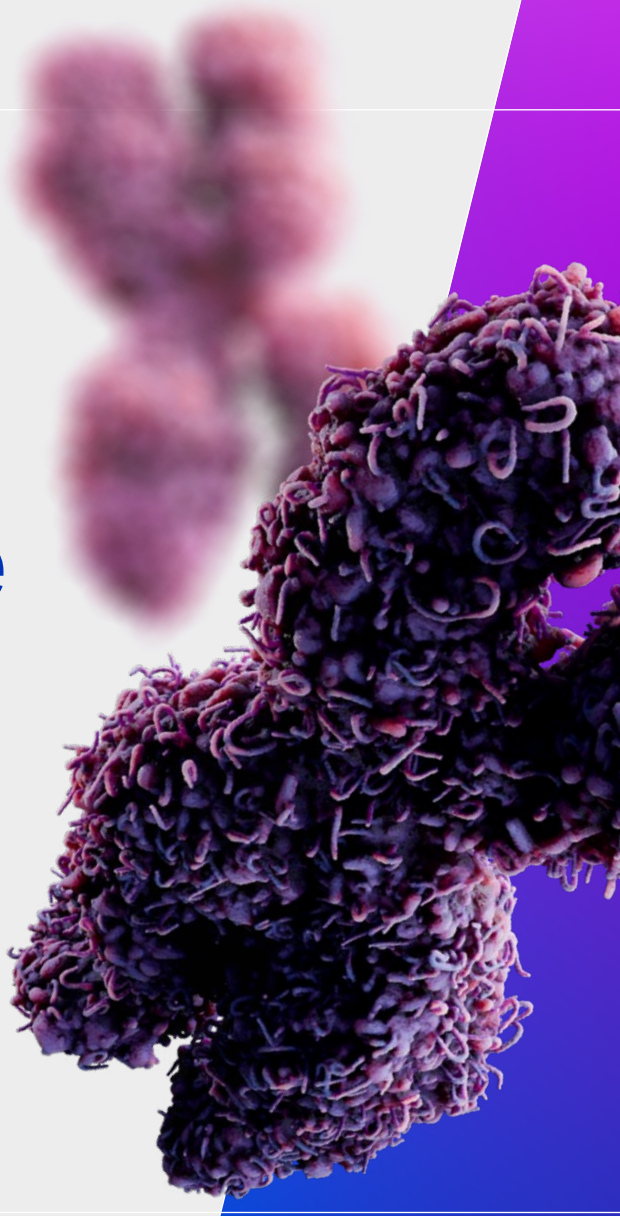
bio-techne diagnostics™

AmplideX® PCR/CE *FMR1* Kit

Market-Leading, Easy-to-Use, High Performance *IVDR-Certified Kit*



For Laboratories to Reliably Analyse CGG Repeats in the *FMR1* Gene

The unique Triplet Repeat Primed PCR (TP-PCR) design allows for sensitive detection of all alleles and simultaneous resolution of zygosity. Now with Class C IVDR certification, this assay is optimised for use on widely established laboratory equipment and delivers *FMR1* results in under six hours.

AmplideX® PCR/CE *FMR1* Kit

Reduced Complexity

- Reliably amplifies GC-rich regions[1,2]
- Automated peak calling with included AmplideX PCR/CE *FMR1* Analysis Module
- End-to-end solution including all necessary reagents

Optimised Workflow

- Eliminates the need for Southern blot analysis
- Produces results in less than a day
- Scalable workflow and high throughput

Quality Performance

- Accurate sizing of up to 200 repeats
- Detection of low abundance full mutation size mosaics with up to at least 1300 CGG repeats
- Resolution of female homozygous and heterozygous samples and indication of presence of AGG interruptions

AmplideX PCR/CE *FRM1* Kit† Workflow <6 Hours from DNA to Data

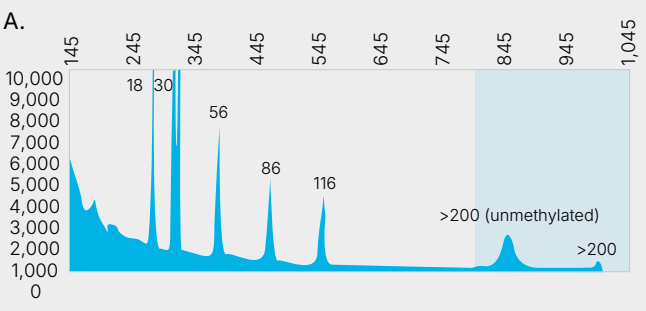
	PCR	CE	Data Analysis	Total
Hands-On Time	30 min	15 min	5 min	<1 hr
Instrument Time	240 min	60 min	0 min	5 hrs

For up to 24 samples

Sizing Accuracy and Sensitivity

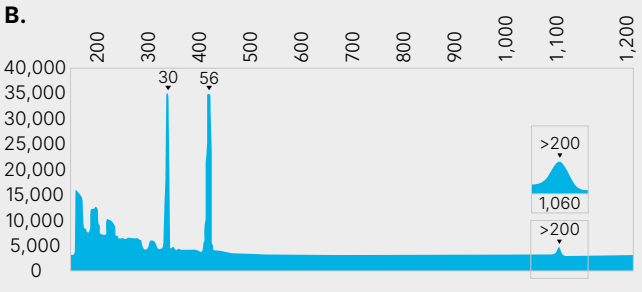
A. Sizing Accuracy Demonstrated with the AmplideX PCR/CE *FMR1* Control* (Process Control)

The assay accurately sizes across the full spectrum with the *FMR1* control. The control includes peaks just 2 repeats apart (30,32) for precise sizing.



B. Sensitive Detection Demonstrated with the AmplideX PCR *FMR1* Control* (Sensitivity Control)

Detection of low abundance full mutations is demonstrated by amplification of the sensitivity control, which contains 5% full mutation in a background of 95% Normal.

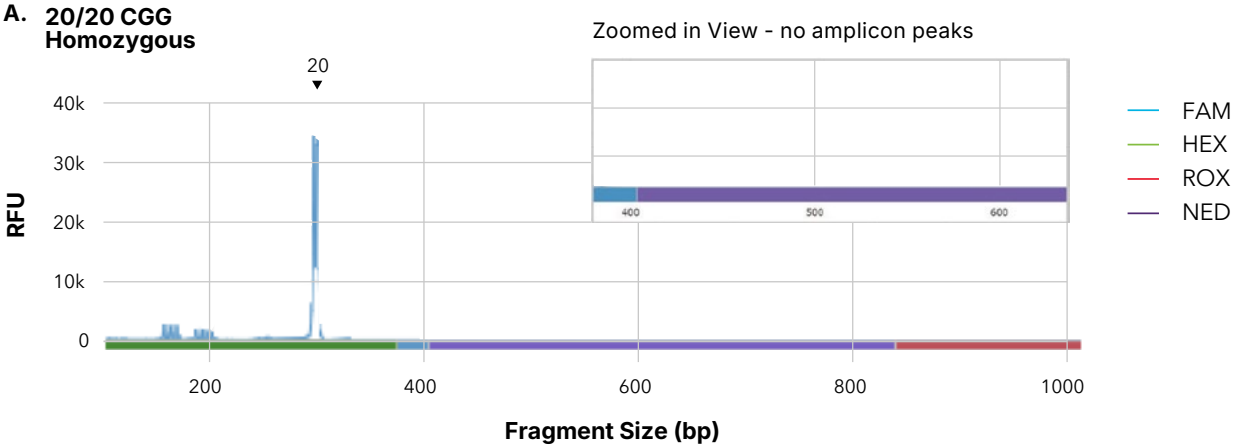


Clearly Resolves Female Zygosity

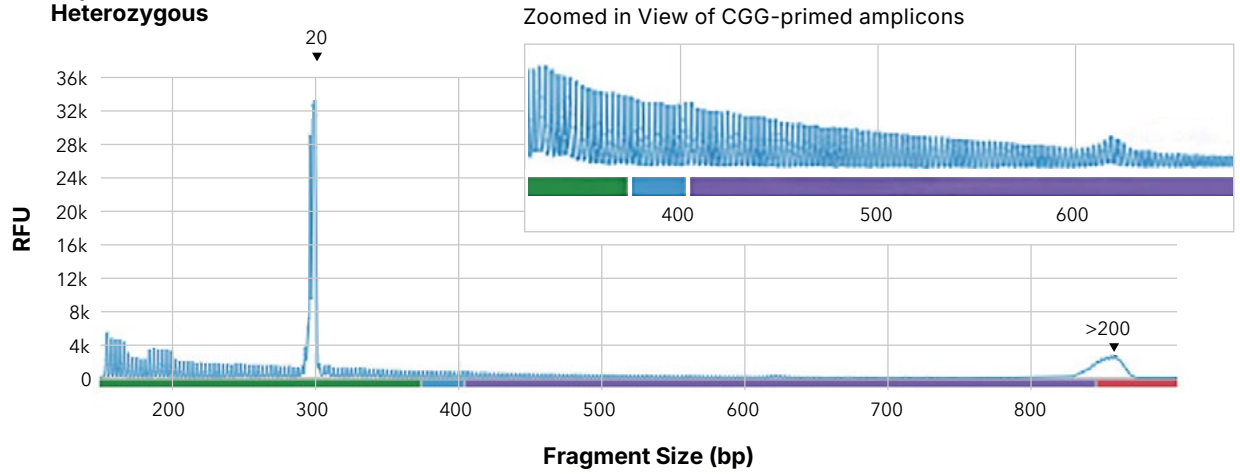
A. Absence of CGG primed amplicons beyond the detected peak shows lack of a longer, heterozygous peak.

B. CGG primed amplicons beyond the 20 CGG peak shows detection of longer, heterozygous peak, consistent with >200 CGG peak.

A. 20/20 CGG Homozygous



B. 20/>200 CGG Heterozygous



Ordering Information

Part Number	Product Description	Number of Reactions
76008	AmplideX PCR/CE *FMR1* Kit	100
49513	AmplideX PCR/CE *FMR1* Control*	24 ul
49514	AmplideX mPCR *FMR1* Control*	24 ul

REFERENCES

1. Filipovic-Sadic S, et al. Clin Chem. 2010;56(3):399-408.

2. Visit our *FMR1* page to find peer-reviewed publications which evaluated the AmplideX® PCR/CE *FMR1* reagents in the assessment of CGG repeats in the *FMR1* gene.

Explore More

Genetics Portfolio
bio-techne.com/diagnostics/amplidex-genetic-testing-kits

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*For Research Use Only. Not for use in diagnostic procedures.
†CE-IVD. For *in vitro* diagnostic use.

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