



miRLink™ microRNA Expression Profiling Service



MicroRNA (miRNA) expression profiling, using robust and sensitive microarrays, can provide broad and novel insight into gene regulation. Asuragen has developed a microarray-based application for studying miRNAs that combines a unique miRNA labeling method with an innovative probe design and the established Codelink® technology. This custom miRLink™ v11.0 Array is manufactured by Applied Microarrays Inc. (AMI) exclusively for Asuragen.

Key Benefits Include

- Entire human, mouse and rat Sanger 11.0 content on a single array (837 human mature miRNAs, 599 mouse, 350 rat, 85 controls)
- 8-plex slide format printed the time-tested Codelink® technology
- In-Process controls to monitor labeling and hybridization to ensure consistent results
- Compatibility with a wide range of sample types (blood, cell lines, tissues, FFPE and others)
- High sensitivity (< 5 amol), specificity allowing discrimination of highly-related miRNA family members and high reproducibility (CV < 3%)

As a part of miRLink miRNA profiling service the following analyses are performed

1. Variance stabilization Normalization (VSN)
2. Hypothesis testing with one-way ANOVA or t-test
3. Principal Component Analysis (PCA) & Hierarchical clustering
4. miRNAs Annotations to Sanger 13.0

Deliverables

- **Raw data files**

- **Analysis Report includes:**

(in MS Excel Format for each species i.e. human, mouse and rat, unless table dimensions exceed MS Excel capabilities, in which case csv files will be provided)

- Project Description & Array QC
- Background Corrected Data and Normalized Data
- Statistics (not included if experimental design does not permit statistical analysis, or in data-only projects)

- **Publication Quality Figures**

(in .jpg format) (for each species i.e. human, mouse and rat; some figures may not be included depending on the experimental design)

- Boxplots (before and after normalization) and Hierarchical clustering
- PCA Plots and Pairwise Volcano plots

CA0032	QC, NanoDrop and TaqMan, Total RNA, for microRNA Applications
CA0094	Target Preparation; miRLink Arrays; per sample
CC0380	miRLink™ v11.0 Array, for 8 samples
CA0095	Array Processing and Scanning miRLink arrays, per sample
CS0004	Data analysis, microRNA, SSP, per unit of 100 samples
CS0010	Data Analysis, Custom

Contact Asuragen to learn more.