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## Human MTHFR\MTRR Gene Polymorphism Detection Kit

(PCR Melting Curve Method)

Methylenetetrahydrofolate reductase (MTHFR) is a key enzyme in the methionine-folate metabolism system, and maintains the normal metabolism of folic acid with methionine synthase reductase (MTRR). In addition, it is also involved in maintaining normal homocysteine levels in the body.

People with abnormal MTHFR gene have low enzyme activity and folic acid metabolism disorders, which lead to a significantly increased risk of neonatal neural tube defects, down syndrome, and cleft lip and palate. And such people need more folic acid supplements to achieve the desired effect.

This kit is a supplementary reagent for the "Human MTHFR Gene Polymorphism Detection Kit", which can qualitatively detect the polymorphism of human MTHFR gene locus c.1298 and human MTRR gene locus c.66.

<b>Technique</b>	PCR-Melting Curve Method	
<b>Coverage</b>	MTHFR (1298A>C)	✓
	MTRR (66A>G)	✓



Indication of birth defects



Risk warning of cardiovascular and cerebrovascular diseases



Personalized folic acid supplements

## FEATURES



### Reliable Detection

Reliable detection of MTHFR (1298A>C) and MTRR (66A>G), being a supplement for MTHFR (C677T) detection kit



### High Sensitivity

Sensitive to detect up to 2ng/μL human genomic DNA



### Internal Control

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



### High Precision

The Tm value range was ≤1.5°C



### User-friendly

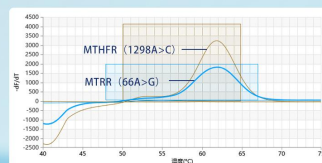
Validated on melting curve analysis systems with FAM and ROX fluorescence channels



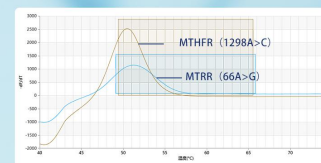
### More Accessible

CE marked, accessible for more countries

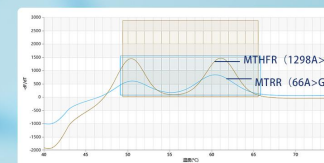
## GENE POLYMORPHISM



Mutant Homozygous



Wild Homozygous



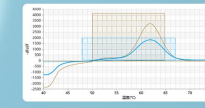
Heterozygous

## ORDERING INFORMATION

<b>Product Name</b>	Human MTHFR\MTRR Gene Polymorphism Detection Kit (PCR Melting Curve Method)	
<b>Cat.No</b>	P164H	P165H
<b>Specification</b>	24T/Kit	48T/Kit
<b>Specimen</b>	EDTA anticoagulated whole blood	
<b>Target Gene</b>	MTHFR (1298A>C) and MTRR (66A>G)	
<b>Storage &amp; Validity</b>	-25°C~-15°C for 6 months	
<b>Applicable Equipment</b>	Instruments with FAM and ROX fluorescence channels	

## ASSAY WORKFLOW

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



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