ESTABLISHED INNOVATIONS IN DIAGNOSTICS

RealFast™ Assays

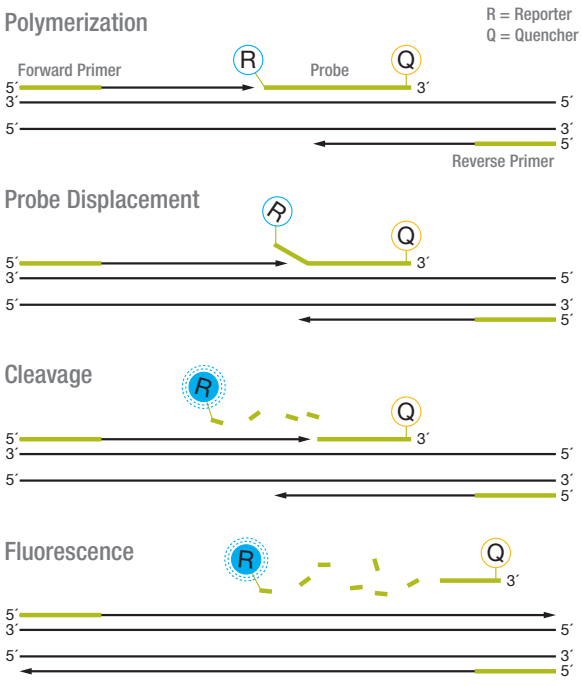
Fast, simple and accurate detection of single nucleotide polymorphisms (SNPs) and copy number variations (CNVs)

Principle of Test

The ViennaLab RealFast™ Assays are based on real-time PCR and hydrolysis probes, also commonly called TaqMan® probes. The sequence-specific oligonucleotide probes carry a fluorescent reporter dye at the 5´-end and a quencher dye at the 3´-end. While the probe is intact, the quencher is close enough to the reporter to suppress the fluorescent signal of the 5´-fluorophore.

During the combined annealing/extension phase of PCR, the probe is cleaved by the 5´ to 3´ exonuclease activity of Taq DNA polymerase, thereby separating the fluorophore from the quencher dye.

This process results in detectable fluorescence, which is proportional to the amount of accumulated PCR product.



- Fast and easy handling
- Less than 90 min from DNA to result
- Ready-to-use reagents
- Include controls for wild type and mutant genotypes
- Same protocol for all genotyping assays
- Compatible with many real-time PCR instruments

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ViennaLab offers RealFast™ Assays for a wide range of diagnostic applications

Field	Product	Cat No	Application
Congenital Adrenal Hyperplasia	**CAH** RealFast™ CNV Assay	7-410	Discriminates between deletions, duplications and normal copy number status of the *CYP21A2* gene in patients with congenital adrenal hyperplasia (CAH)
Cardiovascular Disease	**FV Leiden** RealFast™ Assay	7-110	Detects the most common genetic risk factor associated with venous thromboembolism
	PTH 20210G>A RealFast™ Assay	7-120	Detects the second most important genetic risk factor for venous thromboembolism
	MTHFR 677C>T RealFast™ Assay	7-160	Detect common mutations in the *methylenetetrahydrofolate reductase* gene causing hyperhomocysteinemia, which is a risk factor for cardiovascular disease
	MTHFR 1298A>C RealFast™ Assay	7-170	
	PAI-1 4G/5G RealFast™ Assay	7-180	Detects a genetic risk factor for cardiovascular disease and pregnancy complications
Haemochromatosis	**HFE C282Y** RealFast™ Assay	7-130	Detect common mutations in the *HFE* gene causing hereditary haemochromatosis (HH) type 1
	HFE H63D RealFast™ Assay	7-140	
Lactose Intolerance	**LCT -13910C>T** RealFast™ Assay	7-150	Detects the most common polymorphism causing lactase non-persistence
Pharmacogenetics	**MTHFR 677C>T** RealFast™ Assay	7-160	Detect common mutations in the *methylenetetrahydrofolate reductase* gene associated with methotrexate-induced toxicity
	MTHFR 1298A>C RealFast™ Assay	7-170	
	VKORC1 -1639G>A RealFast™ Assay	7-190	Detects the most important polymorphism associated with interindividual dose requirements for oral anticoagulants
	HLA-B*5701 RealFast™ Assay	7-610	Detects HLA-B*57:01 alleles, which are associated with hypersensitivity to the anti-HIV drug abacavir

ViennaLab is continuously extending its RealFast™ Assay portfolio

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