##### **Table S1** - Methods for ONT library construction with enrichment of cDNA library.

|  | **FLT-Seq** single-cell full-length transcript sequencing by sampling | **SQK-PCS111** Single-cell transcriptomics with cDNA prepared using 10x SST (2022) | **EXP-PCA001** Single-cell transcriptomics with cDNA prepared using 10x SST (2023) |
| --- | --- | --- | --- |
| **Sample name** | **P29702\_303** | **P29702\_301** | **P29702\_401** |
| Source | Tian *et al.* (2021) Genome Biology | Oxford Nanopore Technologies | Oxford Nanopore Technologies |
| Full-length cDNA enrichment | PCR amplification with specific primers | PCR amplification with specific primers & biotin pull-down | PCR amplification with specific primers & biotin pull-down |
| Primers | FPSfilA: 5’-ACTAAAGGCCATTACGGCCTACACGACGCTCTTCCGATCT-3’  RPSfilBr: 5’-TTACAGGCCGTAATGGCCAAGCAGTGGTATCAACGCAGAGTA-3’ | [Btn]Fwd\_3580\_partial\_read1\_defined  5'-/5Biosg/CAGCACTTGCCTGTCGCTCTATCTTCCTACACGACGCTCTTCCGATCT-3'  Rev\_PR2\_partial\_TSO\_defined  5'-CAGCTTTCTGTTGGTGCTGATATTGCAAGCAGTGGTATCAACGCAGAG-3'  cDNA Primer (cPRM) Forward sequence: 5'-ATCGCCTACCGTGACAAGAAAGTTGTCGGTGTCTTTGTGACTTGCCTGTCGCTCTATCTTC-3’  cDNA Primer (cPRM) Reverse sequence: 5’-ATCGCCTACCGTGACAAGAAAGTTGTCGGTGTCTTTGTGTTTCTGTTGGTGCTGATATTGC-3’ | [Btn]Fwd\_3580\_partial\_read1\_defined 5'-/5Biosg/CAGCACTTGCCTGTCGCTCTATCTTCCTACACGACGCTCTTCCGATCT-3' Rev\_PR2\_partial\_TSO\_defined 5'-CAGCTTTCTGTTGGTGCTGATATTGCAAGCAGTGGTATCAACGCAGAG-3'  cDNA Primer (cPRM) Forward sequence: 5'-ATCGCCTACCGTGACAAGAAAGTTGTCGGTGTCTTTGTGACTTGCCTGTCGCTCTATCTTC-3’  cDNA Primer (cPRM) Reverse sequence: 5’-ATCGCCTACCGTGACAAGAAAGTTGTCGGTGTCTTTGTGTTTCTGTTGGTGCTGATATTGC-3’ |
| Input | 2.5-5 ng of cDNA amplicons | 10 ng of cDNA amplicons | 10 ng of cDNA amplicons |
| Based on ONT kit | Ligation Sequencing Kit V14 (SQK-LSK114) | PCR-cDNA Sequencing Kit (SQK-PCS111) | Ligation Sequencing Kit V14 (SQK-LSK114)  PCR Expansion (EXP-PCA001) for (cPRM) |
| Adapter | Ligation Adapter | Rapid Adapter T | Ligation Adapter |
| ONT flow cell | PromethION R10.4.1 | PromethION R9.4.1 | PromethION R10.4.1 |