



Genvinset® ApoE

Molecular determination of ApoE genotypes

Kit for detecting variants rs429358 and rs7412 of the *APOE* gene
by Real-Time PCR using hydrolysis probes technology

About Genvinset® ApoE

Apolipoprotein E (APOE) is a key plasma protein involved in lipid transport, and in the clearance of lipoprotein complexes. In the central nervous system, it plays a crucial role in homeostasis, neuronal repair, and β -amyloid metabolism.

The genetic variability of *APOE* is mainly determined by two functional polymorphisms located in exon 4, rs429358 and rs7412, whose combination defines three common alleles: ϵ 2, ϵ 3, and ϵ 4.

The different *APOE* genotypes are associated with differences in lipid metabolism and with the risk of multiple conditions, including cardiovascular diseases, type 2 diabetes, and other neurodegenerative disorders. In particular, the *APOE* ϵ 4 allele represents the main genetic risk factor for sporadic late-onset Alzheimer's disease.

In the therapeutic context, determining *APOE* ϵ 4 status is especially relevant when using anti-amyloid therapies, such as lecanemab, due to its association with a higher risk of amyloid-related imaging abnormalities (ARIA), particularly in ϵ 4 homozygous individuals. All of this reinforces the recommendation to determine the genotype before initiating this type of treatment, both for risk stratification and for planning clinical follow-up.

Why Genvinset®?

- **Trusted brand** by laboratories worldwide
- **User-friendly kit** with intuitive workflow
- **<30 min** hands-on, results in **~2 h**
- **Ready-to-use** reagents
- **All-in-one** multiplex reaction for optimized resources
- **Open system:** validated on multiple thermal cyclers
- Compatible with **automated pipetting systems**
- **24/48 test formats** to fit your routine

Workflow



Product Information

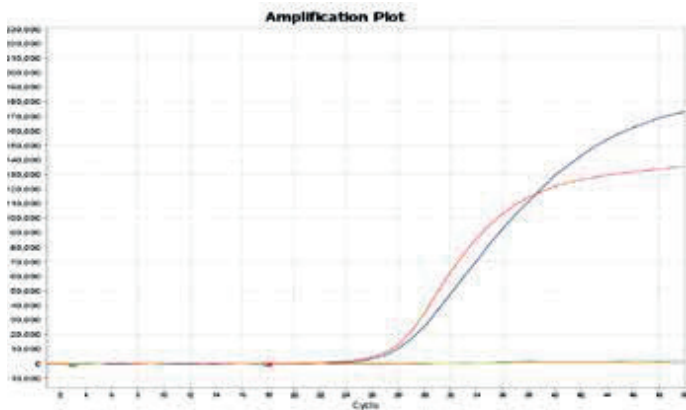
24 tests - CODE: AA1792/24 UDI-DI: 8436615250165
48 tests - CODE: AA1792/48 UDI-DI: 8436615250172

DESCRIPTION: Genvinset® ApoE 24 test
Genvinset® ApoE 48 test

CE-IVDR pending (Notified body 2797)

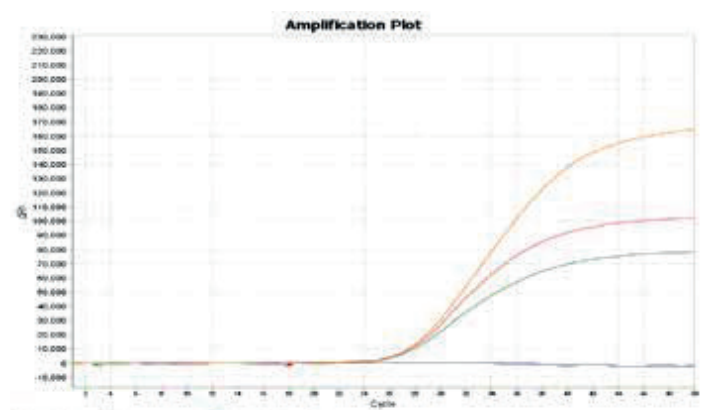
Results

Homozygous mut rs429358 and homozygous wt rs7412 ($\epsilon 4/\epsilon 4$)



■ rs7412 mut ■ rs429358 mut ■ rs7412 wt ■ rs429358 wt

Homozygous wt rs429358 and heterozygous for rs7412 ($\epsilon 2/\epsilon 3$)



■ rs7412 mut ■ rs429358 mut ■ rs7412 wt ■ rs429358 wt

Comparable results are obtained for the rest of the possible genotypes

Limitations

- The kit detects the genotype of variants rs429358 (NCBI dbSNP rs429358; NM_000041.2:c.388T>C) and rs7412 (NCBI dbSNP rs7412; NM_000041.2:c.526C>T) of APOE gene (OMIM: 107741).
- Variants at annealing primer/probe sites may result in the lack of allele definition. Other technologies could be necessary to resolve the typing; It is highly recommended for homozygous mutant samples to be confirmed by a different methodology.
- This product is an auxiliary tool for the determination of the six APOE gene genotypes associated with different levels of risk for developing Alzheimer's disease and different lipid metabolism disorders. Use these results in conjunction with clinical data and results from other test performed on the patient.
- The interpretation of the results obtained must be always supervised by qualified personnel



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EXCLUSIVE DISTRIBUTOR

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