

*flash*tag™ HSR

RNA Labeling Kit for Affymetrix® GeneChip® miRNA arrays

Characteristics

microRNA labeling in 45 minutes
No purification steps
Total RNA or LMW RNA labeling
ELOSA QC Assay

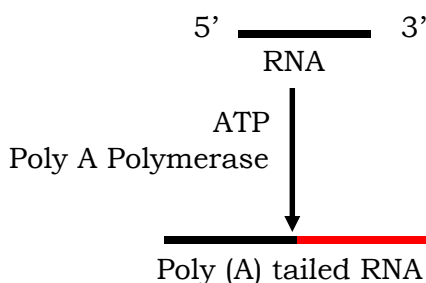
Specifications

Sensitivity: ≤ 1 attomole
Dynamic Range: $4 \log_{10}$
Specificity: 1 nt discrimination
Reproducibility: CVs $\leq 10\%$

Introduction

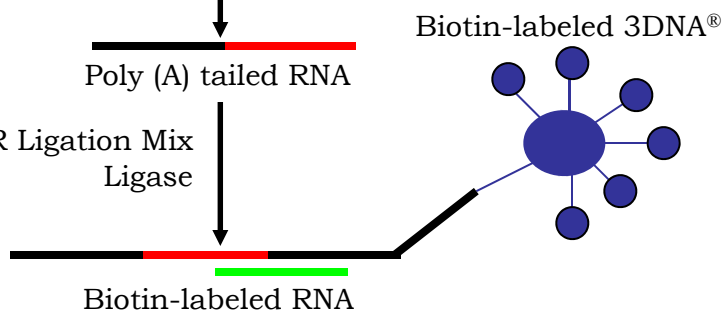
Low Molecular Weight RNA molecules (miRNA, snRNA, hnRNA, piRNA, etc.) have recently been shown to be involved in important biological processes such as mRNA degradation, transcriptional gene silencing and translational repression. As a result, these newly discovered biomolecules are gaining the interest of the scientific community as possible new drug targets and for use in diagnostics. **FlashTag HSR** provides the tools to identify such targets. The FlashTag HSR kit will label any RNA sample, including total RNA, severely degraded RNA, plant RNA, and low molecular weight RNA. The labeled sample is ready for hybridization to Affymetrix GeneChip miRNA Arrays. FlashTag Biotin HSR produces accurate, validated results from **as little as 100ng Total RNA**.

① Poly (A) Tailing (15 minutes)



② Ligation (30 minutes)

FlashTag HSR Ligation Mix
Ligase



Genisphere®

SIGNAL + SAMPLE AMPLIFICATION PRODUCTS

References

1. Schembri et al. MicroRNAs as modulators of smoking-induced gene expression changes in human airway epithelium. PNAS 2009 vol. 106 no. 7, 2319-2324.
2. Taylor and Gant. Emerging fundamental roles for non-coding RNA species in toxicology. Toxicology 2008 vol. 246 Issue 1, 34-39.
3. Nilsen et al. Dendritic Nucleic Acid Structures. J. Theor. Biol. 1997, 187:273-284.
4. Stears et al. A novel, sensitive detection system for high-density microarrays using dendrimer technology. Physiol. Genomics. 2000, 3:93-99.

Part Number	Product	Description
Labeling Kits		
HSR10FTA	FlashTag Biotin HSR	10 assays
HSR30FTA	FlashTag Biotin HSR	30 assays
Supporting Products		
FT5ELOSA	ELOSA Plates	5 96-well plates
V25DEX	25% dextran sulfate	1.5mL

Genisphere LLC.
2801 Sterling Drive
Hatfield, PA 19440

Email: info@genisphere.com
Phone: 877.888.3DNA
Web: www.genisphere.com

Genisphere[®]

SIGNAL + SAMPLE AMPLIFICATION PRODUCTS