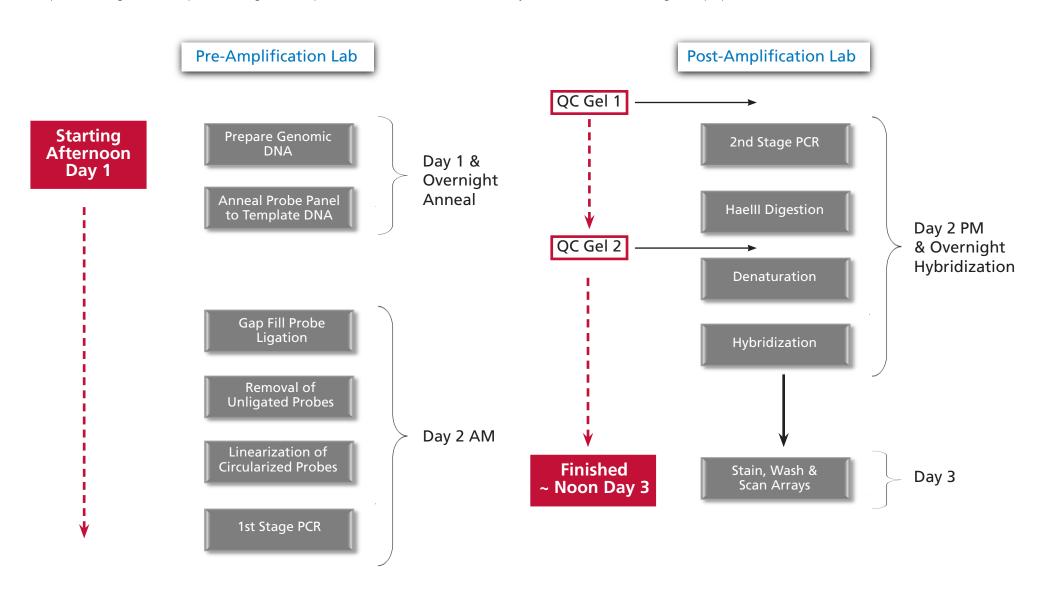
QuickReferenceCard



OncoScan® CNV FFPE Assay Kit—25 Samples

Workflow Overview

The Affymetrix® OncoScan® CNV FFPE Assay Kit protocol is optimized for processing 1 to 23 samples at a time to obtain whole genome copy number information from FFPE samples using Affymetrix® OncoScan® CNV Arrays. The OncoScan® CNV FFPE Assay Kit QRCs support processing of as few as 7 samples, two of which are a positive and negative control. This QRC is for 25 samples (including 23 FFPEs, 1 pos ctrl, 1 neg ctrl). This protocol is intended for research use only and is not intended for diagnostic purposes.

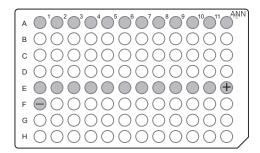


General Procedures

- The Negative Control for the 23 sample QRC is in a different row from the samples and positive control. When pipetting the reagents for this negative control well, use reagents from the master mix tube and not from the strip tubes.
- Vortex Plate after reagent addition: Always vortex plates at max speed for 5 seconds using 5-point plate vortexing.
- Spin down plate after reagent addition: Always spin at 2400 rpm for 1 min.
- Spin down plate after 1 min chill step: Always spin at 2400 rpm for 30 sec.
- Vortex Enzymes: Always vortex for 1 second at max speed.
- Spin down enzymes: Quick spin down.
- Vortex Master Mix tubes: Vortex at max speed for 3 seconds.
- Spin down Master Mixes: Quick spin down.
- Plate handling before reagent addition: Reagents are always added to chilled plates. Chill
 the plate on a cold block for 1 min, then spin down at 2400 rpm for 60 sec.
- When pipetting, always pipette up and down 3 times to rinse the tips.
- When removing enzymes from the −20°C freezer, use a cooler to transfer the tube to and from the bench.
- Always remove plate seals slowly and carefully as to not introduce any cross contamination from well-to-well.
- Ensure both plates are at the correct orientation (well A1 at the top left position) during plate-to-plate transfers.
- Program all of the thermal cyclers programs in "9700 Max mode" setting.

Sample Plate (Pre-Amp)

- 1. Add 6.6 µL FFPE gDNA at 12 ng/µL to wells marked A1 through A12, and E01-E11 in the plate diagram.
- 2. Add 6.6 µL of the positive control from the OncoScan CNV FFPE Assay Kit to well marked E12.
- 3. Add 6.6 μ L of TE (negative control) to the well marked F1 in the plate diagram.
- Seal, vortex and spin the plate. Place plate on cold block if continuing assay. Otherwise freeze at -20°C.

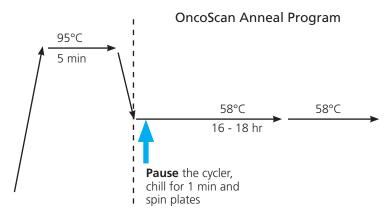


Stage 1—Anneal (Pre-Amp)

- **1.** Turn on the thermal cycler.
- 2. Thaw reagents listed in the table at room temperature.
- 3. Once thawed, vortex, spin down and place on ice.
- **4.** Label a 1.5 mL Eppendorf tube as *Ann* and place on ice.
- **5.** Place 12-tube strip in cold block.
- **6.** To the *Ann* tube, add the reagents listed in the table below.

Reagent	1 Reaction	25 Reactions (~60% overage)
Buffer A	1.53 μL	61.2 μL
Copy Number Probe Mix 1.0	1.37 μL	54.8 μL
Buffer C	0.5 μL	20.0 μL
Total Volume	3.40 µL	136.0 μL
Volume per Tube for Tube Strip		10.0 μL 12-Tube Strip

- 7. Vortex and spin down ANN Master Mix.
- **8.** Aliquot 5.0 μ L of ANN Master Mix to each strip tube.
- 9. Transfer 3.4 μ L of ANN Master Mix from the strip tube to wells A1-12, E1-12 and F1. Pipet up and down 3X.
- **10.** Seal, vortex, and spin plate.
- **11.** Place the plate on the thermal cycler and start the *OncoScan Anneal* program.
- 12. After 6 minutes (1 minute into 58°C step), Pause the program at 58°C.
- 13. Remove the plate and place on a chilled cold block for 1 minute.
- **14.** Spin down the plate. Place plate back on the thermal cycler and **Resume** the protocol.



Blue arrows indicate reagent addition steps.

Stage 2—Gap Fill Through 1st PCR (Pre-Amp)

Thaw Buffer A, dNTPs (AT and GC), Cleavage Buffer, Water and PCR Buffer at room temperature. Vortex, Spin down and keep on ice.

Prepare the AT Mix and GC Mix: Always Make 24-Reaction Master Mix

- Label two 1.5 mL Eppendorf tubes, one AT in blue and the other GC in red. Place on ice.
- 2. Place two 12-tube strips in a cold block, label one AT in blue, the other GC in red.
- **3.** To the AT tube, add the reagents listed in the table below. Pipet 3X. Vortex, spin, place on ice.

Reagent	1 Reaction	25 Reactions (~20% overage)
Water	3.93 µL	118 μL
dNTPs (A/T)	0.07 μL	2.2 μL
Total Volume	4.0 µL	120 µL
Volume per Tube for Tube Strip		9.0 μL 12-Tube Strip

- 4. Aliquot 9.6 µL of the AT Mix to each tube in the strip.
- **5.** Spin down the strip and keep in cold block.
- 6. Change gloves.
- 7. Repeat steps 3-5 above for the GC dNTPs.

Reagent	1 Reaction	25 Reactions (~20% overage)
Water	3.93 µL	118 μL
dNTPs (G/C)	0.07 μL	2.2 μL
Total Volume	4.0 µL	120 µL
Volume per Tube for Tube Strip		9.0 μL 12-Tube Strip

8. Change gloves again after completing the GC Master Mix.

Prepare the GAP Fill Mix

- 1. Label a 1.5 mL Eppendorf tube and one strip of 12 PCR tubes with the letter G.
- 2. Place tube on ice and strip tubes in cold block.
- **3.** To the *G* tube, add the reagents in the table below. Pipet up and down 3X.

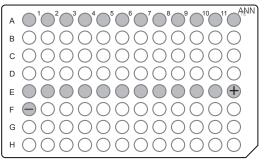
Reagent	1 Reaction	25 Reactions (~20% overage)
Water	10.58 μL	318 µL
Buffer A	1.18 µL	35.3 μL
SAP, Recombinant (1U/μL)	0.84 μL	25.2 μL
Gap Fill Enzyme	1.40 µL	42.0 μL
Total Volume	14.0 µL	420 µL
Volume per Tube for Tube Strip		33 μL 12-Tube Strip

- 4. Vortex, spin down, and place on ice.
- **5.** Aliquot 16 µL of the Gap Fill Master Mix to each tube in the strip.
- 6. Spin down and place on a chilled cold block.

Addition of Gap Fill Mix

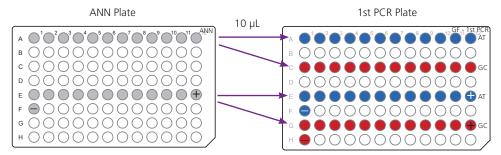
- 1. Remove the ANNEAL Plate from the thermal cycler, place in a cold block on ice for 1 min.
- 2. Stop the OncoScan Anneal program
- 3. Start the OncoScan Gap Fill, Pause once cycler reaches 58°C.
- **4.** After the 1 min incubation, spin the *ANNEAL* Plate and return to cold block.
- **5.** Add 14.0 μL Gap Fill (*G*) Mix to each well. Pipet up and down 3X.
- **6.** Seal the plate, vortex and spin.
- 7. Keep the ANNEAL Plate on the cold block.





Channel Split

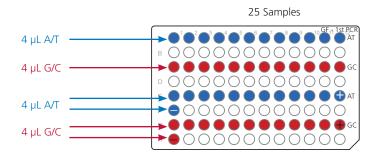
- 1. Label a new 96-well half-skirt PCR plate '1st PCR'.
- 2. Clearly mark the AT (blue) and GC (red) rows (see Figure below).
- 3. Transfer 10.0 μ L each well from the ANN Plate to the 1st PCR Plate, as shown.



- 4. Seal and spin down the 1st PCR Plate.
- 5. Load the plate on the thermal cycler, close the lid, and **Resume** the *OncoScan Gap Fill* program.
- 6. After 11 min at 58°C, press Pause.
- 7. Remove the 1st PCR Plate and place on a cold block for 1 min.
- **8.** Spin down and return the 1st PCR Plate to a cold block.
- 9. Move directly to the next section: Addition of dNTPs.

Addition of dNTPs

- 1. Add 4 µL of AT Mix to samples in rows A and E and well F1 on the 1st PCR Plate. Pipet up and down 3X.
- 2. Add 4 μ L of GC Mix to samples in rows C and G and well H1 on the 1st PCR Plate. Pipet up and down 3X.
- 3. Seal, vortex, and spin the plate.
- **4.** Place the 1st PCR Plate back on the thermal cycler, press **Resume**.
- **5.** Set a timer for 10 min to be back to **Pause** the program at the end of the 58°C.
- **6.** During this 11 min incubation, prepare the Exo Mix described in the next section: **Aliquot and Add the Exo Mix**.



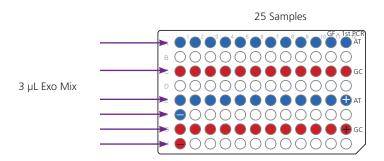
OncoScan Gap Fill Program Pause the cycler at the dotted lines. 95°C 95°C 10 min 15 min 58°C 58°C 37°C 20 min 15 min +4 $+ 25 \mu L$ $+3 \mu L$ dNTP Mix (A/T) Exo Mix Cleavage Mix (well 17.0 µL) (well 42.0 µL) dNTP Mix (G/C) (well 14.0 µL) Blue arrows indicate reagent addition steps.

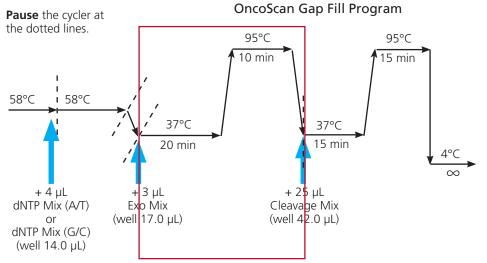
OncoScan Gap Fill Program Pause the cycler at the dotted lines. Pause to remove the plate BEFORE the 95°C 95°C cycler ramps down. 10 min 15 min 58°C ı 58°C 37°C 37°C 15 min 20 min 3 uL $+ 25 \mu L$ dNTP Mix (A/T) Exo Mix Cleavage Mix (well 17.0 µL) (well 42.0 µL) dNTP Mix (G/C) (well 14.0 µL)

Blue arrows indicate reagent addition steps.

Aliquot and Add the Exo Mix

- 1. Remove Exo Mix from -20°C (keep cold). Vortex Exo Mix and keep on ice.
- 2. Label one strip of 12 tubes with the letter E. Aliquot 16.0 μ L of the Exo Mix directly into each strip tube. Spin to remove bubbles.
- **3.** At the end of the 58°C incubation, press **Pause** and place the *1st PCR* Plate in a cold block for 1 min.
- **4. Resume** the program (no plate) and **Pause** thermal cycler once it has ramped down to 37°C.
- **5.** After the 1 min on ice, spin down *1st PCR* Plate, return to cold block.
- **6.** Add 3 μL Exo Mix to each reaction. Pipet up and down 3X.
- 7. Seal, vortex, and spin the 1st PCR Plate.
- **8.** Place the 1st PCR Plate back on the thermal cycler.
- 9. Press Resume.
- **10.** Set a timer for 25 min to be back in order to prepare the Cleavage Mix as described in the next section: **Prepare and Add the Cleavage Master Mix**.





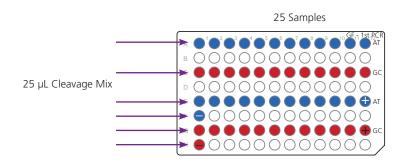
Blue arrows indicate reagent addition steps.

Prepare and Add the Cleavage Master Mix

- Place 12-tube strip in a cold block and a 1.5 mL Eppendorf tube labeled CM on ice.
- 2. Remove Cleavage Mix from -20°C (keep cold). Vortex, spin and keep on ice.
- 3. Vortex and spin down the thawed Cleavage Buffer, return to ice.
- **4.** Add the Cleavage Buffer and Cleavage Enzyme to the *CM* tube. See table below.

Reagent	1 Reaction	50 Reactions (~25% overage)
Cleavage Buffer	25.0 μL	1563 μL
Cleavage Enzyme	0.2 μL	12.5 μL
Total	25.2 μL	1575.0 μL
Volume per Tube for Tube Strip		120 μL 12-Tube Strip

- 5. Pipet up and down 3X.
- **6.** Vortex and spin down the *CM* tube briefly. Keep on ice.
- 7. Aliquot 60 µL Cleavage Master Mix from CM tube to 12 tubes of the strip tube.
- 8. Spin down strip tubes. Place on a cold block.
- **9.** Press **Pause** when cycler reaches 37°C, remove the *1st PCR* Plate and place a cold block on ice for 1 min.
- **10.** Spin plate and return plate to cold block.
- 11. Add 25 µL CM Mix to each reaction. Pipet up and down 3X.
- **12.** Seal, vortex, and spin down.
- **13.** Place 1st PCR Plate back on thermal cycler, press **Resume**.
- **14.** Set a timer for 25 min to make the PCR mix described in the next section: **Prepare and Add** the 1st PCR Master Mix.

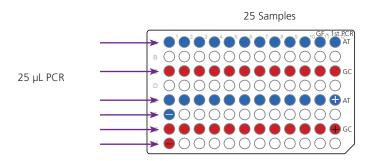


Prepare and Add the 1st PCR Master Mix

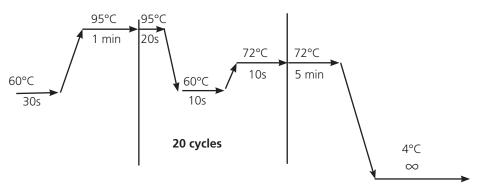
- 1. Label a 12-strip tube, place in a cold block.
- 2. Label a 1.5 mL Eppendorf tube with the letters PCR and place on ice.
- 3. Remove the Tag from the -20°C (keep cold). Vortex, spin and return to ice.
- 4. Vortex and spin down the thawed PCR Mix. Return to ice.
- **5.** Add reagents according to the table below to the *PCR* tube. Pipet up and down 3X.

Reagent	1 Reaction	50 Reactions (~25% overage)
PCR Mix	24.4 µL	1528 μL
Taq Polymerase	0.56 μL	34.9 μL
Total	25.0 μL	1562 μL
Volume per Tube for Tube Strip		120.0 μL 12-Tube Strip

- **6.** Vortex, spin down and return the *PCR* tube to ice.
- 7. Aliquot 60 μ L of the PCR Master Mix to each of the 12 tubes in the strip.
- 8. Spin down strip tube. Place strip tube in cold block.
- When OncoScan GAP Fill program ends, remove the 1st PCR Plate, place on a cold block for 1 min.
- 10. Vortex and spin down the 1st PCR Plate.
- **11.** Start the *OncoScan 1st PCR* program, **Pause** the program when thermal cycler reaches 60°C.
- 12. Add 25 µL PCR Master Mix to each reaction. Pipet up and down 3X.
- **13.** Seal, vortex, and spin the 1st PCR Plate.
- **14.** Place on thermal cycler, press **Resume**. At the end of *OncoScan 1st PCR* program, take the plate directly to the Post-Amp Lab. Do not remove seal until plate is transferred to Post-Amp Lab.



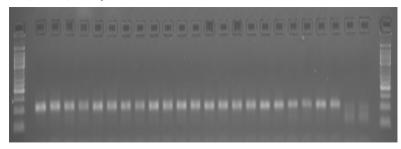
OncoScan 1st PCR Program



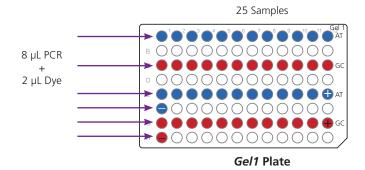
Stage 3—First QC Gel and 2nd PCR (Post-Amp Lab)

Prepare the QC Gel 1 Plate

- 1. Label one fresh PCR plate Gel1.
- 2. Prepare diluted gel loading dyes and diluted buffers as instructed on the right.
- **3.** Aliquot 8 µL of 1st PCR Plate product to wells 1-7.
- **4.** Add 2 μL of 1:10 gel loading dye. Pipet up and down 3X.
- 5. Seal 1st PCR Plate and keep in a cold block on ice.
- **6.** Seal, vortex, and spin down.



- 7. Load 10 µL of each reaction onto a 3% agarose gel.
- **8.** Add 5.0 μ L of the diluted 50 bp ladder to the lanes marked as "M".
- 9. Run the gel at 150 V for 15 min.
- **10.** Examine the gel in a gel imager to ensure PCR products are approximately 120 bp.



Reagents for Gel Loading

1. Glycerol-EDTA Buffer (50% Glycerol + 50 mM EDTA).

Reagent	Initial Concentration	Final Concentration	Volume
100% Glycerol	100%	50%	1000.0 μL
0.5 M EDTA	500 mM	50 mM	200.0 μL
Nuclease-free Water	N/A	N/A	800.0 μL
Total Volume			2000.0 μL

2. 1:10 Dilution of 6X Gel Loading Dye (store at 4°C for long-term storage).

Reagent	Volume
Glycerol-EDTA Buffer (50% Glycerol + 50 mM EDTA)	900.0 μL
NEB 6X Loading Dye	100.0 μL
Total Volume	1000.0 μL

3. Dilution of the 50 bp ladder (1 mL of the diluted ladder can be used in ~200 lanes, Store at -20°C for long-term storage).

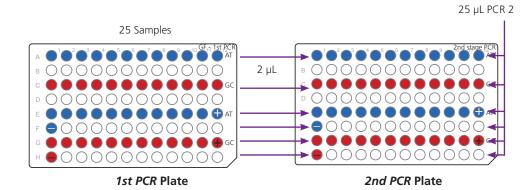
Reagent	Volume
Glycerol-EDTA Buffer (50 % Glycerol + 50 mM EDTA)	830.0 μL
NEB 6X Loading Dye	100.0 μL
NEB 50 bp Ladder	70.0 μL
Total Volume	1000.0 μL

Prepare and Add the 2nd PCR Master Mix

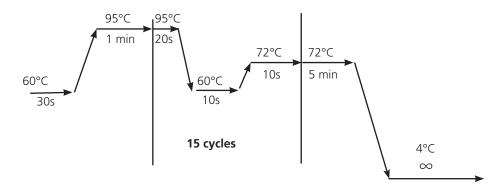
- 1. Start the OncoScan 2nd PCR program and Pause cycler reaches 60°C.
- **2.** Thaw the PCR Mix at room temperature.
- **3.** Label a new 96-well half-skirt PCR plate as 2nd PCR and keep on cold block.
- 4. Label row A as "AT" in BLUE and row C as "GC" in RED.
- **5.** Label a 12-tube strip and a 1.5 mL Eppendorf tube as *PCR 2*.
- **6.** Place strip tube in a cold block and the *PCR 2* tube on ice.
- 7. Remove the Tag from the -20°C (keep cold).
- **8.** Vortex and spin the Taq. Return to ice. Vortex and spin down the thawed PCR Mix and return to ice.
- **9.** Add the PCR Mix and Taq Enzyme according to the table below to the *PCR 2* tube. Pipet up and down 3X.

Reagent	1 Reaction	50 Reactions (~25% overage)
PCR Mix	24.4 µL	1528 μL
Taq Polymerase	0.56 μL	34.9 μL
Total	25.0 μL	1562 μL
Volume per Tube for Tube Strip		120.0 μL 12-Tube Strip

- 10. Vortex and spin down the PCR 2 tube. Keep on ice.
- 11. Aliquot 60 µL of the PCR Master Mix to each of the 12 tubes in the strip.
- **12.** Spin down strip and return to cold block.
- 13. Add 25 µL PCR 2 Master Mix to the wells in the new 2nd PCR Plate.
- **14.** Add 2 μ L from each well of the *1st PCR* Plate to the wells in the *2nd PCR* Plate. Pipet mix 3X.
- **15.** Vortex, spin, and place the 2nd PCR Plate on the thermal cycler.
- **16.** Resume the *OncoScan 2nd PCR* program.



OncoScan 2nd PCR Program



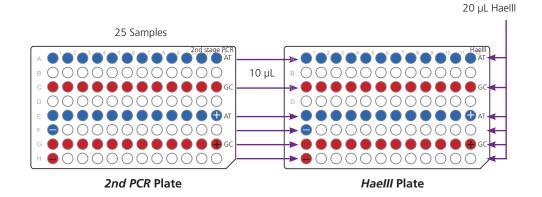
Stage 4—Haelll Digest and Second QC Gel (Post-Amp Lab)

Prepare and Add the Hae III Digest

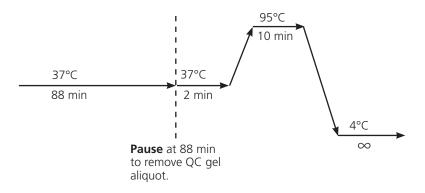
- 1. Thaw Buffer B at room temperature. Once thawed, vortex, spin and place on ice.
- Label one fresh 96-well half-skirt PCR plate Haelll, label row A as "AT" in Blue and row C as "GC" in Red.
- 3. Place Haell Plate in a cold block.
- **4.** Upon completion of *OncoScan 2nd PCR* program, place the *2nd PCR* Plate on a cold block for 1 min. Vortex, spin down, and return to cold block.
- 5. Label a 12-tube strip and a 1.5 mL Eppendorf tube with *HaellI* and place on cold block or ice.
- **6.** Remove the Hae III and Exo enzymes from the –20°C. Vortex and spin down. Place on ice.
- 7. Add the reagents according to the table to the HaellI tube. Pipet up and down 3X.

Reagent	1 Reaction	50 Reactions (~20% overage)
Buffer B	19.10 μL	1146 μL
HAE III Enzyme	0.40 μL	24.0 µL
Exo Enzyme	0.50 μL	30.0 μL
Total	20.0 μL	1200 μL
Volume per Tube for Tube Strip		96.0 μL 12-Tube Strip

- 8. Vortex and spin the HaellI tube. Keep on ice.
- 9. Aliquot 45 μ L of the Haelli Master Mix to a 12-tube strip. Spin down and place on a cold block.
- 10. Add 20 µL of HaellI Master Mix to each well of the HaellI Plate.
- 11. Add 10 µL of 2nd PCR Plate wells to the HaellI Plate. Pipet up and down 3X.
- 12. Seal, vortex, and spin down the HaellI Plate.
- **13.** Place the plate on a thermal cycler and run *OncoScan HaellI* program.
- 14. Set timer for 85 min for Hae III QC Gel.



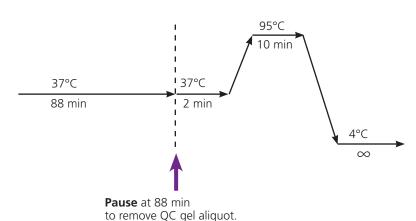
OncoScan Haelll Program

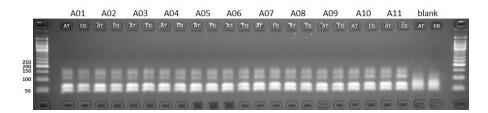


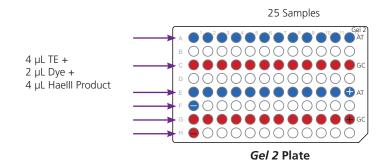
Prepare and Run the Second Quality Control Gel

- 1. Label a 96-well PCR plate Gel2.
- **2.** Add 4 μ L of 1X TE to the gel plate.
- 3. Add 2 μ L of 1/10th diluted Gel Loading Dye to each reaction. Pipet up and down 3X.
- 4. At 88 min at 37°C during the OncoScan HaellI program, Pause the cycler.
- **5.** Remove the *HaellI* Plate, and place it on a cold block for 1 minute.
- 6. Vortex, spin down, and place on cold block.
- 7. Remove 4 µL of HaellI digest sample and add it to the HaelII QC Gel plate.
- **8.** Seal the *HaellI* Plate and place it back on the thermal cycler. **Resume** the *OncoScan HaelII* program.
- 9. Seal the Gel2 Plate. Vortex and spin down.
- **10.** Load 10 μ L of each reaction and 3.5 μ L of the diluted 50 bp ladder onto a 3% agarose gel.
- **11.** Run the gel at 150 V for 15 min.
- 12. Examine the gel in a gel imager to ensure that you see a double band.

OncoScan Haelll Program





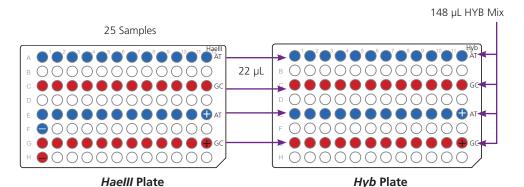


Stage 5—Hybridization (Post-Amp Lab)

- 1. Unpack the arrays and equilibrate to room temperature.
- 2. Preheat the hybridization oven for an 1 hr at 49°C with rotation.
- **3.** Create a Batch Registration file (AGCC) or Test Reguests (AMDS).
- 4. Prepare the Hybridization Master Mix in a 15 mL conical tube on ice.

Reagent	For 1 Array	48 Arrays
Water	30.0 μL	1.80 mL
Hybridization Mix	118.0 μL	7.08 mL
Total	148.0 μL	8.88 mL

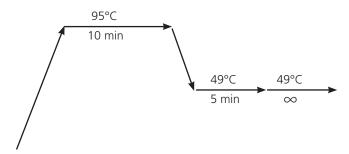
- 5. Vortex, spin down briefly, and place it on ice.
- **6.** Once *OncoScan HaellI* program is complete, remove the *HaellI* Plate. Vortex, spin down, place on ice.
- 7. Label a fresh 96-well plate as Hyb. Label row A "AT" in Blue and row C "GC" in Red.
- 8. Place reagent reservoir on ice and pour Hyb Master Mix into reservoir.
- 9. Aliquot 148 μ L of Hybridization Master Mix to the appropriate wells of the Hyb Plate.
- **10.** Transfer 22 µL of each reaction from the *HaellI* Plate to the *Hyb* Plate. Pipet up and down 3X.



148 μL HYB Mix + 22 μL Haelll Product = Total volume each well: 170 μL

- **11.** Seal, vortex, and spin the *HYB* Plate.
- **12.** Place the *Hyb* Plate on the thermal cycler.
- **13.** Start the *OncoScan Hybridization* program.

OncoScan Hybridization Program



Load Arrays

Allow the samples to incubate at 49°C for at least 5 min before loading.

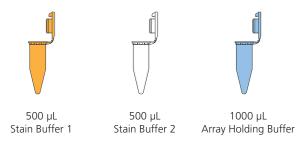
1. Leave the samples on the thermal cycler, load 160 μ L of sample onto each array using a single-channel P200 pipette. Only hybridize up to 8 arrays at a time.



- 2. Clean any excess fluid from around the septa.
- 3. Apply Tough-Spots® to the septa and press firmly.
- **4.** Immediately load the arrays into the hybridization oven, four at a time.
- 5. Hybridize the arrays 16 to 18 hrs at 49°C and 60 rpm.
- **6.** After 16 to 18 hrs of hybridization, move on to the Wash, Stain, and Scan portion of the assay.

Wash, Stain and Scan

- **1.** Aliquot the following reagents into separate 1.5 mL microfuge tubes for each array:
 - 500 μL Stain Buffer 1 into amber tubes
 - 500 μL Stain Buffer 2 into clear tubes
 - 1000 μL Array Holding Buffer into blue tubes



- 2. Prime the fluidics station with Wash A, Wash B and water.
- **3.** Following priming, load the stain solutions and select the appropriate fluidics protocol: **OncoScan 450**.
- **4.** Run the Fluidics protocol and leave the cartridge lever down in the **Eject** position.
- **5.** (New step) Remove the appropriate number of arrays from the hyb oven. Leave the rest in the oven with rotation.
- **6.** Remove the Tough-spots from each array.
- 7. Load the arrays onto the Fluidics station and follow the prompts to initate the program.

Before Scanning

- 1. Ensure no bubbles are visible through the window.
- 2. Cover the septa with Tough-Spots®, then load onto the scanner.
- **3.** Scan the arrays as described in the *OncoScan® CNV FFPE Assay Kit User Guide* (P/N 703302).

Important Points

- Aliquot Stain 1 Buffer into amber tubes.
- Aliquot Array Holding Buffer into blue tubes.
- Stain Buffer 1 and Array Holding Buffer are light sensitive.
- If there is a delay after aliquoting into the tubes, store the tubes at 4°C, protected from light.
- Remove the bubbles from the arrays on the Fluidics Station (see the Affymetrix® GeneChip® Fluidics Station 450/250 User Guide, P/N 08-0092) or remove the bubbles manually.

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