illumina®

Don’t settle for limited data.

Data show Illumina next-generation sequencing is the NIPT technology of choice.

Published support of NGS.

Noninvasive prenatal testing (NIPT) provides accurate information about major chromosome abnormalities in a fetus as early as 10 weeks gestation using a single maternal blood draw.

- Next-generation sequencing (NGS) is the most-published method for performing NIPT[1,2]
- 99.7% of NIPT samples in published studies were run on Illumina NGS technology (Table 1)

Table 1: 99.7% of NIPT Samples Run on Illumina NGS Systems

Test (Company)	Current technology platform	Platform provider	Number of published samples		
			Illumina NGS	Ion Proton NGS	Affymetrix array
Bambni™ Test (Berry Genomics)	NGS	Illumina	3,268	0	0
MaterniT21 PLUS Test (Sequenom)	NGS	Illumina	293,243	0	0
NIFTY Test (BGI)	NGS	Illumina	168,655	0	0
Panorama Prenatal Screen (Natera)	NGS	Illumina	55,077	0	0
PrenaTest® (LifeCodexx AG)	NGS	Illumina	504	0	0
Verifi® Prenatal Test (Illumina)	NGS	Illumina	113,561	0	0
IONA® Test (Premaitha)	NGS	Ion Proton	0	684	0
Harmony Prenatal Test (Ariosa)*	Array	Affymetrix	44,313	0	1,677
Total			678,621	684	1,677

A PubMed search for “cell-free, DNA, prenatal,” “noninvasive prenatal testing,” and “noninvasive prenatal screening” was performed on November 30, 2015. All validation and clinical studies using unique samples were included, where a current clinical NIPT provider performed sample analysis. Case studies and studies published in a language other than English were excluded. A total of 59 published studies were surveyed. Data calculations on file. Illumina, Inc. 2015. NGS = next-generation sequencing; either whole-genome or targeted.

* In 2014, Ariosa switched from sequencing to arrays for clinical samples despite limited published data on this platform.

To learn more about NIPT using the Verifi Prenatal Test, visit **www.illumina.com/verifi**.

References

1. The American College of Obstetricians and Gynecologists. Committee Opinion: Cell-free DNA screening for fetal aneuploidy. www.acog.org/Resources-And-Publications/Committee-Opinions/Committee-on-Genetics/Cell-free-DNA-Screening-for-Fetal-Aneuploidy. Published June 26, 2015. Accessed August 5, 2015.
2. Benn P, Borell A, Chiu R, et al. Position statement from the Aneuploidy Screening Committee on behalf of the Board of the International Society for Prenatal Diagnosis. Prenat Diagn., 2013;33:622-629. doi: 10.1002/pd.4139.

The Verifi test was developed by, and its performance characteristics were determined by Verinata Health, Inc. a wholly owned subsidiary of Illumina, Inc. The VHI laboratory is CAP-accredited and certified under the Clinical Laboratory Improvement Amendments (CLIA) as qualified to perform high complexity clinical laboratory testing. It has not been cleared or approved by the U.S. Food and Drug Administration.