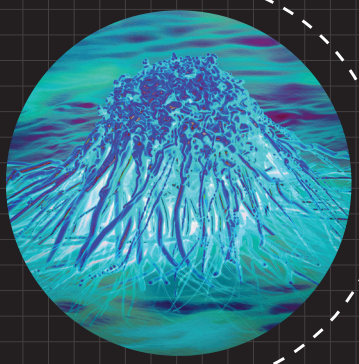
THE SCIENCE OF RAPID MUTATION SCREENING

GyneCarta™ Panel v1.0



Fast turnaround time

VERIFY

CUSTOMIZE

RUN

Not just assays
Verified results

Assays by Agena

Screen gynecological tumor samples using a targeted discovery panel of 168 hotspot mutations in 13 genes.

The GyneCarta™ Panel, developed by Assays by Agena for use on the MassARRAY® System, is a set of pre-validated assays for cost-effective, efficient mutation screening for a wide range of the most common hotspot mutations that have been reported in gynecological cancers.

- Use tumor samples from fresh, frozen, or formalin-fixed paraffin-embedded tissues (FFPE) and/or cell lines.
- Analyze 168 mutations with as little as 120 ng DNA per sample.
- Detect and quantify mutation frequencies from ≤ 10%.

GENES INCLUDED IN THE GYNECARTA PANEL

BRAF	FGFR3	PIK3CA
CDKN2A	FOXL2	PTEN
CTNNB1	HRAS	PPP2R1
FBXW7	KRAS	
FGFR2	NRAS	

See back for complete list of mutations.

ONCOLOGY

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Agena BIOSCIENCE

THE MASSARRAY WORKFLOW

Each sample is subjected to PCR amplification and primer extension with the GyneCarta Panel 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 GyneCarta Panel contains multiplexed assays in 12 wells. The panel can be run in 96-well format (8 samples per plate) or 384-well format (32 samples per plate). Eight to 256 samples can be processed per day, providing flexibility in sample throughput and batching requirements.

ORDERING INFORMATION

Choose the best approach for you:

- Order the GyneCarta 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 GYNECARTA PANEL

AMPLIFY		PCR Enzyme PCR Accessory Set GyneCarta PCR Primers
EXTEND		iPLEX Pro Reagent Set GyneCarta Extend Primers
DETECT		SpectroCHIP Array and Resin Kit
ANALYZE		Typer Software

MUTATIONS DETECTED WITH THE GYNECARTA PANEL

ONCOGENE	MUTATION
BRAF	V600E/V600K/V600R/V600L
CDKN2A	D108Y/D108XA/D108XC/P114L/G12X/R58*/G12X/R80*/W110*/G12X
CTNNB1	D32G/D32V/D32A/D32H/D32N/D32Y/S33P/S33A/S33F/S33Y/S33C/G34E/G34V/G34R/S37A/S37P/S37T/S37C/S37F/S37Y/T41A/T41S/T41I/T41N/S45P/S45C/S45F/S45Y
FBXW7	R465C/R465H/R479Q/R479L/R505C
FGFR2	S252W/P253R/P253L/Y375C/C382R/N549K (2x)/K659E
FGFR3	R248C/S249C/G370C/S371C/Y373C/K650Q/K650E/G697C
FOXL2	C134W
HRAS	G12S/G12C/G12R/G12V/G12D/G12A/G13C/G13R/G13S/G13V/G13D/G13X/Q61H (2x)/Q61K/Q61L/Q61R/Q61P
KRAS	G12V/G12A/G12D/G12C/G12S/G12R/G12F/G13A/G13D/G13V/Q61H (2x)/Q61E/Q61K/Q61L/Q61R/Q61P
NRAS	G12V/G12A/G12D/G12C/G12R/G12S/G13C/G13R/G13S/Q61E/Q61K/Q61L/Q61R/Q61P
PIK3CA	R88Q/E542K (2x)/E545G/E545A/Q546E/E545D (2x)/Q546K/Q546R/Q546P/Q546L/Y1021C/T1025A / T1025X/M1043V/M1043I (2x)/H1047R/H1047L/H1047Y
PTEN	K6fs*4/E7*/F37S/R84G/R130fs*4/R130Q/R130L/R130P/R130*/R130G/R173C/R173H/Q214*/R233*/R234W/R335*/P248fs*5/C250fs*2/K267fs*9/K267fs*31/V290fs*1/L318fs*2/T321fs*3/T321fs*23/N323fs*2/N323fs*21
PPP2R1	P179R/P179L/R183Q/R183W/R183G/S256F/S256Y/W257C/R258H

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