

miScript™ miRNA PCR Array

Human Serum & Plasma

For mature miRNA expression profiling using SYBR® Green-based real-time PCR

Cyclers for use with miScript miRNA PCR Array formats

Format	Suitable real-time cyclers	Plate	Cat. no.
A	Applied Biosystems® models 5700, 7000, 7300, 7500, 7700, 7900HT, ViiA™ 7 (96-well block); Bio-Rad® models iCycler®, iQ™ 5, MyiQ™, MyiQ2; Bio-Rad/MJ Research Chromo4™; Eppendorf® MasterCycler® ep realplex models 2, 2s, 4, 4s; Stratagene® models Mx3005P®, Mx3000P®; Takara: TP-800	96 well	331221 MIHS-106ZA
C	Applied Biosystems models 7500 (Fast block), 7900HT (Fast block), StepOnePlus™, ViiA 7 (Fast block)	96 well	331221 MIHS-106ZC
D	Bio-Rad CFX96™; Bio-Rad/MJ Research models DNA Engine Opticon®, DNA Engine Opticon 2; Stratagene Mx4000®	96 well	331221 MIHS-106ZD
E	Applied Biosystems models 7900HT (384-well block), ViiA 7 (384-well block); Bio-Rad CFX384™	384 well	331221 MIHS-106ZE
F	Roche® LightCycler® 480 (96-well block)	96 well	331221 MIHS-106ZF
G	Roche: LightCycler 480 (384-well block)	384 well	331221 MIHS-106ZG
R	Rotor-Gene® Q, Rotor-Gene 6000, other Rotor-Gene cyclers	Rotor-Disc® 100	331221 MIHS-106ZR



Sample & Assay Technologies

Contents

miScript miRNA PCR Arrays Formats A, C, D, and F consist of 2, 12, or 24 PCR array plates. miScript miRNA PCR Arrays Formats E and G consist of 4 PCR array plates. miScript miRNA PCR Arrays Format R consists of 2, 12, or 24 Rotor-Discs. Formats A and D are provided with 24, 144, or 288 Optical Thin-Wall 8-Cap Strips. Formats C and F are provided with 2, 12, or 24 Optical Adhesive Films. Formats E and G are provided with 4 Optical Adhesive Films and 4 sets of 384EZLoad Covers. Format R is provided with 2, 12, or 24 Rotor-Disc Heat Sealing Films.

Description

The Human Serum & Plasma miScript miRNA PCR Array profiles the expression of 84 miRNAs detectable and differentially expressed in serum, plasma, and other extracellular bodily fluids. This array provides disease and toxicology researchers with a convenient way to quickly analyze the miRNAs most relevant to pathophysiological conditions. These miRNAs have been carefully selected based on results published in peer-reviewed journals that suggest a correlation with serum expression levels and specific diseases. The discovery of these master regulatory molecules in serum and biological fluids, and their apparently regulated levels there, suggest a mechanistic role for miRNA in both normal and pathophysiological processes. Their presence in noninvasive, easily accessible samples provides readily available source material for research purposes. The profiling results from this array can potentially serve as a useful molecular marker for heart and liver injury or disease, atherosclerosis, diabetes, and a number of organ-specific cancers. Other miRNAs routinely present in serum are included to serve as positive controls for the successful detection of serum miRNA expression. This array can also be used with a separately purchased Syn-cel-miR-39 miScript miRNA Mimic (catalog number MSY0000010). When spiked into the sample before nucleic acid isolation and detected with the control assay, it provides a more useful normalization method for this application than the typical reference short noncoding RNAs not normally detected in serum. For support protocols on miRNA isolation from serum and on spiking the miRNA mimic into your sample, as well as information on how to analyze the control assay results, download documents at www.sabiosciences.com/manuals/miRNeasySerum.pdf and www.sabiosciences.com/manuals/miRNAREcoveryControl.pdf, respectively. A set of controls present on this array enables data analysis using the $\Delta\Delta C_t$ method of relative quantification, assessment of reverse transcription performance, and assessment of PCR performance. Correlate your results with published results using the miScript miRNA Serum & Plasma PCR Array Cancer/Disease Association Matrix (www.sabiosciences.com/manuals/SerummiRNACancerDiseaseMatrix.xls). Using SYBR Green real-time PCR, the expression of a focused panel of miRNAs found in serum, plasma, and other bodily fluid can be easily and reliably analyzed with this miScript miRNA PCR Array.

For further details, consult the *miScript miRNA PCR Array Handbook*.

QIAGEN reserves the right to occasionally redesign individual assays on the miScript Arrays for improved performance. This revision history can be accessed by contacting technical support and supplying the batch numbers from your arrays.

Shipping and storage

miScript miRNA PCR Arrays are shipped at ambient temperature, on ice, or on dry ice depending on the destination and accompanying products. Upon receipt, store at -20°C . If stored under these conditions, miScript miRNA PCR Arrays are stable for 6 months after receipt.

Note: Ensure that you have the correct miScript miRNA PCR Array format for your real-time cycler (see table above).

Note: Open the package and store the products at the indicated temperature immediately on receipt.

Array layout(96- and 384-well [4x96])

Note: Wells A1 to H12 of a 96-well plate correspond to wells 1 to 96 of a Rotor-Disc 100.

Note: miScript Primer Assays can be ordered for each mature miRNA at

www.qiagen.com/GeneGlobe.

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
384																									
	96	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
A		hsa-miR-7a-5p		hsa-miR-1		hsa-miR-100-5p		hsa-miR-106b-5 p		hsa-miR-10b-5p		hsa-miR-122-5p		hsa-miR-124-3p		hsa-miR-125b-5 p		hsa-miR-126-3p		hsa-miR-133a		hsa-miR-133b		hsa-miR-134	
B																									
C	B	hsa-miR-141-3p		hsa-miR-143-3p		hsa-miR-146a-5		hsa-miR-150-5p		hsa-miR-155-5p		hsa-miR-17-3p		hsa-miR-17-3p		hsa-miR-18a-5p		hsa-miR-192-5p		hsa-miR-195-5p		hsa-miR-196a-5 p		hsa-miR-19a-3p	
D						p																			
E				hsa-miR-200a-3		hsa-miR-200b-3		hsa-miR-200c-3																	
F	C	hsa-miR-19b-3p		p		p		p		hsa-miR-203a		hsa-miR-205-5p		hsa-miR-208a		hsa-miR-20a-5p		hsa-miR-21-5p		hsa-miR-210		hsa-miR-214-3p		hsa-miR-215	
G																									
H	D	hsa-miR-221-3p		hsa-miR-222-3p		hsa-miR-223-3p		hsa-miR-224-5p		hsa-miR-23a-3p		hsa-miR-25-3p				hsa-miR-27a-3p		hsa-miR-29a-3p		hsa-miR-30a-5p		hsa-miR-34a-5p		hsa-miR-375	
I				hsa-miR-499a-5																					
J	E	hsa-miR-423-5p		p		hsa-miR-574-3p		hsa-miR-885-5p		hsa-miR-9-5p		hsa-miR-92a-3p		hsa-miR-93-5p		hsa-lef-7c		hsa-miR-107		hsa-miR-10a-5p		hsa-miR-128		hsa-miR-130b-3 p	
K																									
L	F	hsa-miR-145-5p		hsa-miR-148a-3 p		hsa-miR-15a-5p		hsa-miR-184		hsa-miR-193a-5 p		hsa-miR-204-5p		hsa-miR-206		hsa-miR-211-5p		hsa-miR-26b-5p		hsa-miR-30a-5p		hsa-miR-372		hsa-miR-373-3p	
M																									
N	G	hsa-miR-374a-5 p		hsa-miR-376c-3 p		hsa-miR-7-5p		hsa-miR-9a-5p p		hsa-miR-103a-3 p		hsa-miR-15b-5p		hsa-miR-16-5p		hsa-miR-191-5p		hsa-miR-22-3p		hsa-miR-24-3p		hsa-miR-26a-5p		hsa-miR-31-5p	
O																									
P	H	cel-miR-39-3p		cel-miR-39-3p		SNORD61		SNORD68		SNORD72		SNORD95		SNORD96A		RNU6-2		miRTC		miRTC		PPC		PPC	

Related products

Product	Contents	Cat. no.
miScript II RT Kit (12)	For 12 cDNA synthesis reactions: miScript Reverse Transcriptase Mix, 10x miScript Nucleics Mix, 5x miScript HiSpec Buffer, 5x miScript HiFlex Buffer, RNase-Free Water	218160
miScript II RT Kit (50)	For 50 cDNA synthesis reactions: miScript Reverse Transcriptase Mix, 10x miScript Nucleics Mix, 5x miScript HiSpec Buffer, 5x miScript HiFlex Buffer, RNase-Free Water	218161
miScript SYBR Green PCR Kit (200)	For 200 reactions: QuantiTect SYBR Green PCR Master Mix, miScript Universal Primer	218073
miScript SYBR Green PCR Kit (1000)	For 1000 reactions: QuantiTect SYBR Green PCR Master Mix, miScript Universal Primer	218075
miRNome miScript miRNA PCR Array	Array of assays for the human, mouse, rat, or dog miRNome; available in 96-well, 384-well, or Rotor-Disc 100 format	Varies
miScript miRNA QC PCR Array	Array for assessing cDNA sample quality	Varies
miScript Primer Assay (100)	10x miScript Primer Assay (contains one miRNA-specific primer)	Varies
RT ² PCR Array Loading Reservoirs	12 x 5 ml capacity, irradiation-sterilized loading reservoirs	338162
384EZLoad Covers	Pack of 4 color-coded covers for loading 384-well plates	338125

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