

Materials List for:

Sequencing of mRNA from Whole Blood using Nanopore Sequencing

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Materials

Name	Company	Catalog Number	Comments
1D2 adapter, barcode adapter mix, ABB buffer, elution buffer, RBF buffer, LBB beads	Oxford Nanopore Technologies	SQK-LSK308	1D ² Sequencing Kit
Blood collection tube with DNA/RNA stabilizing reagent	Zymo Research	R1150	DNA/RNA Shield - Blood Collection Tube
Blunt/TA ligase master mix	New England Biolabs	M0367S	Blunt/TA Ligase Master Mix
DNA-low binding reaction tube	Eppendorf	30108051	DNA LoBind Tube
DNase buffer and DNase	ThermoFisher Scientific	11766050	SuperScript™ IV VILO™ Master Mix with ezDNase™ Enzyme
Flow cell	Oxford Nanopore Technologies	FLO-MIN105.24	flow cell R9.4
Hot start high fidelity DNA polymerase	New England Biolabs	M0493L	Q5 Hot Start High-Fidelity DNA Polymerase (500 U)
Magnetic beads	Beckman Coulter	A63881	Agencourt AMPure XP beads
Magnetic rack	ThermoFisher Scientific	12321D	DynaMag-2 Magnet
Nanopore sequencing device	Oxford Nanopore Technologies	-	MinION Mk 1B
PCR barcoding kit	Oxford Nanopore Technologies	EXP-PBC001	PCR Barcoding Kit I (R9)
Reverse transcriptase master mix	ThermoFisher Scientific	11766050	SuperScript™ IV VILO™ Master Mix with ezDNase™ Enzyme
RNA purification spin column, DNA/RNA prep buffer, DNA/RNA wash buffer, DNase I, DNA digestion buffer	Zymo Research	R1151	Quick-DNA/RNA Blood Tube Kit
Rotating mixer	ThermoFisher Scientific	15920D	HulaMixer Sample Mixer
Taq DNA polymerase	New England Biolabs	M0287S	LongAmp Taq 2x Master Mix
Ultra II End-prep kit	New England Biolabs	E7546S	NEBNext Ultra II End-Repair/dA-tailing Modul
UV spectrophotometer	Implen	-	NanoPhotometer
Vacuum manifold	Zymo Research	S7000	EZ-Vac Vacuum Manifold