

## Unique Dual Indexing adapter sequences for Illumina

Name	Type	i7 index sequence	i5 index sequence Forward Workflow	i5 index sequence Reverse Workflow
MQ.UDI.50	UDI (i7/i5)	CTAGGCAA	ACCACTTA	TAAGTGGT
MQ.UDI.51	UDI (i7/i5)	TCGAATGG	GTTGTCCG	CGGACAAC
MQ.UDI.52	UDI (i7/i5)	CTTAGTGT	ATCCATAT	ATATGGAT
MQ.UDI.53	UDI (i7/i5)	TCCGACAC	GCTTGCGC	GCGCAAGC
MQ.UDI.54	UDI (i7/i5)	AACAGGAA	AGTATCTT	AAGATACT
MQ.UDI.55	UDI (i7/i5)	GGTGAAGG	CATGCCAT	ATGGCATG
MQ.UDI.56	UDI (i7/i5)	CCTGTGGC	TGCATTGC	GCAATGCA
MQ.UDI.57	UDI (i7/i5)	TTCACAAT	ATTGGAAC	GTTCCAAT
MQ.UDI.58	UDI (i7/i5)	ACACGAGT	GCCAAGGT	ACCTTGGC
MQ.UDI.59	UDI (i7/i5)	GTGTAGAC	CGAGATAT	ATATCTCG
MQ.UDI.60	UDI (i7/i5)	TGTCGTAG	TCCGGATT	AATCCGGA
MQ.UDI.61	UDI (i7/i5)	ACCACTTA	CTGTATTA	TAATACAG

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

Illumina instruments can use two workflows for sequencing the i5 index (see the details in the [Indexed Sequencing Overview Guide](#) on Illumina's website).

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