

egSEQ UMI & UDI Primer 1-16

Product Description

The adapter links the DNA sample to the sequencing platform and contains barcodes for sample identification, while the UDI primer initiates amplification and sequencing of the DNA by priming the reaction. UMIs are added with sufficient diversity to distinguish between original DNA molecules, allowing for more accurate correction of DNA molecule errors during library preparation, target capture and sequencing.

egSEQ UMI & UDI Primer contains universal sequence, i7 index sequences, i5 index sequences, UMI sequences and inserts.

Forward Sequence:

5'-AATGATACGGCGACCACCGAGATCTACAC-i5 Index-ACACTCTTCCCTACACGACGCTCTCCGATC-UMI-T-Insert-A-UMI-GATCGGAAGAGCACACGTCTGAACTCCAGTCAC-i7 Index'-ATCTCGTATGCCGTCTTCTGCTTG-3'

Reverse Sequence:

5'-CAAGCAGAAGACGGCATACGAGAT-i7 Index-GTACTGGAGTTCAGACGTGTGCTCTCCGATC-UMI-T-Insert-A-UMI-GATCGGAAGAGCGTCGTGT AGGGAAAGAGTGT-i5 Index' GTGTAGATCTCGGTGGTCGCCGATCATT-3'

i7 Index sequences are independent of the sequencing mode and platform.

i5 Index is suitable for pair-end sequencing and is platform dependent.

Use i5 Index: NovaSeq 6000 with v1.0 reagent, MiSeq, HiSeq 2000/2500, NextSeq 2000

Use i5 Index reverse complementary sequences: iSeq, NovaSeq 6000 with v1.5 kits, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 2000

egSEQ Insert UMI Adapter

UMI Index	UMI Sequence	UMI Index	UMI Sequence	UMI Index	UMI Sequence	UMI Index	UMI Sequence
#1	TCGGTA	#17	AGTGCC	#33	TCAGGC	#49	GCAATT
#2	GACGTT	#18	ACAACG	#34	TCTTGA	#50	GCACCA
#3	AAGTTG	#19	ACAGAT	#35	TCTGCT	#51	GCTTCG
#4	AAGGCA	#20	TAATCG	#36	TCGACC	#52	GCTCAT
#5	AAGCGT	#21	TATGAC	#37	TCGCAG	#53	GCGTAA
#6	AACTGA	#22	TATCCA	#38	TCCTAT	#54	CAAGTA
#7	AACCAG	#23	TACTTC	#39	GAATAC	#55	CAACAT
#8	ATAAGC	#24	TTACGA	#40	GATGGA	#56	CATTGT
#9	ATACCT	#25	TTGTCA	#41	GACAGC	#57	CATGCG
#10	ATTGAG	#26	TTCACT	#42	GTAGAA	#58	CTAGGT
#11	ATGCAA	#27	TTCTGG	#43	GTTAAC	#59	CTGATA
#12	ATCATG	#28	TGAGCA	#44	GTTCTA	#60	CTGGAC
#13	ATCTAC	#29	TGTATC	#45	GTGAGT	#61	CTCCTC
#14	AGATGT	#30	TGTTAG	#46	GGAACC	#62	CGTCTG
#15	AGACTC	#31	TGTCGT	#47	GGATTA	#63	CCATAG
#16	AGTACA	#32	TGCCAC	#48	GGCAAG	#64	CCGCTT

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Index no.	i7 Index sequence	i5 Index sequence	Index no.	i7 Index sequence	i5 Index sequence
#1	CGATCGAT	CGGTGTGTT	#9	AGGAGGTT	TTACCGAG
#2	TATGACCG	GTGCTTAC	#10	TGGCTCTT	GATTACCG
#3	AAGCGACT	TCGTGGAT	#11	TTCGTACG	GCTGTAAG
#4	GTTGCTGT	GTGAAGTG	#12	AACACTGG	TTGCGAAG
#5	GTAAGCAC	TTGGTCTC	#13	GCGTTAGA	TTGTCGGT
#6	AACTGAGG	GTGCCATA	#14	ACAACAGC	GTCAGTTG
#7	CCTCGAAT	CTACAGTG	#15	TGCGATAG	GTAGAGCA
#8	CACCAGTT	CCAGTGTT	#16	CATGGATC	AGTCGCTT

Ordering Information

Product Code	Product Name	Specifications
EG1006	egSEQ UMI & UDI Primer 1-16	16 rxn

Components

Cap Colour	Component	Volume	Storage Temperature	Transport Requirements
Blue	egSEQ Insert UMI Adapter (15 µM, for Illumina)	88 µL	-20°C ± 5 °C	Dry ice
White	egSEQ UDI Primer N (10 µM each, for Illumina)	16 x 8 µL		

Precautions

- Please read all relevant Safety Data Sheet(s).
- To ensure the quality of results, please follow corresponding instructions.
- Please wear appropriate personal protective equipment.
- Please handle biological samples and other materials in accordance with applicable guidelines.
- Avoid cross-contamination of samples and reagents to ensure the quality of results
- Do not use expired kits.

Version History

Version	Date	Change(s)
v1.0	January 2022	Initial release

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