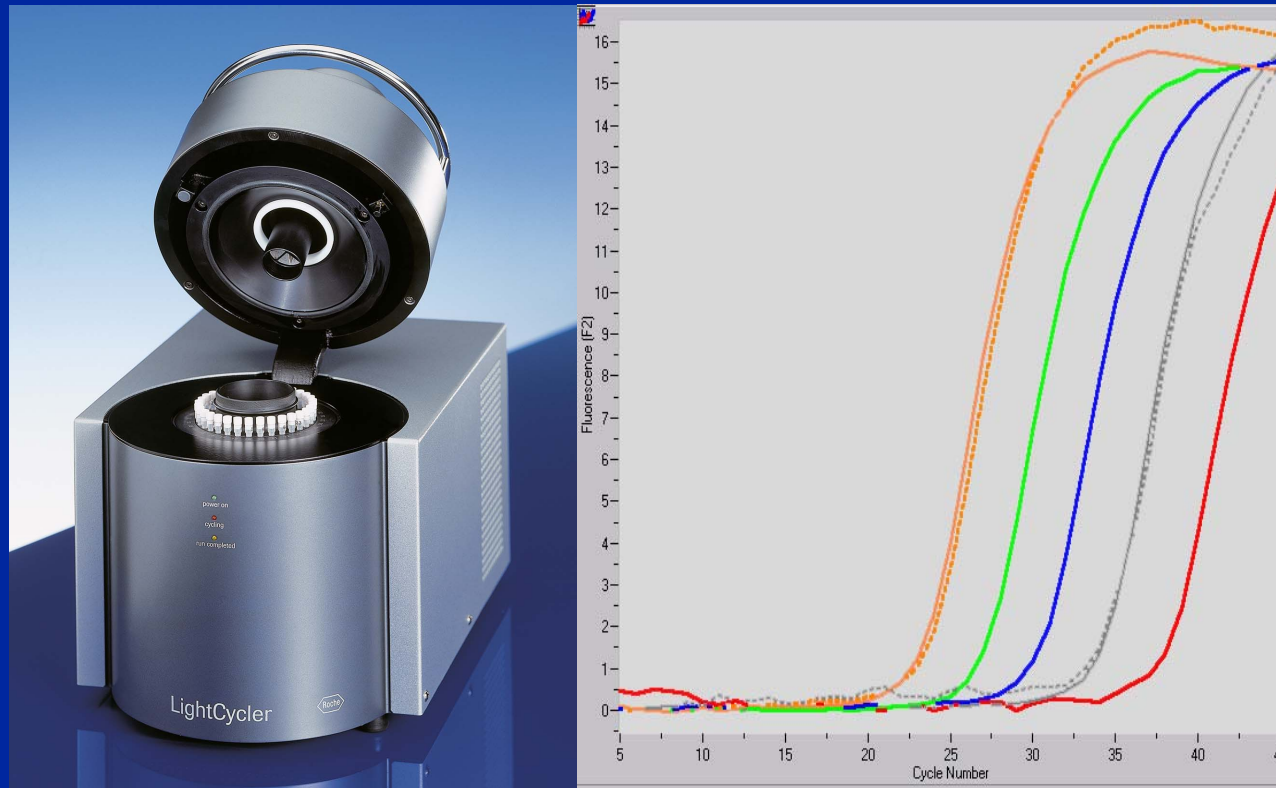


# LightCycler® and Genotyping



*Dr. H. Stockinger, 30 – 11-25*



## **Factor V Leiden Kit**

(Cat. No.: 0 3610 179 001)

## **Factor II (Prothrombin) G20210A Kit**

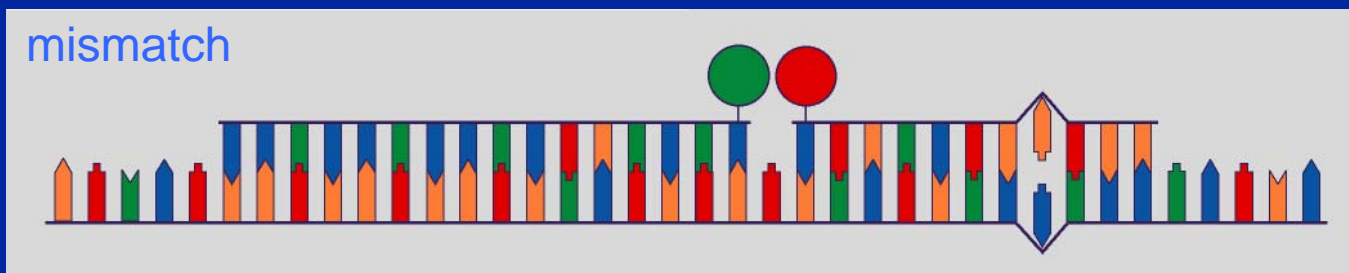
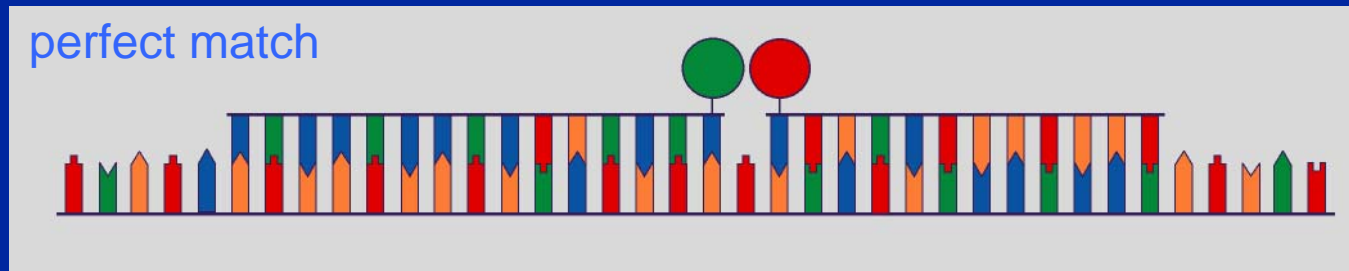
(Cat. No.: 0 3610 195 001)

*For use with*

**LightCycler® 1.2 Instrument**  
**LightCycler® 2.0 Instrument CE**

# Factor V Leiden Kit // Factor II Kit

## Mutation Detection Probe Principle



Anchor Probe

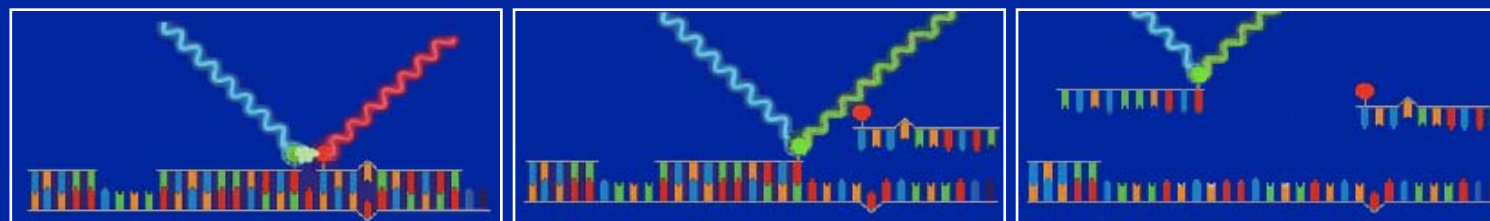
Mutation Probe

$T_m$  of Mutation Probe approx. 5 °C lower than  $T_m$  of Anchor Probe

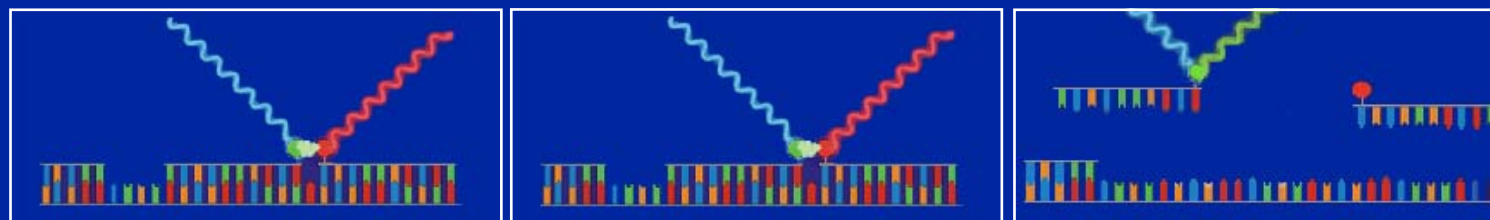
# Factor V Leiden Kit // Factor II Kit

## Melting Curve Analysis Principle

Mismatch



Perfect match



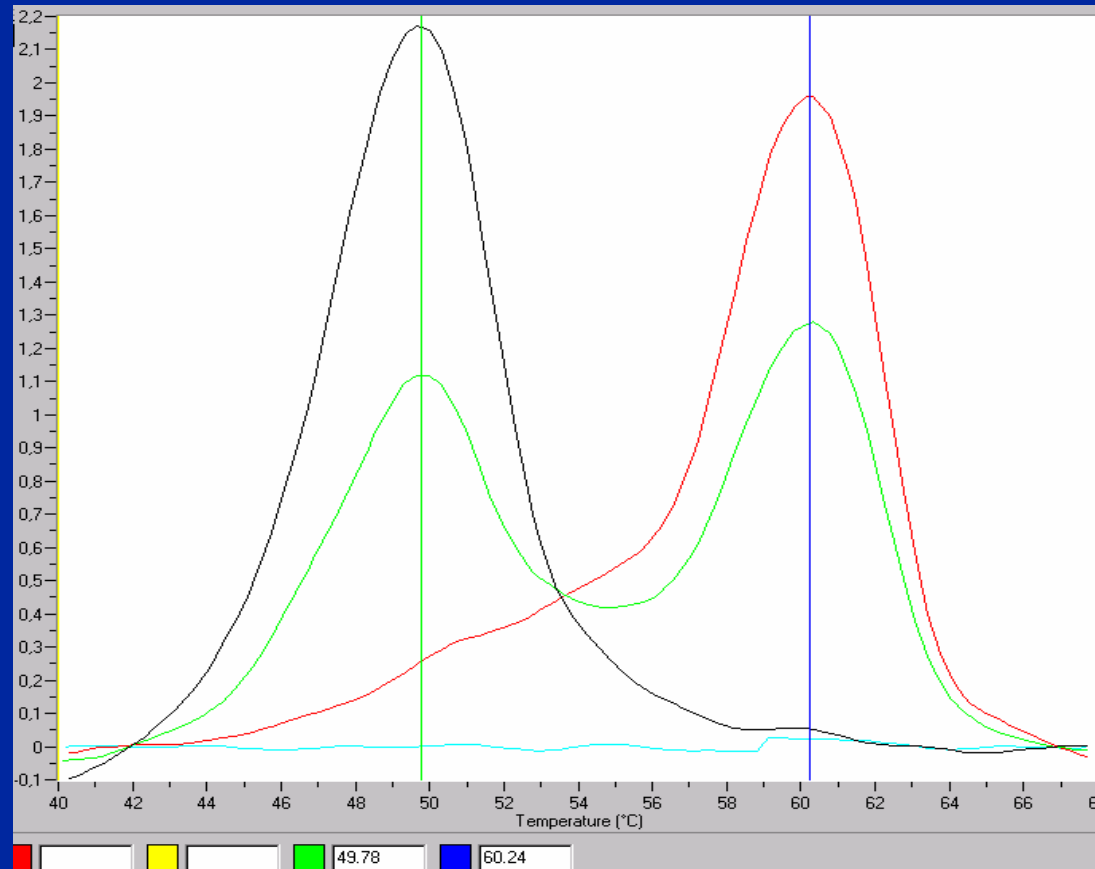
Low

medium

high

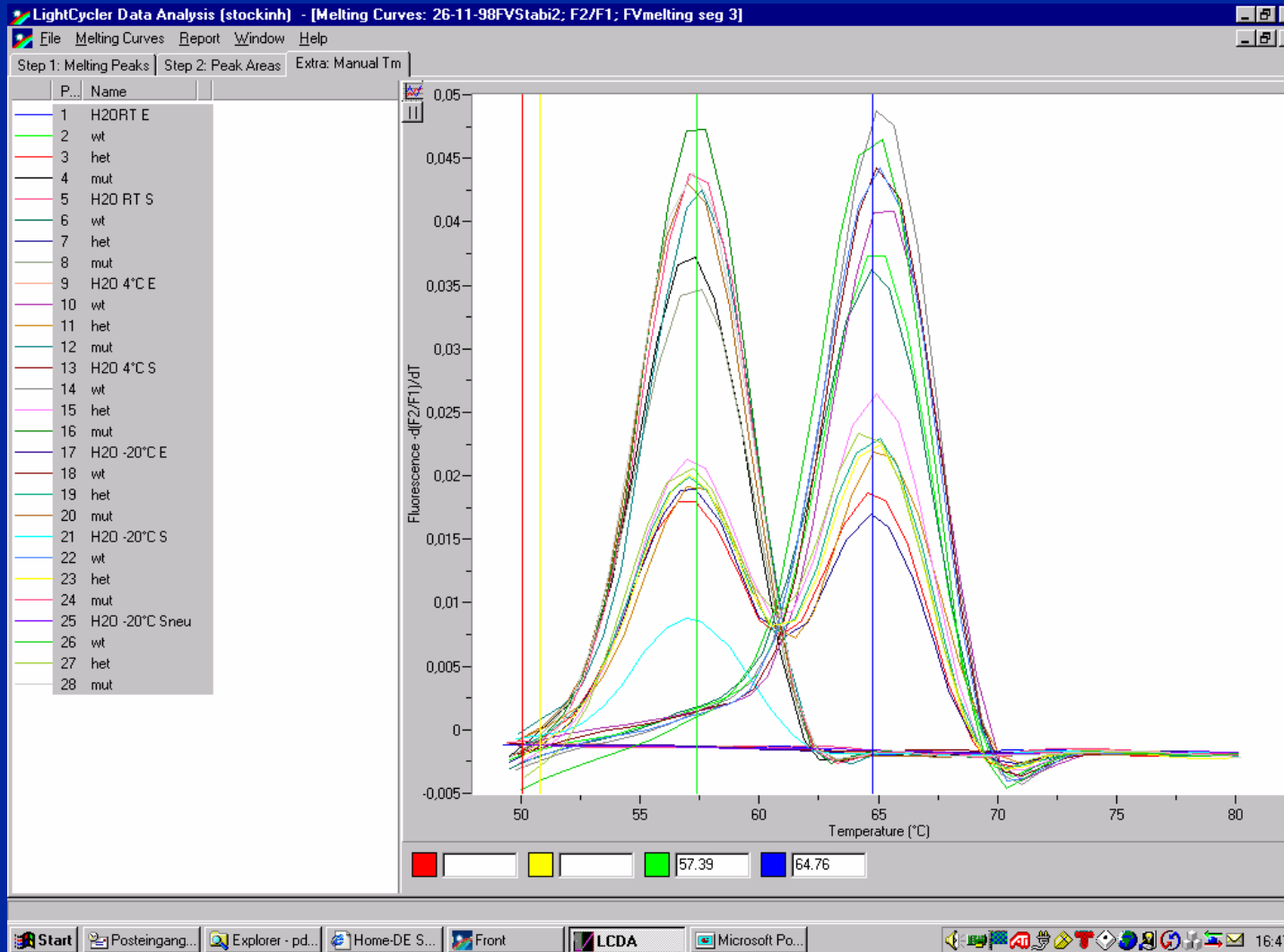
Temperature

# Factor V Leiden Kit IVD Genotyping



- Homozygous Wildtype
- Heterozygous Mutant
- Homozygous Mutant
- Negative Control

# Factor V Stability - Melting Curves -





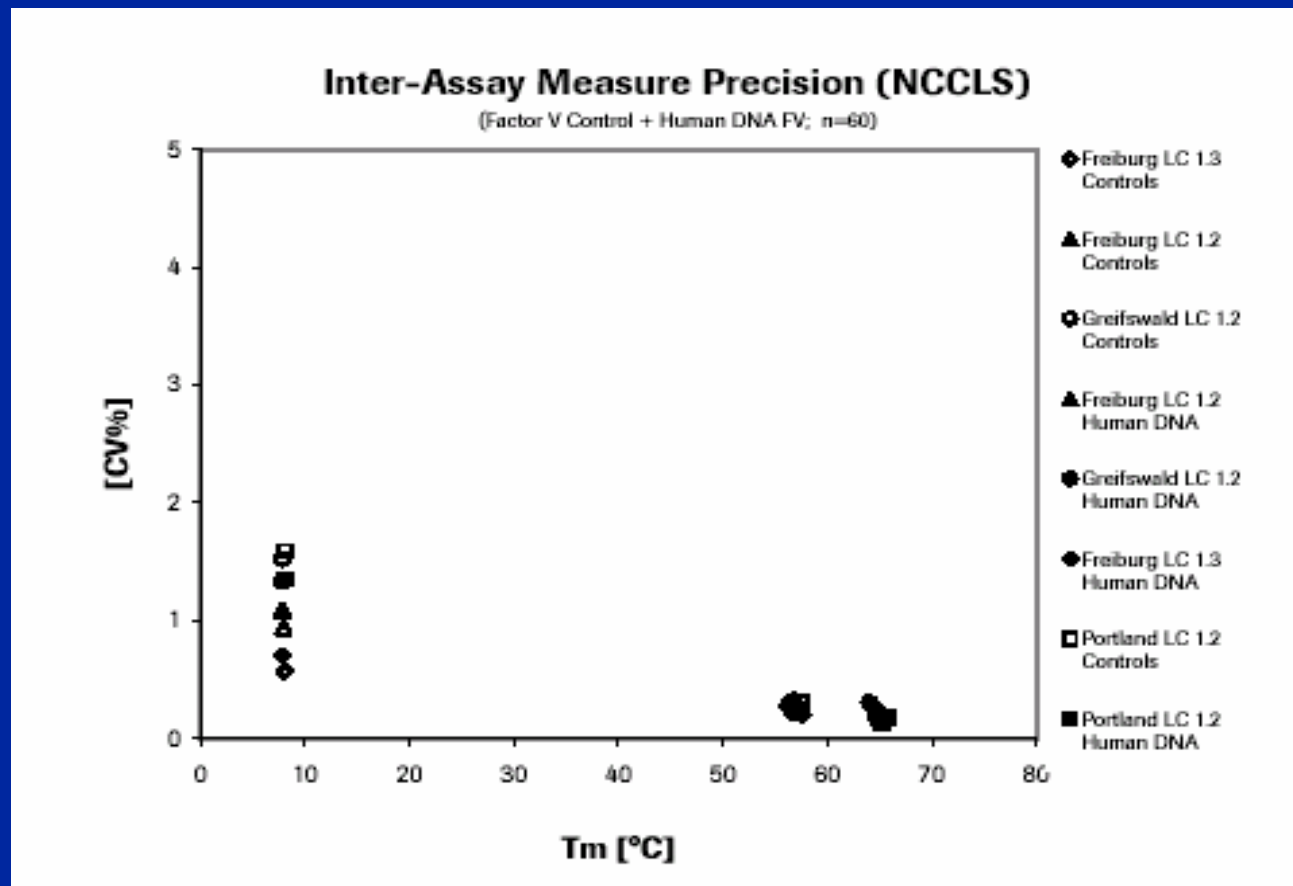
# **Factor V Leiden Kit Factor II (Prothrombin) G20210A Kit**

## **Kit contents**

- **Mutation Detection Mix in Alu-Container (yellow cap)**
- **Reaction Mix (red cap)**
- **Control Template (purple cap)**
- **Diluent (colorless cap)**
- **2 Pack Inserts (additional CD-ROM for routine user)**

# Validation Study LC Factor V Leiden

## Inter Assay acc. to NCCLS







# Factor V Leiden Kit // Factor II Kit

PCR analysis correlates to sequence analysis

		PCR analysis					
		Factor V Leiden Kit			Factor II (Prothrombin)		
		Wild-type (wt)	Heterozygous (het)	Mutant (mut)	Wild-type (wt)	Heterozygous (het)	Mutant (mut)
Sequence analysis	■ Wt	468	0	0	519	0	0
	■ Het	0	85	0	0	50	0
	■ Mut	0	0	5	0	0	0

# Validation Study LC Factor V Leiden Polymorphisms

- **Mutation/Polymorphisms Factor V Leiden Kit**
  - **A1691C (Factor V Leiden)**
  - **A1692C (silent mutation)**
  - **G1689A**
  - **A1696G**

