

Unique Dual Indexing 10 bp-Adapter Sequences for Illumina

Name	Type	i7 index sequence	i5 index sequence Forward Workflow	i5 index sequence Reverse Workflow
MF.V5.UDI.10	UDI (i7/i5)	GAGAATGGTT	TCGGCAGCAA	TTGCTGCCGA
MF.V5.UDI.11	UDI (i7/i5)	CCATCATTAG	GGTTGCCTCT	AGAGGCAACC
MF.V5.UDI.12	UDI (i7/i5)	GATAGGCCGA	CGCACATGGC	GCCATGTGCG
MF.V5.UDI.13	UDI (i7/i5)	ATGGTTGACT	GGCCTGTCCT	AGGACAGGCC
MF.V5.UDI.14	UDI (i7/i5)	ACGCCTTGTT	TAAGGAACGT	ACGTTCTTA
MF.V5.UDI.15	UDI (i7/i5)	TTCTACATAC	CTAACTGTAA	TTACAGTTAG
MF.V5.UDI.16	UDI (i7/i5)	GGTTGCGAGG	AATAGAGCAA	TTGCTCTATT
MF.V5.UDI.17	UDI (i7/i5)	TAAGCATCCA	TCAATCCATT	AATGGATTGA
MF.V5.UDI.18	UDI (i7/i5)	ACCACGACAT	TCGTATGCGG	CCGCATACGA
MF.V5.UDI.19	UDI (i7/i5)	AACACTGTTA	GCAAGTCTCA	TGAGACTTGC
MF.V5.UDI.20	UDI (i7/i5)	ATTGCGCGGT	TTGGCTCCGC	GCGGAGCCAA
MF.V5.UDI.21	UDI (i7/i5)	TGGCGCGAAC	AACTGATACT	AGTATCAGTT

The unique Dual Indexing (UDI) strategy ensures the highest accuracy in library sequencing and demultiplexing, adhering to best practices for Illumina sequencing platforms. UD-indexed libraries feature distinct index adapters for both i7 and i5 index reads.

The new version of the extended module includes 10 bp index sequences, which can be sequenced as 8 bp indexes on the instruments listed below. Illumina instruments support two workflows for sequencing the i5 index (see the details in the [Indexed Sequencing Overview Guide](#) on Illumina's website for details).

Forward-strand workflow instruments:

- NovaSeq 6000 with v1.0 reagents
- MiSeq with Rapid reagents
- HiSeq 2500, HiSeq 2000

Reverse-strand workflow instruments:

- NovaSeq 6000 with v1.5 reagents
- iSeq 100
- MiniSeq with Standard reagents
- NextSeq
- HiSeq X, HiSeq 4000, HiSeq 3000

The current indexes are **Illumina X-Leap-SBS-compatible** and can be used in Novaseq X, Novaseq X Plus, and NextSeq1000/2000 instruments.