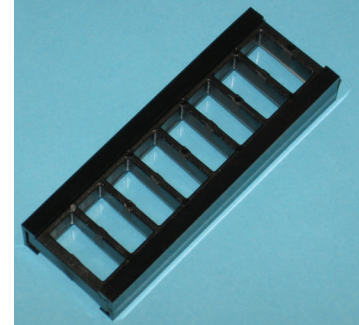


MicroRNA (miRNA) expression profiling, using robust and sensitive microarrays, can provide broad and novel insight into gene regulation. Asuragen has developed a microarray-based application for studying miRNAs that combines a unique miRNA labeling method with an innovative probe design and the established Codelink® technology. This custom miRLink™ version 16.0 Array is manufactured by Applied Microarrays Inc. (AMI). miRLink™ version 16.0 Array captures the entire human content of the Sanger version 16.0 database on a single array. The competitive cost of the miRLink™ array allows profiling of a significantly larger number of samples for greater statistical power in your experiments. As a result, miRLink™ provides a cost effective yet robust and high performance miRNA array with validated Sanger content.

General specifications of Asuragen’s miRLink™ miRNA microarrays:

- 8-plex format (8 arrays per slide)
- Up to 30-mer probe length
- 3 replicate features per miRNA
- Entire Sanger miRBase 16.0 content for human on a single array (1,211 human miRNAs, 85 controls)



- Custom formats available
- Automation-friendly

Product Number	Description
300054-3PK	miRLink™ v. 16 Human miRNA microarrays (3 pack)

Use the same platform for microRNA and gene expression

CodeLink™ Expression Arrays

Performance Specifications for CodeLink Human Arrays

Performance parameter	Performance requirement	Verified assay performance
Specificity	Discrimination > 2 base mismatches	Discrimination > 2 base mismatches
Sensitivity	1:600,000 mass ratio (bacterial spike)*	1:2,048,000 mass ratio (bacterial spike)*; 1:1,024,000 mass ratio with mRNA spiking at total RNA level**
Dynamic range	Linear signal response over two orders of magnitude	Linear signal response over three orders of magnitude; 0.05 pM – 50 pM
Signal reproducibility (total CV)	< 20% total median CV	19.6% total median CV; 8.2% median CV for all spots excluding spots below noise
Minimum detectable fold change	95% within two-fold change for the same tissue	97.6% within two-fold change for the same tissue for all good spots
Input sample	0.1 µg – 2 µg total RNA	0.1 – 2.0 µg total RNA***

Product Number	Description
300026-6PK	CodeLink™ Human Whole Genome Bioarray (6 pack)
300033-6PK	CodeLink™ Mouse Whole Genome Bioarray (6 pack)
300031-6PK	CodeLink™ Rat Whole Genome Bioarray (6 pack)



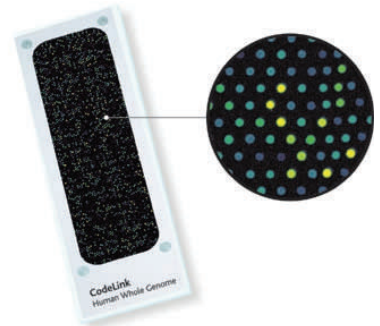
Whole Genome Expression Arrays

Human

Probe sets	Probes/gene	Redundancy	Dispense count
Number of human probes	One probe/transcript x 54,841 unique sequences	1	54,841 probes
Positive bacterial control probes	5 probes/gene x 6 bacterial targets	12	360 probes
Negative bacterial control probes	32 negative control probes	12	384 probes
TOTAL			55,585 probes

Mouse

Probe sets	Probes/gene	Redundancy	Dispense count
Number of mouse probes	34,967 unique sequences	1	34,967 probes
Positive bacterial control probes	5 probes/gene x 6 bacterial targets	30	300 probes
Negative bacterial control probes	32 negative control probes	32	320 probes
TOTAL			35,587 probes



Rat

Probe sets	Probes/gene	Redundancy	Dispense count
Number of rat probes	33,849 unique sequences	1	33,849 probes
Positive bacterial control probes	5 probes/gene x 6 bacterial targets	8	240 probes
Negative bacterial control probes	32 negative control probes	8	256 probes
TOTAL			34,345 probes

Storage

Upon receipt, store mirRLink™ and CodeLink™ arrays with desiccant at room temperature.



Products are for research use only



miRLink and CodeLink microarrays are printed on Surmodics 3D polymer slides

www.AppliedMicroarrays.com