

AmplideX[®]

PCR/CE *DMPK* Kit^{*}

Simply and Reliably Size *DMPK* Repeat Expansions within a Single Day

The AmplideX[®] PCR/CE *DMPK* Kit^{*} introduces a groundbreaking alternative for the detection and sizing of CTG repeats within the *DMPK* gene. Challenged by very large trinucleotide expansions, *DMPK* analysis has required the use of Southern blot technology, thereby limiting many laboratories' ability to resolve these repeat sequences. By introducing a simple, streamlined, PCR-only workflow, the AmplideX PCR/CE *DMPK* Kit^{*} can replace Southern blot and put *DMPK* analysis within the reach of laboratories everywhere.

REDUCED COMPLEXITY

- Proprietary PCR solutions for GC-rich amplification and detection
- May eliminate need for Southern blot
- Resolves zygosity and detects mosaicism

OPTIMIZED WORKFLOW

- Direct injection of PCR products into CE instruments
- Fully kitted, end-to-end solutions that significantly reduce hands-on-time
- Sample-to-result possible within a single shift

QUALITY PERFORMANCE

- Accurate sizing of alleles ≤ 200 CTG repeats and detection of all alleles >200 repeats using CE
- Optional AGE protocol allows sizing of alleles up to 1000 repeats
- Analysis tool converts raw base pair data into repeat number



Figure 1. AmplideX PCR/CE *DMPK* Workflow, including optional AGE workflow for larger expansions.

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Sample Name	External Lab PCR + Southern	Asuragen PCR/CE	Asuragen PCR/AGE (allele 2)
S1	10 , 300-500	11 , >200	Smear , High Mosaic 300-500
S2	4 , 1200-1350	5 , >200	~1100
S3	4 , 1100-1500	5 , >200	Smear , High Mosaic >500
S4	11 , 200-300	12 , >200	~260-350
S5	4 , 800-900	5 , >200	~650-700
S6	25 , 1050	26 , >200	~1000
S7	12 , 100-150	13 , 71 , 129	70 , 130
S8	11 , 1900-2220	12 , >200	700 , 1900
S9	21 , 300	22 , >200	Mosaic , 261
S10	4 , 50-250	5 , >200	150 , Smear >200

*AmplideX detects mosaicism down to 5%

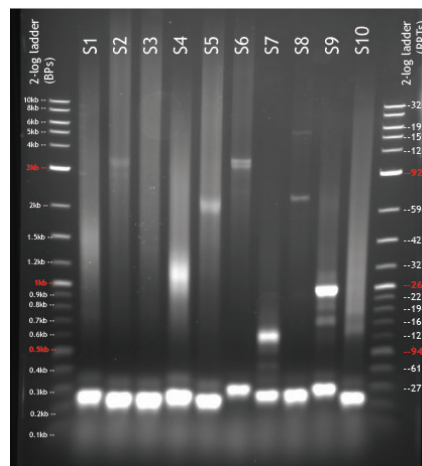


Figure 2. Comparison of residual clinical sample results between Asuragen (AmplideX Kit) and partner lab (PCR + Southern blot).

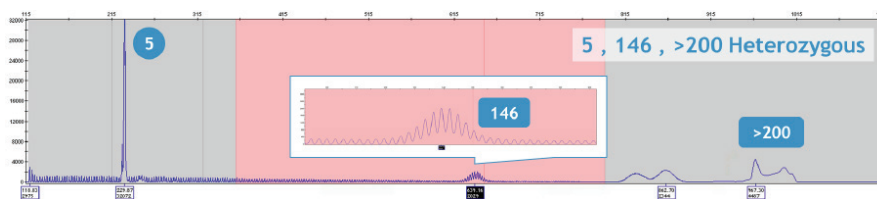


Figure 3. Sensitive and accurate sizing of *DMPK* expansions up to 200 repeats.

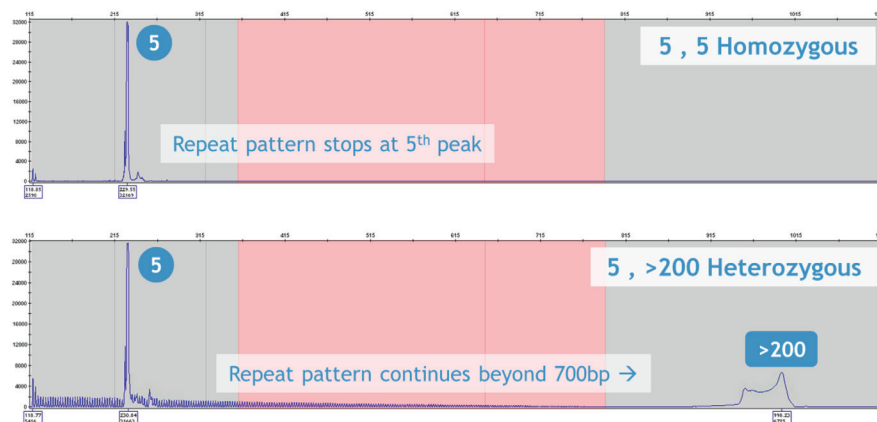


Figure 4. Clear resolution of zygosity.

KIT ORDERING INFORMATION

AmplideX PCR/CE *DMPK* Kit*

[P/N: 49655] 32 REACTIONS

*For Research Use Only. Not for use in Diagnostic procedures.



Asuragen, Inc.
2150 Woodward Street, Suite 100
Austin TX 78744
asuragen.com

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