

ExomeXtra[®] Sequencing



Taking Exome Sequencing to the Next Level

The exome includes all protein-coding regions, also known as exons, in the human genome. Although exons only comprise 1%-2% of the genome, approximately 89% of all known disease-causing mutations are in these regions. However, disease-relevant variants can also be found in non-coding regions. We developed ExomeXtra® Sequencing to also target disease-relevant variants in non-coding regions described in the Human Gene Mutation Database (HGMD) and ClinVar database.

In addition to these non-coding variants, we included a new and unique CNV backbone that enables genome-wide analysis and high-resolution

detection of copy number variations (CNVs). This new CNV backbone allows CNV calling in coding regions and CNV detection in non-coding regions to increase the probability of finding disease-causing mutations.

Thus, our ExomeXtra® Sequencing products combine the advantages of whole exome sequencing (WES) and whole genome sequencing (WGS), covering all disease-relevant genomic regions.

Explore Our Product Portfolio for ExomeXtra® Sequencing

	EXS Classic	EXS Premium	EXS Premium Deep
Species	Human		
DNA quality	High molecular weight DNA	Various/poor quality (e.g., fragmented DNA, low input)	
Target enrichment	ExomeXtra® Sequencing (CeGaT GmbH)		
Targeted region	Whole exomic regions + mitochondrial genome + relevant non-coding regions + CNV backbone		
Sequencing platform	Illumina		
Output	18 Gb		24 Gb
Included deliverables	Project report & FASTQ files		

EXS: ExomeXtra® Sequencing



Want to Discover More?
We invite you to take a look at our website.
www.cebga.com/exomextra-sequencing





About Us

CeGaT was founded in 2009 in Tübingen, Germany. Our scientists are specialized in next-generation sequencing (NGS) for genetic diagnostics, and we also provide a variety of sequencing services for research purposes and pharma solutions. Our sequencing service portfolio is complemented by analyses suited for microbiome, immunology, and translational oncology studies.

Our dedicated project management team of scientists and bio-informaticians works closely with you to develop the best strategy to realize your project. Depending on its scope, we select the most suitable library preparation and conditions on our sequencing platforms.

**We would be pleased to provide you with our excellent service.
Contact us today to start planning your next project.**



Accredited by DAKKS according to
DIN EN ISO/IEC 17025:2018



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