

Exome Sequencing



High-Quality Exome Sequencing Focused On the Most Relevant Regions of the Genome

Exome Sequencing

The exome represents the entirety of all known coding exons of the human genome. Although exons only comprise 1%-2% of the genome, 89% of all known disease-causing mutations are estimated to be located in these regions. Therefore, it is often reasonable to perform a targeted exome analysis.

Whole exome sequencing can be used for various application areas and goals, such as:

- ✗ population genetics
- ✗ genetic disorders
- ✗ rare diseases
- ✗ tumor research



Want to Discover More?

We invite you to take a look at our website.

www.cegat.com/exome-sequencing

Explore Our Product Portfolio for Whole Exome Sequencing

	WES Basic	WES Classic	WES Premium	WES Premium Deep	WES Flex
Species	Human				Human, mouse
DNA quality	High molecular weight DNA		Various/poor quality (e.g., fragmented DNA, low input)		Depends on chosen protocol
Target enrichment	Twist Bioscience				Twist Bioscience; Agilent Sure Select
Targeted region	Whole exomic regions plus mitochondrial genome (Twist), 37 Mb				Core exomic regions (Twist), 33Mb Whole exomic regions (Agilent), 35.7 Mb Whole exomic regions plus mitochondrial genome (Twist), 37 Mb
Sequencing platform	Illumina				
Output	6 Gb approximately 50x coverage (depends on the quality of the starting material)	12 Gb approximately 100x coverage (depends on the quality of the starting material)		24 Gb approximately 150x coverage (depends on the quality of the starting material)	Flexible
Included deliverables	Project report & files in FASTQ format				



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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