

UDI Indexing Primer Information Sheet (Set C, IDT from 2018, 8bp's)

Design:

Nxtera with 8bp long indexes

The Nxtera design is an Illumina library design that is used by tagmentation based NGS Library Preparation using the TruS transposase. The grafting part of the indexing PCR primers are identical for Nxtera and the older TruSeq design, but the sequencing primer is specific for Nxtera. Unique Dual Indexing (UDI) refers to an unique combination of a P5 indexing PCR primer and a P7 indexing PCR primer. So for the final PCR amplification please only use one of these 96 combinations of P5 and P7 indexing PCR primers to achieve unique dual indexing. P5 and P7 indexing PCR primers to be called index hopping on the sequencer flowcell. If you want to learn more about index hopping and UDIs please read here: <https://emea.illumina.com/techniques/sequencing/ngs-library-prep/multiplexing/index-hopping.html>

For ordering of oligos please use the sequences given in column E (P5 indexing primers) and column L (P7 indexing primers).

When submitting libraries that are made with this Indexing PCR Primers please specify in the notes L in the sample submission dialog or sheet the used index combination as given in column A 'UDI_Name'

Important information for sample submission:

P5 Indexing PCR Primer

grafting part AATGATAGCGGGACCCAGGATCTAAC
sequencing primer part TGTGGCGAGGCTTC

UDI_Name	Oligo Name	Index Name	Index Sequence	PCR Primer (order these Oligos in NGS quality, * indicates a phosphothioate to block exonucleases)
UDI 193_ UDI P5 193	NXT UDI P5 UDI 193	UDI 193	ACGTTCTC	5'-AAATGATAGCGGGACCCAGGATCTAAC ACCCTCTC *TCGTGGCGAGCTCC*
UDI 194_ UDI P5 194	NXT UDI P5 UDI 194	UDI 194	TGTGGATG	5'-AAATGATAGCGGGACCCAGGATCTAAC TCGTGGAT *TCGTGGCGAGCTCC*
UDI 195_ UDI P5 195	NXT UDI P5 UDI 195	UDI 195	GTTGATGG	5'-AAATGATAGCGGGACCCAGGATCTAAC GTTGAATG *TCGTGGCGAGCTCC*
UDI 196_ UDI P5 196	NXT UDI P5 UDI 196	UDI 196	TAGGATGC	5'-AAATGATAGCGGGACCCAGGATCTAAC TAGGATGC *TCGTGGCGAGCTCC*
UDI 197_ UDI P5 197	NXT UDI P5 UDI 197	UDI 197	CATGAAGC	5'-AAATGATAGCGGGACCCAGGATCTAAC CATGAAGC *TCGTGGCGAGCTCC*
UDI 198_ UDI P5 198	NXT UDI P5 UDI 198	UDI 198	CTAATCTG	5'-AAATGATAGCGGGACCCAGGATCTAAC CTAATCTG *TCGTGGCGAGCTCC*
UDI 199_ UDI P5 199	NXT UDI P5 UDI 199	UDI 199	CAATCTGC	5'-AAATGATAGCGGGACCCAGGATCTAAC CAATCTGC *TCGTGGCGAGCTCC*
UDI 200_ UDI P5 200	NXT UDI P5 UDI 200	UDI 200	ACGATGTG	5'-AAATGATAGCGGGACCCAGGATCTAAC ACGATGTG *TCGTGGCGAGCTCC*
UDI 201_ UDI P5 201	NXT UDI P5 UDI 201	UDI 201	TGAAACCA	5'-AAATGATAGCGGGACCCAGGATCTAAC TGAAACCA *TCGTGGCGAGCTCC*
UDI 202_ UDI P5 202	NXT UDI P5 UDI 202	UDI 202	TATAGAGG	5'-AAATGATAGCGGGACCCAGGATCTAAC TATAGAGG *TCGTGGCGAGCTCC*
UDI 203_ UDI P5 203	NXT UDI P5 UDI 203	UDI 203	AGGAGATG	5'-AAATGATAGCGGGACCCAGGATCTAAC AGGAGATG *TCGTGGCGAGCTCC*
UDI 204_ UDI P5 204	NXT UDI P5 UDI 204	UDI 204	AAGGGTCA	5'-AAATGATAGCGGGACCCAGGATCTAAC AAGGGTCA *TCGTGGCGAGCTCC*
UDI 205_ UDI P5 205	NXT UDI P5 UDI 205	UDI 205	GAAGTGGC	5'-AAATGATAGCGGGACCCAGGATCTAAC GAAGTGGC *TCGTGGCGAGCTCC*
UDI 206_ UDI P5 206	NXT UDI P5 UDI 206	UDI 206	TGCGAGTT	5'-AAATGATAGCGGGACCCAGGATCTAAC TGCGAGTT *TCGTGGCGAGCTCC*
UDI 207_ UDI P5 207	NXT UDI P5 UDI 207	UDI 207	TTCCTGCG	5'-AAATGATAGCGGGACCCAGGATCTAAC TTCCTGCG *TCGTGGCGAGCTCC*
UDI 208_ UDI P5 208	NXT UDI P5 UDI 208	UDI 208	ATTCTGGC	5'-AAATGATAGCGGGACCCAGGATCTAAC ATTCTGGC *TCGTGGCGAGCTCC*
UDI 209_ UDI P5 209	NXT UDI P5 UDI 209	UDI 209	GCTGTATG	5'-AAATGATAGCGGGACCCAGGATCTAAC GCTGTATG *TCGTGGCGAGCTCC*
UDI 210_ UDI P5 210	NXT UDI P5 UDI 210	UDI 210	CATAGCGG	5'-AAATGATAGCGGGACCCAGGATCTAAC CATAGCGG *TCGTGGCGAGCTCC*
UDI 211_ UDI P5 211	NXT UDI P5 UDI 211	UDI 211	CAGTGTTC	5'-AAATGATAGCGGGACCCAGGATCTAAC CAGTGTTC *TCGTGGCGAGCTCC*
UDI 212_ UDI P5 212	NXT UDI P5 UDI 212	UDI 212	TGCTCTTT	5'-AAATGATAGCGGGACCCAGGATCTAAC TGCTCTTT *TCGTGGCGAGCTCC*
UDI 213_ UDI P5 213	NXT UDI P5 UDI 213	UDI 213	ACTGTGTC	5'-AAATGATAGCGGGACCCAGGATCTAAC ACTGTGTC *TCGTGGCGAGCTCC*
UDI 214_ UDI P5 214	NXT UDI P5 UDI 214	UDI 214	GTATGGCC	5'-AAATGATAGCGGGACCCAGGATCTAAC GTATGGCC *TCGTGGCGAGCTCC*
UDI 215_ UDI P5 215	NXT UDI P5 UDI 215	UDI 215	CGATGTCG	5'-AAATGATAGCGGGACCCAGGATCTAAC CGATGTCG *TCGTGGCGAGCTCC*
UDI 216_ UDI P5 216	NXT UDI P5 UDI 216	UDI 216	AAGCTGCA	5'-AAATGATAGCGGGACCCAGGATCTAAC AAGCTGCA *TCGTGGCGAGCTCC*
UDI 217_ UDI P5 217	NXT UDI P5 UDI 217	UDI 217	AGTGAAGA	5'-AAATGATAGCGGGACCCAGGATCTAAC AGTGAAGA *TCGTGGCGAGCTCC*
UDI 218_ UDI P5 218	NXT UDI P5 UDI 218	UDI 218	CAGGATTC	5'-AAATGATAGCGGGACCCAGGATCTAAC CAGGATTC *TCGTGGCGAGCTCC*
UDI 219_ UDI P5 219	NXT UDI P5 UDI 219	UDI 219	TCGTGAGA	5'-AAATGATAGCGGGACCCAGGATCTAAC TCGTGAGA *TCGTGGCGAGCTCC*
UDI 220_ UDI P5 220	NXT UDI P5 UDI 220	UDI 220	TTCAGGCT	5'-AAATGATAGCGGGACCCAGGATCTAAC TTCAGGCT *TCGTGGCGAGCTCC*
UDI 221_ UDI P5 221	NXT UDI P5 UDI 221	UDI 221	TCTGAGAG	5'-AAATGATAGCGGGACCCAGGATCTAAC TCTGAGAG *TCGTGGCGAGCTCC*
UDI 222_ UDI P5 222	NXT UDI P5 UDI 222	UDI 222	TCCTGTAT	5'-AAATGATAGCGGGACCCAGGATCTAAC TCCTGTAT *TCGTGGCGAGCTCC*
UDI 223_ UDI P5 223	NXT UDI P5 UDI 223	UDI 223	CGTGTGTT	5'-AAATGATAGCGGGACCCAGGATCTAAC CGTGTGTT *TCGTGGCGAGCTCC*
UDI 224_ UDI P5 224	NXT UDI P5 UDI 224	UDI 224	GGGTTCTA	5'-AAATGATAGCGGGACCCAGGATCTAAC GGGTTCTA *TCGTGGCGAGCTCC*
UDI 225_ UDI P5 225	NXT UDI P5 UDI 225	UDI 225	CAGGCTTC	5'-AAATGATAGCGGGACCCAGGATCTAAC CAGGCTTC *TCGTGGCGAGCTCC*
UDI 226_ UDI P5 226	NXT UDI P5 UDI 226	UDI 226	AAGATGTC	5'-AAATGATAGCGGGACCCAGGATCTAAC AAGATGTC *TCGTGGCGAGCTCC*
UDI 227_ UDI P5 227	NXT UDI P5 UDI 227	UDI 227	GTTGTCTC	5'-AAATGATAGCGGGACCCAGGATCTAAC GTTGTCTC *TCGTGGCGAGCTCC*
UDI 228_ UDI P5 228	NXT UDI P5 UDI 228	UDI 228	GTATGATC	5'-AAATGATAGCGGGACCCAGGATCTAAC GTATGATC *TCGTGGCGAGCTCC*
UDI 229_ UDI P5 229	NXT UDI P5 UDI 229	UDI 229	CGATGTCG	5'-AAATGATAGCGGGACCCAGGATCTAAC CGATGTCG *TCGTGGCGAGCTCC*
UDI 230_ UDI P5 230	NXT UDI P5 UDI 230	UDI 230	GACAGAGG	5'-AAATGATAGCGGGACCCAGGATCTAAC GACAGAGG *TCGTGGCGAGCTCC*
UDI 231_ UDI P5 231	NXT UDI P5 UDI 231	UDI 231	TTAGGGCT	5'-AAATGATAGCGGGACCCAGGATCTAAC TTAGGGCT *TCGTGGCGAGCTCC*
UDI 232_ UDI P5 232	NXT UDI P5 UDI 232	UDI 232	CGATGTCG	5'-AAATGATAGCGGGACCCAGGATCTAAC CGATGTCG *TCGTGGCGAGCTCC*
UDI 233_ UDI P5 233	NXT UDI P5 UDI 233	UDI 233	AACGGAAG	5'-AAATGATAGCGGGACCCAGGATCTAAC AACGGAAG *TCGTGGCGAGCTCC*
UDI 234_ UDI P5 234	NXT UDI P5 UDI 234	UDI 234	TCTGTGCT	5'-AAATGATAGCGGGACCCAGGATCTAAC TCTGTGCT *TCGTGGCGAGCTCC*
UDI 235_ UDI P5 235	NXT UDI P5 UDI 235	UDI 235	CTCAGCTA	5'-AAATGATAGCGGGACCCAGGATCTAAC CTCAGCTA *TCGTGGCGAGCTCC*
UDI 236_ UDI P5 236	NXT UDI P5 UDI 236	UDI 236	GATGATGC	5'-AAATGATAGCGGGACCCAGGATCTAAC GATGATGC *TCGTGGCGAGCTCC*
UDI 237_ UDI P5 237	NXT UDI P5 UDI 237	UDI 237	GATGATGC	5'-AAATGATAGCGGGACCCAGGATCTAAC GATGATGC *TCGTGGCGAGCTCC*
UDI 238_ UDI P5 238	NXT UDI P5 UDI 238	UDI 238	CTATAGTG	5'-AAATGATAGCGGGACCCAGGATCTAAC CTATAGTG *TCGTGGCGAGCTCC*
UDI 239_ UDI P5 239	NXT UDI P5 UDI 239	UDI 239	CGAATGTC	5'-AAATGATAGCGGGACCCAGGATCTAAC CGAATGTC *TCGTGGCGAGCTCC*
UDI 240_ UDI P5 240	NXT UDI P5 UDI 240	UDI 240	CAAGTGGC	5'-AAATGATAGCGGGACCCAGGATCTAAC CAAGTGGC *TCGTGGCGAGCTCC*
UDI 241_ UDI P5 241	NXT UDI P5 UDI 241	UDI 241	CGAGTATG	5'-AAATGATAGCGGGACCCAGGATCTAAC CGAGTATG *TCGTGGCGAGCTCC*
UDI 242_ UDI P5 242	NXT UDI P5 UDI 242	UDI 242	CGATGTCG	5'-AAATGATAGCGGGACCCAGGATCTAAC CGATGTCG *TCGTGGCGAGCTCC*
UDI 243_ UDI P5 243	NXT UDI P5 UDI 243	UDI 243	GGCAGTAT	5'-AAATGATAGCGGGACCCAGGATCTAAC GGCAGTAT *TCGTGGCGAGCTCC*
UDI 244_ UDI P5 244	NXT UDI P5 UDI 244	UDI 244	ATGGAAGG	5'-AAATGATAGCGGGACCCAGGATCTAAC ATGGAAGG *TCGTGGCGAGCTCC*
UDI 245_ UDI P5 245	NXT UDI P5 UDI 245	UDI 245	AAGAGTCA	5'-AAATGATAGCGGGACCCAGGATCTAAC AAGAGTCA *TCGTGGCGAGCTCC*
UDI 246_ UDI P5 246	NXT UDI P5 UDI 246	UDI 246	TGGTGTGA	5'-AAATGATAGCGGGACCCAGGATCTAAC TGGTGTGA *TCGTGGCGAGCTCC*
UDI 247_ UDI P5 247	NXT UDI P5 UDI 247	UDI 247	TACAGGCT	5'-AAATGATAGCGGGACCCAGGATCTAAC TACAGGCT *TCGTGGCGAGCTCC*
UDI 248_ UDI P5 248	NXT UDI P5 UDI 248	UDI 248	GCTTCTCT	5'-AAATGATAGCGGGACCCAGGATCTAAC GCTTCTCT *TCGTGGCGAGCTCC*
UDI 249_ UDI P5 249	NXT UDI P5 UDI 249	UDI 249	ACCGGATA	5'-AAATGATAGCGGGACCCAGGATCTAAC ACCGGATA *TCGTGGCGAGCTCC*
UDI 250_ UDI P5 250	NXT UDI P5 UDI 250	UDI 250	TGGTCTCT	5'-AAATGATAGCGGGACCCAGGATCTAAC TGGTCTCT *TCGTGGCGAGCTCC*
UDI 251_ UDI P5 251	NXT UDI P5 UDI 251	UDI 251	CGATAGGT	5'-AAATGATAGCGGGACCCAGGATCTAAC CGATAGGT *TCGTGGCGAGCTCC*
UDI 252_ UDI P5 252	NXT UDI P5 UDI 252	UDI 252	AACTCTTG	5'-AAATGATAGCGGGACCCAGGATCTAAC AACTCTTG *TCGTGGCGAGCTCC*
UDI 253_ UDI P5 253	NXT UDI P5 UDI 253	UDI 253	CAAGTGGC	5'-AAATGATAGCGGGACCCAGGATCTAAC CAAGTGGC *TCGTGGCGAGCTCC*
UDI 254_ UDI P5 254	NXT UDI P5 UDI 254	UDI 254	GCTTGGAA	5'-AAATGATAGCGGGACCCAGGATCTAAC GCTTGGAA *TCGTGGCGAGCTCC*
UDI 255_ UDI P5 255	NXT UDI P5 UDI 255	UDI 255	CGGATATC	5'-AAATGATAGCGGGACCCAGGATCTAAC CGGATATC *TCGTGGCGAGCTCC*
UDI 256_ UDI P5 256	NXT UDI P5 UDI 256	UDI 256	AACTGTGT	5'-AAATGATAGCGGGACCCAGGATCTAAC AACTGTGT *TCGTGGCGAGCTCC*
UDI 257_ UDI P5 257	NXT UDI P5 UDI 257	UDI 257	GCTTCTCT	5'-AAATGATAGCGGGACCCAGGATCTAAC GCTTCTCT *TCGTGGCGAGCTCC*
UDI 258_ UDI P5 258	NXT UDI P5 UDI 258	UDI 258	GGAACTGG	5'-AAATGATAGCGGGACCCAGGATCTAAC GGAACTGG *TCGTGGCGAGCTCC*
UDI 259_ UDI P5 259	NXT UDI P5 UDI 259	UDI 259	AGGTGATC	5'-AAATGATAGCGGGACCCAGGATCTAAC AGGTGATC *TCGTGGCGAGCTCC*
UDI 260_ UDI P5 260	NXT UDI P5 UDI 260	UDI 260	GAGGATCT	5'-AAATGATAGCGGGACCCAGGATCTAAC GAGGATCT *TCGTGGCGAGCTCC*
UDI 261_ UDI P5 261	NXT UDI P5 UDI 261	UDI 261	AACTCTCT	5'-AAATGATAGCGGGACCCAGGATCTAAC AACTCTCT *TCGTGGCGAGCTCC*
UDI 262_ UDI P5 262	NXT UDI P5 UDI 262	UDI 262	TGAGATGC	5'-AAATGATAGCGGGACCCAGGATCTAAC TGAGATGC *TCGTGGCGAGCTCC*
UDI 263_ UDI P5 263	NXT UDI P5 UDI 263	UDI 263	CTGTGTCG	5'-AAATGATAGCGGGACCCAGGATCTAAC CTGTGTCG *TCGTGGCGAGCTCC*
UDI 264_ UDI P5 264	NXT UDI P5 UDI 264	UDI 264	ACAGCAAC	5'-AAATGATAGCGGGACCCAGGATCTAAC ACAGCAAC *TCGTGGCGAGCTCC*
UDI 265_ UDI P5 265	NXT UDI P5 UDI 265	UDI 265	GCATACAG	5'-AAATGATAGCGGGACCCAGGATCTAAC GCATACAG *TCGTGGCGAGCTCC*
UDI 266_ UDI P5 266	NXT UDI P5 UDI 266	UDI 266	CTGTGTCG	5'-AAATGATAGCGGGACCCAGGATCTAAC CTGTGTCG *TCGTGGCGAGCTCC*
UDI 267_ UDI P5 267	NXT UDI P5 UDI 267	UDI 267	TGTGGGTT	5'-AAATGATAGCGGGACCCAGGATCTAAC TGTGGGTT *TCGTGGCGAGCTCC*
UDI 268_ UDI P5 268	NXT UDI P5 UDI 268	UDI 268	TAGCGGAA	5'-AAATGATAGCGGGACCCAGGATCTAAC TAGCGGAA *TCGTGGCGAGCTCC*
UDI 269_ UDI P5 269	NXT UDI P5 UDI 269	UDI 269	AGGGATAG	5'-AAATGATAGCGGGACCCAGGATCTAAC AGGGATAG *TCGTGGCGAGCTCC*
UDI 270_ UDI P5 270	NXT UDI P5 UDI 270	UDI 270	CTATAGAG	5'-AAATGATAGCGGGACCCAGGATCTAAC CTATAGAG *TCGTGGCGAGCTCC*
UDI 271_ UDI P5 271	NXT UDI P5 UDI 271	UDI 271	TGACAGCA	5'-AAATGATAGCGGGACCCAGGATCTAAC TGACAGCA *TCGTGGCGAGCTCC*
UDI 272_ UDI P5 272	NXT UDI P5 UDI 272	UDI 272	CGAGTGTG	5'-AAATGATAGCGGGACCCAGGATCTAAC CGAGTGTG *TCGTGGCGAGCTCC*
UDI 273_ UDI P5 273	NXT UDI P5 UDI 273	UDI 273	TGATGTCG	5'-AAATGATAGCGGGACCCAGGATCTAAC TGATGTCG *TCGTGGCGAGCTCC*
UDI 274_ UDI P5 274	NXT UDI P5 UDI 274	UDI 274	GATTGGAG	5'-AAATGATAGCGGGACCCAGGATCTAAC GATTGGAG *TCGTGGCGAGCTCC*
UDI 275_ UDI P5 275	NXT UDI P5 UDI 275	UDI 275	ACGGTCTT	5'-AAATGATAGCGGGACCCAGGATCTAAC ACGGTCTT *TCGTGGCGAGCTCC*
UDI 276_ UDI P5 276	NXT UDI P5 UDI 276	UDI 276	AGGATGTC	5'-AAATGATAGCGGGACCCAGGATCTAAC AGGATGTC *TCGTGGCGAGCTCC*
UDI 277_ UDI P5 277	NXT UDI P5 UDI 277	UDI 277	CAACACTA	5'-AAATGATAGCGGGACCCAGGATCTAAC CAACACTA *TCGTGGCGAGCTCC*
UDI 278_ UDI P5 278	NXT UDI P5 UDI 278	UDI 278	TGTGGTAC	5'-AAATGATAGCGGGACCCAGGATCTAAC TGTGGTAC *TCGTGGCGAGCTCC*
UDI 279_ UDI P5 279	NXT UDI P5 UDI 279	UDI 279	ACATAGGC	5'-AAATGATAGCGGGACCCAGGATCTAAC ACATAGGC *TCGTGGCGAGCTCC*
UDI 280_ UDI P5 280	NXT UDI P5 UDI 280	UDI 280	TAAGCAAG	5'-AAATGATAGCGGGACCCAGGATCTAAC TAAGCAAG *TCGTGGCGAGCTCC*
UDI 281_ UDI P5 281	NXT UDI P5 UDI 281	UDI 281	GGAGTATA	5'-AAATGATAGCGGGACCCAGGATCTAAC GGAGTATA *TCGTGGCGAGCTCC*
UDI 282_ UDI P5 282	NXT UDI P5 UDI 282	UDI 282	TGATGTCG	5'-AAATGATAGCGGGACCCAGGATCTAAC TGATGTCG *TCGTGGCGAGCTCC*
UDI 283_ UDI P5 283	NXT UDI P5 UDI 283	UDI 283	TAAGCAAG	5'-AAATGATAGCGGGACCCAGGATCTAAC TAAGCAAG *TCGTGGCGAGCTCC*
UDI 284_ UDI P5 284	NXT UDI P5 UDI 284	UDI 284	CGTACTAT	5'-AAATGATAGCGGGACCCAGGATCTAAC CGTACTAT *TCGTGGCGAGCTCC*
UDI 285_ UDI P5 285	NXT UDI P5 UDI 285	UDI 285	GAGCTCAA	5'-AAATGATAGCGGGACCCAGGATCTAAC GAGCTCAA *TCGTGGCGAGCTCC*
UDI 286_ UDI P5 286	NXT UDI P5 UDI 286	UDI 286	AGGAGTCA	5'-AAATGATAGCGGGACCCAGGATCTAAC AGGAGTCA *TCGTGGCGAGCTCC*
UDI 287_ UDI P5 287	NXT UDI P5 UDI 287	UDI 287	TGCTGAGG	5'-AAATGATAGCGGGACCCAGGATCTAAC TGCTGAGG *TCGTGGCGAGCTCC*
UDI 288_ UDI P5 288	NXT UDI P5 UDI 288	UDI 288	GTTGCTTC	5'-AAATGATAGCGGGACCCAGGATCTAAC GTTGTCTC *TCGTGGCGAGCTCC*

P7 Indexing Primer Part

grafting part CAAGCAGAGCGGATCATAGGAT
sequencing primer part GCTCTGGGCTCCG

Oligo Name	Index Name	Index Sequence	Index Sequence ic for Primer	PCR Primer (order these Oligos in NGS quality, * indicates a phosphothioate to block exonucleases)
NXT UDI P5 UDI P7 193	UDI P7 193	CTTCTGTC	GAAAGGAG	5'-CAAGCAGAGCGGATCATAGGAT GAAAGGAG *TCGTGGCGAGCTCC*
NXT UDI P5 UDI P7 194	UDI P7 194	GCTCTAAG	ACCTAGAC	5'-CAAGCAGAGCGGATCATAGGAT ACCTAGAC *TCGTGGCGAGCTCC*
NXT UDI P5 UDI P7 195	UDI P7 195	ACGTGCTA	TAGAGGCT	5'-CAAGCAGAGCGGATCATAGGAT TAGAGGCT *TCGTGGCGAGCTCC*
NXT UDI P5 UDI P7 196	UDI P7 196	GAGCTCAA	TGAGCTAC	5'-CAAGCAGAGCGGATCATAGGAT TGAGCTAC *TCGTGGCGAGCTCC*
NXT UDI P5 UDI P7 197	UDI P7 197	GGTGTACT	AGTACAGC	5'-CAAGCAGAGCGGATCATAGGAT AGTACAGC *TCGTGGCGAGCTCC*
NXT UDI P5 UDI P7 198	UDI P7 198	CACTGACA	TGTGCTGC	5'-CAAGCAGAGCGGATCATAGGAT TGTGCTGC *TCGTGGCGAGCTCC*
NXT UDI P5 UDI P7 199	UDI P7 199	TCTAGTGC	GACTAGGA	5'-CAAGCAGAGCGGATCATAGGAT GACTAGGA *TCGTGGCGAGCTCC*
NXT UDI P5 UDI P7 200	UDI P7 200	GGAGTAA	TGATGCTG	5'-CAAGCAGAGCGGATCATAGGAT TGATGCTG *TCGTGGCGAGCTCC*
NXT UDI P5 UDI P7 201	UDI P7 201	CAAGCAGT	ACTGCTGT	5'-CAAGCAGAGCGGATCATAGGAT ACTGCTGT *TCGTGGCGAGCTCC*
NXT UDI P5 UDI P7 202	UDI P7 202	AGATGAGG	GCTATGAT	5'-CAAGCAGAGCGGATCATAGGAT GCTATGAT *TCGTGGCGAGCTCC*
NXT UDI P5 UDI P7 203	UDI P7 203	TGTGTGAT	GTACCAAA	5'-CAAGCAGAGCGGATCATAGGAT GTACCAAA *TCGTGGCGAGCTCC*
NXT UDI P5 UDI P7 204	UDI P7 204	CACACTAA	TAGTGTGT	5'-CAAGCAGAGCGGATCATAGGAT TAGTGTGT *TCGTGGCGAGCTCC*
NXT UDI P5 UDI P7 205	UDI P7 205	GCTGTGAT	ATGAGCGG	5'-CAAGCAGAGCGGATCATAGGAT ATGAGCGG *TCGTGGCGAGCTCC*
NXT UDI P5 UDI P7 206	UDI P7 206	ACGGTCTT	AAGACGCT	5'-CAAGCAGAGCGGATCATAGGAT AAGACGCT *TCGTGGCGAGCTCC*
NXT UDI P5 UDI P7 207	UDI P7 207	GATTGGAG	CTCAATCT	5'-CAAGCAGAGCGGATCATAGGAT CTCAATCT *TCGTGGCGAGCTCC*
NXT UDI P5 UDI P7 208	UDI P7 208	TGCTGAGA	TGAGGACA	5'-CAAGCAGAGCGGATCATAGGAT TGAGGACA *TCGTGGCGAGCTCC*
NXT UDI P5 UDI P7 209	UDI P7 209	CGAGTGTG	AAGACTGG	5'-CAAGCAGAGCGGATCATAGGAT AAGACTGG *TCGTGGCGAGCTCC*
NXT UDI P5 UDI P7 210	UDI P7 210	TGACACAA	TGTTGGCA	5'-CAAGCAGAGCGGATCATAGGAT TGTTGGCA *TCGTGGCGAGCTCC*
NXT UDI P5 UDI P7 211	UDI P7 211	TGACAGAG	CTGTGATA	5'-CAAGCAGAGCGGATCATAGGAT CTGTGATA *TCGTGGCGAGCTCC*
NXT UDI P5 UDI P7 212	UDI P7 212	AGGATGAG	TATGCTCT	5'-CAAGCAGAGCGGATCATAGGAT TATGCTCT *TCGTGGCGAGCTCC*
NXT UDI P5 UDI P7 213	UDI P7 213	TAGCCGAA	TGTCGCTA	5'-CAAGCAGAGCGGATCATAGGAT TGTCGCTA *TCGTGGCGAGCTCC*
NXT UDI P5 UDI P7 214	UDI P7 214	TGTTGGGT	ACCCAGAA	5'-CAAGCAGAGCGGATCATAGGAT ACCCAGAA *TCGTGGCGAGCTCC*
NXT UDI P5 UDI P7 215	UDI P7 215	CACTAGAG	TGATGATG	5'-CAAGCAGAGCGGATCATAGGAT TGATGATG *TCGTGGCGAGCTCC*
NXT UDI P5 UDI P7 216	UDI P7 216	GATACAGC	CTGTATGC	5'-CAAGCAGAGCGGATCATAGGAT CTGTATGC *TCGTGGCGAGCTCC*
NXT UDI P5 UDI P7 217	UDI P7 217	ACAGCAAC	GTTGCTGT	5'-CAAGCAGAGCGGATCATAGGAT GTTGTCTG *TCGTGGCGAGCTCC*
NXT UDI P5 UDI P7 218	UDI P7 218	CTGGTCTC	AGAACAGC	5'-CAAGCAGAGCGGATCATAGGAT AGAACAGC *TCGTGGCGAGCTCC*
NXT UDI P5 UDI P7 219	UDI P7 219	TGATGAGG	GATGCTGT	5'-CAAGCAGAGCGGATCATAGGAT GATGCTGT *TCGTGGCGAGCTCC*
NXT UDI P5 UDI P7 220	UDI P7 220	AACTCTCT	AGGAGGTT	5'-CAAGCAGAGCGGATCATAGGAT AGGAGGTT *TCGTGGCGAGCTCC*
NXT UDI P5 UDI P7 221	UDI P7			