**Supplementary file 2. The sequences of the indexes used in ATAC-seq library preparation.**

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| --- | --- | --- | --- |
| **Group** | **Primer name** | **Sequence** | **Index** |
| Index\_1 | Index\_1.1 (N701) | CAAGCAGAAGACGGCATACGAGATTCGCCTTAGTCTCGTGGGCTCGGAGATGT | TCGCCTTA |
| Index\_1 | Index\_1.2 (N702) | CAAGCAGAAGACGGCATACGAGATCTAGTACGGTCTCGTGGGCTCGGAGATGT | CTAGTACG |
| Index\_1 | Index\_1.3 (N703) | CAAGCAGAAGACGGCATACGAGATTTCTGCCTGTCTCGTGGGCTCGGAGATGT | TTCTGCCT |
| Index\_1 | Index\_1.4 (N704) | CAAGCAGAAGACGGCATACGAGATGCTCAGGAGTCTCGTGGGCTCGGAGATGT | GCTCAGGA |
| Index\_1 | Index\_1.5 (N705) | CAAGCAGAAGACGGCATACGAGATAGGAGTCCGTCTCGTGGGCTCGGAGATGT | AGGAGTCC |
| Index\_1 | Index\_1.6 (N706) | CAAGCAGAAGACGGCATACGAGATCATGCCTAGTCTCGTGGGCTCGGAGATGT | CATGCCTA |
| Index\_2 | Index\_2.1 (501) | AATGATACGGCGACCACCGAGATCTACACTAGATCGCTCGTCGGCAGCGTCAGATGTG | TAGATCGC |
| Index\_2 | Index\_2.2 (502) | AATGATACGGCGACCACCGAGATCTACACCTCTCTATTCGTCGGCAGCGTCAGATGTG | CTCTCTAT |
| Index\_2 | Index\_2.3 (503) | AATGATACGGCGACCACCGAGATCTACACTATCCTCTTCGTCGGCAGCGTCAGATGTG | TATCCTCT |
| Index\_2 | Index\_2.4 (504) | AATGATACGGCGACCACCGAGATCTACACAGAGTAGATCGTCGGCAGCGTCAGATGTG | AGAGTAGA |
| Index\_2 | Index\_2.5 (505) | AATGATACGGCGACCACCGAGATCTACACGTAAGGAGTCGTCGGCAGCGTCAGATGTG | GTAAGGAG |
| Index\_2 | Index\_2.6 (506) | AATGATACGGCGACCACCGAGATCTACACACTGCATATCGTCGGCAGCGTCAGATGTG | ACTGCATA |
| Index\_2 | Index\_2.7 (507) | AATGATACGGCGACCACCGAGATCTACACAAGGAGTATCGTCGGCAGCGTCAGATGTG | AAGGAGTA |
| Index\_2 | Index\_2.8 (508) | AATGATACGGCGACCACCGAGATCTACACCTAAGCCTTCGTCGGCAGCGTCAGATGTG | CTAAGCCT |