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

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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

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