



SurePrint Community Design GE Ferret

The first microarray to enable comprehensive gene expression analysis of *Mustela putorius furo*



Developed by Professor Andreu Palou's team at the University of the Balearic Islands.

"[The ferret] is very susceptible to infection with human influenza viruses, and unlike some other animal models, such as mice, there is no need for prior host adaptation of the human viruses. Hence ferrets are considered by many to be the most suitable small animal model for influenza research relating to humans."

European Centre for Disease Prevention and Control¹³

The Importance of the Ferret as an Animal Model

Less popular than its rodent model counterparts, the domestic ferret (*Mustela putorius furo*) has proven highly useful in various research areas including immunology, biochemistry, physiology, and nutrition. As their respiratory system bears striking similarity to that of humans, they are often the model of choice for studying respiratory diseases such as cystic fibrosis, lung cancer, and SARS. In fact, ferrets are considered the gold standard for modelling human influenza infection¹.

Whole-Transcriptome Gene Expression

The SurePrint CD GE 2x400K Ferret Microarray is the first complete, commercially available array for studying gene expression in ferrets. The array's whole-transcriptome content makes it suitable for a variety of research applications including nutrition, cardiovascular disease, and obesity studies²⁻¹⁰. Of particular relevance to cardiovascular and obesity protection research, this array has already enabled researchers to characterize transcriptomic changes in ferret adipose tissue in response to cold exposure^{8,9}.

This array also represents a key tool to accelerate the research of human respiratory diseases, including the rapid development and evaluation of novel therapeutics against circulating virus strains. This is of particular relevance given the COVID-19 global pandemic and the proven utility of ferret models in respiratory pathogen transmission^{11,12}.

Technical Specifications

- Get whole-transcriptome data, targeting 45,346 distinct transcripts, representing 19,325 genes in a 2x400K format
- Achieve greater confidence in your results thanks to presence of 4 unique probes covering each transcript
- Obtain increased assay robustness thanks to the presence of 2 replicates for each probe
- Perform quality control with the inclusion of Agilent control probes

Ordering Information

Part Number	Description	Kit Size	Number of Samples
G5986A	SurePrint CD GE 2x400K Ferret	1 array	2
5190-2305	Low Input Quick Amp Labeling kit 1 color	1 kit	24
5190-2306	Low Input Quick Amp Labeling kit 2 color	1 kit	24
5188-5242	Gene Expression Hybridization kit	1 kit	20
5188-5327	Gene Expression Wash Buffer kit	1 kit	80
G2534-60002	Hybridization Gasket slides 2 microarray/slide	5 slides	10
5188-5282	RNA spike-in kit one color	10 µL	NA
5188-5279	RNA spike-in kit two color	2x10µL	NA

Go to www.agilent.com/genomics to see all available kit configurations.

www.agilent.com

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

Disclaimer: Agilent products are NOT approved for COVID-19 testing, diagnosis, treatment, or mitigation. Agilent has not validated a product to detect the novel coronavirus.

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