

Barcode Oligos for Linker Amplified DNA

Matthew Sullivan

Abstract

Sequence for barcoded oligos for linker amplified libraries. Numbers 1 to 29 were developed at the Tucson Marine Phage Lab derived from MID 1 to 14 recommended by Roche.

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Guidelines

Rules for oligo creation:

- No duplicate nucleotides in a row, including ends next to Linker A & emPCR primer
- Barcodes must differ by at least 2 nucleotides
- Linker A has C at 5' end, so no C at 3' end of barcode
- emPCR primer has G at 3' end, so no G at 5' end of barcode
- Make with 5' phosphorylation.

5'phos-[5bp Bar Code]-CCACACAGATCACGAAGCATAC-3'

1	C	G	A	C	A
2	C	G	T	G	T
3	C	T	C	T	A
4	C	T	A	T	G
5	C	T	G	A	G
6	C	A	T	A	G
7	C	A	G	A	T
8	A	C	A	G	A
9	A	C	G	T	G
10	A	C	T	C	T
11	A	G	C	A	T
12	A	T	A	C	T
13	A	T	C	A	G
14	A	T	G	T	A
15	T	G	A	G	T
16	T	G	C	T	G
17	T	C	G	C	A
18	T	C	A	T	A
19	T	C	T	G	A
20	T	A	C	G	A

21	T	A	T	C	G
22	C	G	C	G	A
23	C	T	C	A	T
24	C	A	T	C	A
25	A	G	A	C	A
26	A	G	A	G	T
27	A	G	T	C	A
28	T	C	G	A	T
29	T	A	T	A	T

MID 1	A C G A G T G C G T
MID 2	A C G C T C G A C A
MID 3	A G A C G C A C T C
MID 4	A G C A C T G T A G
MID 5	A T C A G A C A C G
MID 6	A T A T C G C G A G
MID 7	C G T G T C T C T A
MID 8	C T C G C G T G T C
MID 9	T A G T A T C A G C
MID 10	T C T C T A T G C G
MID 11	T G A T A C G T C T
MID 12	T A C T G A G C T A
MID 13	C A T A G T A G T G
MID 14	C G A G A G A T A C

Protocol