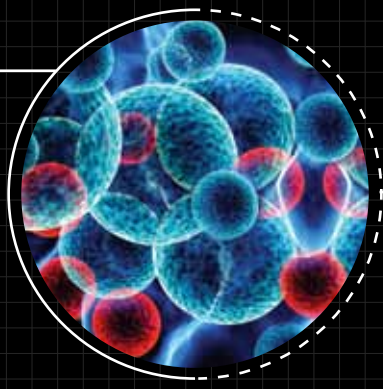
OncoFOCUS™ Panel v1.0

THE SCIENCE OF

BALANCING POWER WITH FLEXIBILITY



A rapid and highly discriminatory tool

MassARRAY® System

SCREEN, IDENTIFY OR CONFIRM KEY ONCOGENES

Screen and confirm high relevance somatic mutations in *EGFR*, *KRAS*, *NRAS*, and *BRAF* with solid tumor samples as low as 5% frequency.

Agena Bioscience's OncoFOCUS™ Panel v1.0 is a set of pre-validated assays covering 300+ somatic mutations in 4 key oncogenes observed in lung, colorectal, and metastatic melanoma tumors, for use on the MassARRAY® System. The panel provides a rapid and highly discriminatory tool to aid translational and clinical research studies, with extensive coverage to detect and differentiate key insertions and deletions in *EGFR*.

- Efficiently screen for key oncogenes with as little as 20 ng input DNA.
- Identify specific nucleic acid changes that may not have been detected with other methods, such as next generation sequencing or melting curve analysis.
- Confirm mutation status for variants such as *BRAF* V600E obtained from other molecular methods.

The OncoFOCUS Panel is designed within two multiplexed PCR reactions requiring 20 ng input DNA, followed by 12 extension reactions. Only non-synonymous coding mutations previously reported to occur in human tumor samples were selected.

ONCOLOGY

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

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THE MASSARRAY WORKFLOW

The OncoFOCUS Panel v1.0 uses two multiplexed PCR reactions requiring 20 ng input DNA, followed by iPLEX® Pro single base extension reactions. The extension products are dispensed onto a SpectroCHIP® Array and detected via MassARRAY MALDI-TOF mass spectrometry. After the sample run, a new HTML-based OncoFOCUS report tool offers a Summary View, Mutation View, Sample View, and Sample-Mutation View to facilitate quick analysis.

THROUGHPUT

The OncoFOCUS Panel contains multiplexed assays in 12 wells. The panel can be run in 24-well format (2 samples per plate), 96-well format (8 samples per plate), or 384-well format (32 samples per plate). Two to 256 samples can be processed per day, providing flexibility in sample throughput and batching requirements.

ORDERING INFORMATION

CAT NO	FORMAT	SAMPLES/KIT
26600	2 x 384	64
26601	10 x 96	80
26602	2 x 96	16
26008	8 x 24	16

ONCOFOCUS PANEL COMPONENTS

AMPLIFY		PCR Enzyme PCR Accessory Set OncoFOCUS PCR Primers
EXTEND		iPLEX Pro Reagent Set OncoFOCUS Extend Primers
DETECT		SpectroCHIP Array and Clean Resin (2 x 384, 10 x 96, 2 x 96)
ANALYZE		OncoFOCUS HTML Report Tool (Typer)

ONCOFOCUS PANEL V1.0 GENES AND MUTATIONS

GENE	MUTATION
BRAF	G469S, G469A, G469E, G469R, G469V, D594G, D594V, L597S, L597Q, L597V, L597R, T599_V600insT, T599_V600insTT, V600G, V600K, V600R, V600L, V600M, V600E, V600>YM
EGFR	R108K, T263P, A289V, A289D, G598V, E709V, E709H, E709K, E709G, E709Q, E709A, G719S, G719D, G719C, G719A, K745_E749delKELRE, E746_S752>V, E746_A750>VP, E746_E749del, E746_A750>IP, E746_T751>V, E746_A750>DP, E746V, E746_P753>VQ, E746_T751>S, E746_T751>A, E746_T751delELREAT, E746_A750>QP, E746_P753>VS, E746_S752>I, E746_T751>VA, E746_S752>D, E746_S752delELREATS, E746K, E746_T751>L, E746_T751>I, E746_E749delELRE, E746_T751>IP, E746_T751>VP, E746_T751>Q, E746_S752>A, E746_P753>IS, E746_A750delELREA, E746_A750>RP, E746_P753>LS, L747_P753>Q, L747_T751>A, L747_K754>ST, L747_T751>P, L747_T751delLREAT, L747_S752>QH, L747_E749del, L747S, L747_P753>S, L747_A750>P, L747_T751>Q, L747_T751>S, L747_K754delLREATSPK, L747P, L747_S752>Q, L747_E749delLRE, L747_T751>PT, L747_S752delLREATS, L747_A755>AN, T751_I759>S, T751I, T751_I759>N, T751_E758delTSPKANKE, T751_I759>REA, S752P, S752_I759delSPKANKEI, S752Y, P753_I759del, P753S, P753Q, P753_I759delPKANKEI, I759N, D761N, D761Y, M766_A767insAI, A767_S768insTLA, S768N, S768I, S768T, S768_V769>IL, V769_D770insGSV, V769_D770insCV, V769_D770insGVV, V769_D770insASV, D770>GY, D770_N771insSVD, D770_N771insG, D770_P772>ASVDNR, D770_N771insGL, D770_N771insAPW, D770_N771insGF, D770N, D770_N771>AGG, D770_N771insMATP(5'Detection Only), D770_N771insGD, N771>GF, N771_P772insRH, N771_P772>SVDNR, N771>SH, N771>TH, N771>GY, H773_V774insH, H773_V774insNPH, H773_V774insQ, H773_V774insPH, V774M, V774_C775insHV, V774L, R776C, R776H, T790M, T854A, L858M, L858R, L858K, L861Q, L861R, E709fs*1, T751fs*4, H773>NPY(3'Detection Only)
KRAS	G12W, G12C, G12E, G12Y, G12D, G12F, G12R, G12N, G12G, G12S, G12A, G12T, G12V, G12I, G12P, G12_G13insA, G12L, G13A, G13D, G13R, G13N, G13S, G13V, G13I, G13_V14insG, G13C, A59T, Q61K, Q61E, Q61R, Q61H, Q61P, Q61L, A146G, A146T, A146V, A146P
NRAS	G12C, G12Y, G12N, G12A, G12E, G12V, G12P, G13A, G13D, G13R, G13V, G13N, G13Y, Q61K, Q61R, Q61H, Q61P, Q61Q, Q61E, Q61L

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