Now available in the ATGC

NovaSeqX Plus sequencing

The NovaSeqX Plus is:

-Illumina's newest and most advanced sequencer

This platform offers:

-Up to 60% reduction in sequencing price (depending upon sequencing type)

-Up to 3X greater sequencing accuracy- New XLEAP SBS chemistry

-Greater flexibility of run format- combine different run formats on the same flow cell

Key Applications

- Whole Genome: Human, Mouse, Rat…
- Exomes
- RNA seq
- Methyl seq
- Metagenomic profiling
- Targeted regions
- Single Cell applications
- Spatial transcriptome

Sequencing Run Types, Output and Pricing

Flow Cell	Reagent Kit Cycles	Lanes per Flow Cell	# Paired Reads per lane (Billions)	Price per lane
25B lane	300 cycle	8	3.2	$2,595
10B Lane	300 cycle	8	1.25	$1,523
	200 cycle	8	1.25	$1,457
	100 cycle	8	1.25	$1,188
1.5B	300 cycle	2	0.8	$2,166
	200 cycle	2	0.8	$2,012
	100 cycle	2	0.8	$1,766

Key Considerations when transitioning from the NovaSeq6000 to the NovaSeqX

When sending premade libraries for NovaSeqX sequencing there are a few things you should consider:

1. Small fragments form colonies much more efficiently on the NovaSeqX than on the NovaSeq6000. You must remove all adapter dimers from your libraries to prevent over-representation of these and other small fragments.
2. All libraries in your pool must be the same size. You cannot pool different sized libraries for sequencing on the X. If you have multiple sized libraries, you must use separate lanes or select the NovaSeq6000.
3. Median insert size shifts to smaller lengths on the NovaX. You may have to size select to a larger fragment size when sequencing on the NovaSeqX.

If there are questions about this, please contact us.