

# egSEQ UMI & UDI Primer 1-96/97-192/193-288/289-384

## 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.

## Ordering Information

Product Code	Product Name	Specifications
EG1107	egSEQ UMI & UDI Primer 1-96	96 rxn
EG1108	egSEQ UMI & UDI Primer 97-192	96 rxn
EG1109	egSEQ UMI & UDI Primer 193-288	96 rxn
EG1110	egSEQ UMI & UDI Primer 289-384	96 rxn

## Components

Cap Colour	Component	Volume	Storage Temperature	Transport Requirements
Blue	egSEQ Insert UMI Adapter (15 µM, for Illumina)	540 µL	-20°C ± 5 °C	Dry ice
On Plate	egSEQ UDI Primer N (10 µM each, for Illumina)	8 µL each		

## 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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# egSEQ UMI & UDI Primer 1-96/97-192/193-288/289-384

## Appendix 1. Plate Location

### egSEQ UDI Primer 1-96

	1	2	3	4	5	6	7	8	9	10	11	12
A	#1	#9	#17	#25	#33	#41	#49	#57	#65	#73	#81	#89
B	#2	#10	#18	#26	#34	#42	#50	#58	#66	#74	#82	#90
C	#3	#11	#19	#27	#35	#43	#51	#59	#67	#75	#83	#91
D	#4	#12	#20	#28	#36	#44	#52	#60	#68	#76	#84	#92
E	#5	#13	#21	#29	#37	#45	#53	#61	#69	#77	#85	#93
F	#6	#14	#22	#30	#38	#46	#54	#62	#70	#78	#86	#94
G	#7	#15	#23	#31	#39	#47	#55	#63	#71	#79	#87	#95
H	#8	#16	#24	#32	#40	#48	#56	#64	#72	#80	#88	#96

### egSEQ UDI Primer 97-192

	1	2	3	4	5	6	7	8	9	10	11	12
A	#97	#105	#113	#121	#129	#137	#145	#153	#161	#169	#177	#185
B	#98	#106	#114	#122	#130	#138	#146	#154	#162	#170	#178	#186
C	#99	#107	#115	#123	#131	#139	#147	#155	#163	#171	#179	#187
D	#100	#108	#116	#124	#132	#140	#148	#156	#164	#172	#180	#188
E	#101	#109	#117	#125	#133	#141	#149	#157	#165	#173	#181	#189
F	#102	#110	#118	#126	#134	#142	#150	#158	#166	#174	#182	#190
G	#103	#111	#119	#127	#135	#143	#151	#159	#167	#175	#183	#191
H	#104	#112	#120	#128	#136	#144	#152	#160	#168	#176	#184	#192

### egSEQ UDI Primer 193-288

	1	2	3	4	5	6	7	8	9	10	11	12
A	#193	#201	#209	#217	#225	#233	#241	#249	#257	#265	#273	#281
B	#194	#202	#210	#218	#226	#234	#242	#250	#258	#266	#274	#282
C	#195	#203	#211	#219	#227	#235	#243	#251	#259	#267	#275	#283
D	#196	#204	#212	#220	#228	#236	#244	#252	#260	#268	#276	#284
E	#197	#205	#213	#221	#229	#237	#245	#253	#261	#269	#277	#285
F	#198	#206	#214	#222	#230	#238	#246	#254	#262	#270	#278	#286
G	#199	#207	#215	#223	#231	#239	#247	#255	#263	#271	#279	#287
H	#200	#208	#216	#224	#232	#240	#248	#256	#264	#272	#280	#288

### egSEQ UDI Primer 289-348

	1	2	3	4	5	6	7	8	9	10	11	12
A	#289	#297	#305	#313	#321	#329	#337	#345	#353	#361	#369	#377
B	#290	#298	#306	#314	#322	#330	#338	#346	#354	#362	#370	#378
C	#291	#299	#307	#315	#323	#331	#339	#347	#355	#363	#371	#379
D	#292	#300	#308	#316	#324	#332	#340	#348	#356	#364	#372	#380
E	#293	#301	#309	#317	#325	#333	#341	#349	#357	#365	#373	#381
F	#294	#302	#310	#318	#326	#334	#342	#350	#358	#366	#374	#382
G	#295	#303	#311	#319	#327	#335	#343	#351	#359	#367	#375	#383
H	#296	#304	#312	#320	#328	#336	#344	#352	#360	#368	#376	#384

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## Appendix 2. Sequence Information

UMI - UDI sequencing library contains universal sequences, 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-GTGAAGTGGAGTTCAGACGTGTGCTCTCCGATC-UMI-T-Insert-A-UMI-GATCGGAAGAGCGTCGTGT AGGGAAAGAGTGT-i5 Index' GTGTAGATCTCGGTGGTCCCGTATCATT-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	CGCTCG
#15	AGACTC	#31	TGTCGT	#47	GGATTA	#63	CCATAG
#16	AGTACA	#32	TGCCAC	#48	GGCAAG	#64	CCGCTT

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## egSEQ UDI Primer 1-96

Plate location	Index no.	i7 Index sequence	i5 Index sequence	Plate location	Index no.	i7 Index sequence	i5 Index sequence	Plate location	Index no.	i7 Index sequence	i5 Index sequence
A01	#1	CGATCGAT	CGGTGTT	A05	#33	ACCGACAA	AACGTGGA	A09	#65	CACATGTT	AGCAGATG
B01	#2	TATGACCG	GTGCTTAC	B05	#34	ATAGTCGG	TACCAGGA	B09	#66	ACGTCGTT	TCGCTGTT
C01	#3	AAGCGACT	TCGTGGAT	C05	#35	CATTGACG	TGTACCGT	C09	#67	AAGCTGTT	CTCATTGC
D01	#4	GTTGCTGT	GTGAAGTG	D05	#36	TCCTGACT	GATCCATG	D09	#68	GCGCATAT	TGTCCAGA
E01	#5	GTAAGCAC	TTGTCTC	E05	#37	TTGAGCTC	TTCTCTCG	E09	#69	ACTGCACT	TCAAGGAC
F01	#6	AACTGAGG	GTGCCATA	F05	#38	AGATACGG	GTCTAAG	F09	#70	GATCCACT	CGGATTGA
G01	#7	CCTCGAAT	CTACAGTG	G05	#39	GTTCCATG	CGACCATT	G09	#71	ATCGTCTC	TAGACGTG
H01	#8	CACCAAGT	CCAGTGTT	H05	#40	CAGTGCTT	TGGCATGT	H09	#72	CAACACAG	GACAAGAG
A02	#9	AGGAGGTT	TTACCGAG	A06	#41	CAACGAGT	GTATTGGC	A10	#73	CTTCCTTC	TCGAACCA
B02	#10	TGGCTCTT	GATTACCG	B06	#42	ACTCGATC	TGGTACAG	B10	#74	ATCGCAAC	AGTGGATC
C02	#11	TTCGTACG	GCTGTAAG	C06	#43	ATCGTGGT	CGACGTTA	C10	#75	CACAGACT	ATGGCGAA
D02	#12	AACACTGG	TTGCGAAG	D06	#44	TTGCAACG	GCAAGATC	D10	#76	CAACCTCT	TGGACTCT
E02	#13	GCGTTAGA	TTGTCGGT	E06	#45	CTGTATGC	TGAACCTG	E10	#77	ACAACGTG	TAAGTGGC
F02	#14	ACAACAGC	GTCAGTTG	F06	#46	CAGACGTT	TTCCAAGG	F10	#78	TCGAACCT	ACGTGATG
G02	#15	TGCGATAG	GTAGAGCA	G06	#47	ATCCGTTG	TGTGGTAC	G10	#79	AACCACTC	CATGGAAC
H02	#16	CATGGATC	AGTCGCTT	H06	#48	GAGGCATT	AGAAGCGT	H10	#80	AACACGCT	GCAATTCG
A03	#17	GCATAACG	GCTTCTTG	A07	#49	GTTATGGC	TGGTCCTT	A11	#81	ACCGAATG	TCCTACCT
B03	#18	GACCGATA	TGACGCAT	B07	#50	TTCGAAGC	GTAGCATC	B11	#82	CCTAGAGA	CTTAGGAC
C03	#19	CTGAACGT	GAGCTCAA	C07	#51	CTGTACCA	CTATCGCA	C11	#83	TTCGCCAT	CGTAGGAA
D03	#20	TCCACGTT	GATACTGG	D07	#52	ACTCAACG	GTTAAGGC	D11	#84	CCAAGTAG	TTCCTGTG
E03	#21	TCGTGCAT	ATCGATCG	E07	#53	AACCTACG	TAGTTGCG	E11	#85	ATCTCCTG	GATAGCGA
F03	#22	CTCTATCG	TGGATCAC	F07	#54	CATCACGT	AGTGCAGT	F11	#86	TGCTCTAC	TGCAGGTA
G03	#23	CCAAGGTT	TAGCCGAA	G07	#55	CATCTGCT	GTACTCTC	G11	#87	AGTACACG	TGACTTCG
H03	#24	GAGTAGAG	TACGGTTG	H07	#56	AGTCGAAG	TCAGACGA	H11	#88	AGCTTCAG	TCCAATCG
A04	#25	ACAGCAAG	TGATCGGA	A08	#57	CCACATTG	CTGTGTTG	A12	#89	CGCAATGT	GATAGGCT
B04	#26	GTCTAAG	GCACGTAA	B08	#58	ATGCCTAG	TGTGCGTT	B12	#90	CTCGTCTT	AGCACTTC
C04	#27	CAATGCGA	TGTGAAGC	C08	#59	CTAGCAGT	CCAAGTTG	C12	#91	AGAACCAG	GATTGGAG
D04	#28	TGAGCTGT	GCACAAC	D08	#60	AGGTGTTG	ATGCACGA	D12	#92	GAGCAATC	CCGACTAT
E04	#29	TGGTTCGA	TGATACGC	E08	#61	TCTGTCGT	TGTGACTG	E12	#93	GATCAAGG	CTCGATAC
F04	#30	ACTCTAC	GTTACGCA	F08	#62	GCCTATGT	CGGCTAAT	F12	#94	AGCGAGAT	CAGGTATC
G04	#31	GCCAATAC	TATCGGTC	G08	#63	GTCGATTG	CGCTTGT	G12	#95	GAGAAGGT	ACAGCTCA
H04	#32	TTCACGGA	TGCCATTC	H08	#64	ACAAGCTC	TCTAACGC	H12	#96	TATGCGGT	GAGATACG

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## egSEQ UDI Primer 97-192

Plate location	Index no.	i7 Index sequence	i5 Index sequence	Plate location	Index no.	i7 Index sequence	i5 Index sequence	Plate location	Index no.	i7 Index sequence	i5 Index sequence
A01	#97	TCGAGAGT	CCTACTGA	A05	#129	AGCGTGTA	CTCCTAGA	A09	#161	TACTAGCG	CTTGCTGT
B01	#98	GCCAGAAT	TTGCAGT	B05	#130	TAGCTGAG	CTGACACA	B09	#162	ATACGCAG	CAATGTGG
C01	#99	TCTAGGAG	CGGTCATA	C05	#131	GTCCTTGA	CTAGGCAT	C09	#163	GCAATGAG	GTGGATAG
D01	#100	GTACGATC	CCGTATCT	D05	#132	ACAGTTCG	TGAGCTAG	D09	#164	ATGCGTCA	AACGCTGT
E01	#101	AGAGTCCA	TTACGGCT	E05	#133	AAGTGCAG	GCTCTGTA	E09	#165	GATACCTG	ACCTTCTC
F01	#102	CTCCTAGT	CGCAATCT	F05	#134	CATACGGA	CCTTGATC	F09	#166	TCGACAAG	ACATAGGC
G01	#103	GATCAGAC	GTGGTGTT	G05	#135	AGGTAGGA	ATTGAGGG	G09	#167	ATGGCGAT	GTCTAGGT
H01	#104	AATGGTCG	CTCCATGT	H05	#136	GACGTCAT	TGGAGAGT	H09	#168	CCTCCAT	CGAACTGT
A02	#105	CGTAGATG	GCGTCATT	A06	#137	ATAGAGCG	ACTAGGAG	A10	#169	AGGCTGAA	AACTGGTG
B02	#106	GCTCAGTT	ACGACTTG	B06	#138	CAAGTCGT	GAAGAGGT	B10	#170	CTTAGGAC	ACACCACT
C02	#107	CCTTAGTT	CAAGGTCT	C06	#139	ACTGGTGT	GTGAGCTT	C10	#171	TCGATGAC	TCGTAGTC
D02	#108	ATCCACGA	CGTAGGTT	D06	#140	AAGCTCAC	CAACACCT	D10	#172	TGCTTGCT	CTTCGACT
E02	#109	AATCCAGC	TGTCGTCT	E06	#141	TTCGGCTA	AAGAGCCA	E10	#173	TGAGACGA	TCCGTGAA
F02	#110	GTGTCTCT	TCCGAGTT	F06	#142	TCACTCGA	TGGAGTTG	F10	#174	CGTCTCA	ACTCTCGA
G02	#111	TCCTGGTA	CTGGTTCT	G06	#143	GAACGGTT	CTTACAGC	G10	#175	CCTCGTTA	CTCAGAGT
H02	#112	CTCCAATC	ACTGCTAG	H06	#144	GACACAGT	TCTCTAGG	H10	#176	CTGATGAG	AGGTTGCA
A03	#113	TACCCGAT	AGAGGTTG	A07	#145	CATCCAAG	ACCACGAT	A11	#177	AGAAGGAC	GTCTGATC
B03	#114	AAGGAAGG	TCCGATAG	B07	#146	CTCTCAGA	ACTGTGTC	B11	#178	AGGCAATG	AACCGTTC
C03	#115	CCAGTATC	TGCGTAGA	C07	#147	TAGCCATG	AACCTCCT	C11	#179	TCCGATCA	TCTGAGAG
D03	#116	GATGTCGA	GTGCGGAT	D07	#148	AAGCATCG	AATGCCTC	D11	#180	ACAGAGGT	TGACTGAC
E03	#117	TAGGAGCT	CGCTAGTA	E07	#149	AGATCGTC	CGTTGAGT	E11	#181	CCTGGGAA	TTGGTGAG
F03	#118	ATTCCGCT	CAGGTTAG	F07	#150	AGTCTTGG	CGATGCTT	F11	#182	TGGTGAAG	GTGTCTGA
G03	#119	CTCGACTT	CTCACCA	G07	#151	CTTACAGC	TGGTAGCT	G11	#183	ACGCTTCT	TCTCCGAT
H03	#120	AGCCAATC	GCTGTTGT	H07	#152	AGGATAGC	GCTTAGCT	H11	#184	GCTGTAAG	AGCTCCTA
A04	#121	TGTTCCGT	GAACATCG	A08	#153	TTGGTGCA	TTCGTTGG	A12	#185	TACACACG	TTGGACGT
B04	#122	ACTCTGAG	GAATAGG	B08	#154	TGTCGACT	GAATATGC	B12	#186	TCACCTAG	GATCGAGT
C04	#123	ACCTCTTC	CGATAGAG	C08	#155	AACCTGGA	CCAAGACT	C12	#187	ACATGCCA	ACCAGCTT
D04	#124	GAAGTGCT	CACCTGTT	D08	#156	TCGGATTC	GAAGGAAG	D12	#188	ATACTGGC	ATTCTGGC
E04	#125	CTCAAGCT	CAGAATCG	E08	#157	TAGTCAGC	ACCTAAGG	E12	#189	GTTGGCAT	GCCTTGTT
F04	#126	GCGTATCA	TTAGGTCG	F08	#158	CACAGGAA	ATCCGGTA	F12	#190	TCTGGACA	TTCAGCCT
G04	#127	TCAGACAC	CATTCGGT	G08	#159	ACCATCCT	TTGATCCG	G12	#191	CGGATCAA	GCTTCGAA
H04	#128	GAACCTTC	TGCACCAA	H08	#160	GCTACTCT	TCTCGCAA	H12	#192	GTCAGTCA	TTGCAGAC

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## egSEQ UDI Primer 193-288

Plate location	Index no.	i7 Index sequence	i5 Index sequence	Plate location	Index no.	i7 Index sequence	i5 Index sequence	Plate location	Index no.	i7 Index sequence	i5 Index sequence
A01	#193	AGGAACAC	ATGCCAT	A05	#225	TGGATGGT	AGTCAGGA	A09	#257	CAAGAAGC	CTCATCAG
B01	#194	CGTGTGAT	CGGAATAC	B05	#226	TGATAGGC	CTGAAGCT	B09	#258	AAGGCGTA	TCGTCTCA
C01	#195	GACGAACT	TAGGATGC	C05	#227	TAGTCTCG	GCCTATCA	C09	#259	CAGCATAc	CCTCAGTT
D01	#196	TTGGACTG	TACGCTAC	D05	#228	GATAGCCA	CATTGCCT	D09	#260	AACACCAC	CTGGAGTA
E01	#197	GAACGAAG	TGGCTATC	E05	#229	ACTCTCCA	TGAAGACG	E09	#261	CGATGTTC	GATGCACT
F01	#198	CGCCTTAT	ATGACGTC	F05	#230	CGATTCTG	CGTCAATG	F09	#262	CTCTGGAT	CCATACGT
G01	#199	ATTAGCCG	CGTGATCA	G05	#231	CAATCAGG	ATGGAAGG	G09	#263	AAGCGTTC	CGCTCTAT
H01	#200	GATGGAGT	CAGTCTTC	H05	#232	CAGATCTC	CACTGACA	H09	#264	AGCTAGTG	GAGACGAT
A02	#201	AATGACGC	GTTCCTGT	A06	#233	AGCCGTAA	CAATCGAC	A10	#265	CGAATACG	GATGTGTG
B02	#202	CAGAAGTC	AACCTTGG	B06	#234	ATCGGAGA	GAGCTTGT	B10	#266	AGTGACCT	CTCAGCTA
C02	#203	CCTAAGTC	GATCGTAC	C06	#235	AGTTGTGC	ATAAGGCG	C10	#267	TCAATCCG	ACGGTCTT
D02	#204	TAGAAGCC	CAGTCTGT	D06	#236	GACATCTC	AGTTCGTC	D10	#268	GATGCTAC	GTGTTCTT
E02	#205	GTCTGCAA	CAGTCCAA	E06	#237	CGTCCATT	CTGATCGT	E10	#269	AGCTAAGC	ATGCCAAC
F02	#206	GAGAGTAC	CTGGATG	F06	#238	ACGGTACA	AAGTCGAG	F10	#270	CAACCGTA	TCTGCTCT
G02	#207	TAGTGGTG	TAGGTAGG	G06	#239	CGCGTATT	AGTGTGGG	G10	#271	GTGAGACT	ACGGAACA
H02	#208	ACTGCTTG	AGAACGAG	H06	#240	CCTGTCAA	CATCGTGA	H10	#272	CTAACCTG	CCTGTGAG
A03	#209	GTACCACA	CAGGAGAT	A07	#241	AACCAGAG	TACGCCCT	A11	#273	CTACAAGG	TCAACTGG
B03	#210	TACCTGCA	CTTCGTTC	B07	#242	AAGACCGT	CTTACCTG	B11	#274	GTCAACAG	CTTGTCCA
C03	#211	AGTCAACT	GCATACAG	C07	#243	AACAGCGA	TGCTTCCA	C11	#275	CACGTGAG	ACGTTGAG
D03	#212	CCAACGAA	GCCAGTAT	D07	#244	GCATTGGT	TCACAGCA	D11	#276	GATCTCAG	CACTAGCT
E03	#213	GAGCTCTA	GCCATAAC	E07	#245	AATTCCGG	TATCAGCG	E11	#277	AAGGACCA	TCGACATC
F03	#214	GTCATCGT	ACCATGTG	F07	#246	CACGTCTA	GTAGGAGT	F11	#278	GTGGTATG	AGAGTAGC
G03	#215	ACAGGCAT	CTAGGTGA	G07	#247	AACAGGTG	ATCACACG	G11	#279	AGCCTATC	TACACGCT
H03	#216	TGATCACG	GCTGACTA	H07	#248	GCCACTTA	GAAGGTTC	H11	#280	TTACCGAC	TCGAAGGT
A04	#217	CCGATGTA	CTACTTGG	A08	#249	AACAACCG	CACGTTGT	A12	#281	AGTGCACT	GTTTATGG
B04	#218	TCTACGCA	GATTGCTC	B08	#250	TGTGTCAG	CCGGAATT	B12	#282	TACAGAGC	ATCTCGCT
C04	#219	TAACGTGC	GTCATCGA	C08	#251	GAACGTGA	ACATTGCG	C12	#283	TTCTCTCT	TGCCTCTT
D04	#220	TAAGTGCC	GAGTGGTT	D08	#252	ATCATGCG	ACCATCCA	D12	#284	CTATGCTT	TAACGAGG
E04	#221	TCACGATG	CTGTTGAC	E08	#253	TACATCGG	GTCTCCTT	E12	#285	TGGAAGCA	AATGGACG
F04	#222	CACGCAAT	AACTGAGC	F08	#254	CTTCGCAA	GCTATCCT	F12	#286	GAAGACTG	AGCAAGCA
G04	#223	CAGTCACA	CGTTATGC	G08	#255	GAATGGCA	CGCATGAT	G12	#287	CGACCTAA	AGTTGGCT
H04	#224	TACTCCAG	GTTGACCT	H08	#256	TGCGTAAC	GTTGTTCC	H12	#288	TCTTACCG	CTGCACTT

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## egSEQ UDI Primer 289-384

Plate location	Index no.	i7 Index sequence	i5 Index sequence	Plate location	Index no.	i7 Index sequence	i5 Index sequence	Plate location	Index no.	i7 Index sequence	i5 Index sequence
A01	#289	GTTCTTCG	AAGCACTG	A05	#321	ACCTCAGT	ATCCAGAG	A09	#353	CGCAACTA	ACACGGTT
B01	#290	TGCTGTGA	GAGATGTC	B05	#322	CGAACAAAC	CATACCAC	B09	#354	CAGGTAAG	TAGAGCTC
C01	#291	TCTTCGAC	CGTATTCG	C05	#323	GCATAGTC	AACCGAAG	C09	#355	AAGGAGAC	CTAACTCG
D01	#292	CTTCGGTT	CGTGTACT	D05	#324	CGTATCTC	GCGTCTA	D09	#356	TCAGTAGG	ATCGGTGT
E01	#293	ACCTAGAC	AAGGACAC	E05	#325	GTGATCCA	ACCGCATA	E09	#357	CCACAACA	GTCGAAGA
F01	#294	CTCCTGAA	TACATCGG	F05	#326	CACGATTC	ACCAATGC	F09	#358	TACGACGT	AGGCATAG
G01	#295	CCATGAAC	AGGATCTG	G05	#327	CTAGGTG	ATGCCTGT	G09	#359	CGCTGATA	ACTGAGGT
H01	#296	GCATCCTA	CGTTGCAA	H05	#328	AAGCCTGA	AGCGGAAT	H09	#360	ACGTCCAA	CAGCGATT
A02	#297	CCGTAAC	GTCGGTAA	A06	#329	AACCGTGT	ATTGCGTG	A10	#361	ACATGGAG	CACCACTA
B02	#298	TGACCGT	CGAGACTA	B06	#330	AACAAGGC	AGCTTGAG	B10	#362	CAACTCCA	CATAACGG
C02	#299	AGCTACCA	AACGACGT	C06	#331	TCAGCCTT	TGAGGTGT	C10	#363	TACTGCTC	AGTCTCAC
D02	#300	ACGAGAAC	AGGTCAC	D06	#332	CATTGCTC	CAAGCAGT	D10	#364	TATGGCAC	AGGAGGAA
E02	#301	CCGTTATG	TCGAGTGA	E06	#333	GTTAAGCG	TGCGAACT	E10	#365	CGGTAATC	AGCGTGT
F02	#302	GACTACGA	CTCTACTC	F06	#334	CCAACCTC	GTCCTTCT	F10	#366	ACGATCAG	TCAGGCTT
G02	#303	CAGGTCA	ATATGCGC	G06	#335	ACACCGAT	CTCTGGTT	G10	#367	AGTTCGCA	TGTTGTGG
H02	#304	TGCACTTG	CGTGTGTA	H06	#336	GCAACCAT	CGAGTATG	H10	#368	TTGCGAGA	GAATCCGA
A03	#305	CTCTGTG	CCGATGTA	A07	#337	AGATTGCG	GAGCAGTA	A11	#369	GAGACCAA	ACGACAGA
B03	#306	GATCTTGC	TTCAGGAG	B07	#338	ACACCTCA	TAACCGGT	B11	#370	CTCGAACA	ACGATGAC
C03	#307	CGAGTTAG	CCTTCTT	C07	#339	ACAAGACG	CATGGCTA	C11	#371	ACTGCGAA	ACCTCTGT
D03	#308	ACCGGTTA	AGTTACGG	D07	#340	CCAGTGA	GAAGTTGG	D11	#372	AGAAGCCT	CAACCTAG
E03	#309	GTATCGAG	CTGAGATC	E07	#341	AATCGCTG	CGAAGAAC	E11	#373	GCCTTAAC	GCCACTTA
F03	#310	CGAATGTC	AGTCGACA	F07	#342	GTAGCGTA	ATGGTTC	F11	#374	CAACTGAC	ACAGCAAC
G03	#311	TCGCTATC	CTGCGTAT	G07	#343	CGAAGTCA	AGGATGGT	G11	#375	AGGTCTGT	TCACGTTC
H03	#312	GTATTCGG	TCGCATTG	H07	#344	CGATTGGA	TGTCGAG	H11	#376	CTATCCAC	GAGGACTT
A04	#313	GCTTCACA	GAACGCTT	A08	#345	ACGTATGG	AAGGCTGA	A12	#377	AGTCAGGT	AACGGTCA
B04	#314	GACTTGTG	GACGAATG	B08	#346	TCGTCTGA	ACTCCATC	B12	#378	CAACTGG	ACAGACCT
C04	#315	CTAGCTCA	CAAGTGCA	C08	#347	CTCACCAA	CGCTTAAC	C12	#379	TTACGTGC	CCTGATTG
D04	#316	CGAGAGAA	TTGACAGG	D08	#348	AACGCACA	GTATGCTG	D12	#380	AAGAGGCA	AGGCTTCT
E04	#317	CCTACCTA	AGTCTGTG	E08	#349	AGAGCAGA	GAATCGTG	E12	#381	TGTCAGTG	GACGATCT
F04	#318	CACACATC	AATACGGG	F08	#350	CATACTCG	CAACGGAT	F12	#382	AGACCTTG	ACCTGACT
G04	#319	AGCAGACA	CACAAGTC	G08	#351	CTCGGTAA	CATCTACG	G12	#383	CCAACACT	ACGTCGTA
H04	#320	ACCTTCGA	GCTGGATT	H08	#352	AAGTCTCT	ACTCGTTG	H12	#384	CACCTCAC	CCGTAAGA

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