Supplementary Table III: Trinucleotide-containing oligonucleotide libraries synthezised in this study

κЗА 5'-GCCCTGCAAGCGGAAGACTTTGCG(TK1)TATTATTGC(TK2)CAG(TK3)(TK4)(TK5)(TK6)(TK7)(TK6)ACCTTTGGCCATTCGAAAGCC-3' κЗВ 5'-GCCCTGCAAGCGGAAGACGTGGGCGTGTATTATTGC(TK2)CAG(TK3)(TK4)(TK5)(TK6)ACCTTTGGCCATTCGAAAGCC-3' к3C 5'-GCCCTGCAAGCGGAAGACGTGGCGGTGTATTATTGC(TK2)CAG(TK3)(TK4)(TK5)(TK6)ACCTTTGGCCATTCGAAAGCC-3' λ3 $5' - CCTGCAAGCGGAAGACGAAGCGGATTATTATTGCCAGAGC(T\lambda_1) GAC(T\lambda_2)_3 [T\lambda_2]_3 (T\lambda_3) GTGTTTGGCGGCGGCACGAAGTT-3'$ H3A 5'-GTACCCGCGTCGGCCGTGTATTATTGCGCGCGCT(TH1)₄[TH1]₂₀(TH1)(TH2)GAT(TH3)TGGGGCCAAGGCACCCTGGTG-3' 5'-GTACCCGCGTCGGCCGTGTATTATTGCGCGCGT[TH1]18(TH1)(TH2)GAT(TH3)TGGGGCCAAGGCACCCTGGTG-3' H3B [] Substoichiometric coupling procedure $T\kappa 1:$ Mixture of ACT and GTT (both 50%) $T\kappa 2:$ Mixture of TTT (5%), CAT (5%), CTT (5%), ATG (5%), and CAG (80%) $T\kappa_3$: Mixture of 18 trinucleotide codons (all except cysteine and proline codon) at 2.7%, except TAT (50%) Mixture of GAT, GGT, AAT, TCT, and TAT (all 20%) Tκ4: Mixture of GAT, GGT, AAT, and TCT (all 25%) $T\kappa 5:$ Tκ6: Mixture of 19 trinucleotide codons (all except cysteine codon) at 5.3% $T\kappa7:$ Mixture of CCT (80%) and TCT (20%) τλ1: Mixture of CGT (10%), TGG (45%), and TAT (45%) тλ2: Mixture of 18 trinucleotide codons (all except cysteine and tryptophan codon) at 5.6%, Mixture of 19 trinucleotide codons (all except cysteine codon) at 5.3% тλз: TH1: Mixture of all twenty trinucleotides at 4.1% except TGT (1%), GGT (15%) and TAT (15%). TH2: Mixture of 30% TTT, 20% ATG, and 4.2% of GCT, GAG, GGT, ATT, CTT, CCT, CAG, TCT, ACT, GTT, and TAT. TH3: Mixture of 30% GTT, 30% TAT, and 5.7% of TTT, CAT, ATT, CTT, AAT, CCT, and TCT.

The oligonucleotides synthezised for CDR3 library generation are listed. For details see Figure 7 and the Materials & Methods section.