

Materials List for:

High-throughput Quantitative Real-time RT-PCR Assay for Determining Expression Profiles of Types I and III Interferon Subtypes

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Materials

Name	Company	Catalog Number	Comments
0.2 ml PCR Tube Strips	Eppendorf (Westbury, NY, USA)	E0030 124 286	
12-channel 384 Equalizer Electronic Pipette, 0.5-12.5 ul	Thermo-Fisher Scientific (Waltham, MA, USA)	14-387-139	*Discontinued
12-channel 384 Equalizer Electronic Pipette, 1-30 ul	Thermo-Fisher Scientific (Waltham, MA, USA)	14-387-137	*Discontinued
12-channel Electronic Pipette, 5-250 ul	Thermo-Fisher Scientific (Waltham, MA, USA)	14-387-118	*Discontinued
2.0 ml Micro Centrifuge tube, sterile	Celltreat Scientific Products (Shirley, MA, USA)	229446	
8-channel Electronic Pipette, 15-1250 ul	Thermo-Fisher Scientific (Waltham, MA, USA)	14-387-115	*Discontinued
Disposable Reagent Reservoirs	VWR International (Radnor, PA, USA)	89094-668	25mL reservoirs with 2 dividers
E-Centrifuge	Wealtec Corp. (Sparks, NV, USA)	1090003	
Eukaryotic 18S rRNA (18S)	Applied Biosystems (Foster City, CA, USA)	Hs99999901_s1	Rhesus HKG Primer/probe set
Fixed Speed Mini Vortexer	Thermo-Fisher Scientific (Waltham, MA, USA)	02-215-360	
Gas Permeable Adhesive Plate Seal	Thermo-Fisher Scientific (Waltham, MA, USA)	AB-0580	Disposable plate seal used during the plate preparation process
Glyceraldehyde-3-phosphate dehydrogenase (GAPDH)	FBR (Silver Spring, MD, USA)	Custom Order	Human HKG Primer/probe set
Glyceraldehyde-3-phosphate dehydrogenase (GAPDH)	Applied Biosystems (Foster City, CA, USA)	Rh02621745_g1	Rhesus HKG Primer/probe set
Hudson Solo automated multichannel pipettor	Hudson Robotics (Springfield, NJ, USA)	800200	Modified with a 384-well cooling nest
Linearized plasmids (IFN genes)	Aldevron (Fargo, ND, USA)	Custom Order	Item 3000, 3580; used for assay standards
LNA inhibitors	Exiqon (Woburn, MA, USA)	Custom Order	Item 500100
LNA Probes	Sigma-Proligo (St. Louis, MO, USA)	Custom Order	Material number VC00023
Matrix Filtered Pipet Tips, 12.5 ul	Thermo-Fisher Scientific (Waltham, MA, USA)	14-387-193	
Matrix Filtered Pipet Tips, 30 ul	Thermo-Fisher Scientific (Waltham, MA, USA)	14-387-196	
Matrix TallTip Extended Length Pipet Tips, 1,250 ul	Thermo-Fisher Scientific (Waltham, MA, USA)	14-387-160	

Matrix TallTip Extended Length Pipet Tips, 250 ul	Thermo-Fisher Scientific (Waltham, MA, USA)	14-387-152	
MicroAmp Optical 384-Well Reaction Plate with Barcode	Applied Biosystems (Foster City, CA, USA)	4309849	
MicroAmp Optical 96-Well Reaction Plate	Applied Biosystems (Foster City, CA, USA)	N8010560	
MicroAmp Optical Adhesive Film	Applied Biosystems (Foster City, CA, USA)	4311971	Adhesive film used for sealing the plate prior to the qRT-PCR run
Microsoft Excel 2010 Spreadsheet	Microsoft (Redmond, WA, USA)	Office 2010	Visual Basic programming language
MixMate Vortex Mixer	Eppendorf (Westbury, NY, USA)	5353 000.014	2 dimensional plate vortex apparatus
Molecular Beacon Probes	FBR (Silver Spring, MD, USA)	Custom Order	
PCR Cooler, iceless cold storage system for 96 well plates and PCR tubes	Eppendorf (Westbury, NY, USA)	Z606634-1EA	
Plate Dryer (manifold)	Mechanical and Electrical Design Fabrications, NIH Office of Research Services (Bethesda, MD, USA)	Custom Order	
Primer sets	FBR (Silver Spring, MD, USA)	Custom Order	
pUC57 plasmid DNA	Genescript (Piscataway, NJ, USA)	SD1176	
Rnase-Free 1.5 ml Microfuge Tubes	Life Technologies (Grand Island, NY, USA)	AM12400	
RNase-free DNase Set (50)	Qiagen (Valencia, CA, USA)	79254	
RNase H	New England Biolabs (Ipswich, MA, USA)	M0297L	
RNeasy Mini Kit (250)	Qiagen (Valencia, CA, USA)	74106	
Robot Tips (clear tip pre-sterilized pipet tips)	Hudson Robotics (Springfield, NJ, USA)	800350-S	
Salmon Sperm DNA Solution	Invitrogen (Carlsbad, CA, USA)	15632-011	
SoftLinX Version V	Hudson Robotics (Springfield, NJ, USA)	Custom Order	Software for programming pipetting steps
TaqMan Fast Universal PCR Master Mix (2x), no AmpErase UNG	Life Technologies (Grand Island, NY, USA)	4352042	
ABgene Adhesive Plate Seals	Thermo-Fisher Scientific (Waltham, MA, USA)	AB0580	
Ubiquitin C (UBC)	Applied Biosystems (Foster City, CA, USA)	Hs01871556_s1	Human HKG Primer/probe set
Verso cDNA synthesis Kit	Thermo-Fisher Scientific (Waltham, MA, USA)	AB1453B	
ViiA 7 Real-Time PCR System	Applied Biosystems (Foster City, CA, USA)	4453536	
Water-Ultra Pure	Quality Biological, INC. (Gaithersburg, MD, USA)	351-029-101	
Zipvap 384 (plate dryer heating element)	Glas-Col LLC (Terre Haute, IN, USA)	384-109A	Plate Dryer