Supplementary Tables

**Supplementary File 1a. Oligonucleotides**

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| Primer | Application | Sequence |
| First-strand cDNA synthesis | | |
| Oligo(dT)18 | Primer for cDNA synthesis | TTTTTTTTTTTTTTTTTT |
| Second-strand cDNA synthesis | | |
| SMART\_dT | TdT oligo | AAGCAGTGGTATCAACGCAGAGTAC(T)30VN |
| Mouse IGH/IGK primer | |  |
| TdT\_L\_BsaI\_heavy | mouse IgG heavy-chain cDNA | CTAGGGTCTCAAGCAGTGGTATCAACGCAGAGTAC |
| msVHE | GAGGTGCAGCTGCAGGAGTCTGG |
| W-gamma-outer | AGAAGGTGTGCACACCGCTGGAC |
| mC\_G new2 | ATCTCCACACACAGGGGCCAGTGGATAGAC |
| BsaI\_IL6sp\_L | CTAGGGTCTCAAGCAGATGAACTCCTTCTCCACAAGCG |
| mC\_G\_new2\_BsaI | TCCTAGGTCTCCCACACACAGGGGCCAGTGGATAGAC |
| TdT\_L\_BsaI\_light | mouse IgK light-chain cDNA | CTAGGGTCTCAGTGGTATCAACGCAGAGTAC |
| mvkappa | GAYATTGTGMTSACMCARWCTMCA |
| mCkappa-outer | ACTGAGGCACCTCCAGATGTT |
| mC\_K\_new | AGGCACCTCCAGATGTTAACTGCTCACTGG |
| BsaI\_IL6sp\_kappa\_L | CTAGGGTCTCAGTGGTATGAACTCCTTCTCCACAAGCG |
| mC\_K\_new\_BsaI | TCCTAGGTCTCCTCCAGATGTTAACTGCTCACTGG |

**Supplementary File 1b. Oligonucleotides**

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| Primer | Application | Sequence |
| Next Generation sequencing | | |
| M13fwd\_i5\_mC\_G\_new2a | Well index | TGTAAAACGACGGCCxxxxxxxxATCTCCACACACAGGGGCCAGTGGATAGAC |
| M13fwd\_i5\_mC\_Ka | TGTAAAACGACGGCCxxxxxxxxGCACCTCCAGATGTTAACTG |
| M13fwd\_i5\_mC\_La | TGTAAAACGACGGCCxxxxxxxxAGCTCCTCAGRGGAAGGTG |
| M13rev\_i7\_msVHEb | GGAAACAGCTATGACyyyyyyyyGAGGTGCAGCTGCAGGAGTCTGG |
| M13rev\_ i7\_mvkappab | GGAAACAGCTATGACyyyyyyyyGAYATTGTGMTSACMCARWCTMCA |
| i5-Fwdc | Plate index | AATGATACGGCGACCACCGAGATCTACACxxxxxxxx  ACACTCTTTCCCTACACGACGCTCTTCCGATCTTGTAAAACGACGGCC |
| i7-Revd | CAAGCAGAAGACGGCATACGAGATyyyyyyyy  GTGACTGGAGTTCAGACGTGTGCTCTTCCGATCTGGAAACAGCTATGAC |
| i5-Revc | AATGATACGGCGACCACCGAGATCTACACxxxxxxxx  ACACTCTTTCCCTACACGACGCTCTTCCGATCTGGAAACAGCTATGAC |
| i7-Fwdd | CAAGCAGAAGACGGCATACGAGATyyyyyyyy  GTGACTGGAGTTCAGACGTGTGCTCTTCCGATCTTGTAAAACGACGGCC |

axxxxxxxx: sequence showing the well index from D501 to D508. byyyyyyyy: sequence showing the well index from D701 to D712. cxxxxxxxx: sequence showing the plate index from D501 to D508. dyyyyyyyy: sequence showing the plate index from D701 to D712.