



Human ALDH2 Gene Nucleic Acid Detection Kit

(Fluorescence PCR Method)

The ALDH2 gene is located on human chromosome 12 and encodes two isomerases, aldehyde dehydrogenase 2 and nitroesterase. It is not only involved in the metabolism of nitroglycerin, but also related to the metabolism of alcohol in the human body. Studies have shown that mutations at locus c.1510 of ALDH2 gene can reduce the activity of related metabolic enzymes.

The Tianlong Human ALDH2 Gene Nucleic Acid Detection Kit is intended for qualitative detection of ALDH2 gene (c.1510) locus (G/A) nucleotide polymorphism in human peripheral blood genomic DNA samples by Real-time Polymerase Chain Reaction (Real-time PCR) method.

Genetic Loci	Gene Polymorphism	Nitroglycerin and alcohol intake
ALDH2(c.1510G>A)	GG	Take normally
	GA	Take cautiously
	AA	Prohibite

FEATURES



Reliable Detection

Reliable detection of ALDH2 gene (c.1510) locus (G/A) nucleotide polymorphism in human peripheral blood genomic DNA samples



High Sensitivity

Limit of detection is up to 1ng/μL



Internal Control

The use of internal control system in the kit can effectively prevent false negative results



High Precision

The precision values of intra and inter Ct values were all ≤5.0%



User-friendly

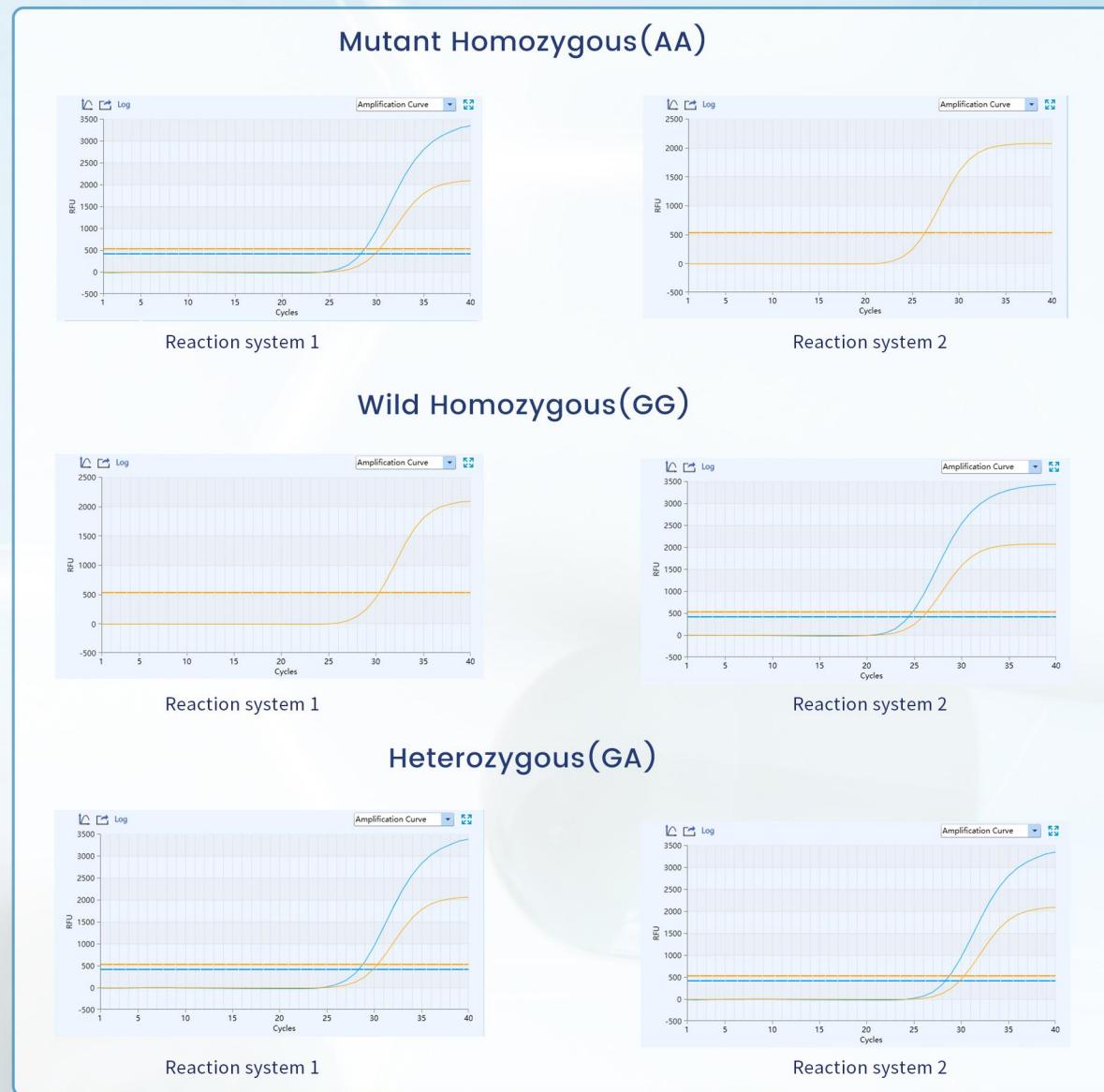
Widely applicable in instruments with FAM, Texas Red fluorescence



More Accessible

CE marked, accessible for more countries

GENE POLYMORPHISM



CLINICAL SIGNIFICANCE



Personalized medicine for nitroglycerin, avoid ineffective use

Nitroglycerin is often used in the treatment of coronary heart disease and angina pectoris. The detection of human ALDH2 gene can guide the use of nitroglycerin and help seek better therapy for people with coronary heart disease and angina pectoris.



Indication of personal alcohol metabolism ability, reducing the risk for associated disorders

The detection of ALDH2 gene can indicate personal alcohol metabolism ability, reducing the risk for associated disorders and guiding for personal alcohol intake.

SPECIFICITY

PCR specificity has been evaluated on various genes. This kit can detect Human ALDH2 Gene, and has no cross reaction with other genes.

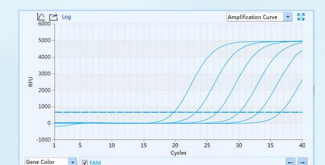
	Genes	Tianlong Human ALDH2 Gene Nucleic Acid Detection Kit (Fluorescence PCR Method)
Specificity	ALDH3, ALDH5, ALDH6, ALDH7, ALDH10, ALDH11, ALDH12, ALDH18, ALDH19, ALDH21, ALDH22, ALDH23 and ALDH24	Not detected

ORDERING INFORMATION

Product Name	Human ALDH2 Gene Nucleic Acid Detection Kit (Fluorescence PCR Method)
Cat.No	P133H
Specification	25T/Kit
Specimen	Human peripheral blood
Target Gene	ALDH2
Storage & Validity	-25°C~-15°C for 12 months
Applicable Equipment	Instruments with FAM and Texas Red fluorescence channels, such as Tianlong Gentier Real-time PCR Systems and Applied Biosystems™ 7500 Real-Time PCR Systems.

ASSAY WORKFLOW

- 1 Sample Collection
- 2 Nucleic Acid Extraction
- 3 PCR Detection
- 4 Analysis and Report



Version 2.0

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