

## Human Arrays (continued)

COMPANY	PRODUCT	SURFACE	DNA TYPE	GENES PER ARRAY	SERVICES	SPECIAL CHARACTERISTICS
<b>NEN LIFE SCIENCE PRODUCTS INC.</b> (800) 551-2121, www.nen.com	MICROMAX Human cDNA I	G	C	2,400		
	MICROMAX Human Kinases and Phosphatases	G	C	250		Includes three nonmammalian controls
	MICROMAX Human Transcription Factors	G	C	290		Includes three nonmammalian controls
	MICROMAX Human Oncogenes and Tumor Suppressor Genes	G	C	281		Includes three nonmammalian controls
<b>OPERON TECHNOLOGIES INC.</b> (800) 688-2248, www.operon.com	OpArray (Human collage, version 1)	G	O	320		Includes eight controls
	OpArray (Human Apoptosis)	G	O	374		Includes 10 controls
	OpArray (Human Stress and Aging)	G	O	685		Includes 19 controls
<b>ORIGENE TECHNOLOGIES INC.</b> (888) 267-4436, www.origene.com	SmartArray Human SmartSet 1	G	C	136		Nuclear hormone receptors
	SmartArray Human SmartSet 2	G	C	183		Homeobox/bZIP/bHLH transcription factors
	SmartArray Human SmartSet 3	G	C	181		Tissue-specific transcription factors
	SmartArray Human SmartSet 4	G	C	259		Tyrosine kinases/phosphatases/SH2/SH3
<b>PHASE-1 MOLECULAR TOXICOLOGY INC.</b> (505) 471-8438, www.phase1tox.com	Human 350 Gene Array	G	C	350	✓	Four replicates of each gene and controls on each slide
<b>PROTOGENE LABORATORIES INC.</b> (650) 289-2900, www.protogene.com	DNA FlexChip technology					Surface tension-based arraying technology
<b>R&amp;D SYSTEMS</b> (800) 343-7475, www.rndsystems.com	Human Cytokine Expression Array	M	C	375		
	Human Apoptosis Expression Array	M	C	198		
<b>RESEARCH GENETICS</b> (800) 533-4363, www.resgen.com	Human GeneFilters Microarrays Releases I-VII	M	C	Varies		
	Human 'Named Genes' GeneFilters Microarray Release 1	M	C	4,000		
	Human Prostate-specific GeneFilters Microarray Release I	M	C	1,758		
	Human Ovary-specific GeneFilters Microarray	M	C	2,823		
	Human Breast-specific GeneFilters Microarray	M	C	2,967		
	Human Colon-specific GeneFilters Microarray	M	C	3,833		
	DermArray Human Skin GeneFilters Microarray	M	C			Developed with Integriderm; keratinocyte, melanocyte, fibroblast, and drug metabolism genes
<b>RADIUS BIOSCIENCES</b> (508) 359-8828, www.ultranet.com/~radius	Custom arraying services	G/M	C/O		✓	DNA, RNA, oligos, PNA (peptide nucleic acids), proteins or peptides onto glass slides, filters, or other substrates
<b>ROSETTA INPHARMATICS INC.</b> (425) 820-8900, www.rii.com	FlexJet DNA microarrays	G	O	50,000	✓	Flexible array platform offered as collaborative in-house work; arrays are based on inkjet printing process
<b>SEQWRIGHT</b> (800) 720-4363, www.seqwright.com	Arraying services				✓	Gridding of bacterial cultures or DNA onto nylon membranes; up to 28,800 clones per filter in double spots
<b>SIGMA-GENOSYS INC.</b> (877) 260-0764, www.genosys.com	Panorama Human Cytokine Gene Arrays	M	C	375		Cytokines, chemokines and receptors, and related factors
	Panorama Human Apoptosis Gene Arrays	M	C	198		Apoptosis-related factors and suppressors; Bcl-2 related; caspase related; cell cycle regulators
<b>STRATAGENE</b> (800) 424-5444, www.stratagene.com	GeneConnection Discovery Microarray	G	C	4,044		Genes from 29 different tissues with exogenous control clones
<b>SUPERARRAY INC.</b> (888) 503-3187, www.superarray.com	Human Apoptosis-1, -2, -3 GEArray Kit	M	C	23		Includes two housekeeping genes, actin, and GAPDH
	Human Apoptosis-4/Bcl-2 Family & Regulators GEArray Kit	M	C	23		
	Human Apoptosis-5/TNF & Fas Network GEArray Kit	M	C	23		
	Human p53 GEArray Kit	M	C	23		p53-induced growth arrest and apoptosis
	Human Toxicity/Stress-1 GEArray Kit	M	C	23		Response to heat shock and oxidation, stress-induced genes, and signaling of Jun, NFκB, and p53
	Human Cell Cycle 1-2 GEArray Kit	M	C	23		Cyclins, CDKs and inhibitors, genes in G1-S transition
	Human Cancer/Metastasis GEArray Kit	M	C	23		Tumor cell adhesion, extracellular matrix, key growth factor genes
	Human Cancer/Oncogene GEArray Kit	M	C	23		Growth factors, oncogenes, PTKs, and transcription factors
	Human Cancer/Tumor Suppressor GEArray Kit	M	C	23		
	Human Cancer/Angiogenesis 1-2 GEArray Kits	M	C	23		Growth factors and their cytokines, receptors for endothelial cells, regulators of angiogenesis
	Human Cancer/Radiation Sensitivity Marker GEArray Kit	M	C	23		G1, S-phase, G2-phase checkpoints; interphase-type cell death
	Human PathwayFinder GEArray Kit	M	C	23		From eight different pathways
	Human Jak-Stat Pathway GEArray Kit	M	C	23		
	Human PI3 Kinase and AKT Pathway GEArray Kit	M	C	23		
	Human NFκB Pathway-1, -2 GEArray Kits	M	C	23		
	Human Common Cytokine-1 GEArray Kit	M	C	23		IL-1 to IL-18 interleukin genes
	Human Interleukin Receptors GEArray Kit	M	C	23		Receptor subunits
	Human Inflammatory Response GEArray Kit	M	C	23		
	Human Choice GEArrays	M	C		✓	Customized to obtain expression profiles for genes of interest
	<b>TELECHEM INTERNATIONAL INC.</b> (408) 744-1331, www.arrayit.com	Flex-Chips Custom Arrays	G	C/O	Varies	✓
eChips Custom Arrays		G	O	Varies	✓	Customer sends database-mined sequences (<384)
Discovery Chips Arrays		G	C	Varies	✓	Uses premade arrays
<b>VYSIS INC.</b> (800) 553-7042, www.vysis.com	AmpliOnc Microarray Kit	G	C	>50		Contains genes amplified in various human cancers or cancer cell lines

G= glass; M=membrane; C=cDNA; O=oligonucleotide