



TWIST UNIVERSAL ADAPTER SYSTEM

UNIQUE DUAL INDEX SEQUENCES

This document provides the nucleotide sequences that comprise the Unique Dual Index (UDI) Primers of the Twist Universal Adapter System for use with Illumina sequencing technologies. The primers are configured in 96 well plates and are available in 16 or 96 sample formats. In the 96 sample format, 4 unique plates are available to allow for multiplexing 384 samples in a single sequencing run.

For technical support, contact customersupport@twistbioscience.com.

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PART NUMBER REFERENCE

Twist Universal Adapter System orderable part numbers and components.

PART #	PART NAME	COMPONENT NAME
101307	Twist Universal Adapter System - TruSeq Compatible, 16 Samples	Twist UDI Primers - TruSeq Compatible, 16 Samples
		Twist Universal Adapters - TruSeq Compatible, 16 Samples
101308	Twist Universal Adapter System - TruSeq Compatible, 96 Samples Plate A	Twist UDI Primers - TruSeq Compatible, 96 Samples Plate A
		Twist Universal Adapters - TruSeq Compatible, 96 Samples
101309	Twist Universal Adapter System - TruSeq Compatible, 96 Samples Plate B	Twist UDI Primers - TruSeq Compatible, 96 Samples Plate B
		Twist Universal Adapters - TruSeq Compatible, 96 Samples
101310	Twist Universal Adapter System - TruSeq Compatible, 96 Samples Plate C	Twist UDI Primers - TruSeq Compatible, 96 Samples Plate C
		Twist Universal Adapters - TruSeq Compatible, 96 Samples
101311	Twist Universal Adapter System - TruSeq Compatible, 96 Samples Plate D	Twist UDI Primers - TruSeq Compatible, 96 Samples Plate D
		Twist Universal Adapters - TruSeq Compatible, 96 Samples



16-UDI

Type: 16-UDI

Part Number: 101307

Name: Twist Universal Adapter System - TruSeq Compatible, 16 Samples

INDEX	WELL	i5 INDEX REFERENCE FOR SAMPLE SHEET (NovaSeq, MiSeq, HiSeq 2000/2500)	i5 INDEX REFERENCE FOR SAMPLE SHEET (iSeq, MiniSeq, NextSeq, HiSeq 3000/4000)	i7 INDEX REFERENCE FOR SAMPLE SHEET
1	A01	CGAGCACGTT	AACGTGCTCG	AGACGAAGTT
2	B01	TTCATAGGAC	GTCCTATGAA	TCACTACTAG
3	C01	CAGGTTATAC	GTATAACCTG	ACTGAGGTAA
4	D01	TCTCATCATG	CATGATGAGA	CTTATCTAGC
5	E01	TCAGTCGTTG	CAACGACTGA	TACACCATTG
6	F01	CAACAACCTCT	AGAGTTGTTG	GTAACGTCAA
7	G01	TCTAGGAACA	TGTTCCTAGA	TAGGTTGGAA
8	H01	CGATATGCTA	TAGCATATCG	AAGTGCACCT
9	A02	TTGGCTTGGT	ACCAAGCCAA	TGCTCGACAG
10	B02	AAGAACGTAG	CTACGTTCTT	AGGTGTTCTA
11	C02	AGCTCCACTG	CAGTGGAGCT	CCGAGAAGGT
12	D02	TGTGCGATTC	GAATCGCACA	GAAGCAATAG
13	E02	CTCAATGCTC	GAGCATTGAG	GTTAATCGCT
14	F02	TTGTTGTCAG	CTGACAACAA	TGTAACCTCA
15	G02	TATCCGCGGT	ACCGCGGATA	CCAGTATCTA
16	H02	CACAGCAAGA	TCTTGCTGTG	GTTCTCATAG



96-UDI

PLATE A

Type: 96-UDI

Part Number: 101308

Name: Twist Universal Adapter System—TruSeq Compatible, 96 Samples

INDEX	WELL	i5 INDEX REFERENCE FOR SAMPLE SHEET (NovaSeq, MiSeq, HiSeq 2000/2500)	i5 INDEX REFERENCE FOR SAMPLE SHEET (iSeq, MiniSeq, NextSeq, HiSeq 3000/4000)	i7 INDEX REFERENCE FOR SAMPLE SHEET
1	A01	CCAATATTCG	CGAATATTGG	TATCTTCAGC
2	B01	CGCAGACAAC	GTTGTCTGCG	TGCACGGATA
3	C01	TCGGAGCAGA	TCTGCTCCGA	GGTTGATAGA
4	D01	GAGTCCGTAG	CTACGGACTC	ACTCCTGCCT
5	E01	ATGTTCACGT	ACGTGAACAT	CCGATAGTCG
6	F01	TTCGATGGTT	AACCATCGAA	CAAGATCGAA
7	G01	TATCCGTGCA	TGCACGGATA	AGGCTCCTTC
8	H01	AAGCGCAGAG	CTCTGCCTT	ATACGGATAG
9	A02	CCGACTTAGT	ACTAAGTCGG	AATAGCCTCA
10	B02	TTCTGCATCG	CGATGCAGAA	CTGCAATCGG
11	C02	GGAAGTGCCA	TGGCACTTCC	CCTGAGTTAT
12	D02	AGATTCAACC	GGTTGAATCT	GACGTCCAGA
13	E02	TTCAGGAGAT	ATCTCTGAA	GAATAATCGG
14	F02	AAGGCGTCTG	CAGACGCCTT	CGGAGTGTGT
15	G02	ACGCTTGACA	TGTCAAAGCGT	TTACCGACCG
16	H02	CATGAAGTGA	TCACTTCATG	AGTGTTCCGC
17	A03	TTACGACCTG	CAGGTCGTAA	CTACGTTCTT
18	B03	ATGCAAGCCG	CGGCTTGCAT	TCGACACGAA
19	C03	CTCCGTATAC	GTATACGGAG	CCGATAACTT
20	D03	GAATCTGGTC	GACCAGATTC	TTGGACATCG
21	E03	CGGTCGGTAA	TTACCGACCG	AACGTTGAGA
22	F03	TCTGCTAATG	CATTAGCAGA	GGCCAGTGAA
23	G03	CTCTTATTCG	CGAATAAGAG	ATGTCTCCGG
24	H03	CACCTCTAGC	GCTAGAGGTG	GAAGGCGTTC
25	A04	TTACTTACCG	CGGTAAGTAA	TGTTCTTAGA
26	B04	CTATGCCTTA	TAAGGCATAG	CTCTCGAGGT
27	C04	GGAAGGTACG	CGTACCTTCC	CTGTACGGTA
28	D04	GAGGAGACGT	ACGTCTCCTC	CTTATGGCAA
29	E04	ACGCAAGGCA	TGCCTTGCGT	TCCGCATAGC
30	F04	TATCCTGACG	CGTCAGGATA	GCAAGCACCT



INDEX	WELL	i5 INDEX REFERENCE FOR SAMPLE SHEET (NovaSeq, MiSeq, HiSeq 2000/2500)	i5 INDEX REFERENCE FOR SAMPLE SHEET (iSeq, MiniSeq, NextSeq, HiSeq 3000/4000)	i7 INDEX REFERENCE FOR SAMPLE SHEET
31	G04	GAAGACCGCT	AGCGGTCTTC	GCCTGTCCTA
32	H04	CAACGTGGAC	GTCCACGTTG	ACTGTCTATC
33	A05	TAAGTGCTCG	CGAGCACTTA	CGTCCATGTA
34	B05	CACATCGTAG	CTACGATGTG	CTAACTGCAA
35	C05	ACTACCGAGG	CCTCGGTAGT	TGCTTGTGGT
36	D05	GATGTGTTCT	AGAACACATC	TGTAAGCACA
37	E05	AAGTGTCGTA	TACGACACTT	CTCGTTGCGT
38	F05	GGAGAACCAC	GTGGTTCTCC	GCTAGAGGTG
39	G05	TGTACGAACT	AGTTCGTACA	AAGCGGAGAA
40	H05	GGATGAGTGC	GCACTCATCC	AATGACGCTG
41	A06	TAGTAGGACA	TGTCCTACTA	TTGGTACGCG
42	B06	ACGCCTCGTT	AACGAGGCGT	TGAAGGTGAA
43	C06	CACCGCTGTT	AACAGCGGTG	GTAGTGGCTT
44	D06	TCTATAGCGG	CCGCTATAGA	CGTAACAGAA
45	E06	CCGATGGACA	TGTCCATCGG	AAGGCCATAA
46	F06	TTCAACATGC	GCATGTTGAA	TTCATAGACC
47	G06	GGAGTAACGC	GCGTTACTCC	CCAACTCCGA
48	H06	AGCCTTAGCG	CGCTAAGGCT	CACGAGTATG
49	A07	TTACCTCAGT	ACTGAGGTAA	CCGCTACCAA
50	B07	CAGGCATTGT	ACAATGCCTG	CTGAACCTCC
51	C07	GTGTTCCACG	CGTGGAACAC	GGCCTTGTTA
52	D07	TTGATCCGCC	GGCGGATCAA	TTAACGCAGA
53	E07	GGAGGCTGAT	ATCAGCCTCC	AGGTAGTGCG
54	F07	AACGTGACAA	TTGTACGTT	CGTGTAACCT
55	G07	CACAAGCTCC	GGAGCTTGTG	ACTTGTGACG
56	H07	CCGTGTTGTC	GACAACACGG	CCATGCGTTG
57	A08	TTGAGCCAGC	GCTGGCTCAA	CCTTGTAGCG
58	B08	GCGTTACAGA	TCTGTAACGC	ACATACGTGA
59	C08	TCCAGACATT	AATGTCTGGA	CTTGATATCC
60	D08	TCGAACTCTT	AAGAGTTCGA	CAGCCGATGT
61	E08	ACCTTCTCGG	CCGAGAAGGT	TCATGCGCTA
62	F08	AGACGCCAAC	GTTGGCGTCT	ACTCCGTCCA
63	G08	CAACCGTAAT	ATTACGGTTG	GACAGCCTTG
64	H08	TTATGCGTTG	CAACGCATAA	CGGTTATCTG



INDEX	WELL	i5 INDEX REFERENCE FOR SAMPLE SHEET (NovaSeq, MiSeq, HiSeq 2000/2500)	i5 INDEX REFERENCE FOR SAMPLE SHEET (iSeq, MiniSeq, NextSeq, HiSeq 3000/4000)	i7 INDEX REFERENCE FOR SAMPLE SHEET
65	A09	CTATGAGAAC	GTTCTCATAG	TACTCCACGG
66	B09	AAGTTACACG	CGTGTAACCT	ACTTCCGGCA
67	C09	GCAATGTGAG	CTCACATTGC	GTGAAGCTGC
68	D09	CGAAGTCGCA	TGCGACTTCG	TTGCTCTTCT
69	E09	CCTGATTCAA	TTGAATCAGG	AACGCACGTA
70	F09	TAGAACGTGC	GCACGTCTTA	TTACTGCAGG
71	G09	TTCGCAAGGT	ACCTTGCGAA	CCAGTTGAGG
72	H09	TTAATGCCGA	TCGGCATTAA	TGTGCGTTAA
73	A10	AGAACAGAGT	ACTCTGTTCT	ACTAGTGCTT
74	B10	CCATCTGTTC	GAACAGATGG	CGTGGAACAC
75	C10	TTCGTAGGTG	CACCTACGAA	ATGGAAGTGG
76	D10	GCACGGTACA	TGTACCGTGC	TGAGATCACA
77	E10	TGTCAAGAGG	CCTCTTGACA	GTCCTTGGTG
78	F10	TCTAAGGTAC	GTACCTTAGA	GAGCGTGGAA
79	G10	GAACGGAGAC	GTCTCCGTTC	CACACGCTGT
80	H10	CGCTACCATC	GATGGTAGCG	TGTTGTACA
81	A11	TTACGGTAAC	GTTACCGTAA	ATCACTCACA
82	B11	TTCAGATGGA	TCCATCTGAA	CGGAGGTAGA
83	C11	TAGCATCTGT	ACAGATGCTA	GAGTTGACAA
84	D11	GGACGAGATC	GATCTCGTCC	GCCGAACCTG
85	E11	AGGTTCTGTT	AACAGAACCT	AGGCCTCACA
86	F11	CATACTCGTG	CACGAGTATG	TCTCTGTTAG
87	G11	CCGGATACCA	TGGTATCCGG	TCCGACGATT
88	H11	ATGTCCACCG	CGGTGGACAT	AGGCTATGTT
89	A12	CACCAAGTGG	CCACTTGGTG	CGTTCTCTTG
90	B12	TTGAGTACAC	GTGTAACCAA	TTGTCTATGG
91	C12	CGGTTCCGTA	TACGGAACCG	GATGGATACA
92	D12	GGAGGTCCTA	TAGGACCTCC	CACTTAGGCG
93	E12	CCTGCTTGGA	TCCAAGCAGG	ACACTGGCTA
94	F12	TTCACGTCAG	CTGACGTGAA	ATCGCCACTG
95	G12	AACATAGCCT	AGGCTATGTT	CTGACGTGAA
96	H12	TGACATAGTC	GACTATGTCA	TCAATCGTCT



PLATE B

Type: 96-UDI

Part Number: 101309

Name: Twist Universal Adapter System—TruSeq Compatible, 96 Samples

INDEX	WELL	i5 INDEX REFERENCE FOR SAMPLE SHEET (NovaSeq, MiSeq, HiSeq 2000/2500)	i5 INDEX REFERENCE FOR SAMPLE SHEET (iSeq, MiniSeq, NextSeq, HiSeq 3000/4000)	i7 INDEX REFERENCE FOR SAMPLE SHEET
97	A01	TTGGCTCATA	TATGAGCCAA	ATCGCCTATA
98	B01	CAGAATACGG	CCGTATTCTG	CGGATTCCTG
99	C01	TGTATAGGTC	GACCTATACA	TCACACGTGG
100	D01	GTATAACACA	TGTGGTATAC	GCAGCATTCC
101	E01	AACTGGACGG	CCGTCCAGTT	CCGTGGTGAA
102	F01	TGTGAGTGAT	ATCACTCACA	CACAGAACGG
103	G01	AACTCAGCAA	TTGCTGAGTT	ATGGATCGAA
104	H01	AGACGATTGA	TCAATCGTCT	GGTCTCACCT
105	A02	CGGCTTGTTT	GAACAAGCCG	CAACACCGTA
106	B02	TTCCGTGCTG	CAGCACGGAA	CGAATATTGG
107	C02	CGAATACGAT	ATCGTATTCG	TAATTCCAGC
108	D02	ACCTCACCAG	CTGGTGAGGT	GTCGCGGTTA
109	E02	TTCGTACACC	GGTGTACGAA	TTCTGCGTCG
110	F02	AAGTACGAGA	TCTCGTACTT	ACGCATACTT
111	G02	TCGGACCTCT	AGAGGTCCGA	GGCTGCACAA
112	H02	CCGCCTTGTA	TACAAGGCGG	ACCAAGCCAA
113	A03	GCGTATGAGC	GCTCATACGC	CCAATTGTCC
114	B03	TTGAGCTCTG	CAGAGCTCAA	CAGACGCCTT
115	C03	AACGTACCGT	ACGGTACGTT	AATTGCCAGA
116	D03	GGCCTTCACA	TGTGAAGGCC	TGATACCAGA
117	E03	TGTGCACTGG	CCAGTGCACA	GAGGTTGTTA
118	F03	GGATACAGGT	ACCTGTATCC	AGAGTATCAG
119	G03	CCAATGTTAC	GTAACATTGG	CTGGCGTATG
120	H03	GCTATGCGGA	TCCGCATAGC	GGTCATCTCG
121	A04	CCAGAATCTA	TAGATTCTGG	TGTCGAACAA
122	B04	CCAATTAGCA	TGCTAATTGG	GTGGCACGAA
123	C04	CGTGTTATGA	TCATAACACG	AAGCCTTAGA
124	D04	TGTGCCGGTT	AACCGGCACA	CGCTAAGGCT
125	E04	CACCAGAAGT	ACTTCTGGTG	AATCACGACC
126	F04	TCTGCGTTAA	TTAACGCAGA	GTAGCTGTCTG
127	G04	AGCTTAGAGG	CCTCTAAGCT	CACGTAAGGT
128	H04	TTGCGACCAC	GTGGTCGCAA	TCACTTCATG



INDEX	WELL	i5 INDEX REFERENCE FOR SAMPLE SHEET (NovaSeq, MiSeq, HiSeq 2000/2500)	i5 INDEX REFERENCE FOR SAMPLE SHEET (iSeq, MiniSeq, NextSeq, HiSeq 3000/4000)	i7 INDEX REFERENCE FOR SAMPLE SHEET
129	A05	CGAAGTCTAG	CTAGACTTCG	GTTGGCGTCT
130	B05	GCTGAAGATA	TATCTTCAGC	CACACGCCAA
131	C05	TCTGTTAGAC	GTCTAACAGA	ACACTGTGAA
132	D05	TGTACAACCA	TGGTTGTACA	CGATTGTTCT
133	E05	CTATTGTGTG	CACACAATAG	TCGGCTACTG
134	F05	GAAGCAGCTG	CAGCTGCTTC	TTGTAAGAGG
135	G05	CCGCAGTAGT	ACTACTGCGG	CGAGTCCGTT
136	H05	AAGGTTGCTT	AAGCAACCTT	GTGTACTCAA
137	A06	CTCTTTCTA	TAGAAGAGAG	GCGTGACGTT
138	B06	GGATCTTGTG	CACAAGATCC	AGGCGTCTGA
139	C06	AGCGATTAAC	GTTAATCGCT	ACTTACGAGG
140	D06	GAAGGCATAA	TTATGCCTTC	CAGGTCGTAA
141	E06	AGCAGACTAA	TTAGTCTGCT	TACGCTAGTT
142	F06	AAGCACTAGT	ACTAGTGCTT	TCTGTCGTGC
143	G06	TTAGACAGCG	CGCTGTCTAA	GATCTTGGA
144	H06	TTAGGCACAA	TTGTGCCTAA	TGGAGAGCCA
145	A07	TTCCGGCACT	AGTGCCGGAA	ACCAATCTCG
146	B07	TTGTATGGCT	AGCCATACAA	GTCGTGACAC
147	C07	TGGATCGATT	AATCGATCCA	TCTCTAGTCG
148	D07	CGGAATCACC	GGTGATTCCG	ATTACGGTTG
149	E07	GAGCTATCTA	TAGATAGCTC	CGGTAAGTAA
150	F07	ACCTCGAGAG	CTCTCGAGGT	TAACGTCCGG
151	G07	CCGAATTCAC	GTGAATTCGG	GAACACAGTT
152	H07	AACGTCACGC	GCGTGACGTT	AGGTCTATA
153	A08	TTGGTGTTCC	GGAACACCAA	TTGACCTAGC
154	B08	CCAGGTGGAA	TTCCACCTGG	GCTTCAATCA
155	C08	TCATACCGAT	ATCGGTATGA	TGCGTGCGAA
156	D08	CGACGGTTGT	ACAACCGTCG	AATGGTACCT
157	E08	CACTCACACG	CGTGTGAGTG	TGTATCGCGA
158	F08	TTGGCCACGA	TCGTGGCCAA	GTAACATTGG
159	G08	AATCGGTCGC	GCGACCGATT	CAACAATTCTG
160	H08	AGAACAATCG	CGATTGTTCT	GCGTGTCATG
161	A09	CTATCGAAGT	ACTTCGATAG	TAGATCCGAA
162	B09	TCGGCCTGAA	TTCAGGCCGA	TCTTAACTGG



INDEX	WELL	i5 INDEX REFERENCE FOR SAMPLE SHEET (NovaSeq, MiSeq, HiSeq 2000/2500)	i5 INDEX REFERENCE FOR SAMPLE SHEET (iSeq, MiniSeq, NextSeq, HiSeq 3000/4000)	i7 INDEX REFERENCE FOR SAMPLE SHEET
163	C09	TCACTGTTCT	AGAACAGTGA	GTCACATCCG
164	D09	GGTATCTAAC	GTTAGATACC	TGAAGCATCT
165	E09	CGTATTAAGG	CCTTAATACG	CGGACTACTT
166	F09	TAGGAGTGTC	GACACTCCTA	AACGGAGTCC
167	G09	CTCCGAACTC	GAGTTCCGGAG	AGGTGTGACC
168	H09	ATGTCTCTCG	CGAGAGACAT	CCAGAGTTCC
169	A10	AGGTGCACTT	AAGTGACCT	CCAGTGATTG
170	B10	TTGGCCGCAT	ATGCGGCCAA	GACTGACATA
171	C10	GGTGTCTGAG	CTCAGACACC	GCGATCCTTG
172	D10	CCGTGCCATT	AATGGCACGG	TGTTCCACTT
173	E10	AAGATGACGA	TCGTCATCTT	ATCCAATAGG
174	F10	TGTATTGCCA	TGGCAATACA	AGACCGTTAA
175	G10	AACCATCGGC	GCCGATGGTT	ACTATTGACC
176	H10	CGTGCAACCT	AGGTTGCACG	GCCTAATTCC
177	A11	TTCTTGAGTG	CACTCAAGAA	GTAGGTACAA
178	B11	TCTGCAACAA	TTGTTGCAGA	TGCGACTTCG
179	C11	CCGCTACACA	TGTGTAGCGG	TTGTCACGTT
180	D11	CTCTGTCAGG	CCTGACAGAG	CAACGACTGA
181	E11	TTAACGGTCT	AGACCGTTAA	GATTCGGCTA
182	F11	CGATGACCTT	AAGGTCATCG	TGGTGGCTAG
183	G11	AGGCAGGAGT	ACTCCTGCCT	AGGCCAGGAT
184	H11	AACGGACTCG	CGAGTCCGTT	AACGCCTGTG
185	A12	TTGTTCCGGC	GCCGAACCAA	CGTGTGAGTG
186	B12	CGCACTACCT	AGGTAGTGCG	CGTATGTGAA
187	C12	CCATACCACG	CGTGGTATGG	TACGTCACAA
188	D12	GAATTCGGTA	TACCGAATTC	GGAAGATCCG
189	E12	AGTCCTCCAC	GTGGAGGACT	CATGTCAGCT
190	F12	TAGTCATTCG	CGAATGACTA	ACAGCGTCAC
191	G12	TTGAGGTCGC	GCGACCTCAA	TGTTACAAGG
192	H12	CAACGTTATG	CATAACGTTG	CTTATAGAGG



PLATE C

Type: 96-UDI

Part Number: 101310

Name: Twist Universal Adapter System—TruSeq Compatible, 96 Samples

INDEX	WELL	i5 INDEX REFERENCE FOR SAMPLE SHEET (NovaSeq, MiSeq, HiSeq 2000/2500)	i5 INDEX REFERENCE FOR SAMPLE SHEET (iSeq, MiniSeq, NextSeq, HiSeq 3000/4000)	i7 INDEX REFERENCE FOR SAMPLE SHEET
193	A01	CGGAGGAATG	CATTCCTCCG	TCGAAGTCAA
194	B01	GAGTCAGCCA	TGGCTGACTC	CGAGGCCTAT
195	C01	GGAATTAGGC	GCCTAATTCC	TCCTGAAGTG
196	D01	TTCGCCACAC	GTGTGGCGAA	AATCCTTACC
197	E01	CCTCGCTTAC	GTAAGCGAGG	TTGTTGCAGA
198	F01	ACAGCGTGTG	CACACGCTGT	AATCTAGGCC
199	G01	TTCCGCTTCT	AGAAGCGGAA	GGCTCTACTG
200	H01	CAGCGTCATT	AATGACGCTG	GTCCACGTTG
201	A02	CCGTAGAACA	TGTTCTACGG	CTCCGCAGTT
202	B02	CGGTTATCGT	ACGATAACCG	AGAACAGTGA
203	C02	TCTGGTATCA	TGATACCAGA	GCTCTTATTG
204	D02	AAGTATGCGT	ACGCATACTT	TGTAGACGAA
205	E02	TTCTTCGAG	CTCGAAGGAA	CTTGTCGTCG
206	F02	GCTATGGATA	TATCCATAGC	TCGTCTTACA
207	G02	AGGTACCATT	AATGGTACCT	GAGAGGAGGA
208	H02	TTACGGAGTC	GACTCCGTAA	GTTAGATACC
209	A03	TGAGGACTTA	TAAGTCTCA	GGCTTAAGAA
210	B03	TTGAGTTGCC	GGCAACTCAA	TCTGGTACAA
211	C03	AGCTTCGCGA	TCGCGAAGCT	GTGAATTCGG
212	D03	CATACGCCAG	CTGGCGTATG	GAATGGAGAA
213	E03	CAAGACCAGC	GCTGGTCTTG	AGTCAATTGG
214	F03	GATAGACAGT	ACTGTCTATC	CGCATCACCT
215	G03	CGCTCGTGAA	TTCACGAGCG	TATTGACACC
216	H03	TCTCTAACAG	CTGTTAGAGA	AGACTGTCCG
217	A04	ACCTAGGAGG	CCTCCTAGGT	ATCTGGACTC
218	B04	TCTGTACCTT	AAGGTACAGA	GAGAATAAGG
219	C04	CTCAGGCCAT	ATGGCCTGAG	TGTTGTCGCC
220	D04	TTGTGCAGCC	GGCTGCACAA	CTGCGGTGTT
221	E04	TAGCCGAATC	GATTCGGCTA	GATAACTCCG
222	F04	AAGCCTGTTA	TAACAGGCTT	ATCCTTGTAC
223	G04	TGTACAGTAG	CTACTGTACA	TACGCGTATA
224	H04	CGATTCTGCC	GGCAGAATCG	CCACCAATTG



INDEX	WELL	i5 INDEX REFERENCE FOR SAMPLE SHEET (NovaSeq, MiSeq, HiSeq 2000/2500)	i5 INDEX REFERENCE FOR SAMPLE SHEET (iSeq, MiniSeq, NextSeq, HiSeq 3000/4000)	i7 INDEX REFERENCE FOR SAMPLE SHEET
225	A05	TTGCTAAGGA	TCCTTAGCAA	TGTGAAGGCC
226	B05	ACTCCTTGGC	GCCAAGGAGT	CCTTGACTGC
227	C05	GAAGGCGAAC	GTTGCGCTTC	AATGCGTCGG
228	D05	CAATACCTTG	CAAGGTATTG	AAGACTACAC
229	E05	CGACGACAAG	CTTGTCGTCG	GTCAGTGACG
230	F05	GAACCTGACC	GGTCAGGTTC	CTCACCAGAA
231	G05	TTGCCTCGCA	TGCGAGGCAA	TCTCGTACTT
232	H05	TTCGTGTCGA	TCGACACGAA	TCAGATTAGG
233	A06	TGGATGGCAA	TTGCCATCCA	CACTCAAGAA
234	B06	TTCACCAGCT	AGCTGGTGAA	AGAGCCATTC
235	C06	CCTGAGTAGC	GCTACTCAGG	CACGATTCCG
236	D06	AGGTGTCCGT	ACGGACACCT	TTGGAGCCTG
237	E06	GTCTGGTTGC	GCAACCAGAC	TTACGACTTG
238	F06	CTCTTAGATG	CATCTAAGAG	TTAAGGTCGG
239	G06	TATCACCTGC	GCAGGTGATA	GGTTCGTCA
240	H06	CAGAGGCAAG	CTTGCCTCTG	GATACGCACC
241	A07	CCGGTCAACA	TGTTGACCGG	TCGCGAAGCT
242	B07	TCACGAGGTG	CACCTCGTGA	GTTAAGACGG
243	C07	CCATAGACAA	TTGTCTATGG	CCGGTCATAC
244	D07	GAGCTTGGAC	GTCCAAGCTC	GTCAGCTTAA
245	E07	TACGGTGTTG	CAACACCGTA	ACCGCGGATA
246	F07	TTCAACTCGA	TCGAGTTGAA	GTTGCATCAA
247	G07	AAGGCAGGTA	TACCTGCCTT	TGTGCACCAA
248	H07	CGGCCAATTC	GAATTGGCCG	ATCTGTGGTC
249	A08	CAACCGGACA	TGTCCGGTTG	CACAAGATCC
250	B08	AACTTGGCCG	CGGCCAAGTT	CTGCTAGCTG
251	C08	TGGAACATAG	CTATGTTCCA	ACCGGTCGAA
252	D08	TTCGGATCTA	TAGATCCGAA	GCACGTTCTA
253	E08	CGGAATCGTG	CACGATTCCG	AAGGAAGGAA
254	F08	TCTAATCGGT	ACCGATTAGA	AGAGAGATAG
255	G08	GCTGGAATTA	TAATTCCAGC	GGTTCCTATT
256	H08	CGCTTCTCAC	GTGAGAAGCG	TTCACGAGCG
257	A09	TAGACTCCTG	CAGGAGTCTA	GGCACAACCT
258	B09	CCGTTGATTG	CAATCAACGG	TGACTCAGAA



INDEX	WELL	i5 INDEX REFERENCE FOR SAMPLE SHEET (NovaSeq, MiSeq, HiSeq 2000/2500)	i5 INDEX REFERENCE FOR SAMPLE SHEET (iSeq, MiniSeq, NextSeq, HiSeq 3000/4000)	i7 INDEX REFERENCE FOR SAMPLE SHEET
259	C09	CGAACCTCCA	TGGAGGTTCCG	CGATCTCAGG
260	D09	TTGGAAGTTG	CAACTTCCAA	CCTGCTGGAA
261	E09	CCAGGAGTAC	GTACTCCTGG	GAGCTGTATA
262	F09	AGGTTCGTCTG	CGACGAACCT	AACCTGACGG
263	G09	GACCTGAAGA	TCTTCAGGTC	AAGCTCGTGG
264	H09	TTAACGCACA	TGTGCGTTAA	GTCCAAGCTC
265	A10	TCGGAGTTGG	CCAACTCCGA	CTAGACTTCG
266	B10	CGATGACTCC	GGAGTCATCG	TCCAAGGTAA
267	C10	TATAGGTTGG	CCAACCTATA	CTTGGTAGCA
268	D10	GACAAGTGTT	AACACTTGTC	AACGAGGCGT
269	E10	TTCTCCGGAA	TTCCGGAGAA	CAGAAGATGG
270	F10	ACACACTCCG	CGGAGTGTGT	TGATACATCC
271	G10	CTGGTCACTA	TAGTGACCAG	GCGCGTAGTT
272	H10	TTCGTGCCAC	GTGGCACGAA	GTTGTCTGCG
273	A11	AGATCATGGA	TCCATGATCT	CTTAGCGCTG
274	B11	GAGTATGTAC	GTACATACTC	ATCAGCCTCC
275	C11	TAGAACACCT	AGGTGTTCTA	TGCAGTGCTC
276	D11	CCAGTTAAGA	TCTTAACTGG	GAGCTCAGAC
277	E11	CGCTTATCTG	CAGATAAGCG	ACCTGGACAA
278	F11	GAGCTCTTAC	GTAAGAGCTC	CAACTTCCAA
279	G11	TCTCAAGGCG	CGCCTTGAGA	CCATCCTGTG
280	H11	CTAAGTACCA	TGGTACTTAG	GGCAGTTAGA
281	A12	TCGACAAGCC	GGCTTGTCGA	TCACATGAGA
282	B12	TTCGACATCA	TGATGTCGAA	TATTCGTTGG
283	C12	AGTGGTACTT	AAGTACCACT	AGCGGTCTTC
284	D12	TTGCACTTGT	ACAAGTGCAA	GCGACCGATT
285	E12	GTCTTCGCAG	CTGCGAAGAC	GATCTCGTCC
286	F12	CAGGCTCCAA	TTGGAGCCTG	CCATTATAGG
287	G12	CCAGGTTACG	CGTAACTGG	ACAGACCACG
288	H12	CAATCGCCTA	TAGGCGATTG	ATTCCACACA

**PLATE D**

Type: 96-UDI

Part Number: 101311

Name: Twist Universal Adapter System—TruSeq Compatible, 96 Samples

INDEX	WELL	i5 INDEX REFERENCE FOR SAMPLE SHEET (NovaSeq, MiSeq, HiSeq 2000/2500)	i5 INDEX REFERENCE FOR SAMPLE SHEET (iSeq, MiniSeq, NextSeq, HiSeq 3000/4000)	i7 INDEX REFERENCE FOR SAMPLE SHEET
289	A01	CTACACTATG	CATAGTGTAG	CCGGAACGAA
290	B01	AAGAAGATCC	GGATCTTCTT	AGCAAGACAG
291	C01	CACGGTGTAT	ATACACCGTG	GGTTGAATCT
292	D01	CGGTAAGTGG	CCACTTACCG	TCAACACTCT
293	E01	CCAGACTGAG	CTCAGTCTGG	TATGAGCCAA
294	F01	GCTAGGTCAA	TTGACCTAGC	ATATTGGAGC
295	G01	GGTGCCTCAT	ATGAGGCACC	AACTCGTTAG
296	H01	TAACAACCTC	GAGGTTGTTA	TATCCATAGC
297	A02	TTGGCAAGAA	TTCTTGCCAA	TCACCATACC
298	B02	GGAAGTGGTT	AACCACTTCC	CTGCGAAGAC
299	C02	TCTAACCTTC	GAAGGTTAGA	GTGTGGCGAA
300	D02	GTATGACCGG	CCGGTCATAC	AAGGTGGTTG
301	E02	CCTGTGTATT	AATACACAGG	CGCTCGATTG
302	F02	TTCTCCGCTT	AAGCGGAGAA	GTGTCGGATT
303	G02	CCACTGGTAA	TTACCAGTGG	CCACAACATG
304	H02	AATCCGACAC	GTGTCGGATT	TCCGATGGAA
305	A03	TTCACCTTCA	TGAAGGTGAA	CAGATAAGCG
306	B03	TATAGGACCT	AGGTCCTATA	TGATGTCGAA
307	C03	TTACCGTGAT	ATCACGGTAA	ACCTTCTAGA
308	D03	ACGTTAGAGT	ACTCTAACGT	AGTTCGGCTC
309	E03	CAGCGCTAAG	CTTAGCGCTG	TTAGTCTGCT
310	F03	ACAGGTAICT	GAGTACCTGT	TGTCGGCGAT
311	G03	CTAGATAGCA	TGCTATCTAG	ACTTAACACC
312	H03	TTGGACCTTA	TAAGGTCCAA	GCCAAGGAGT
313	A04	TGTAGCACAG	CTGTGCTACA	GCAAGGTTCC
314	B04	TTGACGTCTT	AAGACGTCAA	ATAGGACACA
315	C04	CCATCTCCGT	ACGGAGATGG	GAATGTGTTG
316	D04	CTAACAGAGA	TCTCTGTTAG	TGCATGTTAC
317	E04	ACCTTACGTG	CACGTAAGGT	TGCCTTGCGT
318	F04	AGGTGCTTGC	GCAAGCACCT	AGTAACACGG
319	G04	GACTAGGTCC	GGACCTAGTC	CACAACCGAA
320	H04	TCGAAGTTCT	AGAACTTCGA	ACGGACACCT



INDEX	WELL	i5 INDEX REFERENCE FOR SAMPLE SHEET (NovaSeq, MiSeq, HiSeq 2000/2500)	i5 INDEX REFERENCE FOR SAMPLE SHEET (iSeq, MiniSeq, NextSeq, HiSeq 3000/4000)	i7 INDEX REFERENCE FOR SAMPLE SHEET
321	A05	CTATCTCTCT	AGAGAGATAG	CGTTACAGCG
322	B05	CCGTTCTCCT	AGGAGAACGG	ACCATGGTGT
323	C05	ATGCCGTAAC	GTTACGGCAT	ACTGCCTCGA
324	D05	CAAGCTATTC	GAATAGCTTG	GACCAGATTC
325	E05	GGTCACACCT	AGGTGTGACC	CGCCTTCTTG
326	F05	TCTGTGAAGA	TCTTCACAGA	TAAGGTCCAA
327	G05	TTCGATCTTG	CAAGATCGAA	GCGTAATACA
328	H05	TACCGCGGAA	TTCCGCGGTA	GGTAACGCCT
329	A06	TGGACGGAGT	ACTCCGTCCA	ACAGCATAGA
330	B06	CGTTGACTAT	ATAGTCAACG	AGATGGATGG
331	C06	GAAGGTCAGA	TCTGACCTTC	GAACATGCAA
332	D06	ATCGCCGACA	TGTCGGCGAT	CCATCCACGA
333	E06	AAGACGACTT	AAGTCGTCTT	TGCTCCTGTC
334	F06	CGGTTACGAG	CTCGTAACCG	CTTCAGCAGG
335	G06	TGACCAGCAC	GTGCTGGTCA	TTGCTGAGTT
336	H06	CATGTTGTGG	CCACAACATG	AACAGAACCT
337	A07	TGCAGAAGCT	AGCTTCTGCA	CATTCTCCG
338	B07	GTGCGATCGA	TCGATCGCAC	TAGCGACGAA
339	C07	GCTCATTAT	ATGAATGAGC	TCTATCCTGG
340	D07	TTCGAGTGTA	TACTACTCGAA	AGCTTGTCTC
341	E07	CCACTTCCAT	ATGGAAGTGG	CGACAGCAGT
342	F07	CAGTGGCTTA	TAAGCCACTG	GTAAGTGGAA
343	G07	TCCTCCAGTG	CACTGGAGGA	GAGTATACGT
344	H07	AATGGCACAC	GTGTGCCATT	TGGAATCTTG
345	A08	GGAGTGAGCT	AGCTCACTCC	GTACAACGAA
346	B08	CCTCTTACAA	TTGTAAGAGG	TCGTCATCTT
347	C08	CTAGCAGACG	CGTCTGCTAG	TTGAGTGCGG
348	D08	CACTATGGCG	CGCCATAGTG	CTAGGCTAGA
349	E08	TAGATACTGG	CCAGTATCTA	CCTGACAGAG
350	F08	TAGGACAGGC	GCCTGTCTTA	TGTGGTATAC
351	G08	AACTAGCGTA	TACGCTAGTT	CTTAAGTGAC
352	H08	GGTACTGCTG	CAGCAGTACC	CACAATCTCT
353	A09	CCAGAATGGC	GCCATTCTGG	GCCGAACCAA
354	B09	TTCTGAGTCA	TGACTCAGAA	TGTCAAGCGT



INDEX	WELL	i5 INDEX REFERENCE FOR SAMPLE SHEET (NovaSeq, MiSeq, HiSeq 2000/2500)	i5 INDEX REFERENCE FOR SAMPLE SHEET (iSeq, MiniSeq, NextSeq, HiSeq 3000/4000)	i7 INDEX REFERENCE FOR SAMPLE SHEET
355	C09	GGCCTAGATT	AATCTAGGCC	CTTGGCAGTG
356	D09	CGAACCACAG	CTGTGGTTCG	GCAATGTCCG
357	E09	GCGTAATGTT	AACATTACGC	ACATCGGCCT
358	F09	GAAGTGA CTC	GAGTCACTTC	GGTCCTCAGA
359	G09	AGACCTCCGT	ACGGAGGTCT	TGCGGATCTG
360	H09	CGGATCGGAT	ATCCGATCCG	CAGCTGCTTC
361	A10	TTGAATCTCC	GGAGATTCAA	TCGATCGCAC
362	B10	GCAACCTATA	TATAGGTTGC	GTACATACTC
363	C10	ATAGGCCTCG	CGAGGCCTAT	CTCGAAGGAA
364	D10	TCTCATGTGA	TCACATGAGA	GAATCCGTGG
365	E10	CACGGCTAGT	ACTAGCCGTG	ACGTGAACAT
366	F10	CCTCCTTATT	AATAAGGAGG	AGTCCACGAA
367	G10	GTGTCACGAC	GTCGTGACAC	TTCTATTGCG
368	H10	TCTGTGACAT	ATGTCACAGA	CATATGACGG
369	A11	GTAACATGCA	TGCATGTTAC	CCTCGGTAGT
370	B11	CACTGCCAAG	CTTGGCAGTG	TGGTGAACCT
371	C11	TAGCTGAGGT	ACCTCAGCTA	CGTCTTCGAA
372	D11	CCAGGATAGA	TCTATCCTGG	TCCATCTGAA
373	E11	TTGCATGACA	TGTCATGCAA	ATACGAACGG
374	F11	ACGCAACGAG	CTCGTTGCGT	CGCCTTGAGA
375	G11	TTGTGTGATG	CATCACACAA	GCATCAGTCG
376	H11	CAAGAGCTGG	CCAGCTCTTG	GCTAATCTTC
377	A12	TTGCGTCCGA	TCGGACGCAA	TTACGTTCGA
378	B12	CCACCTTGAG	CTCAAGGTGG	AGTATCTTGC
379	C12	CGAGCGATAG	CTATCGCTCG	GTCTAACAGA
380	D12	CTCGGCTTCA	TGAAGCCGAG	GCAGGTGATA
381	E12	GTGACGCTGT	ACAGCGTCAC	AGGCTTACCA
382	F12	TCTGGCAATT	AATTGCCAGA	TCATAACACG
383	G12	TCTAGCTAAC	GTTAGCTAGA	TCCAACCTCT
384	H12	AGATGGTTAG	CTAACCATCT	CGCTGTCTAA