Compatible Sequencers

IDseq software is currently compatible with short-read sequencers and plans to build support for long-read sequencers over the next year (see below). As IDseq continues to be developed we will update this list of supported sequencers.

Currently Supported

Illumina Benchtop line (short-read)

- Illumina iSeq
- *Illumina MiSeq (cost exceeds limit)*
- *Illumina NextSeq (cost exceeds limit)*

	iSeq 100 System	MiniSeq System	MiSeq Series ⊕	NextSeq Series ⊕
Popular Applications & Methods	Key Application ▢	Key Application ▢	Key Application ▢	Key Application ▢
Large Whole-Genome Sequencing (human, plant, animal)				●
Small Whole-Genome Sequencing (microbe, virus)	●	●	●	●
Exome Sequencing				●
Targeted Gene Sequencing (amplicon, gene panel)	●	●	●	●
Whole-Transcriptome Sequencing				●
Gene Expression Profiling with mRNA-Seq				●
Targeted Gene Expression Profiling	●	●	●	
Long-Range Amplicon Sequencing*	●	●	●	
miRNA & Small RNA Analysis	●	●	●	●
DNA-Protein Interaction Analysis			●	●
Methylation Sequencing				●
16S Metagenomic Sequencing		●	●	●

Soon to be Supported

Oxford Nanopore Sequencers (long-read)

- Oxford MinION
- Oxford PromethION

	MinION		PromethION	
	MinION Mk 1B	**PromethION (1 flow cell)**	**PromethION (48 flow cells)**	
Read length	fragment length = read length. Longest read now >2 Mb			
Run time	1 min - 48 hrs	1 min - 64 hrs	1 min - 64 hrs	
Yield DNA sequencing				
Theoretical maximum 1D Yield	Up to 40 Gb	Up to 315 Gb	Up to 15 Tb	
Current yield range 1D	Up to 30Gb (Rev D Chip)	Up to 150 Gb		
Cost per Gb: (cited as cost per Gb of data at a certain yield per flow cell, best package price)	@10Gb: $50 @20Gb: $25 @30Gb: $16.50	@50Gb: $14 @100Gb: $7 @150Gb: $3.5	@50Gb: $12.5 @100Gb: $6.25 @150Gb: $4.1	
Starter pack fee (other purchasing schemes also available)	No instrument cost. Starter kit (includes MinION, 2 flow cells & sequencing kit) $1000	No instrument cost	No instrument cost	
Multiplexing enabled	Kits for 96 samples	Coming soon	Coming soon	
Number of channels available for sequencing	Up to 512	Up to 3,000	Up to 144,000	