Welcome to Illumina MiSeq Sequencing

Brainstorm Project Ideas

Applications



- Discover the types of research taking place with Illumina technology by clicking the 'Applications' drop-down menu on the Illumina main web page.
- Explore your area of interest: agrigenomics, cancer genomics, forensic genomics, genetic disease, microbial genomics, and others.



 Get an in-depth knowledge of MiSeq capability by navigating to the MiSeq page.

Publications

SEARCH PUBLICA	TIONS			
Author Name:		Text:		Year:
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- The publication tracker is a great resource for brainstorming project ideas. This tool enables you to search for publications based on author, technology, or application.
- View featured articles in recently released scientific publications
- As you review publications, pay attention to information on the following:
 - 1. Nucleic acid isolation method
 - 2. Sample preparation kit
 - 3. Coverage level (ex. 30X)
 - 4. Sequencing run length
 - 5. Analysis technique

Project Planning Resources

Support Website

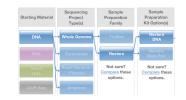
- The MiSeq support page contains protocols, trainings, site preparation requirements, computing/ analysis considerations, and more.
- For full access to all tools and resources on the web site, register for a Mylllumina account.
- Educate yourself on MiSeq technology through these recommended online training courses.

MiSeq: Sequencing Fundamentals (15 min)

MiSeq: Sequencing Chemistry (20 min)

MiSeq: Getting Started (20 min)

Sample Preparation:



• The Kit Selector Tool helps you choose a sample preparation kit for your project. Use the Compare links in the tool to view side-by-side information that can help in your decision making.

Sequencing:

HiSeq Output Calculations						
TruSeq v3 Reagents (one flow cell)		HiSeq 1500/2500 rapid run (one flow cell)				
Clusters/mm ² (800K @85%PF) %PF may vary based on library	680,000	Clusters/mm ² (900K @91%PF) %PF may vary based on library	819,000			
Area of a lane (mm ²) Reads/lane	273.6 196,049,000	Area of a lane (mm ²) Reads/lane	184			
Genome or region size (in bases) Coverage Total number of cycles (e.g. 200 tor 2x100)	Enter your value here Enter your value here Enter your value here	Genome or region size (in bases) Coverage Total number of cycles (e.g. 300 for 2x150)	Enter your value here Enter your value here Enter your value here			
Total output required (in bases) Output/lane (bases/lane) Number of lanes Number of samples/lane		Total output required (in bases) Outputilane (basesilane) Number of lanes Number of samples/lane				

- The coverage calculator helps you estimate the number of sequencing runs necessary for your project.
- Review the Estimating Sequencing Coverage Technical Note for more information on using the coverage calculator tool.

The Illumina Community

Connect with your Peers

- Stay up-to-date on emerging research and product development news by reading the iCommunity Newsletter.
- Access the archive of previous newsletters.

Events



• The events web page allows you to find User Group Meetings and tradeshows in your area, as well as register for webinars.



 Hover over Calendar dates to get more information about upcoming events.

Blog @ Illumina ASHG ESHG ASM AGBT illumina.com

Blog @ Illumi

Current Articles | 🔊 RSS Feed

 The Illumina Blog provides a forum for scientists to give commentary on Illumina's events as well as write articles about cutting-edge innovations in their field.

Notes:



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