

RBC-NGStype®
*Blood group genotyping with
the accuracy and throughput of NGS*

RBC-NGStype®

The perfect solution for your high resolution blood group genotyping

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

Multiple easy workflows, each performed in one day, are available. The sequencing can be performed on various devices including Illumina and ONT. The collected data is automatically analysed in the user-friendly and powerful NGStype® Software.

Kit Design

Initial PCR:

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

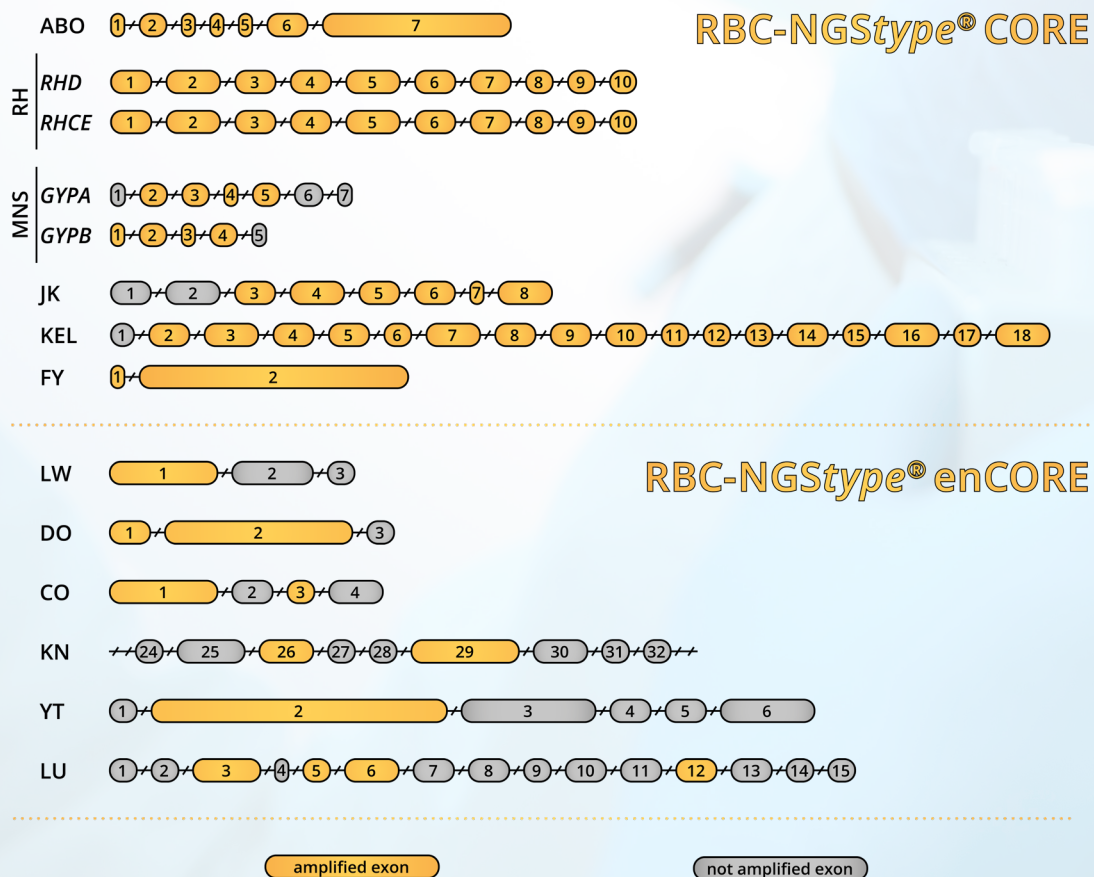
Library Preparation:

- Choose flexible between different 3rd party recommendations for sequencing with Illumina, Oxford Nanopore, or MGI sequencers.

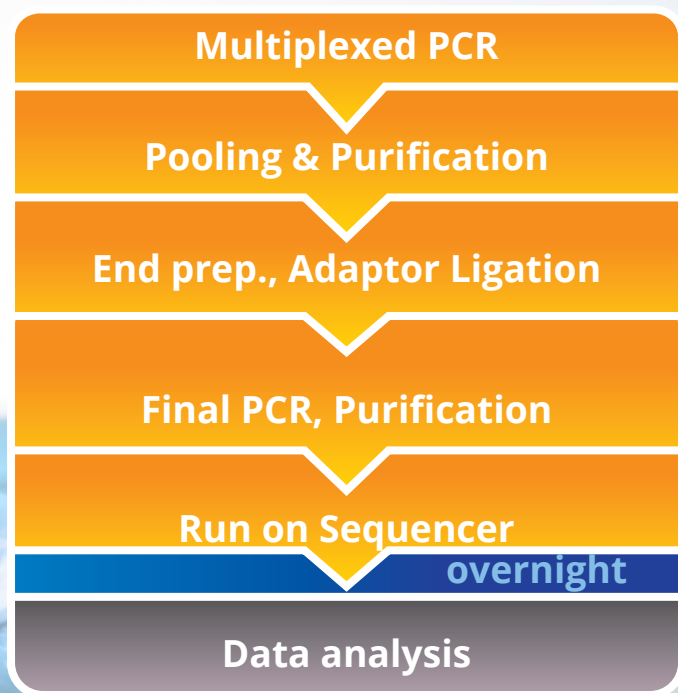
Data analysis:

- RBC-NGStype® Software

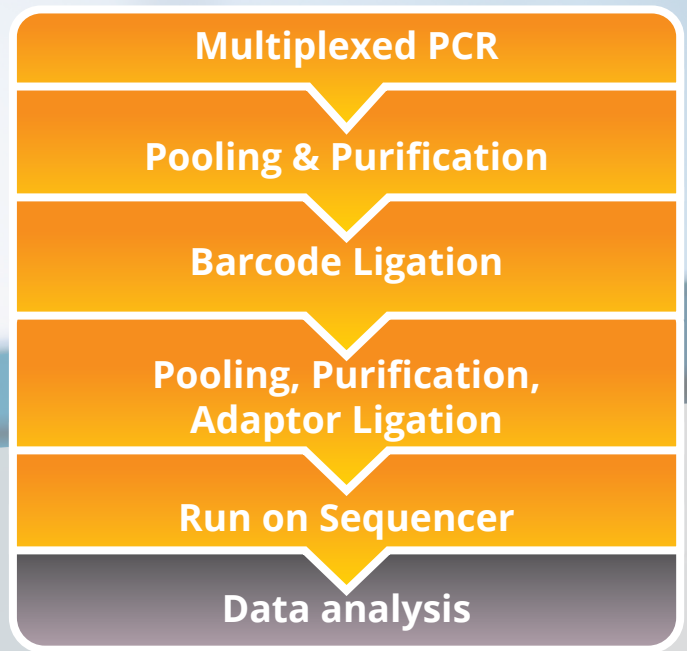
Coverage of all relevant regions



Illumina Workflow



ONT Workflow

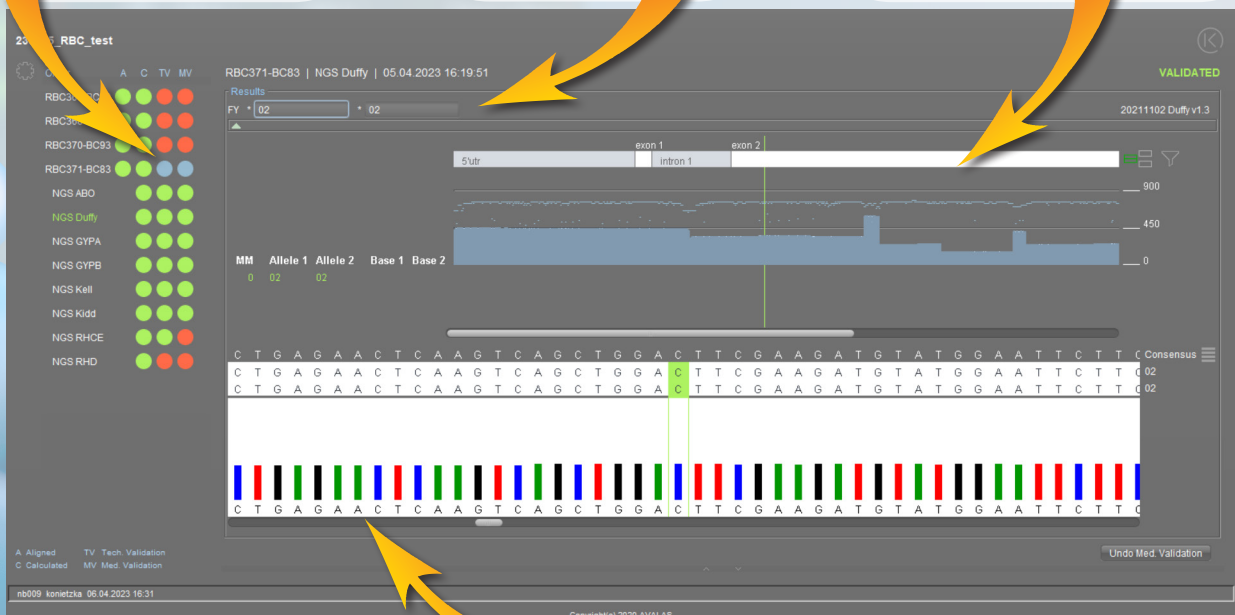


NGStype® Software

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.



RBC NGS Database based on ISBT tables and developed in collaboration with renowned expert Prof. Dr. C. Gassner.

Quantitative representation of each individual nucleotide.

Individual reports either by locus or sample are available.

Advantages of RBC-NGStype®

- High resolution blood group genotyping
- Many samples in parallel
- Exon PCR with multiplexed reactions
- Works with all Illumina platforms – 2 x 150 bp reads
- Works with Oxford Nanopore platforms*
- Different modules can be combined with each other or HLA typing
- NGS database based on ISBT tables
- Developed in collaboration with Prof. Dr. Christoph Gassner

More Information:



	RBC-NGStype® CORE	RBC-NGStype® enCORE	RBC-NGStype® enCORE+
Article No.:	001 110 024	001 120 024	001 130 024
Available	Yes	Yes	Coming soon
Reactions/kit	24	24	24
Blood Group Systems	ABO	Lutheran	P1PK
	Rh	Yt	Diego
	MNS	Dombrock	Scianna
	Kell	Colton	Chido/Rodgers
	Kidd	Landsteiner-Wiener	Gerbich
	Duffy	Knops	Cromer
	All exons and relevant non-coding region amplified Key exons and relevant non-coding region amplified		Indian
			John Milton Hagen
			Rh-asso. glycoprotein
			JR
			LAN

* The ONT alignment algorithm may complicate result interpretation for allele combinations of hybrid genes (RHD/RHCE, GYPA/GYPB) within the used exon amplification strategy.



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

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