

P2-a
=

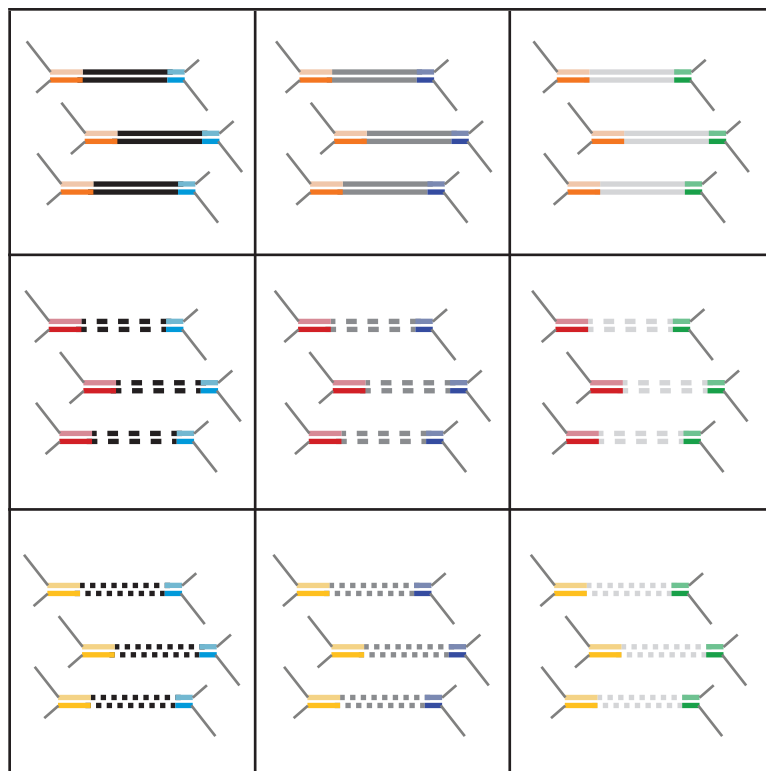
P2-b
=

P2-c
=

P1-A
=

P1-B
=

P1-C
=



AFTER PCR

P2-a
=

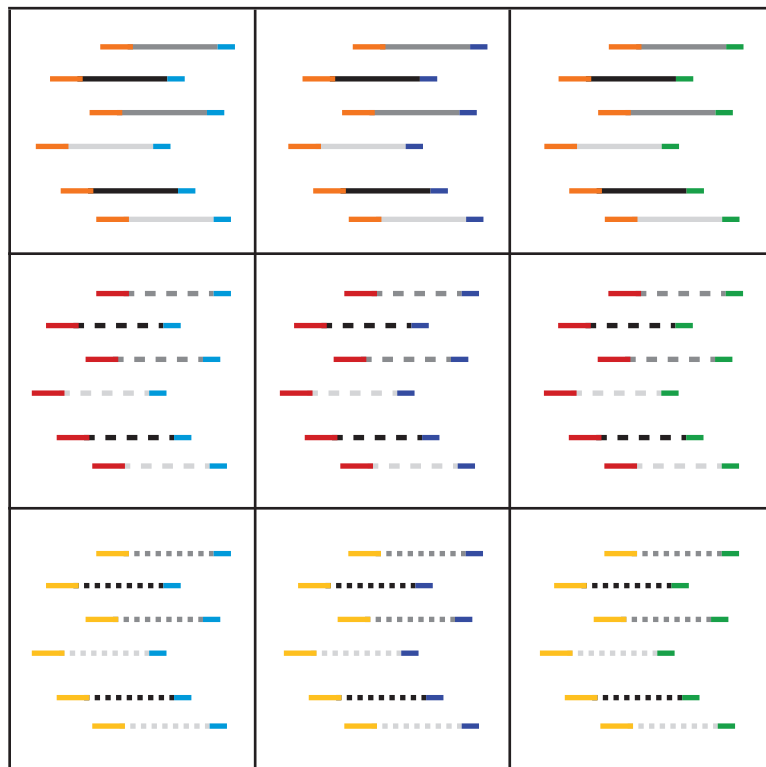
P2-b
=

P2-c
=

P1-A
=

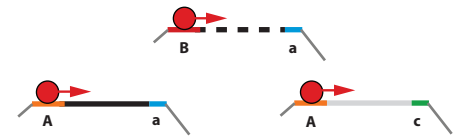
P1-B
=

P1-C
=

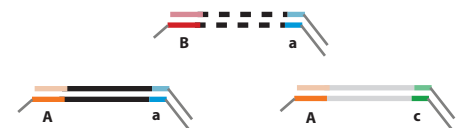


PCR STEPS:

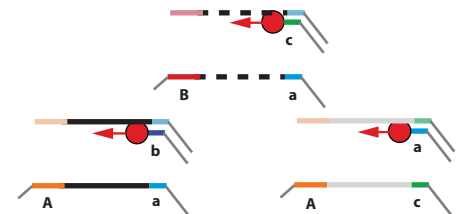
1. Solexa P1 primer binding to the P1 adapter



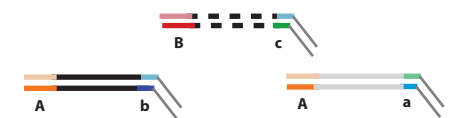
2. Annealing of DNA fragment, including the P2 binding site



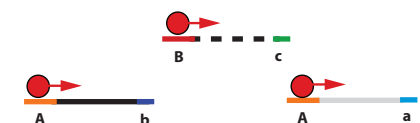
3. Binding of free P2 adapters = barcode SWAP!



3. Annealing towards the P1 binding site



4. PCR amplification of swapped DNA fragment by Solexa P1 and P2 primers.



Since PCR begins by P1 primer binding, P1 are tightly associated with DNA fragments.