


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

Catalog Numbers 901530

Pub. No. 702810 Rev. 4

 **WARNING!** Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. Safety Data Sheets (SDSs) are available from thermofisher.com/support.

Product use

This product information sheet provides information for the Applied Biosystems™ GeneTitan™ Hybridization, Wash, and Stain Kit for 3' IVT Arrays (Cat. No. 901530). The kit is composed of two boxes:

- Part No. 901623: GeneTitan™ Hybridization and Stain Module for 3' IVT Arrays^[1]
- Cat. No. 901583: GeneTitan™ Wash Buffers A and B Module

The GeneTitan™ Hybridization, Wash, and Stain Kit for 3' IVT Arrays includes all the necessary solutions for processing Applied Biosystems™ 3' IVT array plates.

Introduction

During the laboratory procedure for various GeneChip™ target labeling assays, biotin-labeled RNA fragments (known 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 in array plate format during a 16-hour incubation. Immediately following hybridization, the array is washed and stained with streptavidin phycoerythrin conjugate using an automated protocol, followed by scanning on a GeneTitan™ Instrument.

The GeneTitan™ Hybridization, Wash, and Stain Kit for 3' IVT Arrays includes pre-formulated solutions to process 96 reactions on HT array plates on the GeneTitan™ Instrument. The kit includes two boxes: Part No. 901623 contains the Hybridization and Stain components. The Hybridization components include the solutions that are required for the preparation of the hybridization cocktail containing the target. The Stain components include Stain Cocktail 1 & 3, Stain Cocktail 2, and Array Holding Buffer. Cat. No. 901583 includes Wash Buffer A and Wash Buffer B, also required for the processing of HT array plates on the GeneTitan™ Instrument. Additional bottles of Wash Buffers A and B are also available for purchase individually.

^[1] The GeneTitan™ Hybridization, Wash, and Stain Kit for 3' IVT Arrays (Cat. No. 901530) consists of Part. No. 901623 and cat. No. 901583. Part No. 901623 is not available for purchase separately.

The GeneTitan™ Hybridization, Wash, and Stain Kit for 3' IVT Arrays reagents are formulated into the fewest number of individual components possible, reducing preparation, and handling steps. Stain Cocktail 1 & 3, Stain Cocktail 2, Array Holding Buffer, and Wash Buffers A and B are ready-to-use solutions. The hybridization cocktail is prepared by combining the HT 1.3X Hybridization Mix, and Nuclease-Free Water with the target prepared during the specific GeneChip™ target labeling assay.

Note: Hybridization controls are required and must be ordered separately. The GeneChip™ Hybridization Control Kit includes the Control Oligonucleotide B2. The Control Oligonucleotide B2 is also available for individual purchase.

Instructions for use

Specific protocols and Fluidics Scripts are required for various GeneChip™ array applications when using the GeneTitan™ Hybridization, Wash, and Stain Kit for 3' IVT Arrays. See thermofisher.com for a list of supporting manuals, protocols, and additional information on the appropriate Fluidics Scripts for use with this kit.

Kit components

Part No./Cat. No.	Component	Volume
Part No. 901623	Hybridization and Stain Module for 3' IVT Arrays	
	1.3X Hybridization Mix Solution A	7.0 mL
	1.3X Hybridization Mix Solution B	11 mL
	Stain Cocktail 1 & 3	24 mL
	Stain Cocktail 2	13 mL
	Array Holding Buffer	110 mL
Cat. No. 901583	Wash Buffers A and B Module	
	Wash Buffer A	1,045 mL
	Wash Buffer B	450 mL

Ordering information

Cat. No.	Product name	Description
901530	GeneTitan™ Hybridization, Wash, and Stain Kit for 3' IVT Arrays ^[1]	96 reactions
901583	GeneTitan™ Wash Buffers A and B Module	Wash Buffer A = 1,045 mL Wash Buffer B = 450 mL
900454	GeneChip™ Hybridization Control Kit	30 reactions
900457	GeneChip™ Hybridization Control Kit	150 reactions
900301	GeneChip™ Control Oligo B2, 3 nM	30 reactions

^[1] The GeneTitan™ Hybridization, Wash, and Stain Kit for 3' IVT Arrays includes two boxes: Part No. 901623 contains the Hybridization and Stain components, and Cat. No. 901583 contains Wash Buffers A and B.

Storage

The GeneTitan™ Hybridization, Wash, and Stain Kit must be kept at 2° to 8°C.

Functional testing

Every lot is rigorously tested for performance.

Limited product warranty

Life Technologies Corporation and/or its affiliate(s) warrant their products as set forth in the Life Technologies' General Terms and Conditions of Sale found on Life Technologies' website at www.thermofisher.com/us/en/home/global/terms-and-conditions.html. If you have any questions, please contact Life Technologies at www.thermofisher.com/support.



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Revision	Date	Description
4	01 August 2017	Updated document to current template.
3	19 May 2014	Baseline for revision history.

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