

Supplementary Material

1 SUPPLEMENTARY TABLES

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2 SUPPLEMENTARY FIGURES

- Supplementary Figure S1: Library prep and sequencing strategy
 - Supplementary Figure S2: IGHV3-30 and IGHV3-30-3 alleles
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cDNA synthesis	
hIGG_r1	G AAGTAGTCCTTGACCAAGGCA
hIGM_r1	GTGATGGAGTCGGGAAGGAAG
SMARTNNNext_12ntUMI	AAGCAGUGGTAUCAACGCAGAGTGCUNNNNNNUNNNUNNNNUCTTrGrGrG
SMARTNNNext_11ntUMI	AAGCAGUGGTAUCAACGCAGAGTGCUNNNNNNUNNNUNNNNUCTTrGrGrG
SMARTNNNext_10ntUMI	AAGCAGUGGTAUCAACGCAGAGUGCNUNNNUNNNUNNNNUCTTrGrGrG
PCR 1	
M1SS_ext	GGCGAAGCAGTGGTATCAACGCAGAGTGC
hIGGE_r2	ATTGGGCAGCCCTGATTARGGGGAAGACSGATG
hIGM_r2	ATTGGGCAGCCCTGATTAGGGGGAAGAAGGGTTG
PCR2	
P7+M1SS	CAAGCAGAAGACGGCATACGAGATNNNNNGGCGAAGCAGTGGTATCAACGCAGAGT
P5+Z	AATGATACGGCGACCACCGAGATCTACACNNNNNAATTGGGCAGCCCTGATT
Sequencing primers	
hIGG_read1ext	ATTGGGCAGCCCTGATTARGGGGAAGACSGATG
hIGM_read1ext	ATTGGGCAGCCCTGATTAGGGGGAAGAAGGGTTG
hBCR_read_2ext	GGCGAAGCAGTGGTATCAACGCAGAGTGC
hBCR_Index_1ext	GCAC'TCTGCC'GTGATACCACTGCTTCGCC

Table S2. cDNA Synthesis Mix

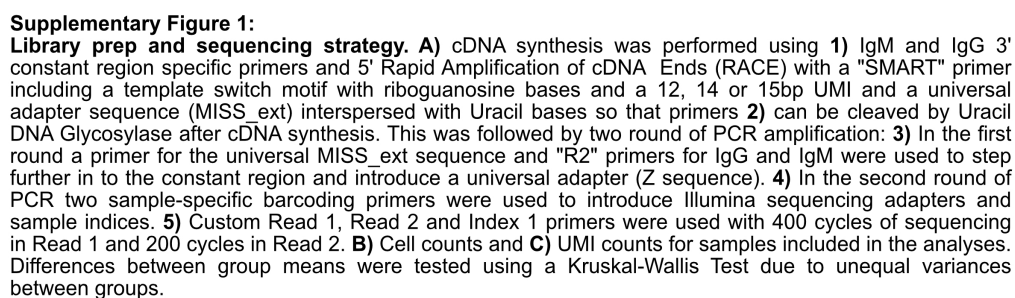
Component	Supplier / catalogue nr	Volume per reaction
First strand buffer	Takara (#639538)	4 μ l
DTT	Takara (#639538)	1 μ l
SMARTNNNext (12uM)	IDT	2 μ l
dNTP (10mM)	ThermoFisher Scientific (#R0192)	2 μ l
SMARTscribe RTase	Takara (#639538)	2 μ l
RNAse inhibitor	Takara (#2313A)	1 μ l
RNA		8 μ l

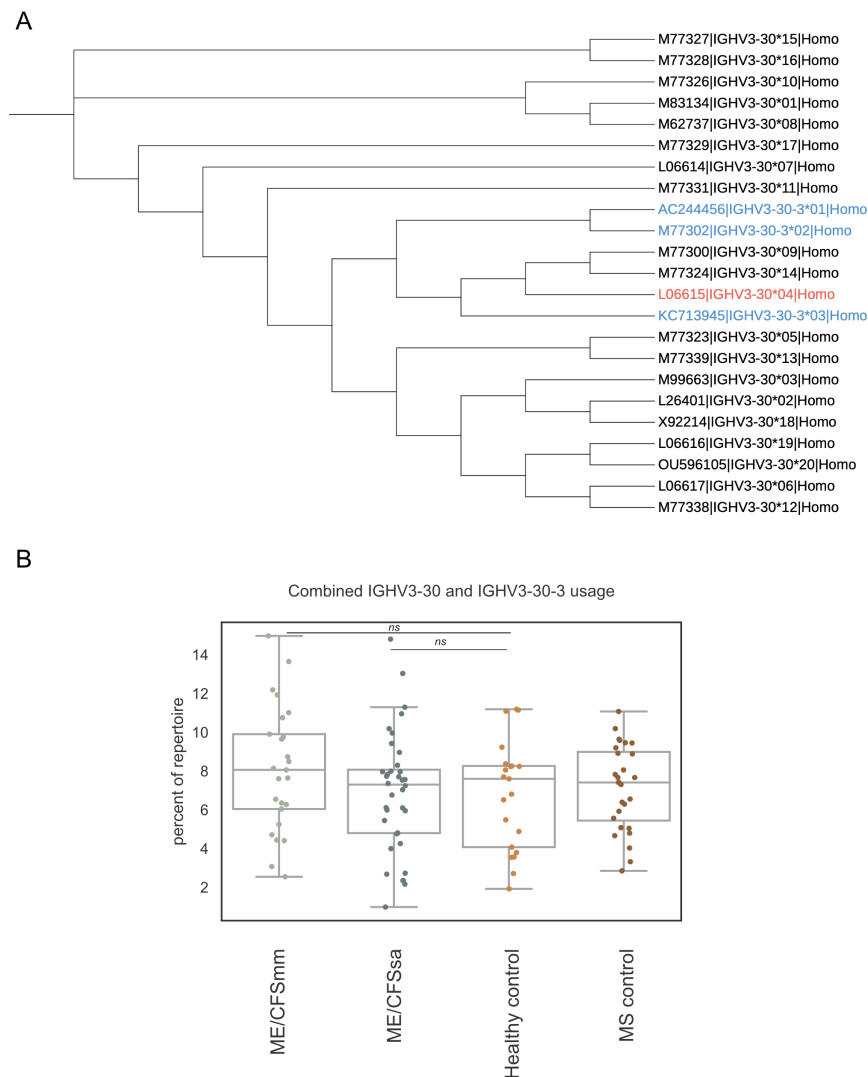
Table S3. PCR1 Mix

Component	Supplier / catalogue nr	Volume per reaction
Nuclease-free water	IDT	4 μ l
Primer MISS_ext (10 μ M)	IDT	2 μ l
R2 primer mix (IgM+IgG combined) (10 μ M)	IDT	2 μ l
Phusion flash High Fidelity PCR Mastermix	Thermo Fisher #F548S	10 μ l
cDNA		2 μ L

Table S4. PCR2 Mix

Component	Supplier and catalogue nr	Volume per reaction
Nuclease-free water	IDT	4 μ l
Primer P7-SMARTamp w. sample index(10 μ M)	IDT	2 μ l
Primer BCR_P5-Rev w. sample index (10 μ M)	IDT	2 μ l
Phusion flash High Fidelity PCR Mastermix	Thermo Fisher #F548S	10 μ l
PCR1 product		2 μ l





Supplementary Figure 2:

A) Neighbour joining tree of all available IGHV3-30 and IGHV3-30-3 alleles in the IGMT reference database. IGHV3-30-3 highlighted in blue. IGHV3-30*4, which has an identical sequence to IGHV3-30-3*03, is highlighted in red. Reference sequences were obtained from IGMT: <https://www.imgt.org/vquest/refseqh.html#VQUEST>. **B)** V gene usage for combined IGHV3-30 and IGHV3-30-3.

Figure S2.