AmplideX®
PCR/CE *TOMM40* Kit*

Asuragen® Genetics

Reliably Genotype the Poly-T Repeats in *TOMM40*

Alzheimer's Disease (AD) is now the most common cause of dementia worldwide, affecting over 46M people. These numbers are expected to increase dramatically, reaching nearly 75M people by 2030[1]. Given this growing human and healthcare burden, the need to identify potential biomarkers for early detection and risk assessment remains a major focus.

Multiple studies have implicated the poly-T length polymorphism, rs10524523 ('523), of the *TOMM40* gene in the age of onset of AD. The AmplideX PCR/CE *TOMM40* Kit (RUO) is the first clinical research tool that accurately resolves the poly-T polymorphism at the *TOMM40* '523 locus and provides researchers with a reliable and reproducible assay to advance the understanding of the role of this gene in AD.

Figure 1: AmplideX PCR/CE *TOMM40* Kit* components

REDUCED COMPLEXITY
Simplified analysis of the *TOMM40* gene

- First-ever kitted and distributed solution
- Easy-to-interpret results

OPTIMIZED WORKFLOW
Streamlined, rapid and reliable workflow

- Validated protocol ensures reproducible results
- Minimal hands-on and TAT (Figure 2)

QUALITY PERFORMANCE
Greater sensitivity and accuracy than currently available methods

- 1 base pair resolution for poly-T sizing ensures accurate results at key genotypic boundaries
- Reliable and accurate results every time

Figure 2: AmplideX PCR/CE *TOMM40* Kit* workflow

Rafer INNOVACIÓN TECNOLÓGICA PARA LABORATORIO

AmplideX®
PCR/CE *TOMM40* Kit*

ANALYTICAL CHARACTERISTICS OF AMPLIDEX PCR/CE *TOMM40* KIT (RUO)

REPRODUCIBLE:
Can be used to reliably compare research results across institutions and cohorts
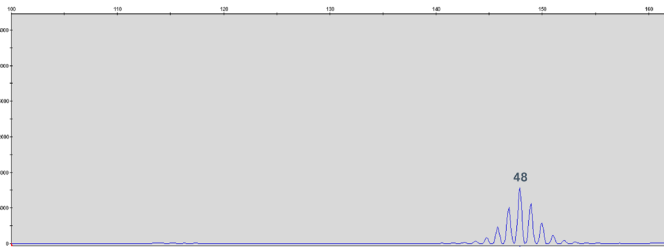

Figure 3: A synthetic 48mer was accurately sized 8/8 times within 1 bp (7/8 = 48 Ts; 1/8 = 47 Ts)

ACCURATE:
Single base pair resolution ensures accurate results at key genotypic boundaries associated with the age of onset in Late-Onset AD (LOAD)
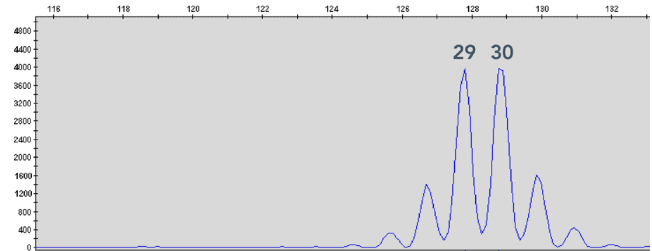

Figure 4: Corriell sample NG09714 accurately sized and categorized by the kit: Size 29,30 Ts; Category: L/VL (Long/Very Long)

FLEXIBLE:
Compatible with a wide range of DNA input, including low amounts of DNA
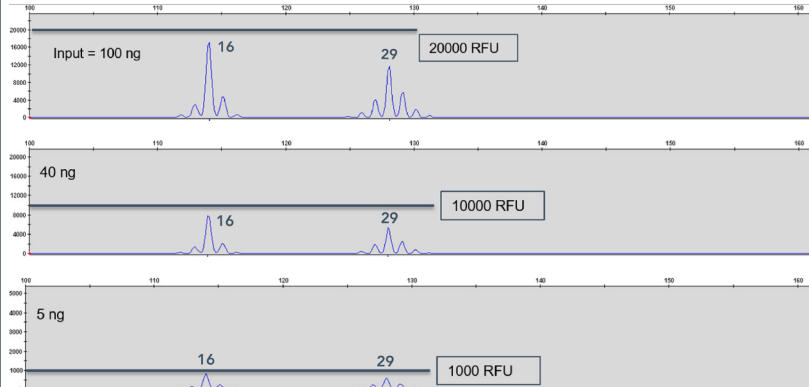

Figure 5: Amplification of 16,29 T alleles at DNA inputs ranging from 5 ng to 100 ng: Even at the lowest input, the peaks are clearly visible above the background signal

2500-0668

KIT ORDERING INFORMATION	
AmplideX® PCR/CE *TOMM40* Kit*	[P/N 49611] 48 REACTIONS

*For research use only. Not for use in diagnostic procedures.