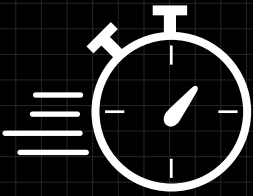


THE SCIENCE OF RAPID MUTATION SCREENING



Fast turnaround time

Not just assays, verified results

Screen for important genetic markers in cancer pathways using rapid analysis of more than 100 somatic mutations across 22 cancer genes.

Agena Bioscience's OncoCarta™ Panel v3.0 is a set of pre-validated assays for cost-effective, efficient mutation screening.

- Use tumor samples from fresh, frozen, or formalin-fixed, paraffin embedded tissues (FFPE) and/or cell lines.
- Analyze more than 100 mutations with as little as 480 ng DNA per sample.
- Detect and quantify mutation frequencies from as low as 5%.

Assays by Agena also offers panels covering additional oncogenes and somatic mutations. See www.agenabio.com/oncology for more information.

GENES INCLUDED IN THE ONCOCARTA PANEL V3.0

ABL1	FLT3	PTEN
APC	HRAS	RB1
BRAF	JAK3	RET
CDKN2A	KRAS	STK11
CSF1R	MET	TP53
CTNNB1	MLH1	VHL
EGFR	MYC	
ERBB2	PDGFRA	

See back for complete list of mutations.

vA



For Research Use Only. Not for use in diagnostic procedures.

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51-20029R2.0 0415



THE MASSARRAY WORKFLOW

Each sample is subjected to PCR amplification and primer extension with the OncoCarta Panel v3.0 reagents. The extension products are dispensed onto a SpectroCHIP® Array and detected via MassARRAY® MALDI-TOF mass spectrometry. After the sample run, an automated software report provides the calls and mutation frequency for each sample as well as a confidence score.

THROUGHPUT

The OncoCarta Panel v3.0 contains multiplexed assays in 24 wells. The panel can be run in 24-well format (1 sample per well), 96-well format (4 samples per plate) or 384-well format (16 samples per plate). One to 128 samples can be processed per day, providing flexibility in sample throughput and batching requirements.





ORDERING INFORMATION

Choose the best approach for you:

- Order the OncoCarta v3.0 Panel components and run on your own MassARRAY System.
- Send your samples to our Assays by Agena Custom Services Laboratory and have our experienced scientists run the panel for you.

Please contact Agena Bioscience for more information.

COMPONENTS FOR RUNNING THE ONCOCARTA PANEL V3.0

AMPLIFY		PCR Enzyme PCR Accessory Set OncoCarta v3.0 PCR Primers
EXTEND		iPLEX® Pro Reagent Set OncoCarta v3.0 Extend Primers
DETECT		SpectroCHIP Array and Clean Resin
ANALYZE		Typer Software

ONCOCARTA PANEL V3.0 GENES AND MUTATIONS

GENE	MUTATION
ABL1	M244V
APC	R876*, R1114*, E1309fs*4, Q1338*, Q1429*, S1465fs*3, T1661fs*9
BRAF	V471F, N581S, V600M
CDKN2A	R58*, E61*, E69*, H83Y, D84Y
CSF1R	L301S, L301*, Y969C, Y969F, Y969H, Y969*
CTNNB1	A13T, V22A, W25_D32DEL, S45A, S45P
EGFR	G719D, L730F, G735S, V742A, L747_P753>S, L747_T751>P, H773R, G810D, G810S, L858M
ERBB2	D769H, V777L
FLT3	D835DEL, I836M
HRAS	G12C, G12R
JAK3	P132T, A572V, V722I
KRAS	Q22K
MET	T1010I, H1112R, H1112Y, Y1248C, Y1248H, M1268T
MLH1	V384D
MYC	P57S, A59V, T73I, N101T, A260A
PDGFRA	S566_E571>R, R841_D842del, D842_M844del, D842_D846>E, D842_D846>G, D842_D846>N, D842_S847>EA, D842I, D842Y
PTEN	K6fs*4, R130fs*4, R130G, R130Q, R130*, R173C, R173H, R233*, P248fs*5, K267fs*9, V317fs*3, N323fs*2, N323fs*21
RB1	E137*, L199*, R320*, R455*, R556*, R579*, L660FS*2, C706F, R748*
RET	F612_C620del, D631_L633>E, D631G, E632_A640>VRP, C634R, E768D, A883F, D898_E901del
STK11	Q37*, Q170*, D194V, G196V, F264fs*22, P281fs*6, P281L, W332*
TP53	R306*
VHL	L85P, F148fs*11, L158Q, R161*, R167W

vB

The MassARRAY System, OncoCarta Panel, iPLEX Pro Reagents, SpectroCHIP Array, and Typer Software are For Research Use Only. Not for use in diagnostic procedures.

Agena Bioscience's patented nucleic acid analysis by mass spectrometry methods and products are protected under United States patent rights including but not limited to 5,869,242; 6,024,925; 6,440,705; 6,558,623; 6,569,385; 6,730,517; 6,979,425; 6,994,969; 7,019,288; 7,025,933; 7,232,688; 7,285,422; 7,332,275; 7,390,672; 7,501,251; 7,888,127; 7,917,301; 8,003,317; 8,315,805; and 8,349,566 and patents pending including but not limited to US20050272070 and US20130017960, and foreign counterparts including but not limited to, EP0815261B1, EP173622B1, EP1727911B1, EP1546385B1, EP1332000B1, EP1613723B1, EP1660680B1, and EP2107129B1.

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