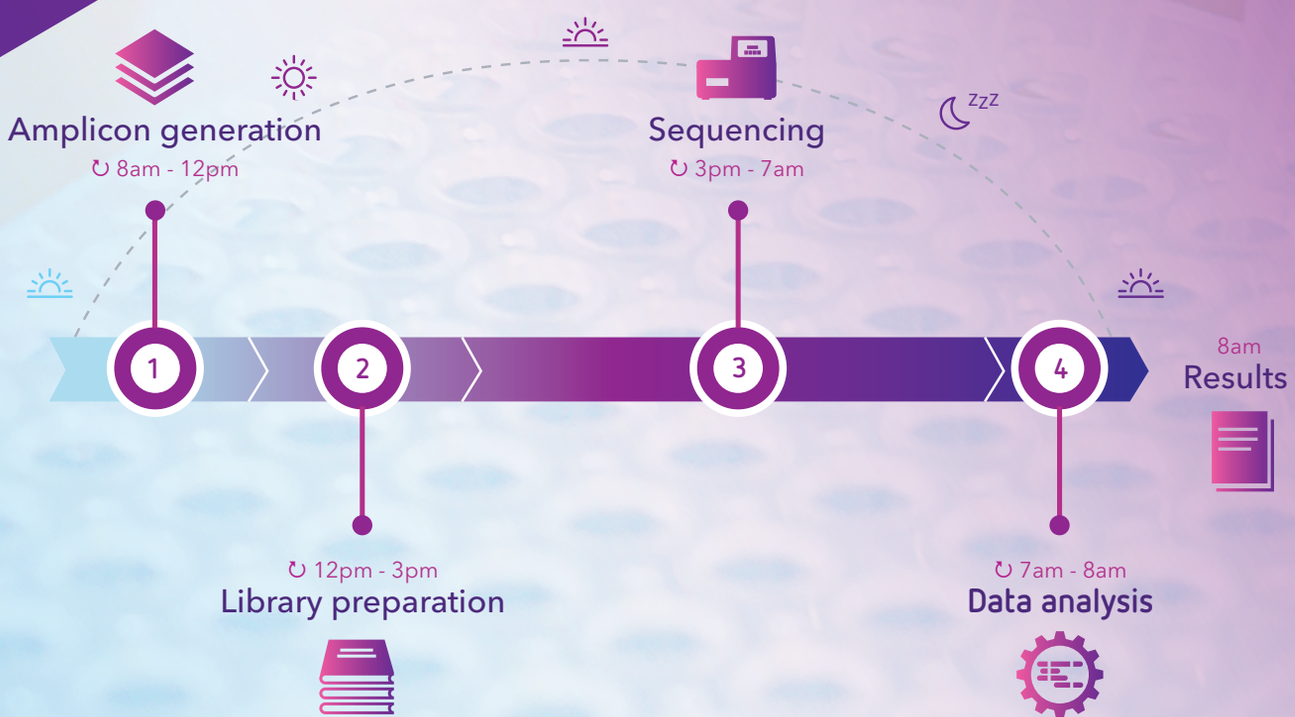
eurobiogendx

NGSgo®-MX6-1

From DNA to HLA typing result in 24 hours



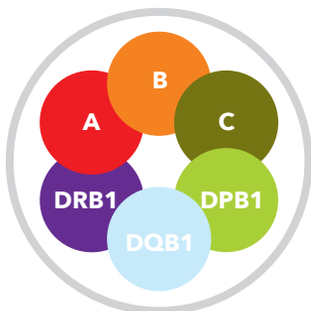
Multiplex amplification
Easy library preparation
Fast results

A FASTER NGS HLA TYPING WORKFLOW

Multiplex amplification

Faster HLA typing by NGS starts with faster amplification. Therefore, we have developed NGSgo-MX6-1: a six-locus multiplex amplification strategy that saves you time and effort. NGSgo-MX6-1 provides optimal gene coverage for HLA-A, -B, -C, -DRB1, -DQB1, and -DPB1 while requiring only a short amplification time. Library preparation is quick and easy, and software analysis takes only minutes per sample.

NGSgo®-MX6-1
six loci in one tube



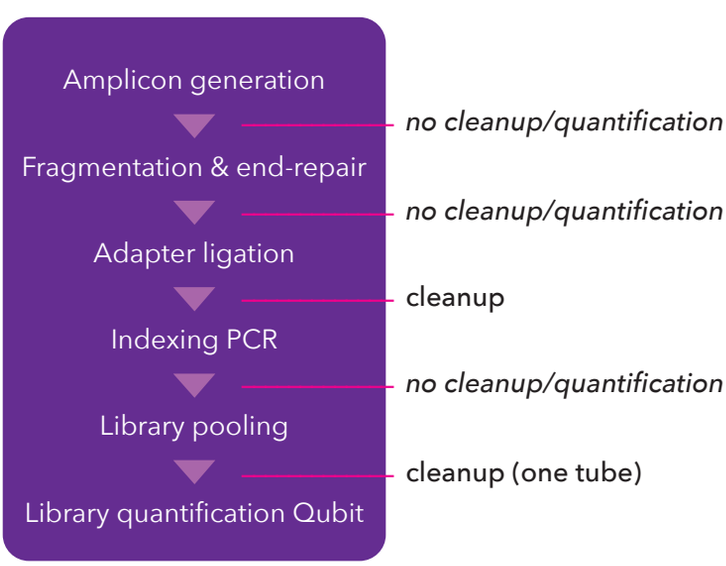
Ready-to-use PCR mastermix

Pipetting steps are minimized by using the GenDx-LongMix enzyme mastermix, which is included in the kit. You combine just four components: mastermix, primer mix, DNA, and water. Run on your thermal cycler and you are ready for the library preparation.

Avoid unnecessary cleanups or quantifications

Our multiplex amplification does not require a bead cleanup, quantification, or normalization afterwards. You just continue with 2 µl of amplified product. The subsequent library preparation has been designed to have minimal cleanups and quantifications, and normalization steps are not required at all. This approach saves you hours of hands-on time!

Library preparation with minimal quantifications and only two cleanups:



Reliable quality

We have shortened and simplified the workflow, while maintaining the highly reliable results you are used to. The NGSgo primer design has been fine-tuned and optimized for over a decade and is extremely accurate and robust. The advanced design means well-balanced alleles, low noise, and higher quality results.

Full flexibility

Next to the multiplex amplification, GenDx also offers single-locus amplifications. They can be easily included in the workflow together with the multiplex, and combined in the sequencing run. This offers you full flexibility, so you can vary the number of genes from run to run or even within a single run from sample to sample. It is also possible to include other genes provided by GenDx, like KIR, MICA, MICB, or HLA-G, -E, -F.

One-Day-Workflow

Our fast workflow featuring NGSgo-MX6-1 makes it possible to do HLA typing by NGS for 10 samples in just 24 hours. This includes amplification, library preparation, sequencing, and data analysis by NGSengine (based on Illumina MiSeq Nano flow cell and 300-cycle kit). A large sample panel of up to 150 samples can be typed in just two days!

NGSgo-MX6-1 Time from DNA to typing result. With Illumina MiSeq

10 samples **1 day**	40 samples **1,5 days**	150 samples **2 days**
Amplicon generation 8am-12pm	Amplicon generation 8am-12pm	Amplicon generation 8am-12pm
Library preparation 12pm-3pm	Library preparation 12pm-4pm	Library preparation 12pm-5pm
Sequencing (nano flow cell) 3pm-7am	Sequencing (micro flow cell) 4pm-12pm	Sequencing (standard flow cell) 5pm-5pm
Data analysis 7am-8am	Data analysis 12pm-13pm	Data analysis 5pm-9pm

iSeq
40 samples
in 1 day

MiniSeq
80 samples
in 1,5 day

Gene coverage

NGSgo-MX6-1
HLA-A (whole gene)
HLA-B (whole gene)
HLA-C (whole gene)
HLA-DRB1 (exon 2-3)
HLA-DQB1 (exon 2-4, partial 4)
HLA-DPB1 (exon 2-5)

Video **One-Day-Workflow**

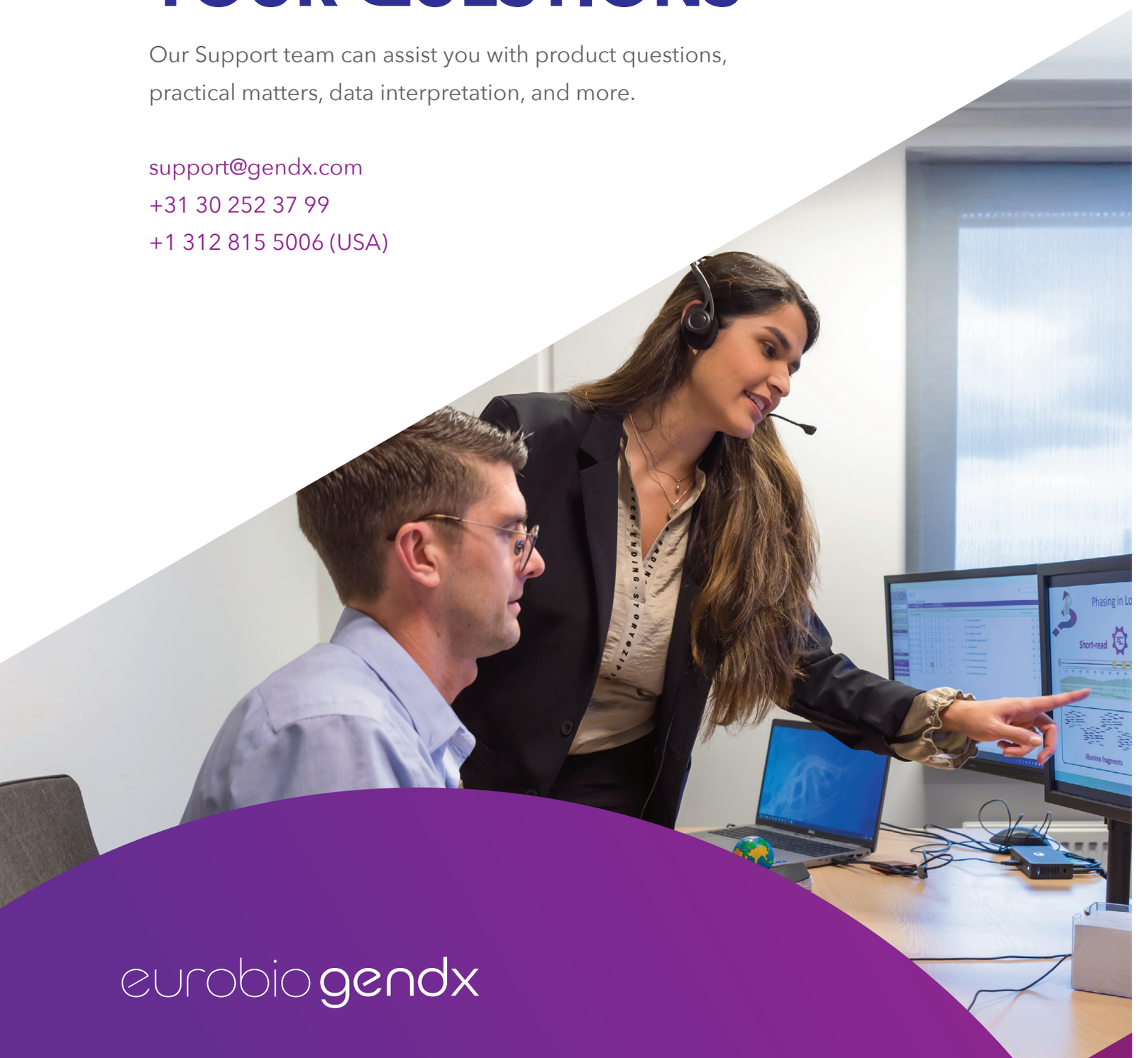
Learn more about the One-Day-Workflow
www.gendx.com/one-day-workflow

Support

CHALLENGE US WITH
YOUR QUESTIONS

Our Support team can assist you with product questions, practical matters, data interpretation, and more.

support@gendx.com
+31 30 252 37 99
+1 312 815 5006 (USA)



eurobio gendx

Alexander Numan Building
Yalelaan 48
3584 CM Utrecht
the Netherlands
Phone: +31 30 2523799

Cumberland Metro Office Park
5521 N. Cumberland Avenue
Suite 1116
Chicago, IL 60656 USA
Phone: +1 312 815 5006

www.GenDx.com

info@gendx.com

M19-018, V6 2024-10