



# CodeLink Human Whole Genome Bioarray

CodeLink™ Human Whole Genome Bioarray has 54,841 probes representing up to 57,347 unique transcripts. The transcript sequences were selected from the NCBI UniGene build #165, the RefSeq database (January 5, 2004 release), and the dbEST database (January 8, 2004 release). In addition to the discovery probe sequences, each bioarray contains positive and negative bacterial control probes for monitoring array performance. All oligonucleotide probes are 30 bases long.

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
<b>TOTAL</b>			<b>55,585 probes</b>

## Performance specifications

The following data are based on results from the final product verification studies conducted using a series of bioarrays and targets generated from human tissue.

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***

\* mass ratio spiking of cRNA control spike into cRNA target

\*\* the lowest level tested in verification experiments with mRNA spiking

\*\*\* generates sufficient amplified material for 1-8 replicates depending on tissue and starting amount

## Storage and handling conditions

Upon receipt, store CodeLink™ Human Whole Genome Bioarrays with desiccant at room temperature.

## Safety precautions

Standard laboratory safety procedures should be followed when using this product. Safety glasses, a lab coat, and appropriate gloves should be worn at all times when in the laboratory.

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