

Materials List for:

# VDJ-Seq: Deep Sequencing Analysis of Rearranged Immunoglobulin Heavy Chain Gene to Reveal Clonal Evolution Patterns of B Cell Lymphoma

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URL: <https://www.jove.com/video/53215>

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## Materials

Name	Company	Catalog Number	Comments
Ethanol	VWR	89125-170	200 proof, for molecular biology
TE buffer	Life Technologies	12090-015	10 mM Tris·Cl, pH 8.0; 10 mM EDTA
Xylenes	VWR	EM-XX0055-6	500 ml
Proteinase K	Life Technonogies	25530-015	100 mg
Deoxynucleotide triphosphate (dNTP) Solution Mix	Promega	U1515	10 mM each nucleotide
10x PCR Buffer	Roche	11699105001	Without MgCl <sub>2</sub>
AmpliQaq Gold DNA Polymerase with Gold Buffer and MgCl <sub>2</sub>	Life Technonogies	4311806	50 µl at 5 U/µl
Specimen Control Size Ladder	Invivoscribe Technologies	2-096-0020	33 reactions
IGH Somatic Hypermutation Assay v2.0 - Gel Detection	Invivoscribe Technologies	5-101-0030	33 reactions, Mix 2 for IGVHFR1 detection
IGH Gene Clonality Assay - Gel Detection	Invivoscribe Technologies	1-101-0020	33 reactions, Tube B for IGVHFR2 detection
GoTaq Flexi DNA Polymerase	Promega	M8291	20 µl at 5 U/µl
10X Tris-Borate-EDTA (TBE) buffer	Corning (cellgro)	46-011-CM	6x1 L
50x TAE BUFFER	VWR	101414-298	1 L
Ethidium bromide solution	Sigma-Aldrich	E1510	10 mg/ml
25 bp DNA Ladder	Life Technologies	10597011	1 µg/µl
100 bp DNA Ladder	Life Technologies	15628-019	1 µg/µl
UltraPure Agarose	Life Technologies	16500-500	500 g
40% Acrylamide/Bis Solution	Bio-Rad Laboratories	1610144	500 ml
QIAquick Gel Extraction Kit	Qiagen	28704	50 columns
Agencourt AMPure XP	Beckman Coulter	A63881	
Qubit dsDNA High Sensitivity Assay Kit	Life Technologies	Q32854	
High Sensitivity DNA Kit	Agilent Technologies	5067-4626	
2100 Bioanalyzer	Agilent Technologies		
PhiX Control v3	Illumina	FC-110-3001	
MiSeq	Illumina		
Qubit 2.0 Fluorometer	Life Technologies	Q32872	

Resuspension buffer (Illumina TruSeq DNA Sample Preparation Kit v2)	Illumina	FC-121-2001	
End repair mix (Illumina TruSeq DNA Sample Preparation Kit v2)	Illumina	FC-121-2001	
A-tailing mix (Illumina TruSeq DNA Sample Preparation Kit v2)	Illumina	FC-121-2001	
Ligation mix (Illumina TruSeq DNA Sample Preparation Kit v2)	Illumina	FC-121-2001	
DNA adaptor index (Illumina TruSeq DNA Sample Preparation Kit v2)	Illumina	FC-121-2001	
Stop ligation buffer (Illumina TruSeq DNA Sample Preparation Kit v2)	Illumina	FC-121-2001	
PCR primer cocktail (Illumina TruSeq DNA Sample Preparation Kit v2)	Illumina	FC-121-2001	
PCR master mix (Illumina TruSeq DNA Sample Preparation Kit v2)	Illumina	FC-121-2001	
Magnetic stand	Life Technologies	4457858	
Gel imaging system	Bio-Rad Laboratories	170-8370	