Differential Display Made Simple with QuickPoint™ Pre-Cast Gels!

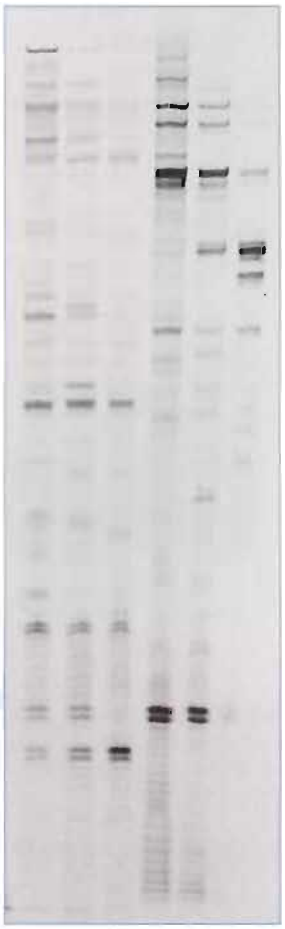
NOVEX makes differential display analysis a breeze by introducing the QuickPoint™ Rapid Nucleic Acid Separation System:

- SMALL
  10 x 12cm gels
- FAST
  20 minute runs
- PRE-CAST!
  6 month shelf-life

The QuickPoint™ system provides a fast, easy-to-use, pre-cast gel capable of resolving differentially displayed products in less than 20 minutes! Just dilute your display products in QuickPoint Sample Loading Buffer, load onto a QuickPoint pre-cast gel, run, and quantitate by autoradiography. QuickPoint gels provide fast and accurate differential display results every time without the need to pour your own cumbersome sequencing gel!

GenHunter's RNAimage™ Kit utilizes primers designed to reverse transcribe the 5′ poly A tail portions of mRNA's, followed by PCR amplification with additional upstream arbitrary primers. The mRNA sub-populations are then visualized by denaturing polyacrylamide gel electrophoresis. This enables direct side-by-side comparison of the mRNAs between two or more related cells and allows differentially expressed genes to be identified.

By utilizing QuickPoint Pre-Cast Gels along with the RNAimage Kit, differential display is fast, easy and convenient.



Comparison of 2 oligo-dt primers from the GenHunter RNAimage™ Kit.

NOVEX™

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PROTOCOL

PLEASE READ THE QUICKPOINT GEL INSTRUCTION BOOKLET BEFORE PROCEEDING.

1. Pre-run the QuickPoint gel for 5 minutes according to the recommended protocol.
2. Mix the PCR reaction (20µl) with an equal volume (20µl) of the QuickPoint Sample Loading Buffer.
3. Heat samples at 80°C for 2 minutes immediately before loading onto the pre-run QuickPoint gel.
4. Load 1µl of the prepared samples onto the QuickPoint gel. To assure a straight banding pattern, 0.5µl of the QuickPoint Sample Loading Buffer should be loaded in remaining empty wells.
5. Run gel until the bromophenol blue dye reaches the bottom of the gel. This should take approximately 10 minutes. Longer run times may be necessary depending upon fragment size.
6. Remove the glass cassette from the cell. Using a razor blade, slice tape and open cassette. The gel will remain on the notched glass plate.
7. Wash the gel/glass plate in water for 5 minutes on a low speed shaker. Do NOT fix the gel.
8. Dry the gel in an 80°C oven for 20 minutes.
9. Expose, gel side up to X-ray film overnight.
10. Bands of interest can be reamplified. NOVEX recommends using the Micropure 0.22 separators and Gel Nebulizers™ from Millipore (Cat# 42600) with the following protocol to extract the DNA band from the QuickPoint gel.
    a. Orient the autoradiogram with the gel using the dark outline of the wells as a guideline.
    b. Rehydrate the gel by covering just the band of interest with 10µl H_2O.
    c. Cut and scrape out the rehydrated band of interest with a spatula and place into the bottom of a Gel Nebulizer™, then into the Micropure 0.22 separator.
    d. Add 10µl of H_2O on top of the gel slice. Soak the gel slice for 5 minutes.
    e. Microcentrifuge at 14,000rpm for 10 minutes.
    f. Approximately 10µl of extracted DNA sample will collect in the vial. Use 4µl for reamplification.

Ordering Information

Product	*Code*
QuickPoint™ Starter Kit Kit includes: 1 box of 4 QuickPoint Gels (QP9731), QP Running Buffer, 50X, 250ml (QP9732), QP Sample Loading Buffer, 2.5ml (QP9733).	QP9735
QuickPoint™ Cell	EI9700
QuickPoint Gels (16 well, 250µm thick, 4/box)	QP9731
QuickPoint Running Buffer, 50X, 250ml	QP9732
QuickPoint Sample Loading Buffer, 2.5ml	QP9733
QuickPoint Kit Kit includes: 2 boxes of 4 QuickPoint Gels (QP9731), QP Running Buffer, 50X, 250ml (QP9732), QP Sample Loading Buffer, 2.5ml (QP9733).	QP9736

1-800-456-6839

EP066 10/98