



## Specification Sheet: Arrays for eukaryotic gene expression

Specifications for Oxford Gene Technology (OGT) microarray service for eukaryotic gene expression studies

Measurable	OGT eukaryote arrays
360° QC	RNA QC upon sample arrival QC of labelling efficiency and incorporation LIMS sample tracking
Microarray platform	Agilent HD OGT design printed on Agilent SurePrint™ G3 microarrays
Species covered	All species covered by Agilent SurePrint arrays; includes custom eArray designs
Array density	1x244k, 2x105k, 4x44k, 8x15k G3: 1x1M, 2x400k, 4x180k, 8x60k
Experimental design consultancy	Available on request
Sample preparation consultancy	Available on request
Starting sample	Total RNA, poly A <sup>+</sup> RNA
Starting sample requirement	Two colour: Total RNA: 50 ng – 5 µg; poly A <sup>+</sup> : >10ng One colour: Total RNA: 200 ng – 1 µg; poly A <sup>+</sup> >10ng
Sample QC method	Agilent 2100 Bioanalyzer: RNA LabChip NanoDrop™ 8000 spectrophotometer
Labelling method	Direct labelling – linear amplification (cRNA)
Slide format	1x244k, 2x105k, 4x44k, 8x15k G3: 1x1M, 2x400k, 4x180k, 8x60k Printed using Agilent SurePrint technology
No. of controls	Number depends on array density, please enquire
Replicate no. of probes	Number depends on array, please enquire
Genome coverage	Whole genome with human, mouse, rat (4x44k); Bespoke coverage with eArray
Database version	Genome build: hg18
Custom sequences	Available on request
Custom design by OGT	Available
Single/dual colour	Both
Detection limit	Two colour: 50 ng One colour: 200 ng
Sensitivity	Two colour: 1 in 7 million transcripts (based on molar ratio) One colour: 1 in 1.4 million transcripts (based on molar ratio)
Dynamic range	5 logs
Data analysis	Tailored to customer requirements (e.g. GeneSpring® GX Software)
Data format	Tailored to customer requirements TIFF images, XML files, TXT files (raw data), customer report, relevant data analysis files (e.g. GeneSpring), QC report

LIMS: laboratory information management system; QC: quality control; ULS: Universal Linkage System.

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Trademarks: OGT™ (Oxford Gene Technology IP Ltd); SurePrint™, GeneSpring® (Agilent Technologies, Inc.); NanoDrop™ (Thermo Fisher Scientific, Inc.)

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