GeneChip™ Eukaryotic Poly-A RNA Control Kit

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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**.

Introduction

The Applied Biosystems™ GeneChip™ Eukaryotic Poly-A RNA Control Kit is designed specifically to provide exogenous positive controls to monitor the entire GeneChip™ eukaryotic target labeling process.

Each eukaryotic GeneChip™ expression array contains probe sets for several *B. subtilis* genes that are absent in the samples analyzed (*lys, phe, thr*, and *dap*). This Poly-A RNA Control Kit contains *in vitro* synthesized, polyadenylated transcripts for these *B. subtilis* genes that are pre-mixed at staggered concentrations to allow GeneChip™ expression array users to evaluate the overall success of the assay. The concentrated Poly-A Control Stock can be diluted with the Poly-A Control Dil Buffer (supplied as part of the kit) and spiked directly into the RNA samples to achieve the final concentrations (known as a ratio of copy number) summarized below:

Poly-A RNA Controls	Final concentration
lys	1:100,000
phe	1:50,000
thr	1:25,000
dap	1:6,667

The controls are then amplified and labeled together with the samples. Examining the hybridization intensities of these controls on GeneChip™ arrays helps you monitor the labeling process independently from the quality of the starting RNA samples.

Instructions for use

Detailed procedures for using this kit are provided in the *GeneChip™ Expression Analysis Technical Manual*, *GeneChip™ WT PLUS Reagent Kit User Guide*, and the *GeneChip™ 3′ IVT PLUS Reagent Kit User Guide*, available at **thermofisher.com**.

Kit components

Component	Volume
Poly-A Control Stock	16 µL
Poly-A Control Dil Buffer	3.8 mL

Storage

The GeneChip™ Eukaryotic Poly-A RNA Control Kit must be kept at –20°C in a non-frost-free freezer. Performance of the Poly-A Control Stock has been shown to be unaffected for up to eight freeze-thaw cycles.

Functional testing

GeneChip™ array functional testing: Each lot is functionally tested in the GeneChip™ expression assay following the recommended protocols.

Nuclease testing: Each component is tested in rigorous nuclease assays.

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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The information in this guide is subject to change without notice.

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Revision	Date	Description
7	01 August 2017	Updated document to current template.
6	23 May 2014	Baseline for revision history.

For Research Use Only. Not for use in diagnostic procedures.

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