

Product Name : XENO ApoE Genotyping Kit

Revision Number : 1.2

NIDS License Number : IVD-22-4683 (Oct. 11. 2022)

Store at -20°C

Product Description

Several auxiliary tests have been proposed for diagnosis of Alzheimer's disease (AD), one of which is the Apolipoprotein E (ApoE) genotype test. ApoE protein, as a fat transporter, plays a key role in regulating fat metabolism of the damaged central and peripheral nervous systems. ApoE protein was initially found to play an important role in lipoprotein metabolism and cardiovascular disease. Recently, it has been studied for its direct and indirect role in the transport of lipoprotein such as Alzheimer's disease.

This product is a reagent for gene amplification devices that uses a fluorescent probe to determine the polymorphism of the 112, 158 SNP site in the amino acid sequence of the ApoE gene rapidly and accurately with real-time PCR equipment.

Workflow



Six ApoE Alleles

ApoE Alleles	ApoE 112 Genotype	ApoE 158 Genotype
E2/E2	TT	TT
E2/E3	TT	TC
E2/E4	TC	TC
E3/E3	TT	CC
E3/E4	TC	CC
E4/E4	CC	CC

Kit Contents

XENO ApoE Genotyping Kit (Cat. No. 9366A70E)	Amount	Quantity
2X Xeno Real-Time PCR Mixture	500 µl	4
Primer & Probe Mixture (ApoE 112)	250 µl	2
Primer & Probe Mixture (ApoE 158)	250 µl	2
T/T type Control DNA (ApoE 112)	100 µl	1
T/T type Control DNA (ApoE 158)	100 µl	1
T/C type Control DNA (ApoE 112)	100 µl	1
T/C type Control DNA (ApoE 158)	100 µl	1
C/C type Control DNA (ApoE 112)	100 µl	1
C/C type Control DNA (ApoE 158)	100 µl	1
Nuclease free Water	200 µl	2

Product Performance

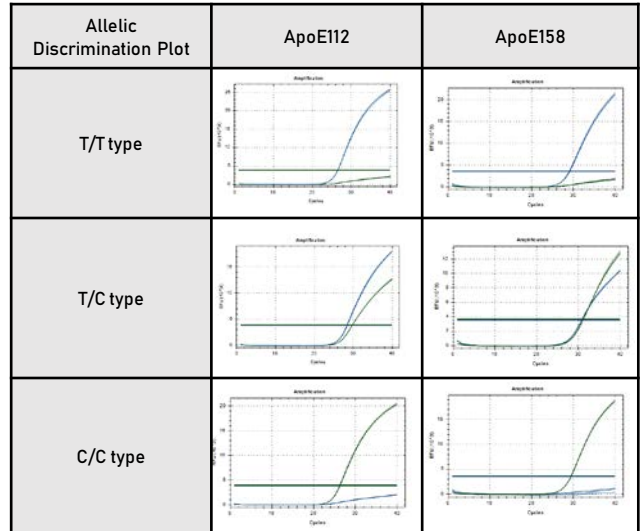


Figure 1. Results after genotyping PCR performance using Control DNA as a template and checking up via amplification plot

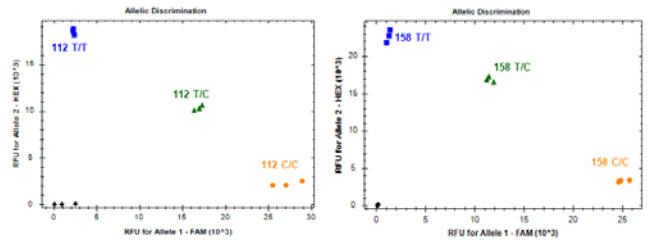


Figure 2. Results after genotyping PCR performance using Control DNA as a template and analyzing genotyping result via discrimination plot.

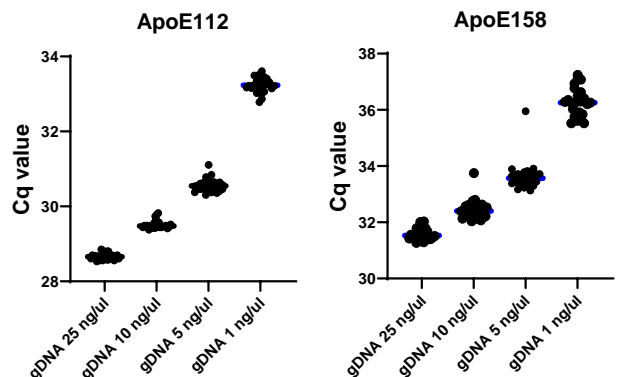


Figure 3. Sensitivity of ApoE genotyping kit. Genotyping PCR is performed using each concentration of genomic DNA as a template. The change in Cq value can be confirmed according to the change in the amount of DNA. The detectable range of this kit is a minimum of 5 ng and a maximum of 125 ng of genomic DNA.