

qBiomarker Copy Number PCR Array (96-Well Format, 384-Well Format [23-gene panel])

Human WNT Signaling Pathway

Cat. no. 337802 VAHS-0002ZA

For real-time PCR-based, copy number analysis

Format	For use with the following real-time cyclers
qBiomarker Copy Number PCR Array, Format 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
qBiomarker Copy Number PCR Array, Format C	Applied Biosystems models 7500 (Fast block), 7900HT (Fast block), StepOnePlus™, ViiA 7 (Fast block)
qBiomarker Copy Number PCR Array, Format D	Bio-Rad CFX96™; Bio-Rad/MJ Research models DNA Engine Opticon®, DNA Engine Opticon 2; Stratagene Mx4000®
qBiomarker Copy Number PCR Array, Format E (23-gene panel)	Applied Biosystems models 7900HT (384-well block), ViiA 7 (384-well block); Bio-Rad CFX384™
qBiomarker Copy Number PCR Array, Format F	Roche® LightCycler® 480 (96-well block)
qBiomarker Copy Number PCR Array, Format G (23-gene panel)	Roche LightCycler 480 (384-well block)



Sample & Assay Technologies

Description

The Human WNT Signaling Pathway qBiomarker Copy Number PCR Array profiles the copy number of 23 WNT signaling-related genes reported to undergo frequent genomic alterations. Genes selected include WNT pathway components, molecules/pathways that cross-talk with the WNT pathway, and WNT pathway effectors. These genes encode cell adhesion molecules, receptors, transcription factors and other signaling proteins that regulate processes such as the cell cycle, migration, cancer, and cellular differentiation, as well as developmental disorders. DNA copy number changes in WNT-related genes have been reported in multiple cancers. Genes were chosen from the most frequently amplified or deleted genes relevant to WNT signaling based on the primary literature and public databases. This array may serve as a useful tool to help classify samples by genotype and help verify phenotypic biomarkers. The array analyzes each gene in each sample in quadruplicate and includes a stable multi-copy reference assay for accurate copy number determination via appropriate DNA input normalization. The simplicity of the product format and operating procedure allow routine and reliable copy number profiling in any research laboratory with access to a real-time PCR instrument.

For further details, consult the *qBiomarker Copy Number PCR Handbook*.

Shipping and storage

qBiomarker Copy Number PCR Arrays are shipped at ambient temperature, on dry ice, or blue ice packs depending on destination and accompanying products. For long term storage, keep plates at -20°C .

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

Note: Open the package and store the products appropriately immediately on receipt.

Array layout (96-well)

For 384-well, 23-gene panel PCR arrays, genes are present in a staggered format. Refer to the *qBiomarker Copy Number PCR Array Handbook* for layout.

	1	2	3	4	5	6	7	8	9	10	11	12
A	APC	AR	C8orf4	CDH1	CDH13	CTNND1	CCND1	DVL1	ERBB2	FGFR2	FOSL1	GRB7
B	IRX2	JUN	MARK4	MIR17HG	MIR517C	MYC	MYCN	NKD2	PLAGL2	PTK6	TP53	Mref
C	APC	AR	C8orf4	CDH1	CDH13	CTNND1	CCND1	DVL1	ERBB2	FGFR2	FOSL1	GRB7
D	IRX2	JUN	MARK4	MIR17HG	MIR517C	MYC	MYCN	NKD2	PLAGL2	PTK6	TP53	Mref
E	APC	AR	C8orf4	CDH1	CDH13	CTNND1	CCND1	DVL1	ERBB2	FGFR2	FOSL1	GRB7
F	IRX2	JUN	MARK4	MIR17HG	MIR517C	MYC	MYCN	NKD2	PLAGL2	PTK6	TP53	Mref
G	APC	AR	C8orf4	CDH1	CDH13	CTNND1	CCND1	DVL1	ERBB2	FGFR2	FOSL1	GRB7
H	IRX2	JUN	MARK4	MIR17HG	MIR517C	MYC	MYCN	NKD2	PLAGL2	PTK6	TP53	Mref

Gene table: qBiomarker Copy Number PCR Array

Position	Gene ID	Tile	Symbol	Chromosome	Start	End	Assay Catalog #
A01	324	26543648	APC	5	112090588	112090722	VPH105-0909553
A02	367	30024730	AR	X	66765001	66765200	VPH10X-0333826
A03	56892	28968226	C8orf4	8	40011052	40011372	VPH108-0734293
A04	999	20624549	CDH1	16	68771601	68771800	VPH116-0343859
A05	1012	20693995	CDH13	16	82660801	82661000	VPH116-0413305
A06	1500	17552065	CTNND1	11	57559201	57559400	VPH111-0287797
A07	595	17946878	CCND1	11	69456082	69456279	VPH111-0682610
A08	1855	16552701	DVL1	1	1273649	1273816	VPH101-1246563
A09	2064	21154843	ERBB2	17	37871993	37872192	VPH117-0412044
A10	2263	17262424	FGFR2	10	123353223	123353331	VPH110-0685902
A11	8061	17592604	FOSL1	11	65667001	65667200	VPH111-0328336
A12	2886	21154865	GRB7	17	37898555	37898709	VPH117-0412066
B01	153572	25647850	IRX2	5	2750801	2751000	VPH105-0013755
B02	3725	15602381	JUN	1	59248401	59248600	VPH101-0296243
B03	57787	21862046	MARK4	19	45783632	45783741	VPH119-0304778
B04	407975	19094821	MIR17HG	13	92006401	92006600	VPH113-0460033
B05	574492	21864428	MIR517C	19	54244567	54244661	VPH119-0307160
B06	4609	28877698	MYC	8	128752801	128753000	VPH108-0643765
B07	4613	21946530	MYCN	2	16082201	16082400	VPH102-0080412
B08	85409	25639145	NKD2	5	1009801	1010000	VPH105-0005050
B09	5326	23417062	PLAGL2	20	30789722	30789981	VPH120-0317094
B10	5753	23420437	PTK6	20	62168438	62168667	VPH120-0320469
B11	7157	20780698	TP53	17	7579601	7579800	VPH117-0037899
B12	N/A	N/A	Mref	Multiple	Multiple	Multiple	VPH000-0000000
C01	324	26543648	APC	5	112090588	112090722	VPH105-0909553
C02	367	30024730	AR	X	66765001	66765200	VPH10X-0333826
C03	56892	28968226	C8orf4	8	40011052	40011372	VPH108-0734293
C04	999	20624549	CDH1	16	68771601	68771800	VPH116-0343859
C05	1012	20693995	CDH13	16	82660801	82661000	VPH116-0413305
C06	1500	17552065	CTNND1	11	57559201	57559400	VPH111-0287797
C07	595	17946878	CCND1	11	69456082	69456279	VPH111-0682610
C08	1855	16552701	DVL1	1	1273649	1273816	VPH101-1246563
C09	2064	21154843	ERBB2	17	37871993	37872192	VPH117-0412044
C10	2263	17262424	FGFR2	10	123353223	123353331	VPH110-0685902
C11	8061	17592604	FOSL1	11	65667001	65667200	VPH111-0328336
C12	2886	21154865	GRB7	17	37898555	37898709	VPH117-0412066
D01	153572	25647850	IRX2	5	2750801	2751000	VPH105-0013755
D02	3725	15602381	JUN	1	59248401	59248600	VPH101-0296243
D03	57787	21862046	MARK4	19	45783632	45783741	VPH119-0304778
D04	407975	19094821	MIR17HG	13	92006401	92006600	VPH113-0460033
D05	574492	21864428	MIR517C	19	54244567	54244661	VPH119-0307160
D06	4609	28877698	MYC	8	128752801	128753000	VPH108-0643765
D07	4613	21946530	MYCN	2	16082201	16082400	VPH102-0080412
D08	85409	25639145	NKD2	5	1009801	1010000	VPH105-0005050
D09	5326	23417062	PLAGL2	20	30789722	30789981	VPH120-0317094

Position	Gene ID	Title	Symbol	Chromosome	Start	End	Assay Catalog #
D10	5753	23420437	PTK6	20	62168438	62168667	VPH120-0320469
D11	7157	20780698	TP53	17	7579601	7579800	VPH117-0037899
D12	N/A	N/A	Mref	Multiple	Multiple	Multiple	VPH000-0000000
E01	324	26543648	APC	5	112090588	112090722	VPH105-0909553
E02	367	30024730	AR	X	66765001	66765200	VPH10X-0333826
E03	56892	28968226	C8orf4	8	40011052	40011372	VPH108-0734293
E04	999	20624549	CDH1	16	68771601	68771800	VPH116-0343859
E05	1012	20693995	CDH13	16	82660801	82661000	VPH116-0413305
E06	1500	17552065	CTNND1	11	57559201	57559400	VPH111-0287797
E07	595	17946878	CCND1	11	69456082	69456279	VPH111-0682610
E08	1855	16552701	DVL1	1	1273649	1273816	VPH101-1246563
E09	2064	21154843	ERBB2	17	37871993	37872192	VPH117-0412044
E10	2263	17262424	FGFR2	10	123353223	123353331	VPH110-0685902
E11	8061	17592604	FOSL1	11	65667001	65667200	VPH111-0328336
E12	2886	21154865	GRB7	17	37898555	37898709	VPH117-0412066
F01	153572	25647850	IRX2	5	2750801	2751000	VPH105-0013755
F02	3725	15602381	JUN	1	59248401	59248600	VPH101-0296243
F03	57787	21862046	MARK4	19	45783632	45783741	VPH119-0304778
F04	407975	19094821	MIR17HG	13	92006401	92006600	VPH113-0460033
F05	574492	21864428	MIR517C	19	54244567	54244661	VPH119-0307160
F06	4609	28877698	MYC	8	128752801	128753000	VPH108-0643765
F07	4613	21946530	MYCN	2	16082201	16082400	VPH102-0080412
F08	85409	25639145	NKD2	5	1009801	1010000	VPH105-0005050
F09	5326	23417062	PLAGL2	20	30789722	30789981	VPH120-0317094
F10	5753	23420437	PTK6	20	62168438	62168667	VPH120-0320469
F11	7157	20780698	TP53	17	7579601	7579800	VPH117-0037899
F12	N/A	N/A	Mref	Multiple	Multiple	Multiple	VPH000-0000000
G01	324	26543648	APC	5	112090588	112090722	VPH105-0909553
G02	367	30024730	AR	X	66765001	66765200	VPH10X-0333826
G03	56892	28968226	C8orf4	8	40011052	40011372	VPH108-0734293
G04	999	20624549	CDH1	16	68771601	68771800	VPH116-0343859
G05	1012	20693995	CDH13	16	82660801	82661000	VPH116-0413305
G06	1500	17552065	CTNND1	11	57559201	57559400	VPH111-0287797
G07	595	17946878	CCND1	11	69456082	69456279	VPH111-0682610
G08	1855	16552701	DVL1	1	1273649	1273816	VPH101-1246563
G09	2064	21154843	ERBB2	17	37871993	37872192	VPH117-0412044
G10	2263	17262424	FGFR2	10	123353223	123353331	VPH110-0685902
G11	8061	17592604	FOSL1	11	65667001	65667200	VPH111-0328336
G12	2886	21154865	GRB7	17	37898555	37898709	VPH117-0412066
H01	153572	25647850	IRX2	5	2750801	2751000	VPH105-0013755
H02	3725	15602381	JUN	1	59248401	59248600	VPH101-0296243
H03	57787	21862046	MARK4	19	45783632	45783741	VPH119-0304778
H04	407975	19094821	MIR17HG	13	92006401	92006600	VPH113-0460033
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H10	5753	23420437	PTK6	20	62168438	62168667	VPH120-0320469
H11	7157	20780698	TP53	17	7579601	7579800	VPH117-0037899
H12	N/A	N/A	Mref	Multiple	Multiple	Multiple	VPH000-0000000

Related products

For optimal performance, qBiomarker Copy Number PCR Arrays should be used together with the qBiomarker SYBR® Mastermixes for PCR.

Product	Contents	Cat. no.
qBiomarker SYBR ROX Mastermix (2)*	For 2 x 96 assays in 96-well plates; suitable for use with the following real-time cyclers: Applied Biosystems models 5700, 7000, 7300, 7500 (Standard and FAST), 7700, 7900HT 96-well block (Standard and FAST) and 384-well block, StepOnePlus, ViiA 7 (Standard and Fast 96-well block, 384-well block); Eppendorf Mastercycler ep realplex models 2, 2S, 4, 4S; Stratagene models Mx3000P, Mx3005P, Mx4000; Takara TP-800	337820
qBiomarker SYBR ROX FAST Mastermix (2)*	For 2 x 96 assays in 96-well plates; suitable for use with the following real-time cyclers: Applied Biosystems models 7000, 7300, 7500 (Standard and Fast), 7700, 7900HT (Standard and Fast 96-well block, 384-well block), StepOnePlus; ViiA 7 (Standard and Fast 96-well block, 384-well block); Eppendorf Mastercycler ep realplex with or without ROX filter set; Stratagene models Mx3000, Mx3500, Mx4000; Takara TP-800; Rotor-Gene® Q	337840
qBiomarker SYBR Fluor Mastermix (2)*	For 2 x 96 assays in 96-well plates; suitable for use with the following real-time cyclers: Bio-Rad models iCycler, iQ5, MyiQ, MyiQ2	337830

* Larger kit sizes available; please inquire.

qBiomarker Copy Number PCR Array products are intended for molecular biology applications. These products are not intended for the diagnosis, prevention, or treatment of a disease.

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