

Research &
Pharma Solutions | HLA Typing



Identify Individual HLA Alleles with Next-Generation Sequencing

The human leukocyte antigen (HLA) system is a group of genes that have an important function in the human immune system. The HLA region is highly polymorphic and contains six classical HLA genes: class I with *HLA-A*, *-B*, and *-C*, and class II with *HLA-DRB1*, *-DQB1*, and *-DPB1*. Furthermore, the HLA region is known to be associated with more than 100 multifactorial, complex diseases, mainly with inflammatory and autoimmune pathogenesis. To find out more about the functions and complex interactions of the HLA system, next-generation sequencing (NGS)-based HLA typing can be very helpful.

The application areas of HLA typing are diverse:

- ✕ Supporting the characterization of an individual's response to drug therapy, including pharmacogenetics.
- ✕ Providing important information for immunotherapy to fight cancer.
- ✕ Matching HLA regions of a donor and a recipient for a transplantation



Explore Our Product Portfolio for HLA Typing

	HLA Classic	HLA Flex
Species	Human	
DNA quality	High molecular weight DNA	Flexible
HLA type	HLA class I (<i>HLA-A</i> , <i>-B</i> , and <i>-C</i>) and HLA class II (<i>HLA-DRB1</i> , <i>-DQB1</i> , and <i>-DPB1</i>)	
Sequencing platform	Illumina	
Output	6 Gb	Flexible
Included deliverables	Project report & FASTQ, TSV	

HLA: Human Leukocyte Antigen

Want to Discover More?
We invite you to take a look at our website.
www.cegat.com/hla-typing





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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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