Table S1: Sample metadata.

| Sample ID | Tissue Morbidity | AGE | GENDER | Viability (%) | Input (No of cells) | Mean Reads per Cell | Median Genes per Cell | Number of Reads | Valid Barcodes | Sequencing Saturation | Q30 Bases in Barcode | Q30 Bases in RNA Read | Q30 Bases in Sample Index | Q30 Bases in UMI | Reads Mapped to Genome | Reads Mapped Confidently to Genome | Reads Mapped Confidently to Intergenic Regions | Reads Mapped Confidently to Intronic Regions | Reads Mapped Confidently to Exonic Regions | Reads Mapped Confidently to Transcriptome | Reads Mapped Antisense to Gene | Fraction Reads in Cells | Total Genes Detected | Median UMI Counts per Cell |
|--------------|---|----------|--------|---------------|---------------------|---------------------|-----------------------|----------------------------|------------------|-----------------------|----------------------|-----------------------|---------------------------|------------------|------------------------|---------------------------------------|---|---|---|--|-----------------------------------|-------------------------|----------------------|----------------------------|
| Singlen | lex samples | | | | | | | | | | | | | | | | | | | | | | | |
| | | 00 | _ | 00 | 00.000 | 00.004 | 4.070 | 40.4.050.000 | 00.400/ | 05.400/ | 05 700/ | 00.000/ | 04.000/ | 05.700/ | 04.000/ | 70.000/ | 4.000/ | 05.700/ | 47.500/ | 44.000/ | 4.000/ | 40.000/ | 00.540 | 0.400 |
| 2582 | Transplant Nephrectomy Transplant Nephrectomy | 28 | F | 80 79 | 20,000 | 69,381 61,260 | 1,279 | 434,053,263 391,638,256 | 96.40% 96.30% | 65.10% 83.80% | 95.70% 95.80% | | 94.80% | 95.70% | 84.00% 84.70% | 78.00% 79.90% | 4.80% | 25.70% 25.00% | | 44.60% | | 46.20% | 22,546 | |
| 2584 2585 | | 31 57 | M | 79 | 10.000 | 44.344 | 696 529 | 440.207.021 | 96.30% | 76.30% | 95.80% | 87.80% | | 95.70% | 84.70% | 80.90% | 4.40% 5.20% | 25.00% | 50.50% | 50.80% | 1.30% | 35.90% | | |
| 2586 | Native Nephrectomy Native Nephrectomy | 59 | F | 65 | 20,000 | 73,231 | 1.378 | 383,734,189 | 96.60% | 69.50% | 95.80% | 87.80% | | 95.80% | 83.60% | 79.20% | 4.90% | 22.60% | 51.80% | 48.60% | 1.30% | 40.50% | 23,175 | |
| 18-142-6 | Native Nephrectomy | 68 | F | 45 | 10,000 | 29,537 | 352 | 409,886,274 | 96.90% | 84.30% | 95.70% | | | 95.60% | 83.10% | 77.60% | 4.60% | 20.60% | 52.40% | 50.10% | | 47.90% | 21,719 | |
| 18-162-6 | Native Nephrectomy | 64 | F | 45 | 5.000 | 9.076 | 31 | 351,605,116 | 97.10% | 92.10% | 96.00% | 88.60% | | 95.90% | 85.90% | 83.00% | 7.20% | 8.10% | 67.80% | 65.80% | 0.70% | 70.20% | 19.526 | |
| 18-312-6 | Native Nephrectomy | 71 | M | 50 | 6,000 | 109,163 | | 402,268,141 | 96.80% | 68.20% | 95.90% | 88.00% | | 95.80% | 86.30% | 83.20% | 5.10% | 24.10% | 54.00% | 51.00% | 1.10% | 55.90% | 23,425 | |
| 18-342-6 | Native Nephrectomy | 69 | M | 50 | 20.000 | 50,277 | 595 | 437,310,416 | | 81.80% | 95.80% | | 92.10% | | 83.80% | 79.40% | 5.40% | 21.60% | 52.40% | | | 40.70% | | |
| 10 042 0 | realive recprirectionly | 00 | 141 | 00 | 20,000 | 00,211 | 000 | 407,010,410 | 50.0070 | 01.0070 | 30.0070 | 00.0070 | 02.1070 | 55.7 6 76 | 00.0070 | 7 0.40 /0 | 0.4070 | 21.0070 | 02.4070 | 70.1070 | 1.0070 | 40.7070 | 22,072 | 1,170 |
| Mux-Se | q Samples | | | | | | | | | | | | | | | | | | | | | | | |
| Pool 1 | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| 2582 | Transplant Nephrectomy | 28 | F | 80 | 5,000 | | | | | | | | | | | | | | 1 | | | | | |
| 2584 | Transplant Nephrectomy | 31 | М | 79 | 5.000 | | | | | | | | | | | | | | | | | | 1 | |
| 2585 | Native Nephrectomy | 57 | М | 73 | 5,000 | | | | | | | | | | | | | | | | | | | |
| 2586 | Native Nephrectomy | 59 | F | 65 | 5,000 | | | | | | | | | | | | | | | | | | | |
| | | | | | | 118,671 | 1,208 | 403,600,677 | 96.70% | 76.90% | 95.60% | 87.90% | 93.40% | 95.50% | 84.40% | 79.80% | 4.80% | 24.60% | 50.30% | 47.30% | 1.40% | 33.20% | 22,280 | 2,732 |
| B 16 | | 1.0 | | | | | | | | | | | | | | | ļ | | ļ | - | 1 | | ₩ | |
| | replicate of Po | | | | | | <u> </u> | | | | | | | | | | | | <u> </u> | | 1 | <u> </u> | <u> </u> | |
| 2582 | | | F | 80 | 5,000 | | | | | | | | | | | | | | | | | | | |
| 2584 | Transplant Nephrectomy | 31 | М | 79 | 5,000 | | | | | | | | | | | | | | | | | | | |
| 2585 | Native Nephrectomy | 57 | М | 73 | 5,000 | | | | | | | | | | | | | | | | | | | |
| 2586 | Native Nephrectomy | 59 | F | 65 | 5,000 | 07.055 | 4.005 | 107.010.710 | 00.700/ | 70.400/ | 05.000/ | 00.500/ | 00.000/ | 05.700/ | 05.000/ | 00.000/ | 4.000/ | 00.000/ | 50.000/ | 40.000/ | 4.000/ | 04.000/ | 00.000 | 0.004 |
| Pool 3 | | | | | | 97,055 | 1,235 | 407,048,749 | 96.70% | 73.40% | 95.80% | 88.50% | 90.60% | 95.70% | 85.30% | 80.80% | 4.80% | 23.80% | 52.30% | 49.30% | 1.30% | 34.90% | 22,938 | 2,964 |
| | | | | | | | | | | | | | | | | | | | <u> </u> | | | | <u> </u> | |
| 18-142-6 | Native Nephrectomy | 68 | F | 45 | 5,000 | | | | | | | | | | | | | | ļ | | 1 | | <u> </u> | 1 |
| 18-162-6 | Native Nephrectomy | 64 | F | 45 | 5,000 | | | | | | | | | | | | | | <u> </u> | 1 | 1 | ļ | ↓ | 1 |
| 18-312-6 | Native Nephrectomy | 71 | М | 50 | 5,000 | | | | | | | | | | | | | | ļ | | | | <u> </u> | 1 |
| 18-342-6 | Native Nephrectomy | 69 | М | 50 | 5,000 | 7.404 | | 202 242 225 | 04.000/ | 00.700/ | 05.000/ | 04.000/ | 04.000/ | 05.000/ | 00.400/ | 04.000/ | 0.400/ | 40.000/ | 57.000/ | 54.000/ | 4.700/ | 75.000/ | 00.054 | 455 |
| | | | | | | 7,104 | 90 | 390,919,835 | 94.30% | 92.70% | 95.90% | 91.80% | 94.60% | 95.80% | 90.10% | 84.30% | 8.40% | 18.00% | 57.80% | 54.00% | 1.70% | 75.00% | 20,851 | 155 |