CeGaT

Research &
Pharma Solutions

# 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<br>+ mitochondrial genome<br>+ relevant non-coding regions<br>+ CNV backbone | | |
| **Sequencing platform** | Illumina | | |
| **Output** | 18 Gb | | 24 Gb |
| **Included deliverables** | Project report & files in FASTQ format | | |

**EXS:** ExomeXtra ® Sequencing

Want to Discover More?

We invite you to take a look at our website.

**www.cegat.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.**

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COLLEGE of AMERICAN PATHOLOGISTS

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CeGaT GmbH
Research & Pharma Solutions
Paul-Ehrlich-Str. 23
72076 Tübingen
Germany

Phone: +49 7071 56544-333
Fax: +49 7071 56544-56
Email: rps@cegat.com
Web: www.cegat.com/rps

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