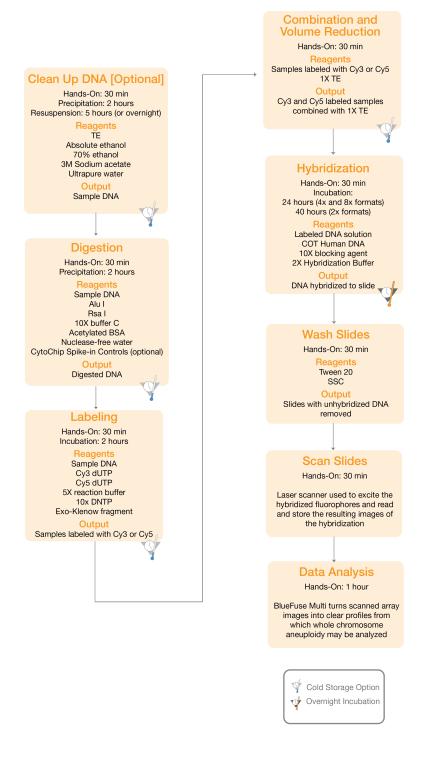
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Sample Preparation

Materials

Table 1 Starting materials for sample preparation

Starting materials	Amount
DNA (unsheared, undigested, genomic DNA)	> 2 µg

Table 2 Materials required for sample preparation

Materials Required	Amount	Part Number
TE (10mM Tris, 1mM EDTA, pH7.0-8.0)	50 μl	Made up stock
Absolute ethanol	125 µl	
70% ethanol	500 μΙ	
Ultrapure water (Milli-Q, 18.2 MΩ.cm)	20 μl	
Microcentrifuge tube (1.5 ml, flip cap)		Sarstedt 72.690.001
Aqueous glycogen solution (1 μg/μl)	2 μl	Prepared from Sigma G1767

Clean Up DNA



NOTE

This step is optional.

[]	1	Resuspend	DNA in	TE to a	total	volume of 50) ul.

- [_] 2 Add 1/10th volume of 3M sodium acetate, vortex, then add 2.5 volume of absolute ethanol. Invert twice to mix.
- [_] 3 If starting with less than 2 μ g of DNA, add 2 μ l of aqueous glycogen solution (1 μ g/ μ l) as a co-precipitant.
- [] 4 Precipitate DNA for 2 hours at -25°C to -15°C.
- [_] 5 Centrifuge at full speed (≥ 13,000 × g) for 15 minutes and decant the supernatant.
- [] 6 Add 500 µl of 70% ethanol and invert the tube three times to wash pellet.
- [] 7 Centrifuge at full speed ($\ge 13,000 \times g$) for 5 minutes and decant the supernatant.
- [] 8 Pulse the tube in a centrifuge and remove the remaining ethanol with a P10 tip. Cap tube.
- [] 9 Remove the cap and allow the pellet to air dry for 5 minutes at room temperature.
- [] 10 Add 1x TE (pH 8.0) to give a final concentration of approximately 100 ng/µl.
- [] 11 Resuspend for 5 hours, or overnight, at room temperature.
- [] 12 Quantify DNA to confirm that OD readings are in line with recommendations.
- [_] 13 Proceed immediately to CytoChip Oligo Labeling or store DNA at 2°C to 8°C until required.



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CytoChip Oligo Labeling

Restriction Digestion of gDNA

Table 3 Starting materials for restriction digestion of gDNA

Starting Materials	Amount (2x and 4x formats)	Amount CytoChip Focus 4x180K	Amount (8x formats)
Sample/Reference	1.0–1.5 μg in 20.2 μl	0.2–1.5 μg in 20.2 μl	0.4–0.5 µg in 10.1 µl
DNA	per hybridization	per hybridization	per hybridization
Sample DNA when using CytoChip Oligo Spike-ins	1.0–1.5 µg in 19.2 µl	0.2–1.5 μg in 19.2 μl	0.4–0.5 μg in 9.1 μl per
	per hybridization	per hybridization	hybridization

Table 4 Reagents required for restriction digestion of gDNA

Reagents Required	Company and Part Number
PCR tube (0.2 ml, thin walled, flip cap) or 96-well plate and adhesive seals	Thermo Scientific AB-0620 Thermo Scientific AB-0600, AB-0558
Commercial control DNA (100 ng/µl)	Promega G1521(female)/G1471(male) or SNP reference*
Alu I (10 U/μl)	Promega R6281 or provided in SureLabel32SNP [dUTP]
Rsa I (10 U/μl)	Promega R6371 or provided in SureLabel32SNP [dUTP]
10X buffer C	Supplied with Rsa I
OR 10X RE buffer	Supplied with SureLabel 32SNP [dUTP]
Acetylated BSA (10 μg/μl)	Supplied with Rsa I or with SureLabel 32SNP [dUTP]
Nuclease-free water	Supplied in labeling kit Illumina PR-30-413401 or PR-30-413437-00
CytoChip Spike-in Controls (optional)**	Illumina PR-40-415301-00

^{*}For SNP arrays, use a fully genotyped human reference DNA (provided with the SureLabel32SNP [dUTP] Fluorescent Labeling System).

Restriction Digestion of gDNA Procedures

Estimated Time

Hands-on time: 30 minutes Incubation time: 2 hours



 $[\]ensuremath{^{**}\text{Cyto}}$ Chip Oligo Spike-in Controls can be added at the digestion OR labeling step.

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Steps

- [_] 1 Thaw 10X buffer C or RE buffer and acetylated BSA. Briefly vortex and centrifuge to collect contents. Retain reagents on ice while in use and return promptly to -25°C to -15°C.
- [] 2 For each reaction:
 - [_] a Add the amount of genomic DNA to the appropriate nuclease-free tube or well in the PCR plate.
 - Add enough nuclease-free water to bring the final volume to 20.2 μ l (2x and 4x formats) or 10.1 μ l (8x format).
 - [] c If using spike-ins controls, add enough nuclease-free water to bring the sample volume to 19.2 μ l (2x and 4x formats) or 9.1 μ l (8x format).
- [] 3 If using spike-in controls:
 - [_] a Remove a spike-in strip from the freezer and thaw on ice. Make sure that caps are tightly closed.
 - [_] b Briefly vortex the strip followed by a short centrifuge to gather the contents. Orient the strip with the cap hinge away from you.
 - [_] c Accurately transfer 1 µl of Spike-in from each well to each tube or each well of the 96-well plate containing the sample genomic DNA.
 - [_] d Record the spike-in that has been added to each sample.



CALITION

Add the sample tracking spike-ins to the sample DNA, do not add spike-ins to the wells containing reference DNA.

[_] 4 Prepare the Digestion Master Mix on ice in the order listed in Table 5. Briefly vortex the Digestion Master Mix and centrifuge to collect the contents.

Table 5 Digestion Master Mix

Component	Amount (2x and 4x formats) 1 rxn	Amount (2x and 4x formats) 16 rxns*	Amount (8x formats) 1 rxn	Amount (8x formats) 16 rxns*
Nuclease-free water	2.0 μl	33.6 µl	1.0 μl	16.8 μΙ
10X buffer C or RE buffer	2.6 μl	43.7 μl	1.3 μl	21.8 μl
acetylated BSA	0.2 μl	3.4 µl	0.1 μl	1.7 μl
Alu I (10U/μl)	0.5 μl	8.4 μl	0.25 μl	4.2 μl
Rsa I (10U/μl)	0.5 μl	8.4 µl	0.25 μl	4.2 μl
Final volume	5.8 μl	97.5 μl	2.9 μl	48.7 μl

^{*}master mix includes 5% excess

[_] 5 Add 5.8 μ l (2x or 4x formats) or 2.9 μ l (for 8x formats) of the Digestion Master Mix to each reaction tube containing the genomic DNA. Make a total volume of 26 μ l (2x or 4x formats) or 13 μ l (for 8x formats). Pipette to mix.



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[] 6 Transfer the samples to a thermal cycler and run the program in Table 6.

Table 6 Thermal cycler program for restriction digestion of gDNA

Step	Temperature	Time
1	37°C	2 hours
2	65°C	10 minutes
3	4°C	hold

- [] 7 Take 2 μ l of the digested genomic DNA and run on a 0.8% agarose gel to assess the completeness of the digestion. Most of the digested products should be less than 500 bp in length.
 - [] a There will be 24 μ l (2x or 4x formats) or 11 μ l (8x formats) of digested genomic DNA remaining.
 - [] b Add back the 2 μ l as nuclease-free water to bring the volumes back to 26 μ l and 13 μ l in preparation for labeling.



NOTE

Complete digestion is essential for UPD/LOH calling to be effective with SNP microarrays.

[] 8 Proceed directly to Labeling (2x and 4x Formats) on page 6 or Labeling (8x formats) on page 7. Digested gDNA can be stored for up to a month at -25°C to -15°C.

Labeling Materials

The materials listed are for 16 reactions, sufficient for 8 hybridizations.

Table 7 Starting materials for labeling

Starting Materials	Amount (2x and 4x formats)	Amount CytoChip Focus 4x180K	Amount (8x formats)	
Sample/reference DNA	1.0–1.5 μg in 26 μl	0.2–1.5 μg in 26 μl	0.4–0.5 μg in 13 μl	
	per hybridization	per hybridization	per hybridization	
Sample DNA when using	1.0–1.5 μg in 25 μl	0.2–1.5 μg in 25 μl	0.4–0.5 μg in 12 μl	
CytoChip Oligo Spike-ins	per hybridization	per hybridization	per hybridization	

Table 8 Materials required for labeling

Materials Required	Amount (2x and 4x formats)	Amount (8x formats)	Part Number
Commercial control DNA* (100 ng/µl)	0.2–1.5 µg per hybridization	0.4–0.5 μg per hybridization	Promega G1471/G1521
PCR tube (0.2 ml, thin walled, flip cap) or 96-well plate and adhesive seals	16 PCR tubes or 1 96-well plate	16 PCR tubes or 1 96-well plate	Thermo Scientific AB-0620 Thermo Scientific AB-0600, AB-0558

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Materials Required	Amount (2x and 4x formats)	Amount (8x formats)	Part Number
Fluorescent Labeling System [dUTP]	Half a kit	Quarter of a kit	Illumina PR-30-413401/ PR- 30-413437-00 or in pack
Amicon Ultracel-30 membrane (columns included in SNP Packs)	16	16	Millipore UFC503024 (24), UFC503096 (96)
TE (pH 8.0)	16 ml	16 ml	
Microcentrifuge tube (1.5 ml, flip cap)	50	50	Sarstedt 72.690.001
CytoChip Spike-in Controls (optional)**	1 μl per sample	1 μl per sample	Illumina PR-40-41530-00

^{*}For the control, match the DNA quantity used in the sample - CytoChip Focus 4x180K can be as low as 200 ng. **CytoChip Oligo Spike-in Controls can be added at the digestion OR labeling step.

Labeling (2x and 4x Formats)

Estimated Time

Hands-on time: 30 minutes Incubation time: 2 hours

Steps



NOTE

Perform all steps on ice unless otherwise indicated.

- [_] 1 Thaw components from Fluorescent Labeling System, vortex briefly, and centrifuge to collect contents. Retain on ice.
- [_] 2 If using spike-in controls, remove a spike-in strip from the freezer and thaw on ice. Make sure that caps are tightly closed.
 - [_] a Briefly vortex the strip followed by a short centrifugation. Orient the strip with the cap hinge away from you.
 - [_] b Accurately transfer 1 µl of spike-in from each well to each tube or each well of the 96-well plate containing the sample genomic DNA.
 - [_] c Record the spike-in that was added to each sample.



CAUTION

Add the sample tracking spike-ins to the sample DNA, do not add spike-ins to the wells containing reference DNA.

[] 3 Add 5 μ l of random primers to each reaction tube containing 26 μ l of gDNA to make a total volume of 31 μ l. Pipette up and down gently to mix. If necessary, centrifuge to collect the contents at the bottom of the tube.



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- [_] 4 Transfer samples to a pre-warmed lidded thermal cycler at 95°C for 5 minutes (if restriction digestion used) or for 10 minutes (if no restriction digestion is used). Then transfer *immediately* to ice or to a pre-cooled thermal cycler for 5 minutes at 4°C.
- [_] 5 Centrifuge the samples for 1 minute at $6,000 \times g$ to collect the contents at the bottom of each tube. Centrifuge PCR plates at $170 \times g$.
- [_] 6 Prepare the labeling master mixes by adding the components in the quantities and order listed in Table 9.

Table 9 Labeling master mix components and quantities (2x and 4x formats)

Component	Cap color	Cy3 labeling mix 1 rxn	Cy3 labeling master mix 8 rxns*	Cy5 labeling mix 1 rxn	Cy5 labeling master mix 8 rxns*
5x Reaction buffer		10 μl	84 µl	10 μl	84 μΙ
10x dNTP		5 μl	42 μl	5 μΙ	42 μl
Cy3 dUTP		3 μl	25.2 μl		
Cy5 dUTP				3 μl	25.2 μl
Exo-Klenow fragment		1 μl	8.4 μl	1 μl	8.4 μΙ
Total		19 μl	159.6 μl	19 μl	159.6 μl

^{*}Labeling master mix includes 5% excess.

- [$\]$] 7 Add 19 μ l of the labeling master mix to each reaction tube to make a total volume of 50 μ l. Cy3 mix is added to the sample gDNA and Cy5 is added to the reference. Gently pipette up and down to mix. If necessary, centrifuge to collect the contents at the bottom of the tube.
- [] 8 Transfer the samples to a thermal cycler and run the program in Table 10.

Table 10 Thermal cycler program for labeling (2x and 4x formats)

Step	Temperature	Time
1	37°C	2 hours
2	65°C	10 minutes
3	4°C	hold

[_] 9 Proceed directly to *Combination* on page 9. Alternatively, reactions can be stored up to a month at -25°C to -15°C in the dark.

Labeling (8x formats)

Estimated Time

Hands-on time: 30 minutes Incubation time: 2 hours



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Steps



NOTE

Perform all steps on ice unless otherwise indicated.

- [] 1 Thaw components from Fluorescent Labeling System, vortex briefly, and centrifuge to collect contents. Retain on ice.
- [_] 2 If using spike-in controls, remove a spike-in strip from the freezer and thaw on ice. Make sure that caps are tightly closed.
 - [_] a Briefly vortex the strip, then briefly centrifuge. Orient the strip with the cap hinge away from you.
 - [_] b Accurately transfer 1 µl of spike-in from each well to each tube or each well of the 96-well plate containing the sample genomic DNA.
 - [] c Record the spike-in that was added to each sample.



CAUTION

Add the sample tracking spike-ins to the sample DNA, do not add spike-ins to the wells containing reference DNA.

- [$_$] 3 Add 2.5 μ l of random primers to each reaction tube containing 13 μ l of gDNA to make a total volume of 15.5 μ l. Pipette up and down gently to mix. If necessary, centrifuge to collect the contents at the bottom of the tube.
- [_] 4 Transfer samples to a pre-warmed lidded thermal cycler at 95°C for 5 minutes (if restriction digestion used) or for 10 minutes (if no restriction digestion is used). Then transfer immediately to ice or to a pre-cooled thermal cycler for 5 minutes at 4°C.
- [_] 5 Centrifuge the samples for 1 minute at $6,000 \times g$ to collect the contents at the bottom of each tube. Centrifuge PCR plates at $170 \times g$.
- [_] 6 Prepare the labeling master mixes by adding the components in the quantities and order listed in Table 11.

Table 11 Labeling master mix components and quantities (8x formats)

Component	Cap color	Cy3 labeling mix 1 rxn	Cy3 labeling master mix 8 rxns*	Cy5 labeling mix 1 rxn	Cy5 labeling master mix 8 rxns*
5x Reaction buffer		5 μΙ	42 μl	5 μl	42 μl
10x dNTP		2.5 μl	21 μl	2.5 μl	21 μl
Cy3 dUTP		1.5 µl	12.6 μl		
Cy5 dUTP				1.5 μl	12.6 μl
Exo-Klenow fragment		0.5 μl	4.2 μΙ	0.5 μl	4.2 μl
Total		9.5 μl	79.8 µl	9.5 μl	79.8 µl



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	*Labeling master mix includes 5% excess.
[_] 7	Add 9.5 μ l of the labeling master mix to each reaction tube to make a total volume of 25 μ l.
	Cy3 mix is added to the sample gDNA and Cy5 mix is added to the reference. Gently pipette

[] 8 Transfer the samples to a thermal cycler and run the program in Table 12.

Table 12 Thermal cycler program for labeling (8x formats)

Step	Temperature	Time
1	37°C	2 hours
2	65°C	10 minutes
3	4°C	hold

Operator: _

up and down to mix. If necessary, centrifuge to collect the contents at the bottom of the tube.

[_] 9 Proceed directly to Combination. Alternatively, reactions can be stored up to a month at -25°C to -15°C in the dark.

Combination

- [$_$] 1 Centrifuge the labeled genomic DNA samples for 1 minute at 6,000 \times g to collect the contents at the bottom of each tube, or at 170 \times g for PCR plates. Transfer each sample or reference to a separate 1.5 ml microcentrifuge tube.
- [] 2 Add 430 µl of 1x TE (pH 8.0) to each reaction tube.
- [_] 3 For each sample or reference, place an AU-30 filter into a collection tube (supplied with Amicon filters) and load each labeled gDNA into the filter. Centrifuge at 14,000 × g at room temperature for 10 minutes, discard flow through.
- [] 4 Return the filter to the collection tube, add 480 μ l of 1x TE (pH 8.0) to each filter, centrifuge at 14,000 \times g at room temperature for 10 minutes, discard flow through.
- [_] 5 Invert the filter into a fresh collection tube (supplied), centrifuge at 1,000 × g at room temperature for 1 minute to collect the purified sample.
- [_] 6 Measure the volume collected with a pipette. There will be approximately 21 µl, add 1x TE, or use a vacuum concentrator to bring the sample to the volume required:

Table 13 Sample volume required for combination

	2x105K	4x Format	8x60K
Collected Volume	21 µl	21 μl	21 μl
1x TE	20 μl	-	-
Volume required	41 μ	21 μl	9.5 μl

- [_] 7 For the 8x60K formats, concentration of the sample is required. Place sample tubes in a vacuum concentrator (pre-warmed to 75°C or higher) with tops open and evaporate to dryness (~20–40 minutes). Then reconstitute with 9.5 μ l of 1x TE. If no vacuum concentrator is available, ethanol precipitation can be used.
- [_] 8 Take 1.5 µl of each sample and use a Nanodrop Spectrophotometer to determine DNA concentration, dye incorporation, and specific activity for each sample.

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[_] 9	Combine the Cy3 labeled sample and the Cy5 labeled reference DNA for each hybridization area.
[_] 10	Proceed to <i>CytoChip Oligo Hybridization</i> . Alternatively, reactions can be stored up to a month at -25°C to -15°C in the dark.



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CytoChip Oligo Hybridization

Materials

Table 14 Starting materials for hybridization

Table 14 Starting materials	ioi ily bi idization	1	I	1
Starting Material	8 hybs on four 2x format slides	8 hybs on two 4x format slides	8 hybs on one 8x format slide	Part number, or included in Packs
COT Human DNA	200 μΙ	40 μl	16 μl	PR-40-413503-00
2X Hi-RPM buffer	1040 μΙ	440 μ1	180 μΙ	Supplied with Labeling Kit
10X blocking agent (reconstituted)	208 μ1	88 μ1	36 μΙ	Supplied with Labeling Kit
CytoChip Oligo 2x105K slides and gasket slides	4			PR-21-408001-00
CytoChip ISCA 4x44K slides and gasket slides		2		PR-21-408003-00/ PR-21-408010-00
CytoChip ISCA 4x180K slides and gasket slides		2		PR-21-408006-00/ PR-21-408013-00
CytoChip ISCA 8x60K slides and gasket slides			1	PR-21-408005-00
CytoChip Focus 8x60K slides and gasket slides			1	PR-21-408024-00
CytoChip Focus 4x180K slides and gasket slides		2		PR-21-408026-00
CytoChip Oligo SNP 4x180K slides and gasket slides		2		PR-23-438006-00
Agilent Microarray Hybridization Chambers	4	2	1	Agilent G2534A



CAUTION

Microarray slides and gasket slides are made of glass. Handle with care. Inspect the slides for any damage or imperfections before removing from the packaging to make sure that no damage has occurred in transit.

Preparation

Γ	1.1	Pre-warm	а	hotblock t	to 95°C
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- [_] 2 Pre-warm the Agilent Hybridization Oven to 65°C.
- [_] 3 Pre-warm a heat block or waterbath to 37°C.



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Hybridization

Estimated Time

Hands-on time: 30 minutes

Incubation time: 24 hours (4x and 8x formats) or 40 hours (2x formats)

Steps

[_] 1 To each tube containing labeled DNA, add COT, blocking agent, and Hybridization Buffer according to Table 15. Mix and pulse centrifuge to collect the contents at the bottom of the tube.

Table 15 CytoChip hybridization reagents

Reagent	Volume per 2x105K hybridization	Volume per 4x format hybridization	Volume per 8x60K hybridization
Labeled DNA solution (test and reference combined)	79 μl	39 μl	16 μl
COT Human DNA	25 µl	5 μl	2 μl
10X blocking agent	26 µl	11 µl	4.5 μl
2X hybridization buffer (Hi-RPM)	130 μΙ	55 μl	22.5 μl
Total	260 μ1	110 μl	45 μl

- [_] 2 Incubate for 3 minutes at 95°C in a pre-warmed hotblock. Transfer immediately to a pre-warmed hotblock or waterbath at 37°C, and incubate for a further 30 minutes. Cool to room temperature and pulse centrifuge.
- [_] 3 Load a clean gasket slide of the correct format (2x, 4x, or 8x) into an Agilent Microarray Hybridization Chamber base with the gasket label facing upwards over the rectangular alignment area.
- Using a "drag and dispense" method, slowly dispense 245 μ l (2x105K), 100 μ l (4x formats), or 40 μ l (8x60K) of labeled hybridization mixture onto a gasket well.
 - [] a To prevent leakage, avoid contacting the o-ring of the gasket slide with the hybridization mixture.
 - [_] b Load hybridization mixture into all gasket wells before applying the CytoChip Oligo slide.
- [_] 5 Place a CytoChip Oligo slide array-side down onto the gasket slide, with the numeric barcode facing upwards and the Agilent-labeled barcode downwards. The Agilent-labeled side is the active side of the array. Make sure that the slide and gasket are aligned.
- [_] 6 Place the hybridization chamber cover onto the chamber base. Slide the clamp assembly onto the chamber and hand-tighten.

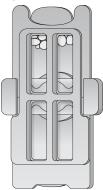


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[_] 7 Holding the assembled chamber vertically (see Figure 1), rotate clockwise three times to wet the slides and assess the mobility of the bubbles. If necessary, tap the chamber on a hard surface to move stationary bubbles.

Figure 1 Assembled hybridization chamber



- [_] 8 Place the assembled slide chamber in the rotator rack in a pre-warmed Hybridization Oven at 65°C. Rotate at 20 rpm and hybridize at 65°C for 24 hours (4x formats or 8x60K), or 40 hours (2x105K).
- [] 9 Proceed with CytoChip Oligo Washing.

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CytoChip Oligo Washing

Materials and Equipment

Prepare the following buffers:

Table 16 CytoChip Oligo wash buffers

Wash	Volume	Temp		Agitation	Buffer
Disassembly	400 ml	RT		None	CytoChip Oligo aCGH Wash Buffer 1, Illumina PR-70-413506-00
1	400 ml	RT	5 min	2.5 cm stir bar	CytoChip Oligo aCGH Wash Buffer 1, Illumina PR-70-413506-00
2	500 ml	37 °C	1 min	None	CytoChip Oligo aCGH Wash Buffer 2, Illumina PR-70-413506-00

Prepare the following equipment:

Table 17 CytoChip Oligo wash equipment

7 1 0 1 1	I	I
Item	Number	Comments
400 ml lidded square glass staining dishes	2	For disassembly and wash 1.
ClearHyb Wash System	1	Waterbath insert should be pre-filled CytoChip Oligo aCGH Wash Buffer 2 preheated to 37 °C for 30 minutes in preparation for wash 2.
25 position stainless steel staining rack.	1	Place the rack in wash 1
Magnetic stirrer	1	
2.5 cm stir bar	1	



NOTE

Glass containers are recommended for washing. For room temperature washes, use foil covers over glass jars to protect slides from light.

Wash Procedures

Estimated Time

Hands-on time: 10 minutes Incubation time: 1 minute

Steps

[_] 1 Disassemble hybridization chambers on the bench.



CytoChip Oligo Washing

CytoChip Oligo Summary Protocol

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[_] a [_] b [_] c	Submerge the gasket and microarray slide in the CytoChip Oligo aCGH Wash Buffer 1 in a square glass staining dish. Separate the gasket slide from the microarray. Transfer the CytoChip Oligo microarrays to the slide rack in wash 1, touching only the edge or barcode of the slide.
SV	Then the rack is fully loaded (wash no more than 12 slides at a time), replace glass lid, witch on stirrer and adjust for good, but not vigorous, stirring. Cover with foil and stir for 5 inutes at room temperature.
	ransfer the slide rack to the ClearHyb containing pre-warmed CytoChip Oligo aCGH Wash affer 2 at 37°C, and incubate for 1 minute.
A	ptional: In a high-ozone environment, use the Ozone-Barrier slide cover kit supplied by gilent (G2505-60550). The Ozone-Barrier slide cover protects Cy dyes from ozone egradation.
m	owly lift the slide rack out of the ClearHyb, allowing the liquid to draw droplets off the icroarray surface. It should take 10–12 seconds to remove the slide rack. Store the slides in e original packaging.