	#SE Reads per FC run or lane	Max output PE FC run (Gb)	% >=Q30	*Human Genomes per FC run	†Exomes per FC run	‡Transcriptomes per FC run
Illumina MiSeq: 1x150 cycles run (v3)	20-25 M	3.8				
Illumina MiSeq:1x300 cycles run (v2)	10-12 M	3.8				
Illumina MiSeq: 1x50 cycles run (v2)	10-12 M	0.6				
Illumina MiSeq: 2x150 cycles run (v2)	10-12 M	1.8				
Illumina MiSeq: 2x250 cycles run (v2)	10-12 M	6.0				
Illumina MiSeq: 2x300 cycles run (v3)	20-25 M	15.0				
Illumina MiSeq: 2x75 cycles run (v3)	20-25 M	3.8				
Illumina NextSeq500: High Throughput 1x150 cycles run	400 M	60.0				
Illumina NextSeq500: High Throughput 1x75 cycles run	400 M	30.0				
Illumina NextSeq500: High Throughput 2x150 cycles run	400 M	120.0		1		
Illumina NextSeq500: High Throughput 2x75 cycles run	400 M	60.0			8	48
Illumina NextSeq500: MID Throughput 1x150 cycles run	130 M	20.0				
Illumina NextSeq500: MID Throughput 2x150 cycles run	130 M	40.0				
Illumina NextSeq500: MID Throughput 2x75 cycles run	130 M	20.0				
Illumina: HiSeq3000, 2x150 run (one lane)	300 M	90.0	75	6		
Illumina: HiSeq3000, 1x150 run (one lane)	300 M	45.0	75			
Illumina: HiSeq3000, 2x75 run (one lane)	300 M	45.0	85		48	
Illumina: HiSeq3000, 1x50 run (one lane)	300 M	15.0	85			
Illumina: HiSeq3000, 2x100 run (one lane)	300 M	60.0	80			48
Illumina NovaSeq, S4, 2x150, full FC	10 Billion	2900.0	75	48	500	400
Illumina NovaSeq, S4, 2x150, one lane (whenever set up requires lane splitting)	2.5 Billion	720.0				
Illumina NovaSeq, S2, 2x150, full FC	4.0 Billion	1150.0	75	20	200	164
Illumina NovaSeq, S2, 2x150, one lane (whenever set up requires lane splitting)	2.0 Billion	575.0				
Illumina NovaSeq, S2, 2x100, full FC	4.0 Billion	760.0	80			
Illumina NovaSeq, S2, 2x100, one lane (whenever set up requires lane splitting)	2.0 Billion	380.0				
Illumina NovaSeq, S2, 2x50, full FC	4.0 Billion	380.0	85			
Illumina NovaSeq, S2, 2x50, one lane (whenever set up requires lane splitting)	2.0 Billion	190.0				
Illumina NovaSeq, S1, 2x150, full FC	1.6 Billion	450.0	75	8	80	64
Illumina NovaSeq, S1, 2x150, one lane (whenever set up requires lane splitting)	0.8 Billion	225.0				
Illumina NovaSeq, S1, 2x100, full FC	1.6 Billion	300.0	80			
Illumina NovaSeq, S1, 2x100, one lane (whenever set up requires lane splitting)	0.8 Billion	150.0				
Illumina NovaSeq, S1, 2x50, full FC	1.6 Billion	150.0	85			
Illumina NovaSeq, S1, 2x50, one lane (whenever set up requires lane splitting)	0.8 Billion	75.0				
Illumina NovaSeq, Sp, 2x250, full FC	0.8 Billion	360.0	75	4	40	32
Illumina NovaSeq, Sp, 2x250, one lane (whenever set up requires lane splitting)	0.4 Billion	180.0				
Illumina NovaSeq, Sp, 2x150, full FC	0.8 Billion	240.0	75			
Illumina NovaSeq, Sp, 2x150, one lane (whenever set up requires lane splitting)	0.4 Billion	120.0				
Illumina NovaSeq, Sp, 2x50, full FC	0.8 Billion	80.0	85			
Illumina NovaSeq, Sp, 2x50, one lane (whenever set up requires lane splitting)	0.4 Billion	40.0				
PacBio SEQUEL 1-8 cells. Standard v3 SMRT cell. 10-hour movie. Fee per SMRT cell	400-600 k	10 to 20	Varies	0.2		1 to 2
PacBio SEQUEL 1-8 cells. LR v3 SMRT cell. 20-hour movie. Fee per SMRT cell	400-600 k	15 to 30	Varies	0.2		2 to 2
PacBio SEQUEL 9-32 cells. Standard v3 SMRT cell. 10-hour movie. Fee per SMRT cell	400-600 k	10 to 20	Varies	0.2		3 to 2
PacBio SEQUEL 9-32 cells. LR v3 SMRT cell. 20-hour movie. Fee per SMRT cell	400-600 k	15 to 30	Varies	0.2		4 to 2

PacBio SEQUEL >32 cells. Standard v3 SMRT cell. 10-hour movie. Fee per SMRT cell	400-600 k	10 to 20	Varies	0.2	5 to 2
PacBio SEQUEL >32 cells. LR v3 SMRT cell. 20-hour movie. Fee per SMRT cell	400-600 k	15 to 30	Varies	0.2	6 to 2

*Assumes >30× coverage of a human genome.
†Assumes (8Gb) 100× coverage with 80% on target using 2 × 75 bp reads.
‡Assumes 50 million reads per sample.