

Infinium[®] XT Production-Scale Genotyping Solution

A new assay workflow and 96-sample BeadChip support targeted array genotyping for large sample numbers.

Introduction

The Infinium XT Kit provides the highest throughput array format that Illumina has to offer to date.* The 96-sample BeadChip offers laboratories the ability to perform genotyping on larger numbers of samples, scaling up to more than 1 million samples per year. This solution is ideally suited for agrigenomics applications, which require low plexity assays, especially for parentage, traceability, and genomic selection. This product also enables human applications, particularly for biobanks and personalized medicine initiatives with large-scale targeted genotyping.

1. What are the key features of the Infinium XT solution?

The Infinium XT solution enables cost-effective genotyping for large-scale studies with a throughput range of 100,000 to > 1,000,000 samples per year, all in a single lab. The new 96-sample BeadChip format supports 100s up to 50,000 marker applications with catalog or custom content. An improved assay reduces turnaround time from 3 days to 2 days.

Note: There is a 100,000 sample minimum order commitment.

2. Should I consider purchasing the new Infinium XT Kit?

If you require a highly targeted assay for large-scale sample screening ($\leq 50,000$ markers and $\geq 100,000$ samples), the Infinium XT Kit is a great fit.

3. When will Illumina begin shipping the Infinium XT Kit?

This product will be available in the third quarter of 2016.

4. Why is there a 100,000 sample minimum order size at launch?

The Infinium XT solution was designed to support customers looking to scale their Infinium labs to $\geq 1,000,000$ samples per year. Standard throughput scenarios will continue to be supported with existing Illumina Infinium assays and BeadChip formats.

5. How will the Infinium XT Kit be priced?

Pricing is now available and accessible through your local Illumina sales representative.

6. What is needed to prepare for a transition to Infinium XT production-scale genotyping?

Transitioning to the Infinium XT solution may require additional hardware investments, personnel training, and bead pool builds. Also, labs will need to prepare to reallocate or rearrange existing resources (eg hardware, personnel, monetary, etc.) for new workflow efficiency gains.

The Infinium XT assay is similar to current Infinium assays. Current customers can expect a 1-day training session for the assay and < 1-day training for the analysis pipeline.

* Compared to the Infinium iSelect 24-HTS Custom Genotyping BeadChip

For Research Use Only. Not for use in diagnostic procedures.

