

Agilent Bioreagent Components for Processing Microarrays

Gene Expression and miRNA Reagents

Part Number	Description
5185-6000	Total RNA Isolation Mini Kit (50) Contains reagents, mini-pretreatment columns, mini-isolation columns, and final nuclease-free collection tubes for 50 total RNA isolations from mammalian cells (5×10^5 – 5×10^6), tissues (2.5 – 30 mg), yeast (10^7) and bacteria (10^8).
5188-2780	Plant RNA Isolation Mini Kit (50) Contains reagents, mini-pretreatment columns, mini-isolation columns, and final nuclease-free collection tubes for 50 total RNA isolations from a wide range of species and tissue types. ¹
5190-2305	Low Input Quick Amp Labeling Kit, one-color Contains Cyanine 3-CTP and enzyme kit to amplify and label RNA for oligo microarrays. Uses 25 – 200 ng total RNA input. Kit is sufficient for 24 reactions. Low Input Quick Amp Labeling Kit with Cyanine 5-CTP is also available (Part Number 5190-2307).
5190-2306	Low Input Quick Amp Labeling Kit, two-color Contains Cyanine 3-CTP, Cyanine 5-CTP, and enzyme kit to amplify and label RNA for oligo microarrays. Uses 25 – 200 ng total RNA input. Kit is sufficient for 48 reactions, 24 with each dye.
5190-2308	Low Input Quick Amp Labeling Kit, no dye Contains enzyme kit to amplify and label RNA for oligo microarrays. Uses 25 – 200 ng total RNA input. Kit is sufficient for 24 reactions. This product does not contain Cyanine CTP.
5190-0442	Quick Amp Labeling Kit, one-color Contains Cyanine 3-CTP and enzyme kit to amplify and label RNA for oligo microarrays. Uses 200 ng – 1 µg total RNA input. Kit is sufficient for 20 reactions. Low Input Quick Amp Labeling Kit with Cyanine 5-CTP is also available (Part Number 5190-2307).
5190-0444	Quick Amp Labeling Kit, two-color Contains Cyanine 3-CTP, Cyanine 5-CTP, and enzyme kit to amplify and label RNA for oligo microarrays. Uses 50 ng – 2 µg total RNA input. Kit is sufficient for 20 reactions, 10 with each dye.
5190-0447	Quick Amp Labeling Kit, no dye Contains enzyme kit to amplify and label RNA for oligo microarrays. Uses 25 – 200 ng total RNA input. Kit is sufficient for 20 reactions. This product does not contain Cyanine CTP.
5188-5282	One-Color RNA Spike-in Kit Contains dilution buffer and a pre-mixed cocktail in a predetermined ratio-generating concentration to serve as a positive microarray control. Kit sufficient for at least 200 microarray hybridizations.
5188-5279	Two-Color RNA Spike-in Kit Contains dilution buffer and two pre-mixed cocktails in predetermined ratio-generating concentrations that serve as positive microarray controls. Kit sufficient for at least 200 microarray hybridizations.
5188-5242	Gene Expression Hybridization Kit Contains 2X Hi-RPM Hybridization Buffer, 25X Fragmentation Buffer, and 10X Gene Expression Blocking Agent for at least 10 slides.
5190-0404	Hi-RPM Gene Expression Hybridization Kit, Large Volume Contains 2X Hi-RPM Gene Expression Hybridization Buffer, 25X Fragmentation Buffer, and 10X Gene Expression Blocking Agent for at least 100 slides. Components may be purchased separately.



Gene Expression and miRNA Reagents (continued)

Part Number	Description
5188-5325	Gene Expression Wash Buffer 1 Contains wash buffer 1 packaged in 4L container. Sufficient for 80 slides.
5188-5326	Gene Expression Wash Buffer 2 Contains wash buffer 2 packaged in 4L container. Sufficient for 80 slides.
5188-5327	Gene Expression Wash Buffer Kit Contains two 5188-5325 (Gene Expression Wash Buffer 1, 4L each), one 5188-5326 (Gene Expression Wash Buffer 2, 4L) and Triton X-102 detergent additive. Kit contains sufficient wash buffer for up to 80 slides. Wash buffers may be purchased separately.
5185-5979	Stabilization and Drying Solution, 500 mL Contains reagent that prevents ozone-induced degradation of cyanine dyes during processing and scanning of Agilent oligo-based microarrays. Sufficient stabilization and drying solution for up to 50 gene expression slides. Customer must purchase the following to use this product with oligo aCGH arrays: Acetonitrile (Sigma-Aldrich 271004-1L).
5190-0456	miRNA Complete Labeling and Hybridization Solution Contains a novel Cyanine 3-nucleotide along with all necessary array labeling and hybridization reagents. Contains sufficient reagents to label and hybridize 24 microarrays. Kit contents include T4 RNA Ligase, Calf Intestinal Phosphatase, Cyanine 3-pCp, Hi-RPM Hybridization Buffer, DMSO, and associated buffers.
750700	Universal miRNA Reference Kit High-quality human total RNA for miRNA and gene expression profiling on microarray and QPCR platforms. Comprised of 9 different tissues and cell lines for broad gene and miRNA coverage on human microarrays. Contains: 1 tube x 10 µg, in storage buffer, 10uL.
740000	Universal Human Reference RNA High-quality total RNA for human, mouse and rat microarray gene-expression profiling. Comprised of 10 cell lines for human, 11 for mouse, and 14 for rat giving broad gene coverage. Not for use with miRNA experiments. Contains 2 tubes x 200 µg each, RNase-free water, 1.5 mL.
5190-1934	microRNA Spike-In Kit Includes 2 vials of spike in controls (one labeling spike-in vial and one hybridization spike-in vial) and 2 vials of dilution buffer. Kit is sufficient for 384 reactions. Kit is to be used with miRNA Complete Labeling and Hyb Kit (part Number 5190-0456).

2100 Bioanalyzer RNA and DNA Kits

Part Number	Description
5067-1511	Agilent RNA 6000 Nano Kit For the analysis and quantitation of total and mRNA samples of 25 to 500 ng/µL in concentration. The kit includes microfluidic chips, reagents and consumables sufficient for 300 samples.
5067-1513	Agilent RNA 6000 Pico Kit For the analysis of low concentrated RNA samples down to 50 pg/µL of total RNA or 250 pg/µL of mRNA. The kit includes microfluidic chips, reagents and consumables sufficient for 275 samples.
5067-1548	Agilent Small RNA Kit For the analysis and quantitation of small RNA samples of 6 and 150 nt in size and 50 to 2000 pg/µL in concentration. The kit includes microfluidic chips, reagents and consumables sufficient for 275 samples.
5067-1504	Agilent DNA 1000 Kit For the sizing and quantitation of dsDNA fragments from 25 to 1000bp. The kit includes microfluidics chips, reagents, and consumables sufficient for 300 samples.
5067-1506	Agilent DNA 7500 Kit For the sizing and quantitation of dsDNA fragments from 100 to 7500bp. The kit includes microfluidics chips, reagents, and consumables sufficient for 300 samples.
5067-1508	Agilent DNA 12000 Kit For the sizing and quantitation of dsDNA fragments from 100 to 12000bp. The kit includes microfluidics chips, reagents, and consumables sufficient for 300 samples.
5067-4626	Agilent High Sensitivity DNA Kit For the sizing and quantitation of dsDNA fragments from 50 to 7000bp. The kit includes microfluidics chips, reagents, and consumables sufficient for 110 samples.

CGH, ChIP-on-Chip, and DNA Methylation Reagents

Part Number	Description
5190-0449	Genomic DNA Enzymatic Labeling Kit Contains Cyanine 3- and Cyanine 5-dUTP and reagents to label genomic DNA for Oligo aCGH microarrays. Kit is sufficient for 50 reactions (or 100 reactions for the 8-pack). Customer must purchase the following to purify the labeled DNA: Amicon Ultra-0.5, Ultracel-30 Membrane, 30 kDa filter units (Millipore part numbers UFC503008, UFC503024, UFC503096 or UFC5030BK) or AutoScreen-96A well plates (GE Healthcare part number 25-9005-98).
5190-0450	Genomic DNA High-Throughput ULS Labeling Kit Genomic DNA labeling kit validated and optimized for DNA isolated from FFPE, cells, blood, and tissue. Contains sufficient two-color labeling reaction reagents for 16 — 1-pack, 24 — 2-pack, 48 — 4-pack, and 96 — 8-pack microarrays. Customers should purchase either the Genomic DNA Purification Module (5190-0418) or the Genomic DNA 96-well Purification Module (5190-0451) to purify the labeled genomic DNA.
5190-0419	Genomic DNA ULS Labeling Kit Genomic DNA labeling kit validated and optimized for DNA isolated from FFPE, cells, blood, and tissue. Contains sufficient two-color labeling reaction reagents for 5 microarray slides of the formats 1-pack, 2-pack, 4-pack or 8-pack. Contains sufficient purification columns for processing 5 — 1-pack microarrays. Additional columns and tubes should be ordered separately when using multi-pack microarrays (5190-0418).
5190-0451	Genomic DNA 96-well Purification Module Used for ULS-labeled genomic DNA purification. Contents include 1 96-well purification plate, 1 wash plate, and 1 collection plate.
5190-0418	Genomic DNA Purification Module Used for ULS-labeled genomic DNA purification. Contents include 10 purification columns and 10 collection tubes.
5188-5220	Oligo aCGH/ChIP-on-Chip Hybridization Kit (25) Contains 2X Hi-RPM Hybridization Solution and 10X Blocking Agent for 25 slides. Customer must purchase the following to prepare hybridization solution: Human Cot-1 DNA (Invitrogen part numbers 15279-011 or 15279-101 and Kreatech part number EA-020) or Mouse Cot-1 DNA (Invitrogen part number 18440-016) or Rat Hybloc (Applied Genetics part number RHB). DNase/RNase-Free Distilled Water (Invitrogen part number 10977-015).
5188-5380	Oligo aCGH/ChIP-on-Chip Hybridization Kit, Large Volume Contains 2X Hi-RPM Hybridization Solution and 10X CGH Blocking Agent for 100 slides. Customer must purchase the following to prepare hybridization solution: Human Cot-1 DNA (Invitrogen part numbers 15279-011 or 15279-101 and Kreatech part number EA-020) or Mouse Cot-1 DNA (Invitrogen part number 18440-016) or Rat Hybloc (Applied Genetics part number RHB). DNase/RNase-Free Distilled Water (Invitrogen part number 10977-015).
5188-5221	Oligo aCGH/ChIP-on-Chip Wash Buffer 1, 4L Contains wash buffer (Buffer 1) packaged in 4L container. Sufficient for 20 slides.
5188-5222	Oligo aCGH/ChIP-on-Chip Wash Buffer 2, 4L Contains wash buffer (Buffer 2) packaged in 4L container. Sufficient for 40 slides.
5188-5226	Oligo aCGH Wash Buffer Kit This kit contains Oligo aCGH Wash Buffer 1 (4L, part number 5188-5221) and Oligo Wash Buffer 2 (4L, part number 5188-5222). This kit is available in two configurations: Option 1 for manual processing contains 2 containers of Wash Buffer 1 and 1 container of Wash Buffer 2. The kit is sufficient for processing up to 40 oligo aCGH slides. Option 2 for Tecan processing contains 1 container of Wash Buffer 1 and 2 containers of Wash Buffer 2. The kit is sufficient for processing up to 120 oligo aCGH slides.
5190-0402	Oligo aCGH Prehybridization Buffer, 4L For use in Tecan processing protocols only. Sufficient prehybridization buffer for approximately 120 slides when processed on the Tecan HS 400 Pro or HS 4800 Pro with compatible hybridization chambers.
5190-0401	Wash Buffer Additive For use in Tecan processing protocols only. Solution is used to prepare Conditioning Solution and Wash Buffer 2 for processing oligo aCGH arrays on the Tecan HS 400 Pro or HS 4800 Pro with compatible hybridization chambers. Sufficient for approximately 120 slides.
5185-5979	Stabilization and Drying Solution, 500 mL Contains reagent that prevents ozone-induced degradation of cyanine dyes during processing and scanning of Agilent oligo-based microarrays. Sufficient reagent for up to 25 oligo aCGH slides. Customer must purchase the following to use this product with oligo aCGH arrays: Acetonitrile (Sigma-Aldrich 271004-1L).

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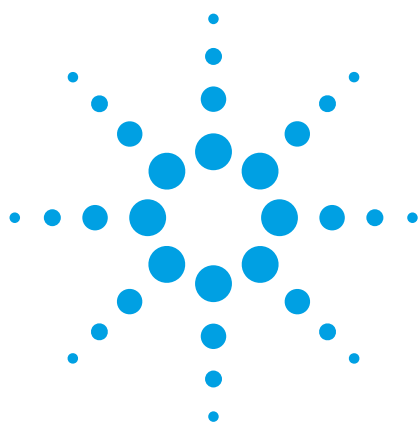
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Published in the U.S.A. March 9, 2010
5989-5122EN





Microarray Ordering Guide

Gene Expression Microarrays

Part Number	Design ID	Arrays Per Slide	Slides Per Kit	Product Name & Description
G4112F	014850	4	5	Whole Human Genome Microarray Kit, 4x44K 41,000+ unique genes and transcripts represented, all with public domain annotations. Content sourced from RefSeq, Goldenpath, Ensembl, Unigene Human Genome (Build 33) and GenBank databases.
G2519F*	014850	4	1	Unrestricted Human Genome Microarray, 4x44K 41,000+ unique genes and transcripts represented, all with public domain annotations. Content sourced from RefSeq, Goldenpath, Ensembl, Unigene Human Genome (Build 33) and GenBank databases.
G4122F	014868	4	5	Whole Mouse Genome Microarray Kit, 4x44K 41,000+ unique genes and transcripts represented, all with public domain annotations. Content sourced from UCSC, RefSeq, RIKEN, NIA, UCSC Goldenpath, Ensembl, Unigene databases.
G2519F*	015062	4	1	Mouse Development Microarray Kit, 4x44K 41,000+ unique genes and transcripts represented. Content sourced from the NIA Mouse Gene (Index 4) database.
G2519F*	014868	4	1	Unrestricted Mouse Genome Microarray, 4x44K 41,000+ unique genes and transcripts represented, all with public domain annotations. Content sourced from UCSC, RefSeq, RIKEN, NIA, UCSC Goldenpath, Ensembl, Unigene databases.
G4131F	014879	4	5	Whole Rat Genome Microarray Kit, 4x44K 41,000+ unique genes and transcripts represented, all with public domain annotations. Content sourced from RefSeq, Goldenpath, Ensembl, Unigene and GenBank databases.
G2519F*	014879	4	1	Unrestricted Rat Genome Microarray, 4x44K 41,000+ unique genes and transcripts represented, all with public domain annotations. Content sourced from RefSeq, Goldenpath, Ensembl, Unigene and GenBank databases.

Model Organism Gene Expression Microarrays

Part Number	Design ID	Arrays Per Slide	Slides Per Kit	Product Name & Description
G2519F*	021169	4	1	Arabidopsis (V4) Gene Expression Microarray, 4x44K Gene Expression Microarray contains 43,803 probes. Content sourced from TAIR 8 cDNA, RefSeq Release 30, Unigene Build 67, TIGR Release 13, TIGR Plant TA Release 2, ATH1.
G2519F*	021623	4	1	Barley Gene Expression Microarray, 4x44K Gene Expression Microarray contains 43,803 probes. Content sourced from RefSeq Release 31, Unigene Build 52, TIGR Plant TA Release 2, TIGR Gene Indices Release 10.
G2519F*	023647	4	1	Bovine (V2) Gene Expression Microarray, 4x44K Gene Expression Microarray contains 43,803 probes. Content sourced from RefSeq Release 34, Unigene Build 93, TIGR Release 12, UCSC mma, Ensembl Release 4.
G2519F*	022520	4	1	Brassica Gene Expression Microarray, 4x44K Gene Expression Microarray contains 43,803 probes. Content sourced from RefSeq Release 31, Unigene Build 17, TIGR Plant TA Release 5, TIGR Gene Indices Release Release 3.1.

*Unrestricted microarrays should be ordered with the Part Number and Design ID.



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Model Organism Gene Expression Microarrays (continued)

Part Number	Design ID	Arrays Per Slide	Slides Per Kit	Product Name & Description
G2519F*	020186	4	1	C. elegans (V2) Gene Expression Microarray, 4x44K Gene Expression Microarray contains 43,803 probes. Content sourced from WormBase Release 188, ENSEMBL Release 49, UniGene Release 37, RefSeq Release 27, TIGR Release 9, UCSC ce4.
G2519F*	021193	4	1	Canine (V2) Gene Expression Microarray, 4x44K Gene Expression Microarray contains 43,803 probes. Content sourced from TIGR Release 7, Unigene Build 23, RefSeq Release 34, Ensemble Release 53, canFam2.
G2519F*	026441	4	1	Chicken (V2) Gene Expression Microarray, 4x44K Gene Expression Microarray contains 43,803 probes. Content sourced from RefSeq Release 38, Unigene Release 41, TIGR Release 11, Ensembl Release 56, UCSC mrna, UCSC galGal3.
G2519F*	022523	4	1	Cotton Gene Expression Microarray, 4x44K Gene Expression Microarray contains 43,803 probes. Content sourced from RefSeq Release 31, Unigene Build 9, TIGR Plant TA Release 3, TIGR Gene Indices Release 9.
G2519F*	010972	4	1	Drosophila Gene Expression Microarray, 4x44K Gene Expression Microarray contains 43,803 probes. Content sourced from FlyBase Release 5.4, ENSEMBL Release 48, UniGene Release 54, TIGR Release 11, UCSC dm3 (BDGP Release 5).
G4813A*	020097	8	1	E. coli Gene Expression Microarray, 8x15K Gene Expression Microarray contains 15,208 probes for the following strains: K12-MG1655, 0157:H7 EDL933, 0157:H7 VT2-Sakai, CFT073. Content sourced from TIGR Comprehensive Microbial Resources.
G4813A*	021322	8	1	Horse Gene Expression Microarray, 8x15K Gene Expression Microarray contains 15,208 probes. Content sourced from RefSeq Release 30, UCSC mRNA, Unigene Build 9, Ensembl Release 50, UCSC equCab1.
G2519F*	015060	4	1	Magnaporthe (V2) Gene Expression Microarray, 4x44K Gene Expression Microarray contains 43,803 probes. Content sourced from MGOS, RefSeq.
G2519F*	022524	4	1	Medicago Gene Expression Microarray, 4x44K Gene Expression Microarray contains 43,803 probes. Content sourced from RefSeq Release 32, Unigene Build 33, TIGR Plant TA Release 2, TIGR Gene Indices Release 9.
G2519F*	020449	4	1	Mosquito Gene Expression Microarray, 4x44K Gene Expression Microarray contains 43,803 probes. Content sourced from Refseq Release 27, Ensembl Release 49, Unigene Build 10, anoGam1 (MOZ2).
G2519F*	026440	4	1	Porcine (V2) Gene Expression Microarray, 4x44K Gene Expression Microarray contains 43,803 probes. Content sourced from RefSeq Release 38, Unigene Release 38, TIGR Release 13, Ensembl release 56, UCSC mrna.
G2519F*	020908	4	1	Rabbit Gene Expression Microarray, 4x44K Gene Expression Microarray contains 43,803 probes. Content sourced from RefSeq Release 34, Ensembl Release 49, Unigene Build 17, TIGR Release 1.
G2519F*	015421	4	1	Rhesus (V2) Macaque Gene Expression Microarray, 4x44K Gene Expression Microarray contains 43,803 probes. Content sourced from RefSeq Release 37, UCSC mrna, UniGene Build 13, ENSEMBL Release 56, rheMac2.
G2519F*	015241	4	1	Rice Gene Expression Microarray, 4x44K Gene Expression Microarray contains 43,803 probes for <i>Oryza sativa</i> . Content sourced from National Institute of Agrobiological Sciences, RefSeq, GenBank 2007, RAP-DB.
G2519F*	020938	4	1	Salmon Gene Expression Microarray, 4x44K Gene Expression Microarray contains 43,803 probes. Content sourced from RefSeq Release 29, Unigene Build 20, TIGR Release 14.0.
G4813A*	019921	8	1	Sheep Gene Expression Microarray, 8x15K Gene Expression Microarray contains 15,208 probes. Content sourced from UniGene Release 27, RefSeq Build 16.
G2519F*	021113	4	1	Tobacco Gene Expression Microarray, 4x44K Gene Expression Microarray contains 43,803 probes. Content sourced from TIGR Release 3, Unigene Build 11, TIGR PlantTA Release 5.
G2519F*	022270	4	1	Tomato Gene Expression Microarray, 4x44K Gene Expression Microarray contains 43,803 probes. Content sourced from RefSeq Release 31, Unigene Release 33, TIGR Plant TA release 5, TIGR Gene Indices Release 12.
G2519F*	022297	4	1	Wheat Gene Expression Microarray, 4x44K Gene Expression Microarray contains 43,803 probes. Content sourced from RefSeq Release 31, Unigene Release 53, TIGR Release 11, TIGR TA Release 5.

*Unrestricted microarrays should be ordered with the Part Number and Design ID.

Model Organism Gene Expression Microarrays (continued)

Part Number	Design ID	Arrays Per Slide	Slides Per Kit	Product Name & Description
G2519F*	023448	4	1	Xenopus (V2) Gene Expression Microarray, 4x44K Gene Expression Microarray contains 43,803 probes. Content sourced from RefSeq Release 34, Unigene Build 86, TIGR Release 10.1.
G4413A*	016322	8	1	Yeast (V2) Gene Expression Microarray, 8x15K Gene Expression Microarray contains 15,208 probes for <i>Saccharomyces cerevisiae</i> (S288C strain). Content sourced from SGD May 2009, TIGR Release 4, Unigene Release 33, sacCer1.
G2519F*	026437	4	1	Zebrafish (V3) Gene Expression Microarray, 4x44K Gene Expression Microarray contains 43,803 probes. Content sourced from RefSeq Release 38, Unigene Release 117, TIGR Release 17, Ensembl release 56, UCSC mrna, UCSC (danRer5) Zv7.

Custom Gene Expression Microarrays

Try eArray, our free online application tool to help you easily design your own custom microarrays. For more information, go to www.opengenomics.com/earray.

Part Number	Arrays Per Slide	Slides Per Kit	Product Name & Description
G4502A	1	1	Custom Gene Expression, 1x244K
G4503A	2	1	Custom Gene Expression, 2x105K
G2514F	4	1	Custom Gene Expression, 4x44K
G2509F	8	1	Custom Gene Expression, 8x15K

miRNA Microarrays

Complete content for catalog miRNA microarrays were sourced from Sanger Databases as noted. All catalog miRNA microarrays feature a coupled probe design and labeling for optimal sensitivity and specificity.

Part Number	Design ID	Arrays Per Slide	Slides Per Kit	Product Name & Description
G4470A	016436	8	3	Human miRNA Microarray V1 470 human and 64 human viral miRNA represented. Complete content sourced from Sanger database 9.1.
G4471A*	016436	8	1	Unrestricted Human miRNA Microarray V1 470 human and 64 human viral miRNA represented. Complete content sourced from Sanger database 9.1.
G4470B	019118	8	3	Human miRNA Microarray V2 723 human and 76 human viral miRNA represented. Complete content sourced from Sanger database 10.1. Coupled probe design and labeling for optimal sensitivity and specificity.
G4471A*	019118	8	1	Unrestricted Human miRNA Microarray V2 723 human and 76 human viral miRNA represented. Complete content sourced from Sanger database 10.1.
G4471A*	021827	8	1	Unrestricted Human miRNA Microarray Release 12.0 866 human and 89 human viral miRNA represented. Complete content sourced from Sanger database 12.0.
G4471A*	025987	8	1	Unrestricted Human miRNA Microarray Release 14.0 887 human miRNA represented. Complete content sourced from miRBase 14.0.
G4472A	021828	8	3	Mouse miRNA Microarray V1 567 mouse and 10 mouse viral miRNA represented. Complete content sourced from Sanger database 10.1.
G4471A*	019119	8	1	Unrestricted Mouse miRNA Microarray V1 567 mouse and 10 mouse viral miRNA represented. Complete content sourced from Sanger database 10.1.
G4471A*	019119	8	1	Unrestricted Mouse miRNA Microarray Release 12.0 627 mouse and 39 mouse viral miRNA represented. Complete content sourced from Sanger database 12.0.
G4473A	019159	8	3	Rat miRNA Microarray V1 351 rat miRNA represented. Complete content sourced from Sanger database 10.1.
G4471A*	019159	8	1	Unrestricted Rat miRNA Microarray V1 351 rat miRNA represented. Complete content sourced from Sanger database 10.1.

*Unrestricted microarrays should be ordered with the Part Number and Design ID.

Custom miRNA Microarrays

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Part Number	Arrays Per Slide	Slides Per Kit	Product Name & Description
G4474A	8	1	Custom miRNA, 8x15K

Comparative Genomic Hybridization (CGH) Microarrays

Part Number	Design ID	Arrays Per Slide	Slides Per Kit	Product Name & Description
G4447A	021529	1	5	SurePrint G3 Human Catalog CGH 1x1M 963,000+ coding and non-coding human sequences represented. Probes annotated against NCBI Build 36 (UCSC hg18, March 2006). 2.1 kb overall median probe spatial resolution.
G4824A*	021529	1	1	Unrestricted SurePrint G3 CGH Microarray, 1x1M, Human (same design as G4447A) 963,000+ coding and non-coding human sequences represented. Probes annotated against NCBI Build 36 (UCSC hg18, March 2006). 2.1 kb overall median probe spatial resolution.
G4448A	021850	2	5	SurePrint G3 Human Catalog CGH 2x400K 411,000+ coding and non-coding human sequences represented. Probes annotated against NCBI Build 36 (UCSC hg18, March 2006). 5.3 kb overall median probe spatial resolution.
G4825A*	021850	2	1	Unrestricted SurePrint G3 CGH Microarray, 2x400K, Human (same design as G4448A) 411,000+ coding and non-coding human sequences represented. Probes annotated against NCBI Build 36 (UCSC hg18, March 2006). 5.3 kb overall median probe spatial resolution.
G4449A	022060	4	3	SurePrint G3 Human Catalog CGH 4x180K 170,000+ coding and non-coding human sequences represented. Probes annotated against NCBI Build 36 (UCSC hg18, March 2006). 13 kb overall median probe spatial resolution.
G4826A*	022060	4	1	Unrestricted SurePrint G3 CGH Microarray, 4x180K, Human (same design as G4449A) 170,000+ coding and non-coding human sequences represented. Probes annotated against NCBI Build 36 (UCSC hg18, March 2006). 13 kb overall median probe spatial resolution.
G4450A	021924	8	3	SurePrint G3 Human Catalog CGH 8x60K 55,000+ coding and non-coding human sequences represented. Probes annotated against NCBI Build 36 (UCSC hg18, March 2006). 41.4 kb overall median probe spatial resolution.
G4827A*	021924	8	1	Unrestricted SurePrint G3 CGH Microarray, 8x60K, Human (same design as G4450A) 55,000+ coding and non-coding human sequences represented. Probes annotated against NCBI Build 36 (UCSC hg18, March 2006). 41.4 kb overall median probe spatial resolution.
G4411B	014693	1	5	Human Genome CGH Microarray Kit 244A 236,000+ coding and non-coding human sequences represented. Probes annotated against NCBI Build 36 (UCSC hg18, March 2006). 8.9 kb overall median probe spatial resolution (7.4 kb median probe spacing in Refseq genes).
G4423B*	014693	1	1	Unrestricted HD-CGH Microarray, 1x244K, Human (same design as G4411B) 236,000+ coding and non-coding human sequences represented. Probes annotated against NCBI Build 36 (UCSC hg18, March 2006). 8.9 kb overall median probe spatial resolution (7.4 kb median probe spacing in Refseq genes).
G4423B*	016266	1	1	Unrestricted HD-CGH Microarray, 1x244K, Human 244A supplemental 236,000+ coding and non-coding human sequences represented. Probes annotated against NCBI Build 36 (UCSC hg18, March 2006). 9 kb overall median probe spatial resolution (7.4 kb median probe spacing in Refseq genes). Complements the Human Genome CGH Microarray 244A array by providing interleaved coverage across entire genome.
G4412A	014698	2	5	Human Genome CGH Microarray Kit 105A 99,000+ coding and non-coding human sequences represented. Probes annotated against NCBI Build 36 (UCSC hg18, March 2006). 21.7 kb overall median probe spatial resolution (18.9 kb median probe spacing in Refseq genes)
G4425B*	014698	2	1	Unrestricted HD-CGH Microarray, 2x105K, Human (same design as G4412A) 99,000+ coding and non-coding human sequences represented. Probes annotated against NCBI Build 36 (UCSC hg18, March 2006). 21.7 kb overall median probe spatial resolution (18.9 kb median probe spacing in Refseq genes).
G4413A	014950	4	3	Human Genome CGH Microarray Kit 4x44K 43,000+ coding and non-coding human sequences represented. Probes annotated against NCBI Build 36 (UCSC hg18, March 2006). 43 kb overall median probe spatial resolution (24.2 kb median probe spacing in Refseq genes).
G4426B*	014950	4	1	Unrestricted HD-CGH Microarray, 4x44K, Human (same design as G4413A) 43,000+ coding and non-coding human sequences represented. Probes annotated against NCBI Build 36 (UCSC hg18, March 2006). 43 kb overall median probe spatial resolution (24.2 kb median probe spacing in Refseq genes)
G4415A	014695	1	5	Mouse Genome CGH Microarray Kit 244A 235,000+ coding and non-coding mouse sequences represented. Probes annotated against NCBI Build 36 (UCSC mm8, February 2006). 7.8 kb overall median probe spatial resolution (6.2 kb median probe spacing in Refseq genes).
G4423B*	014695	1	1	Unrestricted HD-CGH Microarray, 1x244K, Mouse (same design as G4415A) 235,000+ coding and non-coding mouse sequences represented. Probes annotated against NCBI Build 36 (UCSC mm8, February 2006). 7.8 kb overall median probe spatial resolution (6.2 kb median probe spacing in Refseq genes).

*Unrestricted microarrays should be ordered with the Part Number and Design ID.

Comparative Genomic Hybridization (CGH) Microarrays (continued)

Part Number	Design ID	Arrays Per Slide	Slides Per Kit	Product Name & Description
G4416A	014699	2	5	Mouse Genome CGH Microarray Kit 105A 98,000+ coding and non-coding mouse sequences represented. Probes annotated against NCBI Build 36 (UCSC mm8, February 2006). 19.3 kb overall median probe spatial resolution (15.7 kb median probe spacing in Refseq genes).
G4425B*	014699	2	1	Unrestricted HD-CGH Microarray, 2x105K, Mouse (same design as G4416A) 98,000+ coding and non-coding mouse sequences represented. Probes annotated against NCBI Build 36 (UCSC mm8, February 2006). 19.3 kb overall median probe spatial resolution (15.7 kb median probe spacing in Refseq genes).
G4426B*	015028	4	1	Unrestricted HD-CGH Microarray, Mouse 4x44K 43,000+ coding and non-coding human sequences represented. Probes annotated against NCBI Build 36 (UCSC mm8, February 2006). 22.3 kb overall median probe spatial resolution (13.1 kb median probe spacing in Refseq genes).
G4435A	015223	1	5	Rat Genome CGH Microarray Kit 244A 235,000+ coding and non-coding mouse sequences represented. Probes annotated against Baylor HGSC Build 3.4 (UCSC rn4, November 2004). 7.9 kb overall median probe spatial resolution (4.7 kb median probe spacing in Refseq genes).
G4423B*	015223	1	1	Unrestricted HD-CGH Microarray, 1x244K, Rat (same design as G4435A) 235,000+ coding and non-coding mouse sequences represented. Probes annotated against Baylor HGSC Build 3.4 (UCSC rn4, November 2004). 9 kb overall median probe spatial resolution (4.7 kb median probe spacing in Refseq genes).
G4436A	015235	2	5	Rat Genome CGH Microarray Kit 105A 97,000+ coding and non-coding mouse sequences represented. Probes annotated against Baylor HGSC Build 3.4 (UCSC rn4, November 2004). 19.1 kb overall median probe spatial resolution (11.3 kb median probe spacing in Refseq genes).
G4425B*	015235	2	1	Unrestricted HD-CGH Microarray, 2x105K, Rat (same design as G4436A) 97,000+ coding and non-coding mouse sequences represented. Probes annotated against Baylor HGSC Build 3.4 (UCSC rn4, November 2004). 19.1 kb overall median probe spatial resolution (11.3 kb median probe spacing in Refseq genes).
G4423B*	019553	1	1	Unrestricted HD-CGH Microarray, 1x244K, Chicken 235,000+ coding and noncoding chicken sequences represented. Probes annotated against build UCSC galGal3 (WASTL v2.1, May 2006). 4 kb overall median probe spatial resolution.
G4826A 	025242	4	1	Unrestricted SurePrint G3 CGH Microarray, 4x180K, Bovine 171,527 coding and noncoding bovine sequences represented. Probes annotated against build UCSC bosTau4 (October 2007). 11.0 kb overall median probe spatial resolution.
G4826A 	025522	4	1	Unrestricted SurePrint G3 CGH Microarray, 4x180K, Canine 171,534 coding and noncoding canine sequences represented. Probes annotated against build UCSC canFam2 (May 2006). 12.7 kb overall median probe spatial resolution.
G4826A 	024422	4	1	Unrestricted SurePrint G3 CGH Microarray, 4x180K, Chimpanzee 171,524 coding and noncoding chimpanzee sequences represented. Probes annotated against build UCSC panTro2 (March 2006). 12.7 kb overall median probe spatial resolution.
G4826A 	024419	4	1	Unrestricted SurePrint G3 CGH Microarray, 4x180K, Rhesus Macaque 171,495 coding and noncoding rhesus macaque sequences represented. Probes annotated against build UCSC rheMac2 (January 2006). 14.9 kb overall median probe spatial resolution.
G4826A 	025843	4	1	Unrestricted SurePrint G3 CGH Microarray, 4x180K, Rice 171,861 coding and noncoding (italics) <i>Oryza sativa</i> (italics) sequences represented. Probes annotated against build IRGSP Build5 (June 2008). 1.7 kb overall median probe spatial resolution.

*Unrestricted microarrays should be ordered with the Part Number and Design ID.

Copy Number Variation (CNV) Microarrays

Part Number	Design ID	Arrays Per Slide	Slides Per Kit	Product Name & Description
G4506A	023642	1	5	SurePrint G3 Human High-Resolution Discovery Microarray, 1x1M 963,000+ human sequences represented. Probes annotated against NCBI Build 36 (UCSC hg 18, March 2008). 2.6 kb overall median probe spatial resolution. 3 kb average probe spatial resolution.
G4824A*	023642	1	1	Unrestricted SurePrint G3 CGH Microarray, 1x1M, Human (same design as G4506A) 963,000+ human sequences represented. Probes annotated against NCBI Build 36 (UCSC hg 18, March 2008). 2.6 kb overall median probe spatial resolution. 3 kb average probe spatial resolution.
G4507A	021365	2	5	SurePrint G3 Human Catalog CNV 2x400K 412,000+ human sequences represented. Probes annotated against NCBI Build 36 (UCSC hg18, March 2006). 1 kb overall median probe spatial resolution in CNVs.
G4825A*	021365	2	1	Unrestricted SurePrint Human G3 CGH Microarray, 2x400K, Human (same design as G4507A) 412,000+ human sequences represented. Probes annotated against NCBI Build 36 (UCSC hg18, March 2006). 1 kb overall median probe spatial resolution in CNVs.
G4423B*	018897	1	1	Unrestricted Human Genome CNV Microarray, 1x244K (1 of 2) 236,000+ human sequences represented. Probes annotated against NCBI Build 36 (UCSC hg18, March 2006). 1 kb overall median probe spatial resolution in CNVs.
G4423B*	018898	1	1	Unrestricted Human Genome CNV Microarray, 1x244K (2 of 2) 236,000+ human sequences represented. Probes annotated against NCBI Build 36 (UCSC hg18, March 2006). 1 kb overall median probe spatial resolution in CNVs.
G4417A	022837	2	5	Human CNV Association Microarray, 2x105K 99,000+ human sequences represented. Probes annotated against NCBI Build 36 (UCSC hg18, March 2006). 232 bp overall median probe spatial resolution. 244 bp overall median probe spatial resolution in CNVs.
G4425B*	022837	2	1	Unrestricted HD-CGH Microarray, 2x105K, Human (same design as G4417A) 99,000+ human sequences represented. Probes annotated against NCBI Build 36 (UCSC hg18, March 2006). 232 bp overall median probe spatial resolution. 244 bp overall median probe spatial resolution in CNVs.

Custom CGH Microarrays

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Part Number	Arrays Per Slide	Slides Per Kit	Product Name & Description
G4123A	1	1	SurePrint G3 Custom CGH, 1x1M
G4124A	2	1	SurePrint G3 Custom CGH, 2x400K
G4125A	4	1	SurePrint G3 Custom CGH, 4x180K
G4126A	8	1	SurePrint G3 Custom CGH, 8x60K
G4423A	1	1	Custom HD-CGH Microarray, 1x244K
G4425A	2	1	Custom HD-CGH Microarray, 2x105K
G4426A	4	1	Custom HD-CGH Microarray, 4x44K
G4427A	8	1	Custom HD-CGH Microarray, 8x15K

DNA Methylation Microarrays

Part Number	Design ID	Arrays Per Slide	Slides Per Kit	Product Name & Description
G4492A	014791	1	5	DNA Methylation Human CpG Island, 1x244K 27,800 CpG islands covering 21 Mb, ~200,000 probes in/within 95 bp of CpG islands. Enriched content sourced from UCSC hg18, NCBI build 36.1 (March 2006).
G4811A	015279	2	1	DNA Methylation Mouse CpG Island, 2x105K 16,030 CpG Islands, 97,652 probes in/within 95 bp of CpG islands. Enriched content sourced from UCSC mm8, NCBI build 36 (February 2006).
G4495A	023795	1	1	DNA Methylation Human Array, 1x244K 27,627 expanded CpG islands and 5081 UMR regions. 237,227 biological probes, median probe spacing of 97bp. Probes annotated against UCSC HG18.

*Unrestricted microarrays should be ordered with the Part Number and Design ID.

ChIP-on-Chip Microarrays

Part Number	Design ID	Arrays Per Slide	Slides Per Kit	Product Name & Description
G4489A	014706 & 014707	1	10	Human Promoter Set, 2-design, 1x244K (2 slide set) Two slides cover ~17,000 of the best defined human transcripts represented as defined by RefSeq. Enriched content sourced from UCSC hg18, NCBI build 36.1 (March 2006), -5.5 kb upstream to +2.5 kb downstream of the transcriptional start sites.
G4495A*	014706	1	1	Unrestricted Human Promoter Set, slide 1 of 2, 1x244K Two slides cover ~17,000 of the best defined human transcripts represented as defined by RefSeq. Enriched content sourced from UCSC hg18, NCBI build 36.1 (March 2006), -5.5 kb upstream to +2.5 kb downstream of the transcriptional start sites.
G4495A*	014707	1	1	Unrestricted Human Promoter Set, slide 2 of 2, 1x244K Two slides cover ~17,000 of the best defined human transcripts represented as defined by RefSeq. Enriched content sourced from UCSC hg18, NCBI build 36.1 (March 2006), -5.5 kb upstream to +2.5 kb downstream of the transcriptional start sites.
G4492A	014791	+	5	Human CpG Island Microarray
G4495A*	014791	+	+	Unrestricted Human CpG Island Microarray
G4495A*	014792	1	1	Unrestricted Human ENCODE Microarray Specific ENCODE regions of chromosomes 1-22, ~153,000 probes.
G4490A	014716 & 014717	1	10	Mouse Promoter Set, 2-design, 1x244K (2 slide set) Two slides cover ~17,000 of the best defined mouse transcripts represented as defined by RefSeq. Enriched content sourced from UCSC mm8, UCSC February 2006, -5.5 kb upstream to +2.5 kb downstream of the transcriptional start sites.
G4495A*	014716	1	1	Unrestricted Mouse Promoter, slide 1 of 2, 1x244K ~17,000 of the best defined mouse transcripts represented as defined by RefSeq. Enriched content sourced from UCSC mm8, UCSC February 2006, -5.5 kb upstream to +2.5 kb downstream of the transcriptional start sites.
G4495A*	014717	1	1	Unrestricted Mouse Promoter, slide 2 of 2, 1x244K ~17,000 of the best defined mouse transcripts represented as defined by RefSeq. Enriched content sourced from UCSC mm8, UCSC February 2006, -5.5 kb upstream to +2.5 kb downstream of the transcriptional start sites.
G4495A*	014798 & 014799	1	2	Arabidopsis Microarray, 2-design, 1x244K Arabidopsis whole genome on 2-array set with 212 nt average tiling density, content sourced from UCSC ath1.
G4495A*	014793 & 014794	1	2	C. elegans Microarray, 2-design, 1x244K Two slides cover complete <i>C. elegans</i> genome with 182 nt average spacing, content sourced from UCSC ce2.
G4495A*	014816 & 014817	1	2	Drosophila Microarray, 2-design, 1x244K Two slides cover Drosophila genome with 233 nt average spacing. Enriched content sourced from UCSC dm2.
G4491A	14741	1	5	Yeast Whole Genome Set, 1x244K Probes for ~12 Mb of the <i>S. cerevisiae</i> genome-spaced at 50 nt on average, content sourced from sacCer1.
G4495A*	14741	1	1	Unrestricted Yeast Whole Genome Set, 1x244K Probes for ~12 Mb of the <i>S. cerevisiae</i> genome-spaced at 50 nt on average, content sourced from sacCer1.
G4493A	14810	4	5	Yeast Whole Genome Set, 4x44K Probes for ~12 Mb of the <i>S. cerevisiae</i> genome-spaced at 290 nt on average, content sourced from sacCer1.
G4810A*	14810	4	1	Unrestricted Yeast Whole Genome Set, 4x44K Probes for ~12 Mb of the <i>S. cerevisiae</i> genome-spaced at 290 nt on average, content sourced from sacCer1.
G4810A*	015424	1	1	Unrestricted S. pombe Microarray, 1x244K Array contains 42,707 probes against chrI-III and chrM. The median spacing between probes is 265 bp.
G4495A*	021203 & 021204	1	2	Zebrafish Promoter Microarray, 2-design, 1x244K Probes cover -9 kb to +3 kb from the tss and represent 11,000 transcripts, content sourced from UCSC dr4.

*Unrestricted microarrays should be ordered with the Part Number and Design ID.

Custom ChIP-on-Chip/DNA Methylation Microarrays

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Part Number	Arrays Per Slide	Slides Per Kit	Product Name & Description
G4815A	1	1	SurePrint G3 Unrestricted ChIP/CH3, 1x1M
G4816A	2	1	SurePrint G3 Unrestricted ChIP/CH3, 2x400K
G4817A	4	1	SurePrint G3 Unrestricted ChIP/CH3, 4x180K
G4818A	8	1	SurePrint G3 Unrestricted ChIP/CH3, 8x60K
G4819A	1	1	SurePrint G3 Custom ChIP/CH3, 1x1M
G4820A	2	1	SurePrint G3 Custom ChIP/CH3, 2x400K
G4821A	4	1	SurePrint G3 Custom ChIP/CH3, 4x180K
G4822A	8	1	SurePrint G3 Custom ChIP/CH3, 8x60K
G4496A	1	1	Custom ChIP-on-Chip, 1x244K
G4498A	2	1	Custom ChIP-on-Chip, 2x105K
G4497A	4	1	Custom ChIP-on-Chip, 4x44K
G4499A	8	1	Custom ChIP-on-Chip, 8x15K

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Published in USA, March 1, 2010
5990-3855EN



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