

Signal Amplification			
illumina	MGI	Element Bio	
Bridge amplification	Rolling Circle Amplification (RCA)	Rolling Circle Amplification (RCA)	
PCR	NO error propagation by PCR	NO error propagation by PCR	
Clusters	DNA Nano Balls (DNB)	Polonies	

Flowcell			
illumina	MGI	Element Bio	
Non Patterned FC	X	Non Patterned FC	
Patterned FC	Patterned FC	X	
up to 600 cycles (MiSeq)	up to 600 cycles	up to 600 cycles	
4 lanes (NovaSeq S4)	4 lanes	2 lanes	
up to 12B reads (NovaSeq S4)	1500M-1800M reads	250M-500M-1B reads	

Sequencing			
illumina	MGI	Element Bio	
Sequencing by synthesis	cPAS sequencing	Sequencing by Avidity	
Fluorescent Nucleotides	Fluorescent Nucleotides	Avidite	

Quality			
illumina	MGI	Element Bio	
Q30	Q35	Q40	
Index Hopping (2%)	Index Hopping (negligible)	Avidite (negligible)	
Duplication (+++)		Duplication (low)	
AT/GC bias		low AT/GC bias	

Libraries			
illumina	MGI	Element Bio	
		robust to low diversity libraries	



Libraries (cont)

insert size (200–800 bp)

insert size (300-500 bp)

insert size (175-1000 bp)

Illumina platforms

iSeq

MiSeq

NextSeq 2000

NovaSeq 6000

MGI platform

DNBSEQ-G400

Element Bio platform

AVITI



By rekins

cheatography.com/rekins/

Not published yet.

Last updated 19th April, 2024.

Page 3 of 3.

Sponsored by **CrosswordCheats.com**

Learn to solve cryptic crosswords!

<http://crosswordcheats.com>

