

miProfileTM Human Breast Cancer miRNA qPCR Array

For focused group profiling of human breast cancer related miRNA expression

Cat. No. PAM-HCB96-A (2 x 96-well plate, Format A)
Cat. No. PAM-HCB96-B (2 x 96-well plate, Format B)
Cat. No. PAM-HCB96-C (2 x 96-well plate, Format C)
Cat. No. PAM-HCB96-D (2 x 96-well plate, Format D)
Cat. No. PAM-HCB96-E (2 x 96-well plate, Format E)

Available as 2 sets, 4 sets or 12 sets

Introduction

The miProfile human breast cancer miRNA qPCR arrays profile the expression of 168 miRNAs, which have been identified for their associations with breast tumorigenesis either as oncogenes or as tumor suppressors. For example, the expression of miR-126 and miR-335 is lost in the majority of primary breast tumors from patients who relapse. Most significantly, early manifestation of altered miRNA expression in breast cancer suggests that these miRNAs may have a potential clinical application as a novel biomarker for early detection. Through investigating the miRNA expression profile in breast cancers, one can evaluate the molecular mechanisms involved in malignant progression of breast tumors, and discover a potential approach for diagnosis, prognosis, and therapy response in human breast cancers.

- PAM-HCB96 plate 01: 84 unique miRNA PCR primer pairs
- PAM-HCB96 plate 02: 84 unique miRNA PCR primer pairs

Shipping and storage condition

Shipped at room temperature
Stable for at least 6 months when stored at -20°C

Array format

GeneCopia provides five qPCR array formats (A, B, C, D, and E) suitable for use with the following real-time cyclers.

Important note: Upon receiving, please check to make sure that the correct array format was ordered to ensure the compatibility with your qPCR instrument.

Plate format	Instrument provider	qPCR instrument model
A (96-well)	Applied Biosystems	5700, 7000, 7300, 7500, 7700, 7900HT (Standard 96-well block), ViiA TM 7 (Standard 96-well block)
B (96-well)	Applied Biosystems	7500 (Fast block), 7900HT (Fast block), StepOnePlus TM , ViiA TM 7 (Fast block)
C (96-well)	Bio-Rad Laboratories	iCycler iQ [®] , MyiQ TM , iQ TM 5
D (96-well)	Bio-Rad Laboratories	CFX96 TM , DNA Engine Opticon TM , DNA Engine Opticon 2 TM , Chromo4 TM
E (96-well)	Roche Applied Science	LightCycler [®] 480 (96-well block)

Array layout

	1	2	3	4	5	6	7	8	9	10	11	12
A	1	2	3	4	5	6	7	8	9	10	11	12
B	13	14	15	16	17	18	19	20	21	22	23	24
C	25	26	27	28	29	30	31	32	33	34	35	36
D	37	38	39	40	41	42	43	44	45	46	47	48
E	49	50	51	52	53	54	55	56	57	58	59	60
F	61	62	63	64	65	66	67	68	69	70	71	72
G	73	74	75	76	77	78	79	80	81	82	83	84
H	NC	NC	HK1	HK2	HK3	HK4	HK5	HK6	RT	RT	PCR	PCR

Figure 1. Illustration of miProfile miRNA qPCR array layout (96-well plate)

miRNA primer pairs: Wells 1-84 are designated wells for pre-deposited miRNA primer pairs.

NC: Negative controls, which only have the pre-deposited reverse universal primers

HK1-6: Six pre-deposited housekeeping snRNAs primer pairs, which can be used as endogenous positive controls as well as for array normalization.

RT: Two replicates of spike-in reverse transcription controls, which can be used to monitor the efficiency of the RT reaction. These pre-deposited primer pairs specifically amplify the cDNA template reversed transcribed from the spike-in exogenous RNA in the sample.

PCR: Two replicates of positive PCR controls, which are used to verify the PCR efficiency by amplifying the pre-deposited DNA template with its specific pre-deposited primer pairs.

Materials required but not provided

All-in-One™ miRNA First-Strand cDNA Synthesis Kit

All-in-One™ qPCR Mix

Small/total RNA extraction kit

DNase/RNase free tips, PCR reaction tubes, 1.5 ml microcentrifuge tubes

5 ml and 10 ml graduated pipettes, beakers, flasks, and cylinders

10 µl to 1,000 µl adjustable single channel micropipettes with disposable tips

5 µl to 20 µl adjustable multichannel micropipette, disposable tips, and reservoir

qPCR instrument, compatible with miRNA qPCR arrays ordered

miRNA primer list

The primer list can be downloaded at <http://www.genecopoeia.com/product/qpcr-arrays/mirna/cancer.php>

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Product Data Sheet

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