

Materials List for:

Characterizing Mutational Load and Clonal Composition of Human Blood

Axel Rosendahl Huber¹, Freek Manders¹, Rurika Oka¹, Ruben van Boxtel¹

¹Princess Máxima Center for Pediatric Oncology

Correspondence to: Ruben van Boxtel at R.vanBoxtel@prinsesmaximacentrum.nl

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Materials

| Name | Company | Catalog Number | Comments |
|---|------------------------|----------------|---|
| 0.20 µm syringe filter | Corning | 431219 | |
| 50 mL Syringe, Luer lock | BD | 613-3925 | |
| Bovine Serum Albumin (BSA) | Sigma-Aldrich | A9647-50G | |
| CD11c FITC | BioLegend | 301603 | Clone 3.9 |
| CD16 FITC | BioLegend | 302005 | Clone 3G8 |
| CD3 BV650 | Biolegend | 300467 | Clone UCHT1 |
| CD34 BV421 | BioLegend | 343609 | 561 |
| CD38 PE | BioLegend | 303505 | Clone HIT2 |
| CD45RA PerCP/Cy5.5 | BioLegend | 304121 | Clone HI100 |
| CD49f PE/Cy7 | BioLegend | 313621 | Clone GoH3 |
| CD90 APC | BioLegend | 328113 | Clone 5E10 |
| Cell Strainer 5 mL tube | Corning | 352235 | |
| CELLSTAR plate, 384w, 130 µL, F-bottom, TC, cover | Greiner | 781182 | |
| Cryogenic vial | Corning | 430487 | |
| Dimethyl sulfoxide (DMSO) | Sigma-Aldrich | D2650 | |
| DMEM/F12 | ThermoFisher | 61965059 | |
| EDTA | Sigma-Aldrich | E4884-500G | |
| Fetal Bovine Serum | ThermoFisher | 10500 | |
| GlutaMAX | ThermoFisher | 25030081 | |
| Human Flt3-Ligand, premium grade | Miltenyi Biotech | 130-096-479 | Reconstitute in single-use aliquots (25 µL) at 100 µg/mL in 0.1% BSA in PBS |
| Human Recombinant IL-3 (E. coli-expressed) | Stem Cell Technologies | 78040.1 | Reconstitute in single-use aliquots (2.5 µL) at 100 µg/mL in 0.1% BSA in PBS |
| Human Recombinant IL-6 (E. coli-expressed) | Stem Cell Technologies | 78050.1 | Reconstitute in single-use aliquots (5 µL) at 100 µg/mL in 0.1% BSA in PBS |
| Human SCF, premium grade | Miltenyi Biotech | 130-096-695 | Reconstitute in single-use aliquots (25 µL) at 100 µg/mL in 0.1% BSA in PBS |
| Human TPO, premium grade | Miltenyi Biotech | 130-095-752 | Reconstitute in single-use aliquots (12.5 µL) at 100 µg/mL in 0.1% BSA in PBS |
| Integrative Genomics Viewer 2.4 | Broad Institute | | https://software.broadinstitute.org/software/igv/download |
| Iscove's Modified Eagle's Medium | ThermoFisher | 12440061 | |

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|--------------------------------|------------------------|----------|--|
| Lineage (CD3/14/19/20/56) FITC | BioLegend | 348701 | Clones: UCHT1, HCD14, HIB19, 2H7, HCD56 |
| Lymphoprep | Stem Cell Technologies | #07861 | Used for Density gradient separation |
| PBS | | | Made in at Institute's facility. Commerically available PBS can also be used |
| Penicillin-Streptomycin | ThermoFisher | 15140122 | |
| Primocin | Invivogen | ant-pm-1 | Antibiotic formulation |
| QIAamp DNA Micro Kit | Qiagen | 56304 | |
| Qubit 2.0 fluorometer | ThermoFisher | Q32866 | |
| Qubit dsDNA HS Assay Kit | ThermoFisher | Q32854 | |
| RNAse A | Qiagen | 19101 | |
| SH800S Cell Sorter | Sony | SH800S | |
| StemSpan SFEM, 500 mL | Stem Cell Technologies | 9650 | |
| TE BUFFER PH 8.0, LOW EDTA | G-Biosciences | 786-151 | |
| TrypLE Express | ThermoFisher | 12605-10 | |