

# GeneAtlas™ Hybridization, Wash, and Stain Kit for 3' IVT Arrays

60 Reactions

## Intended Use

This package insert provides information for the following products:

- GeneAtlas™ Hybridization, Wash, and Stain Kit for 3' IVT Arrays (P/N 901531)\*
  - P/N 901624: Hybridization and Stain Components
  - P/N 901625: Wash Buffers A and B

The GeneAtlas Hybridization, Wash, and Stain Kit includes all the necessary solutions for processing Affymetrix® brand 3' IVT array strips for use with the GeneAtlas Instrument.

*\*The GeneAtlas Hybridization, Wash, and Stain Kit (P/N 901531) consists of P/N 901624 and 901625. Part Numbers 901624 and 901625 are not available for purchase separately.*

## Introduction

During the laboratory procedure for various GeneChip® target labeling assays, biotin-labeled RNA fragments (referred to as the "target") are generated. After target preparation, arrays are processed in preparation for scanning. A hybridization cocktail is prepared including the labeled, fragmented target and hybridization controls. The target is then hybridized to the GeneChip array strips during a 16-hour incubation in the GeneAtlas™ Hybridization Oven. Immediately following hybridization, the array is washed and stained with streptavidin phycoerythrin conjugate using an automated protocol on the GeneAtlas™ Fluidics Station, followed by scanning on the GeneAtlas™ Scanner.

The GeneAtlas Hybridization, Wash, and Stain Kit includes pre-formulated solutions to process 60 arrays (15 4-peg array strips) on the Fluidics Station. The kit includes two boxes: P/N 901624 contains the Hybridization and Stain components. The Hybridization components include the solutions required for pre-hybridization of certain GeneChip arrays and preparation of the hybridization cocktail containing the target. The Stain components include Stain Cocktails 1 and 2, and Array Holding Buffer. These solutions are used during the processing of the arrays in the GeneAtlas™ Fluidics Station. P/N 901625 includes Wash Buffer A and Wash Buffer B, also required for the processing of the arrays in the Fluidics Station.

The GeneAtlas Hybridization, Wash, and Stain Kit reagents are formulated into the fewest number of individual components possible, reducing preparation and handling steps. The Pre-Hybridization Mix, Stain Cocktails 1 and 2, Array Holding Buffer, and Wash Buffers A and B are ready-to-use solutions. The hybridization cocktail is prepared by combining the 1.3X Hybridization Mix, and Nuclease-free Water with the target prepared by the user during the specific GeneChip target labeling assay.

**NOTE:** Hybridization controls are required and must be purchased separately. The GeneChip® Hybridization Control Kit includes the Control Oligonucleotide B2. The Control Oligonucleotide B2 is also available for individual purchase.

## Protocol Information

**IMPORTANT:** Specific protocols and Fluidics Scripts are required for various GeneChip array applications when using the GeneAtlas Hybridization, Wash, and Stain Kit. Please refer to [www.affymetrix.com](http://www.affymetrix.com) for a list of supporting manuals, protocols, and additional information on the appropriate Fluidics Scripts for use with this kit.

## Kit Components

Component	Volume	Storage
<b>P/N 901624</b>		
1X Pre-Hybridization Mix	9.0 mL	2°C to 8°C
1.3X Hybridization Mix Solution A	3.0 mL	2°C to 8°C
1.3X Hybridization Mix Solution B	5.6 mL	2°C to 8°C
Nuclease-free water	2.0 mL	2°C to 8°C
Stain Cocktail 1	52.5 mL	2°C to 8°C
Stain Cocktail 2	26.3 mL	2°C to 8°C
Array Holding Buffer	15 mL	2°C to 8°C
<b>P/N 901625</b>		
Wash Buffer A	519 mL	2°C to 8°C
Wash Buffer B	64 mL	2°C to 8°C

## Ordering Information

P/N	Product Name	Description/Size
901531	GeneAtlas™ Hybridization, Wash, and Stain Kit for 3' IVT Arrays <sup>1</sup>	60 Reactions
<b>Supporting Products</b>		
901649	GeneAtlas™ 3' IVT Express Kit	20 Reactions
900721	GeneChip® Wash Buffer A <sup>2</sup>	800 mL
900722	GeneChip® Wash Buffer B <sup>2</sup>	600 mL
900454	GeneChip® Hybridization Control Kit	30 Reactions
900457		150 Reactions
900301	GeneChip® Control Oligo B2, 3 nM	30 Reactions

<sup>1</sup> The GeneAtlas Hybridization, Wash, and Stain Kit for 3' IVT Arrays includes two boxes: P/N 901624 contains the Hybridization and Stain components, and P/N 901625 includes the Wash Buffers.

<sup>2</sup> Wash Buffer A and Wash Buffer B are available for purchase individually.

Additional Affymetrix® reagents are available for purchase separately. Please refer to [www.affymetrix.com](http://www.affymetrix.com) for related product ordering information.

Affymetrix products can be purchased directly from Affymetrix in the United States, many European countries, and many Asian countries. For all other territories, please view a list of our distribution partners, which can be located at: [www.affymetrix.com/site/contact/index.affx](http://www.affymetrix.com/site/contact/index.affx).

## Storage

The GeneAtlas Hybridization, Wash, and Stain Kit should be kept at 2° to 8°C.

## Functional Testing

Each lot of reagents is rigorously tested for performance.

## Safety Information

**WARNING!** Contains Sodium Azide. May react with lead and copper plumbing to form highly explosive metal azides.

A Material Safety Data Sheet(s) (MSDS) is available at [www.affymetrix.com](http://www.affymetrix.com). The MSDS(s) are sent only on the first shipment, unless a substantial revision occurs. If the product is a kit or is supplied with more than one material, please refer to the MSDS for each component for hazard information.

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