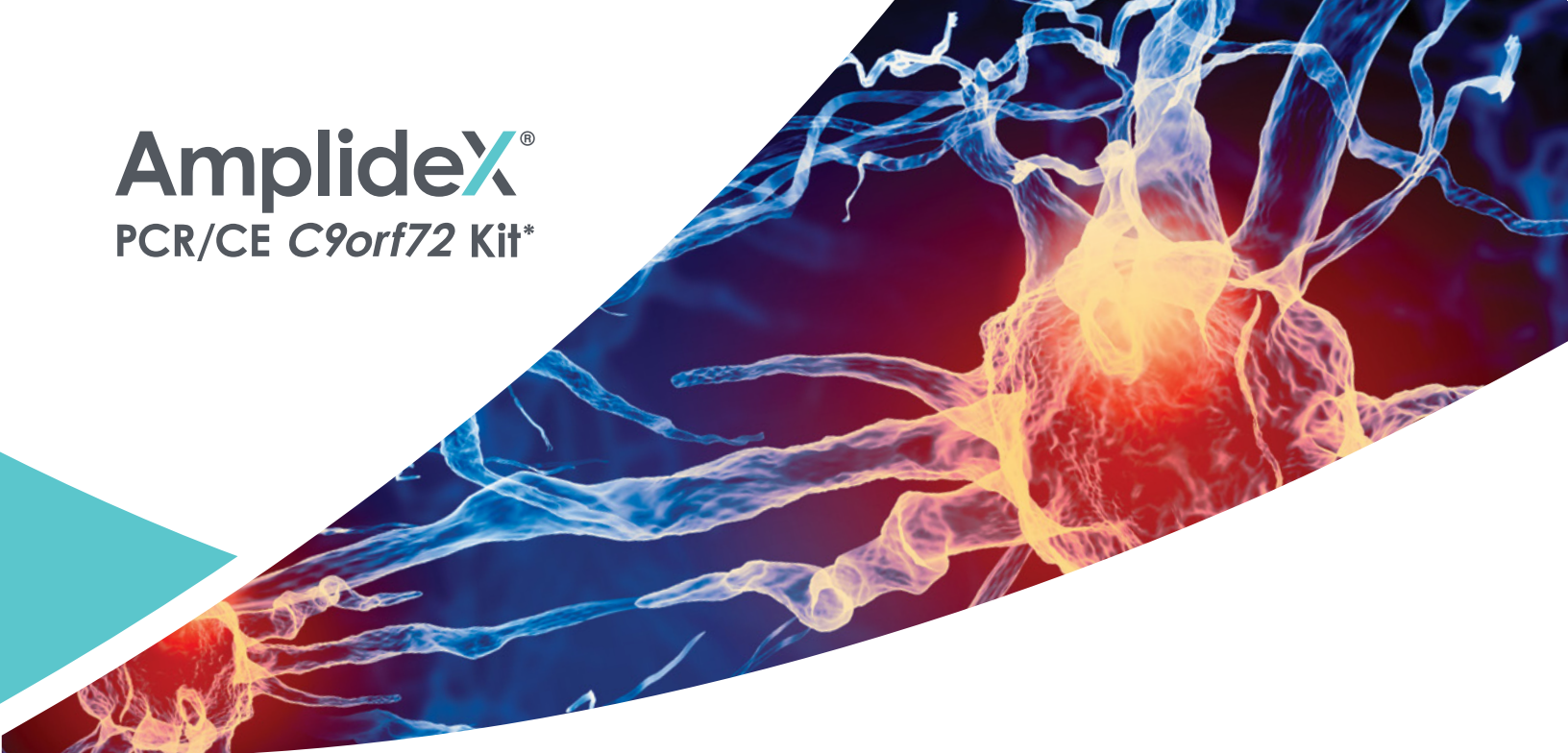


AmplideX[®]

PCR/CE C9orf72 Kit*



ACCURATE C9orf72 ANALYSIS MADE EASIER

A better understanding of hexanucleotide repeat expansions in the C9orf72 gene requires a robust PCR amplification assay. The AmplideX[®] PCR/CE C9orf72 Kit is a research tool for the reliable amplification of pathogenic hexanucleotide repeats (GGGGCC) in the C9orf72 gene that are associated with amyotrophic lateral sclerosis (ALS) and frontotemporal dementia (FTD). Using our proprietary GC-rich PCR chemistry and building on the success of our AmplideX FMR1 product, this kit provides a simple, single-tube PCR workflow to profile C9orf72 repeat sequences.



Figure 1. AmplideX PCR/CE C9orf72 Kit components

SIMPLE WORKFLOW

- Single PCR reaction for both sizing and screening
- A single sourced kit consisting of all PCR reagents needed for C9orf72 repeat amplification
- Streamlined workflow with minimal hands-on time
- Decreased need for Southern blot analysis

IMPROVED PERFORMANCE

- Five-fold improvement in length of alleles sized: accurate sizing up to 145 repeats
- Detection of alleles greater than 145 repeats
- Reveal low-level mosaicism and minor alleles
- Identifies sequence variability near the repeat region

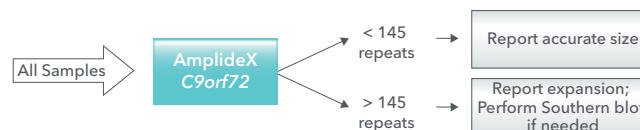


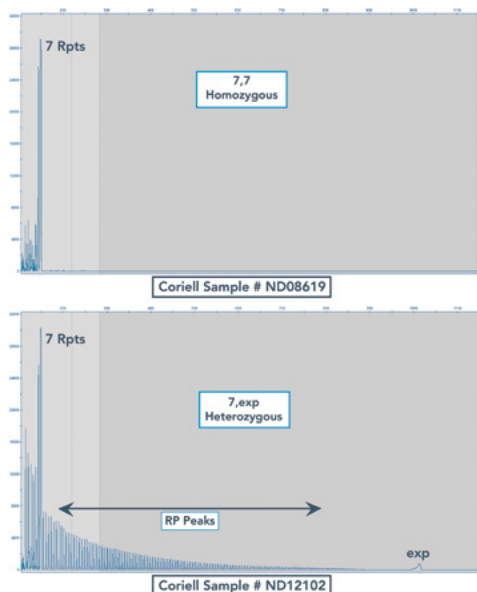
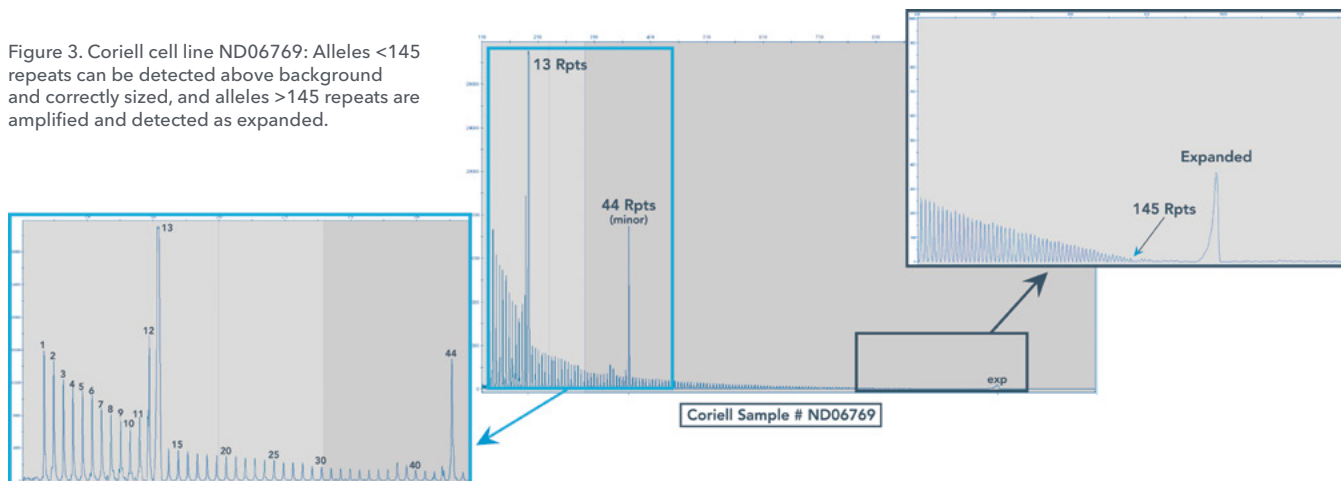
Figure 2. AmplideX PCR/CE C9orf72 Kit workflow

AmplideX[®]

PCR/CE *C9orf72* Kit*

ACCURATELY SIZE UP TO 145 REPEATS AND DETECT ALLELES GREATER THAN 145 REPEATS

Figure 3. Coriell cell line ND06769: Alleles <145 repeats can be detected above background and correctly sized, and alleles >145 repeats are amplified and detected as expanded.



CLEAR ZYGOSITY RESOLUTION THROUGH DISTINCT REPEAT-PRIMED PATTERN

Figure 4. Side by side comparison of 2 Coriell cell lines: ND08619 (7,7 homozygous) and ND12102 (7,expanded heterozygous): Extension of the repeat-primed peak pattern beyond the shorter allele clearly differentiates the heterozygous sample from homozygous sample.

ORDERING INFORMATION

Part Number	Product Description	Number of Reactions
49581	AmplideX [®] PCR/CE <i>C9orf72</i> Kit*	50

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