34	Bio-Rad /Biodesix	N/A	6-Dec-16
PrimePCR ddPCR Expert Design Assay: T8:R35	Bio-Rad /Biodesix	N/A	6-Dec-16
(version 2)	Bio-Rad	12003909	213939881
PrimePCR ddPCR Expert Design Assay: ROS1 Multiplex (version 3.2)	Bio-Rad	N/A	13-Dec-16
PrimePCR ddPCR Expert Design Assay: ROS1 Multiplex (version 3.2)	Bio-Rad	N/A	20170112v3.2
PrimePCR ddPCR Gene Expression Probe Assay: GUSB, Human	Bio-Rad	10031257	212851151
PrimePCR ddPCR Gene Expression Probe Assay: GUSB, Human	Bio-Rad	10031257	207383915
PrimePCR ddPCR Gene Expression Probe Assay: GUSB, Human	Bio-Rad	10031257	195995635
PrimePCR ddPCR Gene Expression Probe Assay: GUSB, Human	Bio-Rad	10031257	212851152
PrimePCR ddPCR Gene Expression Probe Assay: GUSB, Human	Bio-Rad	10031257	213949301
PrimePCR ddPCR Expert Design Assay: EML4-ALK	Bio-Rad	12003909	20160914
PrimePCR ddPCR Expert Design Assay: EML4-ALK	Bio-Rad	12003909	211383227
Droplet Generation Oil for Probes	Bio-Rad	186-3005	1065C220
Droplet Generation Oil for Probes	Bio-Rad	186-3005	64052953
Droplet Generation Oil for Probes	Bio-Rad	186-3005	64052358
Automated Droplet Generation Oil for Probes (20x96)	Bio-Rad	186-4110	1065C320
Automated Droplet Generation Oil for Probes (20x96)	Bio-Rad	186-4110	64052952
Automated Droplet Generation Oil for Probes (20x96)	Bio-Rad	186-4110	64064127
DG8 Cartridges for QX100/QX200 Droplet Generator	Bio-Rad	186-4008	C000065883
DG8 Cartridges for QX100/QX200 Droplet Generator	Bio-Rad	186-4008	C000084276
DG8 Cartridges for QX100/QX200 Droplet Generator	Bio-Rad	186-4008	C000079928
DG8 Cartridges for QX100/QX200 Droplet Generator	Bio-Rad	186-4008	C000084395
DG8 Cartridges for QX100/QX200 Droplet Generator	Bio-Rad	186-4008	C000084634
Droplet Generator DG8 Gasket	Bio-Rad	186-3009	20160627
Droplet Generator DG8 Gasket	Bio-Rad	186-3009	20161107
Droplet Generator DG8 Gasket	Bio-Rad	186-3009	20161206
Droplet Generator DG8 Gasket	Bio-Rad	186-3009	20161216

Droplet Generator DG8 Gasket	Bio-Rad	186-3009	20170125
Pipet Tips for Automated Droplet Generator	Bio-Rad	1864120	PR125340
DG32 Cartridge for Automated Droplet Generator (10-96 well plates)	Bio-Rad	186-4108	206894
DG32 Cartridge for Automated Droplet Generator (10-96 well plates)	Bio-Rad	186-4108	206893
Pierceable Foil Heat Seal	Bio-Rad	1814040	1409850
Pierceable Foil Heat Seal	Bio-Rad	1814040	100402
Pierceable Foil Heat Seal	Bio-Rad	1814040	145851
Microseal 'B' seals	Bio-Rad	MSB1001	BR00428490
ddPCR Droplet Reader Oil	Bio-Rad	186-3004	64039089
ddPCR Droplet Reader Oil	Bio-Rad	186-3004	64049253
ddPCR Droplet Reader Oil	Bio-Rad	186-3004	64049255
ddPCR Droplet Reader Oil	Bio-Rad	186-3004	64081870
DNA Lo Bind Tube 0.5 mL	Eppendorf	22431005	E1629620
DNA Lo Bind Tube 1.5 mL	Eppendorf	22431021	F16698K
DNA Lo Bind Tube 2 mL	Eppendorf	22431048	E160610I
50 mL Conicals, Polypropylene (25)	Thermo	339652	G5ZF5W8118
TempAssure PCR 8-Strips, Optical Caps, Natural, polypropylene (120)	USA Scientific	1402-4700	16202
For Rainin LTS Pipettors 0.5-20 μ L tips	Pipette.com	LF-20	40155-642C4-642C
For Rainin LTS Pipettors 5-200 μ L tips	Pipette.com	LF-250	40154-642C4-642B
Tips LTS 200 ul Filter 960/10 RT-L200F (10 boxes)	Rainin	17002927	1635
Pipet Tips, 10 ul TipOne RPT ultra low retention filter tip refill cassette, sterile	USA Scientific	1181-3710	F1175551-1108
Pipet Tips, 10 ul TipOne RPT ultra low retention filter tip refill cassette, sterile	USA Scientific	1181-3710	F118054L-1720
Pipet Tips, 100 ul TipOne RPT ultra low retention filter tip refill cassette, sterile (10x96)	USA Scientific	1180-1740	0014961Q-2501
Pipet Tips, 200 ul TipOne RPT ultra low retention filter tip refill cassette, sterile	USA Scientific	1180-8710	E116684P-1540
Pipet Tips, 1000 ul XL TipOne RPT ultra low retention filter tip refill cassette, sterile (10x96)	USA Scientific	1182-1730	F118815P
5 mL Standard Racked Gilson-fit Reference Tips	Scientific Specialties	4411-00	14312
Combitips advanced, 0.1 mL Biopur	Eppendorf	003 008 9618	F165414H
Combitips advanced, 0.2 mL Biopur	Eppendorf	0030 089.626	F166689J
Combitips advanced, 5 mL Biopur	Eppendorf	0030.089 669	F166054J
Combitips advanced, 50 mL Biopur	Eppendorf	003.008.9693	F166055I

Reagent Reservoir	VWR	89094-680	141500
Twin tec PCR Plate 96, semi-skirted, Clear	Eppendorf	951020303	E163697P
Twin tec PCR Plate 96, semi-skirted, Clear	Eppendorf	951020303	F165029I
Twin tec PCR Plate 96, semi-skirted, Clear	Eppendorf	951020303	F165028G
Twin tec PCR Plate 96, semi-skirted, Clear	Eppendorf	951020303	E163697P
Twin tec PCR Plate 96, semi-skirted, Green	Eppendorf	951020346	F166183K
Equipment Type		Equipment ID	
Analytical Balance		EQP0125	
Cryogenic Freezer 1, -80°C		EQP0095	
Refrigerator 6.1 cu ft GP06W1AREF		EQP0139	
-20°C Freezer		EQP0140	
Beckman Coulter Microfuge 22R		EQP0025	
Beckman Coulter Microfuge 22R		EQP0124	
Thermo Scientific Hereaus Megafuge 8		EQP0104	
Mini Centrifuge		EQP0131	
Mini Centrifuge		EQP0136	
Mini Centrifuge		EQP0134	
Mini Centrifuge		EQP0235	
Mini Centrifuge		EQP0216	
Thermo Scientific HeraTherm Incubator		EQP0105	
Pipette 0.1 - 2.5 µL		EQP0182	
Pipette 0.1 - 2.5 µL		EQP0072	
Pipette 0.1 - 2.5 µL		EQP0070	
Pipette 0.5-10 µL		EQP0218	
Pipette 0.5-10 µL		EQP0075	
Pipette 0.5-10 µL		EQP0169	
Pipette 0.5-10 µL		EQP0074	
Pipette 0.5-10 µL		EQP0147	
Pipette 2 - 20 µL		EQP0128	
Pipette 2 - 20 µL		EQP0160	
Pipette 2 - 20 µL		EQP0018	
Pipette 2 - 20 µL		EQP0146	
Pipette 10 - 100 µL		EQP0079	
Pipette 10 - 100 µL		EQP0181	
Pipette 10 - 100 µL		EQP0085	
Pipette 10 - 100 µL		EQP0077	
Pipette 20 - 200 µL		EQP0088	
Pipette 20 - 200 µL		EQP0087	
Pipette 20 - 200 µL		EQP0231	
Pipette 100 - 1000 µL		EQP0050	

Pipette 100 - 1000 µL		EQP0158	
Pipette 100 - 1000 µL		EQP0217	
Pipette 100 - 1000 µL		EQP0082	
Pipette 100 - 1000 µL		EQP0183	
Pipette 100 - 1000 µL		EQP0083	
Pipette 5 mL		EQP0153	
Timer		S/N 140623950	
Hamilton SafeAire VAV Fume Hood		EQP0206	
Biosafety Cabinet		EQP0205	
Biosafety Cabinet		EQP0204	
Qubit 3.0		EQP0102	
Benchmark Digital Heat Block		EQP0108	
Benchmark Digital Heat Block		EQP0231	
Polaroid Z2300 Instant Print Digital Gel Camera with WiFi and 16GB SDHC memory card		EQP0111	
Electrophoresis Power Unit		EQP0113	
Electrophoresis Small Gel Box		EQP0116	
Maestro Transilluminator		EQP0118	
Microwave		EQP0215	
Multichannel 8-well Pipette 2 - 20 µL		EQP0207	
Multichannel 8-well Pipette 10 - 100 µL		EQP0090	
Rainin Multichannel 8-well Pipette 50 µL		EQP0094	
Rainin Multichannel 8-well Pipette 50 µL		EQP0161	
Rainin Multichannel 8-well Pipette 50 µL		EQP0162	
Rainin Multichannel 8-well Pipette 50 µL		EQP0163	
Vortex Genie 2		EQP0052	
Vortex Genie 2		EQP0007	
Vortex Genie 2		EQP0132	
Vortex Genie 2		EQP0137	
Vortex Genie 2		EQP0135	
Air Clean PCR Workstation		EQP0203	
Air Clean PCR Workstation		EQP0096	
Air Clean PCR Workstation		EQP0148	
Air Clean PCR Workstation		EQP0097	
QX200 Droplet Generator		EQP0202	
QX200 Droplet Generator		EQP0121	
Automated Droplet Generator		EQP0179	
PX1 PCR Plate Sealer		EQP0123	
PX1 PCR Plate Sealer		EQP0186	
C1000 Touch Cycler w/96W FS RM		EQP0120	

S1000 Cycler w/96W FS RM		EQP0174	
S1000 Cycler w/96W FS RM		EQP0173	
T100 Thermal Cycler		EQP0180	
T100 Thermal Cycler		EQP0175	
QX200 Droplet Reader		EQP0194	
QX200 Droplet Reader		EQP0122	