

RealFast™ Assays

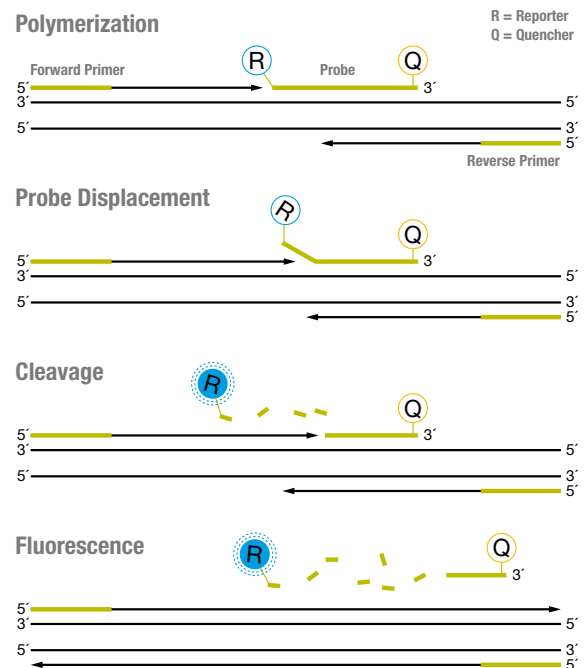
Fast, simple and accurate detection of single nucleotide polymorphisms (SNPs) and copy number variations (CNVs)

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

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 <i>CYP21A2</i> 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 <i>methylenetetrahydrofolate reductase</i> 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 <i>HFE</i> 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
HLA	HLA-B5701 RealFast™ Assay	7-610	Detects the HLA-B*57:01 allele, which is associated with hypersensitivity to the anti-HIV drug abacavir
	HLA-B27 RealFast™ Assay	7-620	Detects the HLA-B*27 allele, which is associated with ankylosing spondylitis
Pharmacogenetics	MTHFR 677C>T RealFast™ Assay	7-160	Detect common mutations in the <i>methylenetetrahydrofolate reductase</i> 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-B5701 RealFast™ Assay	7-610	Detects the HLA-B*57:01 allele, which is associated with hypersensitivity to the anti-HIV drug abacavir

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