A.

5′

Ion Torrent adapter
ADAPTER

forward primer
GAAAGGGACTGAA 3′

10B | GAAAGGGACTGAA | C1(N)$_{15}$C2 | GTCAAGTTCAACAAACCC | 10B

CAGTTCAAGTTGTTTGGG
reverse primer

BAR
ADAPTER
Ion Torrent adapter

5′

3′

GCTGCTGGGGCCATG(N)$_{15}$CCCAGATCTATCCCGCCTGAG

B.

C.

Length	constant region	variable region	constant region

<51> GCTGCTGGGGCCATGCTCGACTTTCCTATACCCAGATCTATCCCGCCTGAG   correct read length, correct constant regions
<52> GCTG**G**CTGGGGCCATGCTCGACTTTCCTATACCCAGATCTATCCCGCCTGA   insertion in the constant region
<52> GCTGCTGGGGCCATGTCACTCAGATCCCCC**C**CCCAGATCTATCCCGCCTGAG   homopolymer read error
<50> GCTGCTGGGGCCATGGACGCATTCGCCGCGCC_AGATCTATCCCGCCTGAG   deletion in the constant region (read error)
<50> GCTGCTGGGGCCATGCTCGACTT_CCTATACCCAGATCTATCCCGCCTGAG   deletion in the variable region (read error)

D.

five sequencing replica of thrombin panning

five sequencing replica of mock panning

five sequencing replica of naive library
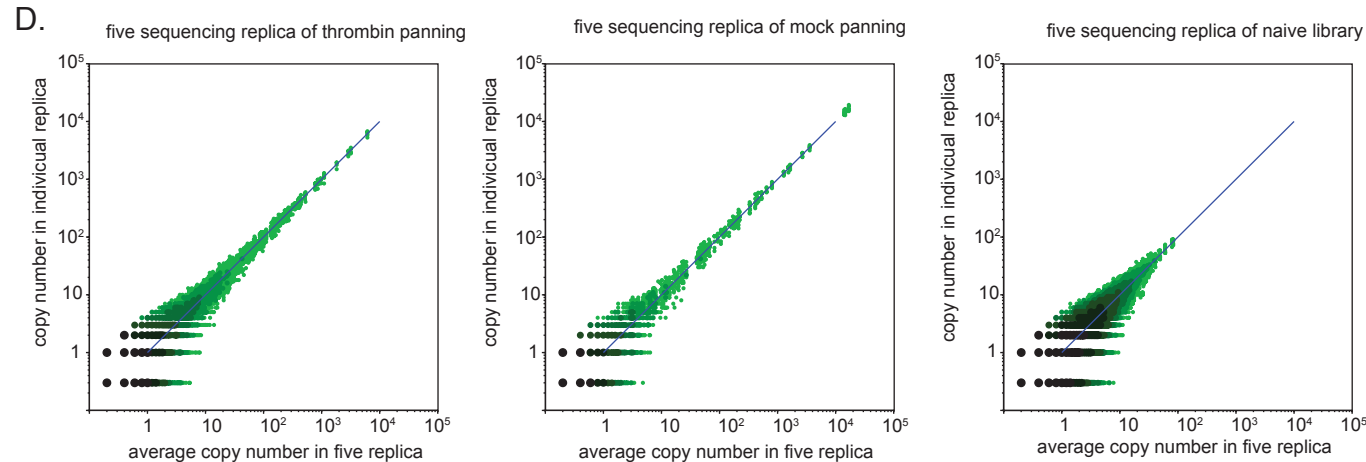
E.

$$X(i) = \sum_{k=1}^{5} \frac{(N(i,k) - M(i))^2}{M(i)} \qquad M(i) = \sum_{k=1}^{5} \frac{N(i,k)}{5}$$

N(i,k) - normalized copy number of seq. i in replica k
M(i) - mean copy number

F.

five sequencing replica of thrombin panning — slope 1.2

five sequencing replica of mock panning — slope 1.5

five sequencing replica of naive library — slope 1.16