

## Content AT a Glance

Institute of Applied Biotechnologies (IAB) provides a wide range of Next Generation Sequencing (NGS) services. It combines state-of-the-art bioinformatics and big data management and analytical services of genomic and genetic data for precise and adequate interpretation of NGS results both for public and private medical and research partners, respectively. The IAB solutions are empowered by variety of technologies and instruments mastered by IAB experts in combination with IAB computing infrastructure and expertise in data analysis and storage. Numerous scientists and healthcare providers have already benefited from the expertise of the team in NGS workflow management.

Content AT a Glance means to orchestrate a complex of IAB solutions covering project evaluation, selection of appropriate kits, workflow design including QC steps and parameters, library preparation and sequencing as well as raw data management, precise bioinformatic and genomic data analysis and, last but not least, design of customised interpretation.

  
IAB Exome

  
IAB Genome

  
IAB Panel

  
IAB Transcriptome

  
IAB small RNA

  
IAB Oncotarget

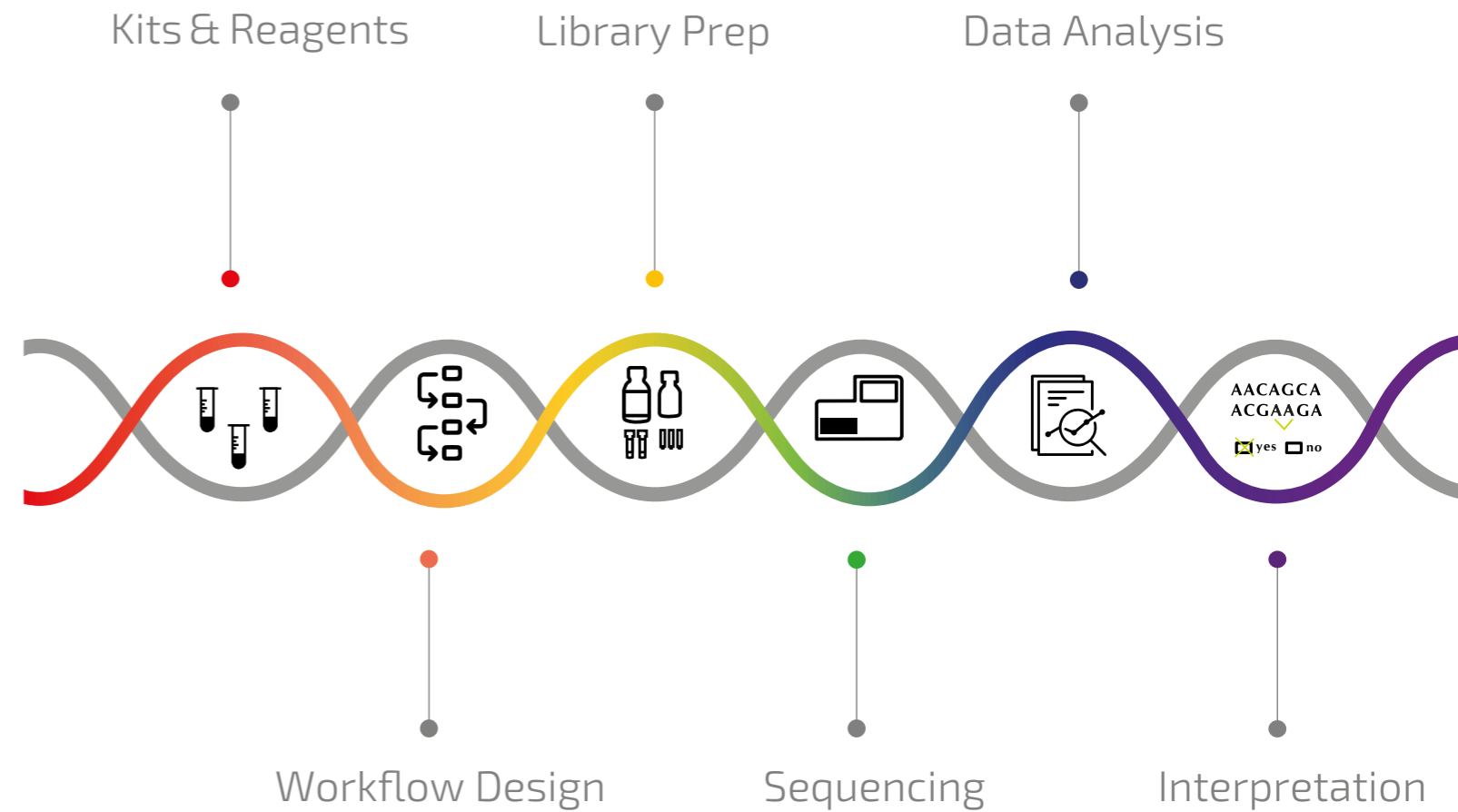
  
IAB single cell  
**Coming soon**

  
IAB metagenome  
**Coming soon**

  
IAB microbiome  
**Coming soon**

# IAB Exome

powered by Twist Bioscience

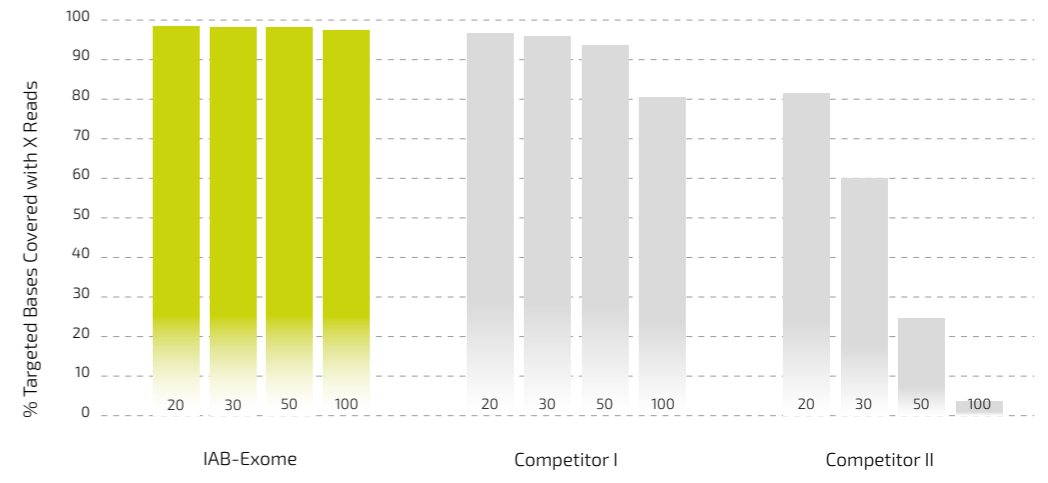




**Achieve higher depth of coverage with Twist Human Core Exome Kit**

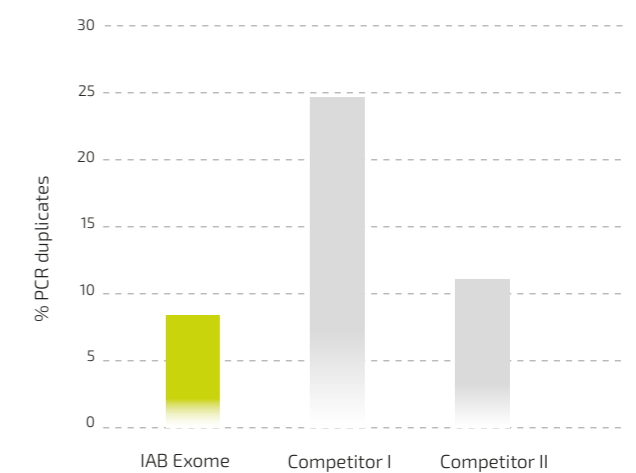
Twist Bioscience, the leader in synthetic DNA with unparalleled precision regarding scale, is redefining the targeted sequencing performance with the Twist Human Core Exome Kit. Sequencing key genes or regions of interest at high uniformity and depth will enable one to allow you to identify rare variants. Moreover, owing to a precise targeting, more exomes per sequencing experiment can be explored. Therefore, Twist Human Core Exome Kit offers the benefit of lowering sequencing costs while increasing sample throughput.

Superior depth of coverage



IAB Exome provides a deep target coverage for sensitive variant analysis.

Unbeatable sequencing efficiency



IAB Exome is powered by a robust probe design reducing overall sequencing costs. Compared to the solutions of competitors, IAB Exome enables one to apply more samples per a sequencing run without compromise in quality.

Highest uniformity for effective sequencing

	IAB Exome	Competitor I	Competitor II
% Bases on targets	79	75	58
Fold 80 base penalty	1,35	1,65	2,00

IAB Exome provides a uniform sequencing performance (demonstrated by low "Fold 80 base penalty") across targeted regions (as shown by "% Bases on targets") limiting wasted reads. An effective reads distribution in the targeted regions maximizes the output of each sequencing run and improves the variant calling.