

Materials List for:

Microbiota Analysis Using Two-Step PCR and Next-Generation 16S rRNA Gene Sequencing

Shailesh K. Shahi¹, Kasra Zarei², Natalya V. Guseva¹, Ashutosh K. Mangalam^{1,2,3,4}

¹Department of Pathology, University of Iowa

²Medical Scientist Training Program, University of Iowa

³Graduate Program in Immunology, University of Iowa

⁴Graduate Program in Molecular Cell Biology, University of Iowa

Correspondence to: Ashutosh K. Mangalam at ashutosh-mangalam@uiowa.edu

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Materials

Name	Company	Catalog Number	Comments
1.5 ml Natural Microcentrifuge Tube	USA, Scientific	1615-5500	Fecal collection
3M hand applicator squeegee PA1-G	3M, MN, US	7100038651	Squeegee for proper sealing of PCR Plate
Agencourt AMPure XP	Beckman Coulter, IN, USA	A63880	PCR Purification, NGS Clean-up, PCR clean-up
Agilent DNA 1000 REAGENT	Agilent Technologies, CA, USA	5067-1504	DNA quantification and quality control
Bioanalyzer DNA 1000 chip	Agilent Technologies, CA, USA	5067-1504	DNA quantification and quality control
Index Adopter Replacement Caps	Illumina, Inc., CA, USA	15026762	New cap for Index 1 and 2 adopter primer
DNeasy PowerLyzer PowerSoil Kit	MoBio now part of QIAGEN, Valencia, CA, USA	12855-100	DNA isolation
KAPA HiFi HotStart ReadyMix (2X)	Kapa Biosystem, MA, USA	KK2602	PCR ready mix for Amplicon PCR1 and Indexed PCR2
Lewis Divider Boxes	Lewis Bins, WI, US	ND03080	Fecal collection
Magnetic stand	New England Biolabs, MA, USA	S1509S	For PCR clean-up
MicroAmp Fast Optical 96-Well Reaction Plate	Applied Biosystems, Thermo Fisher Scientific, CA, USA	4346906	PCR Plate
MicroAmp Optical Adhesive Film	Applied Biosystems, Thermo Fisher Scientific, CA, USA	4311971	PCR Plate Sealer
Microfuge 20 Centrifuge	Beckman Coulter, IN, USA	B30154	Centrifuge used for DNA isolation
MiSeq Reagent Kit (600 cycles)v.3	Illumina, Inc., CA, USA	MS-102-3003	For MiSeq Sequencing
Nextera XT DNA Library Preparation Kit	Illumina, Inc., CA, USA	FC-131-1001	16S rRNA DNA Library Preparation
Reagent Reservoirs Multichannel Trays	ASI, FL, USA	RS71-1	For Pooling of PCR2 Product
Plate Cetrifuge	Thermo Fisher Scientific, CA, USA	75004393	For PCR reagent mixing and removing air bubble from Plate
PhiX Control	Illumina, Inc., CA, USA	FC-110-3001	For MiSeq Sequencing control
Microbiome DNA Purification Kit	Thermo Fisher Scientific, CA, USA	A29789	For purification of PCR1 product
PowerLyzer 24 Homogenizer	Omni International, GA, USA	19-001	Bead beater for DNA Isolation
Qubit dsDNA HS (High Sensitivity) assay kit	Thermo Fisher Scientific, CA, USA	Q32854	DNA quantification
TruSeq Index Plate Fixture	Illumina, Inc., CA, USA	FC-130-1005	For Arranging of the index primers

Vertical Dividers (large)	Lewis Bins, WI, US	DV-2280	Fecal collection
Vertical Dividers (small)	Lewis Bins, WI, US	DV-1780	Fecal collection