

A close-up, slightly blurred photograph of a stack of white test tubes. The tubes contain a red liquid and are labeled with a barcode and some text. The background is a light grey.

# *RBC-NGType®*

*Blood group genotyping with  
the accuracy and throughput of NGS*

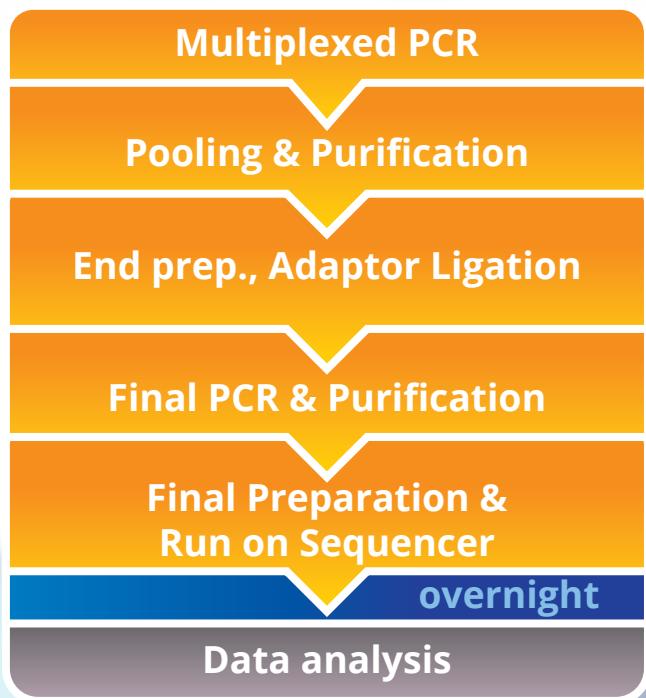
# RBC-NGType®

## The perfect solution for your high resolution blood group genotyping

RBC-NGType® uses Next-Generation-Sequencing for high resolution typing of the most important blood group systems and many samples in parallel.

It features an easy workflow which can be performed in one day and can run on any Illumina NGS system. The collected data is automatically analysed on the user-friendly and powerful NGType® Software.

## The Workflow



## Kit Design

### Initial PCR:

- Multiplexed primer mixes for initial PCR
- Reaction Mastermix, including Taq
- Control DNA

### Library Preparation:

Own and established library preparation workflow can be used.

3<sup>rd</sup> party recommendations are available.

### Data analysis:

- RBC-NGType® Software

## ISBT Database

### Revolutionize Your Genotyping with our ISBT-based Database and NGS Technology

Our product utilizes Next-Generation-Sequencing technology to align data to our comprehensive database, based on the ISBT list, which includes all stated SNPs and other available sequences.

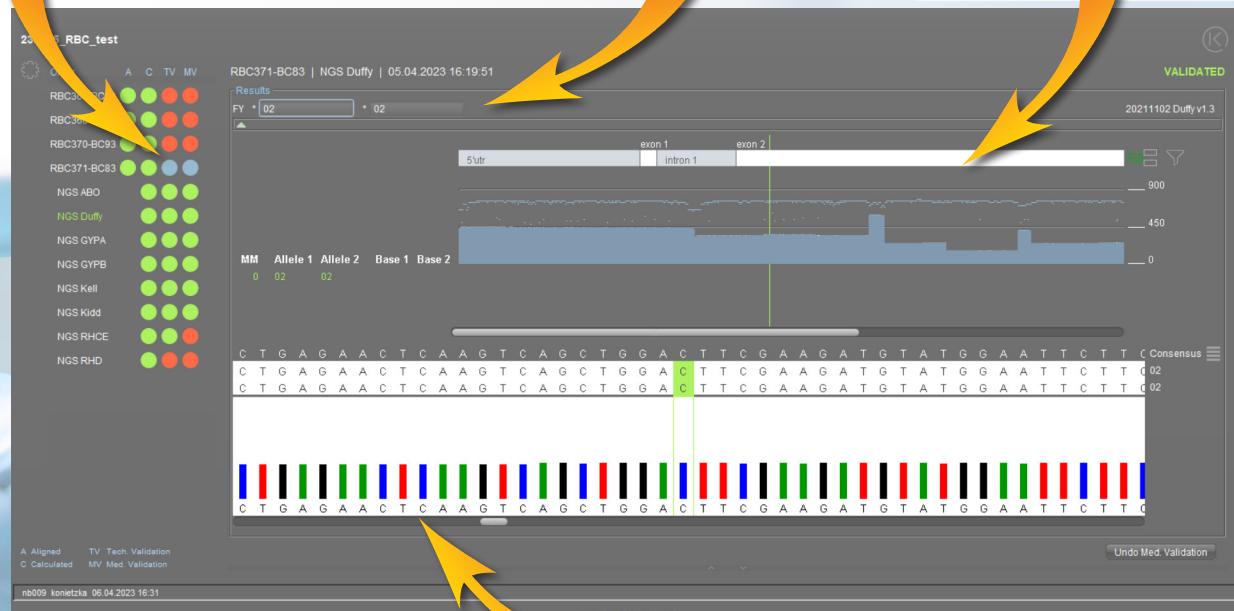
This database has been developed in collaboration with renowned expert Prof. Dr. C. Gassner, and will be continuously updated with the latest ISBT information to ensure the highest level of accuracy and reliability.

# NGStype® Software

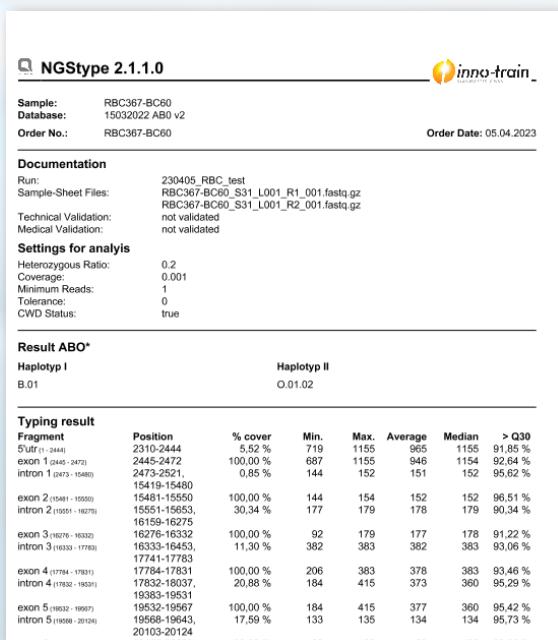
Sample and loci overview with color code for analysis status.

High resolution results based on ISBT information.

Coverage plot with indicator for heterozygous positions and contigs.



Quantitative representation of each individual nucleotide.



## Concise information on report

The locus specific report of the NGStype® Software contains all necessary information.

Valuable information like coverage and quality score about each exon and intron are listed as well as the ratios for each heterozygous position.

Additionally, a summary report with all analyzed loci for a sample can be exported.

# Advantages of RBC-NGStype®

- High resolution blood group genotyping
- CORE kit with 48 samples on a Illumina MiSeq Nano (0.3 Gb) Flow Cell in parallel
- Exon PCR with just 2 multiplexed reactions per sample
- Paired-end reads: 2\*150 bp
- Works with all Illumina platforms
- Databases based on ISBT tables
- Developed in collaboration with Prof. Dr. Christoph Gassner

	RBC-NGStype® CORE	RBC-NGStype® enCORE	RBC-NGStype® enCORE+
Article No.:	001 110 024	001 120 024	001 130 024
Multiplexes	2	2	2
Available	Yes	Coming soon	Coming soon
Blood Group Systems	ABO Rh MNS Kell Kidd Duffy	Lutheran Yt Dombrock Colton Landsteiner-Wiener Knops Vel	P1PK Diego Scianna Chido/Rodgers Gerbich Cromer Indian John Milton Hagen Rh-asso. glycoprotein JR LAN
<b>All exons and relevant non-coding region amplified</b>		<b>Key exons and relevant non-coding region amplified</b>	



**USA and Canada:**  
For Research Use Only.  
Not for use in diagnostic procedures.

## Worldwide Headquarters

inno-train Diagnostik GmbH  
Niederhöchstädtter Str. 62  
61476 Kronberg  
Deutschland

+49 (0)6173 60 79 30  
[info@inno-train.de](mailto:info@inno-train.de)

## North American Division

inno-train Diagnostik  
108 Utica Street  
Clinton, NY 13323  
USA

+1 (888) 352 2196  
[info@innotrain.org](mailto:info@innotrain.org)