**Supplementary file to “HyDrop enables droplet based single-cell ATAC-seq and single-cell RNA-seq using dissolvable hydrogel beads”**

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**Sequence on the unbarcoded hydrogel bead:**

**/5Acryd//iThioMC6-D/TTTTTTTTAATACGACTCACTATAGGGAAGCAGTGGTATCAACGCAGAGTAC**

**Sequences in red denote one of 96 possible sub-barcodes.**

**Extension 1:**

**/5Acryd//iThioMC6-D/TTTTTTTTAATACGACTCACTATAGGGAAGCAGTGGTATCAACGCAGAGTACTTCCTGTGAGCAGCTACTGC**

 **GCGTCTCATGAAGGACACTCGTCGATGACG**

**Extension 2:**

**/5Acryd//iThioMC6-D/TTTTTTTTAATACGACTCACTATAGGGAAGCAGTGGTATCAACGCAGAGTACTTCCTGTGAGCAGCTACTGCTCGGACTTATCGAGTACCCT**

 **GTCGATGACGAGCCTGAATAGCTCATGGGA**

**Extension 3 (HyDrop-RNA):**

**/5Acryd//iThioMC6-D/TTTTTTTTAATACGACTCACTATAGGGAAGCAGTGGTATCAACGCAGAGTACTTCCTGTGAGCAGCTACTGCTCGGACTTATCGAGTACCCTGGCTGAATTANNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTT**

 **GCTCATGGGACCGACTTAATNNNNNNNNNAAAAAAAAAAAAAAAAAAAAAAAAA**

**Final primer sequence on bead for HyDrop-RNA:**

 **PCR handle BC1 BC2 BC3**

**/5Acryd//iThioMC6-D/TTTTTTTTAATACGACTCACTATAGGGAAGCAGTGGTATCAACGCAGAGTACTTCCTGTGAGCAGCTACTGCTCGGACTTATCGAGTACCCTGGCTGAATTANNNNNNNNNTTTTTTTTTTTTTTTTTTTTTTTTT 136 bp**

**Extension 3 (HyDrop-ATAC):**

**/5Acryd//iThioMC6-D/TTTTTTTTAATACGACTCACTATAGGGAAGCAGTGGTATCAACGCAGAGTACTTCCTGTGAGCAGCTACTGCTCGGACTTATCGAGTACCCTGGCTGAATTAGTCTCGTGGGCTCGG**

 **GCTCATGGGACCGACTTAATCAGAGCACCCGAGCC**

**Final primer sequence on bead for HyDrop-ATAC:**

 **PCR handle BC1 BC2 BC3**

**/5Acryd//iThioMC6-D/TTTTTTTTAATACGACTCACTATAGGGAAGCAGTGGTATCAACGCAGAGTACTTCCTGTGAGCAGCTACTGCTCGGACTTATCGAGTACCCTGGCTGAATTAGTCTCGTGGGCTCGG 117 bp**