

TUMOR TYPE Lung adenocarcinoma REPORT DATE

ORDERED TEST #

PATIENT
DISEASE Lung adenocarcinoma
NAME
DATE OF BIRTH
SEX
MEDICAL RECORD #

PHYSICIAN ORDERING PHYSICIAN MEDICAL FACILITY ADDITIONAL RECIPIENT MEDICAL FACILITY ID PATHOLOGIST

SPECIMEN

SPECIMEN ID SPECIMEN TYPE DATE OF COLLECTION SPECIMEN RECEIVED

NO REPORTABLE ALTERATIONS WITH COMPANION DIAGNOSTIC (CDx) CLAIMS

See professional services section for additional information

No alterations associated with companion diagnostic indications were detected. Please consider confirmation with tumor tissue testing, such as FoundationOne^{*}CDx, if possible.

Other Short Variants Identified

Results reported in this section are not prescriptive or conclusive for labeled use of any specific therapeutic product. See *professional services* section for information on the alterations listed in this section as well as any additional detected copy number alterations, gene rearrangements, or biomarkers.

BIOMARKERS WITH EVIDENCE OF CLINICAL SIGNIFICANCE IN TISSUE SUPPORTED BY ANALYTICAL VALIDATION USING cfDNA

MET splice site 3025_3028+3delGAAGGTA

OTHER BIOMARKERS WITH POTENTIAL CLINICAL SIGNIFICANCE

BRCA2 S353* DNMT3A Q842* # *RB1* splice site 1333-40_1333-2del39 *TP53* R337C [#]

Refer to appendix for limitation statement relating to detection of alterations in ASXL1, ATM, CBL, CHEK2, DNMT3A, JAK2, KMT2D (MLL2), MPL, MYD88, SF3B1, TET2, TP53, and U2AF1.

Please refer to appendix for Explanation of Clinical Significance Classification and for variants of unknown significance (VUS).

ABOUT THE TEST FoundationOne®Liquid CDx is a next generation sequencing (NGS) assay that identifies clinically relevant genomic alterations in circulating cell-free DNA.

Electronically signed by Eric Severson, M.D., Ph.D., M.M.Sc. | Julia Elvin, M.D., Ph.D., Laboratory Director CLIA: 22D2027531 Shakti Ramkissoon, M.D., Ph.D., M.M. Sc, Laboratory Director CLIA: 34D2044309 Foundation Medicine. Inc. 11.888.988.3639 Sample Preparation: 150 Second St., 1st Floor, Cambridge, MA 02141 · CLIA: 22D2027531 Sample Analysis: 150 Second St., 1st Floor, Cambridge, MA 02141 · CLIA: 22D2027531 Post-Sequencing Analysis: 150 Second St., 1st Floor. Cambridge, MA 02141 · CLIA: 22D2027531

Note: The intended use (IU) statement and claims made on this sample report may not be up to date. For the latest version of the FoundationOne Liquid CDx claims and IU, please see the current label: www.foundationmedicine.com/f1lcdx



TUMOR TYPE Lung adenocarcinoma COUNTRY CODE

REPORT DATE

ORDERED TEST #

ABOUT THE TEST FoundationOne®Liquid CDx is a next generation sequencing (NGS) assay that identifies clinically relevant genomic alterations in circulating cell-free DNA

Interpretive content on this page and subsequent pages is provided as a professional service, and is not reviewed or approved by the FDA.

PATIENT

DISEASE Lung adenocarcinoma NAME DATE OF BIRTH SEX MEDICAL RECORD #

PHYSICIAN

ORDERING PHYSICIAN MEDICAL FACILITY ADDITIONAL RECIPIENT MEDICAL FACILITY ID PATHOLOGIST

SPECIMEN

SPECIMEN ID SPECIMEN TYPE DATE OF COLLECTION SPECIMEN RECEIVED

BIOMARKER FIND

Blood Tumor Muts/Mb

Biomarker Findings

Blood Tumor Mutational Burden - 16 Muts/Mb Microsatellite status - Cannot Be Determined Tumor Fraction - Cannot Be Determined

Genomic Findings

For a complete list of the genes assayed, please refer to the Appendix.

MET exon 14 splice site (3025_3028+3delGAAGGTA) BRCA2 S353* **DNMT3A** Q842* RB1 splice site 1333-40_1333-2del39 TP53 R337C

13 Therapies with Clinical Benefit

0 Therapies with Lack of Response

27 Clinical Trials

DINGS	THERAPIES WITH CLINICA (IN PATIENT'S TUMOR		THERAPIES WITH CLINICAL BENEFIT (IN OTHER TUMOR TYPE)
r Mutational Burden - 16	Atezolizumab	1	Avelumab
	Durvalumab	1	Cemiplimab
	Nivolumab	1	
	Pembrolizumab	1	

instability.

10 Trials see p. 17

10 Trials see p. 21

Microsatellite status - Cannot Be Determined

Tumor Fraction - Cannot Be Determined



Tumor fraction is an estimate of the percentage of circulating-tumor DNA (ctDNA) present in a cell-free DNA (cfDNA) sample based on observed aneuploid instability. THERAPIES WITH CLINICAL BENEFIT THERAPIES WITH CLINICAL BENEFIT

Unable to determine Microsatellite status due to insufficient evidence of genomic

(IN PATIENT'S TUMOR TYPE)		(IN OTHER TUMOR TYPE)
Capmatinib	2A	Cabozantinib
Crizotinib	2A	

NCCN category

The content provided as a professional service by Foundation Medicine, Inc. has not been reviewed or approved by the FDA.

Electronically signed by Eric Severson, M.D., Ph.D., M.M.Sc. | Julia Elvin, M.D.,

Ph.D., Laboratory Director CLIA: 22D2027531 Shakti Ramkissoon, M.D., Ph.D., M.M. Sc, Laboratory Director CLIA: 34D2044309 Foundation Medicine, Inc. | 1.888.988.3639



ORDERED TEST #

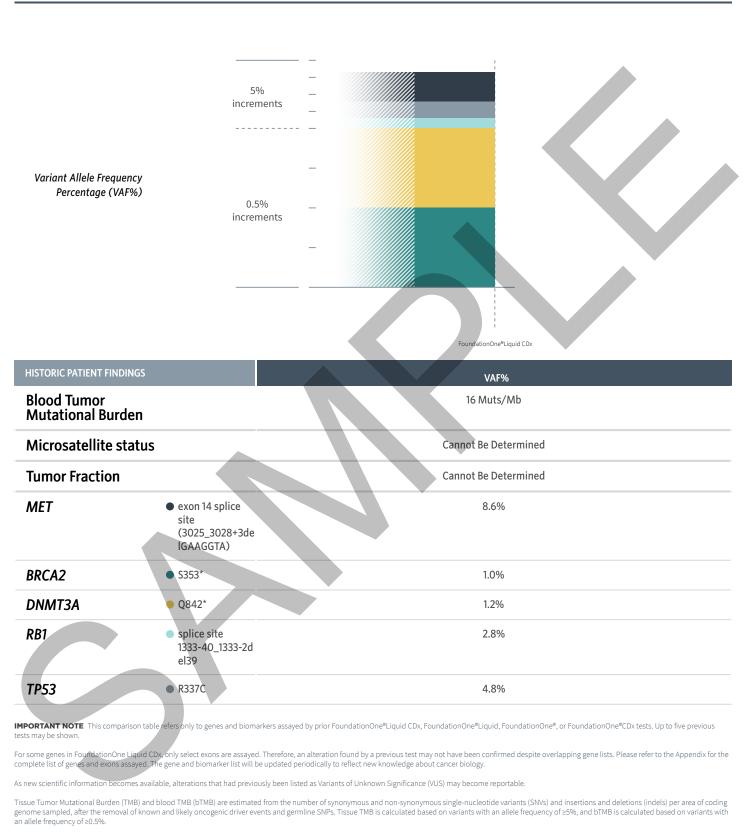
RCA2 - S353*	1.0%	None	Niraparib
			Nilapano
			Olaparib
			Rucaparib
			Talazoparib
) Trials see p. 19			
			NCCN category
ENOMIC FINDINGS WITH NO REPORTABLE THERAPEUT	IC OR CLINICAL	TRIALS OPTIONS	
or more information regarding biological and clini nplications, see the Genomic Findings section.	cal significant	ce, including prognostic, diagnostic, germlin	ne, and potential chemosensitivity
NMT3A - Q842*		p. 7 TP53 - R337C	p. 9
B1 - splice site 1333-40_1333-2del39		p. 8	
RTANT NOTE Genomic alterations detected may be associated with activi erapeutic agents nor the clinical trials identified are ranked in order of po al context, germline testing of <i>APC</i> , <i>BRCA1</i> , <i>BRCA2</i> , <i>BRIP1</i> , <i>MEN1</i> , <i>MLH1</i> , <i>MSI</i> <i>T1</i> is recommended.	tential or predicted	efficacy for this patient, nor are they ranked in order of level of	f evidence for this patient's tumor type. In the appropriate

The content provided as a professional service by Foundation Medicine, Inc. has not been reviewed or approved by the FDA.

Electronically signed by Eric Severson, M.D., Ph.D., M.M.Sc. | Julia Elvin, M.D., Ph.D., Laboratory Director CLIA: 22D2027531 Shakti Ramkissoon, M.D., Ph.D., M.M. Sc, Laboratory Director CLIA: 34D2044309 Foundation Medicine, Inc. | 1.888.988.3639



ORDERED TEST #



Not Tested = not baited, not reported on test, or test preceded addition of biomarker or gene

The content provided as a professional service by Foundation Medicine, Inc. has not been reviewed or approved by the FDA.

Electronically signed by Eric Severson, M.D., Ph.D., M.M.Sc. | Julia Elvin, M.D., Ph.D., Laboratory Director CLIA: 22D2027531

Ph.D., Laboratory Director CLIA: 22D2027531 Shakti Ramkissoon, M.D., Ph.D., M.M. Sc, Laboratory Director CLIA: 34D2044309 Foundation Medicine, Inc. | 1.888.988.3639



ORDERED TEST #

Not Detected = baited but not detected on test Detected = present (VAF% is not applicable) VAF% = variant allele frequency percentage Cannot Be Determined = Sample is not of sufficient data quality to confidently determine biomarker status

The content provided as a professional service by Foundation Medicine, Inc. has not been reviewed or approved by the FDA. Electronically signed by Eric Severson, M.D., Ph.D., M.M.Sc. | Julia Elvin, M.D., Ph.D., Laboratory Director CLIA: 22D2027531 Shakti Ramkissoon, M.D., Ph.D., M.M. Sc, Laboratory Director CLIA: 34D2044309 Foundation Medicine, Inc. | 1.888.988.3639

BIOMARKER FINDINGS

ORDERED TEST #

Blood Tumor Mutational Burden

RESULT 16 Muts/Mb

POTENTIAL TREATMENT STRATEGIES

On the basis of clinical evidence in NSCLC, increased bTMB may be associated with greater sensitivity to immunotherapeutic agents, including anti-PD-L1¹⁻² and anti-PD-1³ therapies. A retrospective analysis of 2 large randomized trials demonstrated patients with NSCLC and a bTMB \geq 10 Muts/Mb achieved greater clinical benefit following treatment with atezolizumab than those with bTMB <10 Muts/Mb¹; similar results have been reported in additional clinical trials using either PD-1 or PD-L1 inhibitors and at

BIOMARKER Tumor Fraction

RESULT Cannot Be Determined

POTENTIAL TREATMENT STRATEGIES

There are currently no targeted approaches to address specific tumor fraction levels; however, on the basis of emerging clinical evidence, changes in tumor fraction may correlate with treatment duration and clinical response and may be a useful indicator for cancer management¹⁹⁻²⁴. higher bTMB cutpoints for patients with NSCLC³⁻⁴. In a small study, treatment with PD-1 or PD-L1 inhibitors resulted in improved PFS for patients with NSCLC and bTMB ≥ 6 Muts/Mb as compared to patients with bTMB <6 Muts/Mb².

FREQUENCY & PROGNOSIS

NSCLC harbors a median bTMB of 16.8 Muts/Mb (range 1.9-52.5 Muts/Mb)³. Published data investigating the prognostic implications of bTMB levels in lung cancer are limited (PubMed, Jul 2020). A large study of Chinese patients with lung adenocarcinoma reported a shorter median OS for tumors with a higher number of mutations in a limited gene set compared with a lower mutation number (48.4 vs. 61.0 months)⁵. Another study of patients with NSCLC correlated elevated TMB with poorer prognosis and significantly associated lower TMB in combination with PD-L1 negative status with longer median survival in patients with lung adenocarcinoma⁶. However, no significant prognostic association of TMB and/or

FREQUENCY & PROGNOSIS

Detectible ctDNA levels has been reported in a variety of tumor types, with higher tumor fraction levels reported in patients with metastatic (Stage 4) tumors compared with patients with localized disease (Stages 1 to 3)²⁵. Elevated tumor fraction levels have been reported to be associated with worse prognosis in a variety of cancer types, including pancreatic cancer²⁶, Ewing sarcoma and osteosarcoma²⁷, prostate cancer²², breast cancer²⁸, leiomyosarcoma²⁹, esophageal cancer³⁰, colorectal cancer³¹, and gastrointestinal cancer³².

FINDING SUMMARY

Tumor fraction is an estimate of the percentage of circulating-tumor DNA (ctDNA) present in a cell-free DNA (ctDNA) sample. Tumor cells in most

PD-L1 status with survival has been reported in patients with lung SCC⁶⁻⁷.

FINDING SUMMARY

Blood tumor mutational burden (bTMB, also known as mutation load) is a measure of the number of somatic protein-coding base substitution and insertion/deletion mutations from circulating tumor DNA in blood. TMB is affected by a variety of causes, including exposure to mutagens such as ultraviolet light in melanoma⁸⁻⁹ and cigarette smoke in lung cancer¹⁰⁻¹¹, treatment with temozolomide-based chemotherapy in glioma¹²⁻¹³, mutations in the proofreading domains of DNA polymerases encoded by the POLE and POLD1 genes14-18, and microsatellite instability (MSI)14,17-18. This sample harbors a bTMB level that may be associated with sensitivity to PD-1- or PD-L1-targeting immune checkpoint inhibitors, alone or in combination with other agents1-3.

advanced solid tumor types may shed ctDNA through the process of apoptosis or necrosis^{25,33-34}. Tumor fraction has been proposed to be a noninvasive surrogate biomarker of disease burden dynamics. Elevated tumor fraction levels have been associated with inferior prognosis, and therapeutic resistance to treatment in certain tumor types^{22,28,31}, whereas reduced levels have been correlated with tumor shrinkage and improved clinical outcome in patients with nonsmall cell lung cancer, urothelial cancer, and melanoma treated with immunotherapy^{20,24,35}. Tumor fraction estimate is computationally derived from observed aneuploid instability in the sample. However, the tumor fraction estimate in this sample could not be determined with confidence.

The content provided as a professional service by Foundation Medicine, Inc. has not been reviewed or approved by the FDA.

Electronically signed by Eric Severson, M.D., Ph.D., M.M.Sc. | Julia Elvin, M.D.,

Ph.D., Laboratory Director CLIA: 22D2027531 Shakti Ramkissoon, M.D., Ph.D., M.M. Sc, Laboratory Director CLIA: 34D2044309 Foundation Medicine, Inc. | 1.888.988.3639

ORDERED TEST #

^{gene} MET

ALTERATION exon 14 splice site (3025_3028+3delGAAGGTA) TRANSCRIPT ID NM_000245 CODING SEQUENCE EFFECT

3025_3028+3delGAAGGTA

POTENTIAL TREATMENT STRATEGIES

On the basis of extensive clinical evidence, MET amplification or activating mutations may predict sensitivity to MET-targeting therapies such as kinase inhibitors crizotinib, capmatinib, tepotinib, and cabozantinib. A Phase 1 study for patients with MET-altered NSCLC treated with MET inhibitor bozitinib monotherapy reported an overall ORR of 30.6% (11/36) and DCR of 97.2% (35/36) with MET overexpression, amplification, and exon 14 skipping demonstrating ORRs of 35.7% (5/14), 41.2% (7/17), and 66.7% (10/15), respectively; increased ORRs were observed in patients with both exon 14 skipping and amplification (100%, 4/4) and with both amplification and overexpression (50%, 3/6)³⁶. MET inhibitors crizotinib, capmatinib, PF-04217903, tepotinib, glesatinib, savolitinib, and foretinib have provided benefit for patients with MET-mutated papillary renal cell carcinoma (RCC)³⁷⁻⁴⁰, histiocytic sarcoma⁴¹, and non-small cell lung cancer (NSCLC) of varied histologies⁴²⁻⁴⁶. Patients with MET exon 14 mutated NSCLC who were treated with 1 of several MET inhibitors

exhibited superior outcomes (median OS 24.6 vs. 8.1 months; HR=0.11, p=0.04) compared with patients who were not treated with a MET inhibitor⁴⁷. Tepotinib showed durable clinical activity in patients with NSCLC with MET exon 14 skipping mutations⁴⁸. In another study, 11 patients with hereditary papillary RCC and germline MET mutations (4 of which were H1094R) experienced 5 PRs and 5 SDs after treatment with foretinib37. Higher ORR was observed between patients with MET-driven papillary RCC treated with savolitinib (27:3%, 9/33 PRs) compared to sunitinib (7.4%, 2/27 PRs), though no significant difference in PFS was observed between groups (7.0 vs. 5.6 months; p=0.31)40. A Phase 2 study evaluating the MET inhibitor savolitinib for patients with MET exon 14 splice site mutation-positive pulmonary sarcomatoid carcinoma and other types of NSCLCs reported 16/31 (52%) of patients achieved a PR49.

FREQUENCY & PROGNOSIS

PATIENT

In the Phase 2 VISION study of patients with nonsmall cell lung cancer, MET exon 14 skipping alterations were reported in 3.6% of patients⁵⁰. In one study of 4402 lung adenocarcinoma cases, MET mutations (primarily those affecting MET exon 14 splicing) have been reported in 3% of samples⁴¹. In TCGA datasets, MET mutation has been observed in 8.3% of lung adenocarcinomas and 2.1% of lung squamous cell carcinomas⁵¹⁻⁵². Studies on the effect of MET amplification on prognosis in NSCLC have yielded conflicting results⁵³⁻⁶⁰, although concurrent MET amplification and EGFR mutation have been

TUMOR TYPE Lung adenocarcinoma

GENOMIC FINDINGS

correlated with reduced disease-free survival⁶¹. MET exon 14 splice alteration, which has predominantly been observed in lung cancer, was found to be an independent poor prognostic factor in a study of 687 patients with NSCLC⁶². However, other studies did not find MET exon 14 splice alteration as a major risk factor for overall survival for NSCLC patients, although recurrence rate was significantly higher in patients with exon 14 splice alteration compared to those with ALK fusion⁶³⁻⁶⁴. Among NSCLC patients with exon 14 alterations that had not been previously treated with a MET inhibitor, a non-significant trend for reduced survival was noted in the context of concurrent MET amplification (5.2 vs 10.5 months, p = 0.06)⁴⁷.

FINDING SUMMARY

MET encodes a receptor tyrosine kinase, also known as c-MET or hepatocyte growth factor receptor (HGFR), that is activated by the ligand HGF; MET activation results in signaling mediated partly by the RAS-RAF-MAPK and PI3K pathways to promote proliferation65-66. Certain MET alterations have been associated with the removal of exon 1443,67-71 and/or loss of a binding site for the ubiquitin ligase CBL, an enzyme that targets MET for degradation^{67,72-74}. Loss of either MET exon 14 or a CBL binding site increases MET stability, leading to prolonged signaling upon HGF stimulation and increased oncogenic potential^{67,71,73-77}; these mutations are expected to be activating. Responses to various MET inhibitors have been reported for multiple patients with alterations in their tumors predicted to lack MET exon 14^{41,43,78-82}.

The content provided as a professional service by Foundation Medicine, Inc. has not been reviewed or approved by the FDA.

Electronically signed by Eric Severson, M.D., Ph.D., M.M.Sc. | Julia Elvin, M.D.,

Ph.D., Laboratory Director CLIA: 22D2027531 Shakti Ramkissoon, M.D., Ph.D., M.M. Sc, Laboratory Director CLIA: 34D2044309 Foundation Medicine. Inc. I 1.888.988.3639

REPORT DATE

GENOMIC FINDINGS

ORDERED TEST #

^{gene} BRCA2

ALTERATION S353* TRANSCRIPT ID NM_000059 CODING SEQUENCE EFFECT

CODING SEQUENCE E 1058C>G

POTENTIAL TREATMENT STRATEGIES

Alterations that inactivate BRCA1 or BRCA2 may confer sensitivity to PARP inhibitors⁸³⁻¹⁰⁰ or to ATR inhibitors¹⁰¹⁻¹⁰². Clinical responses to PARP inhibitors have been reported for patients with either germline or somatic BRCA1/2 mutations^{84,89,92,99-100} and for patients with platinum-resistant or -refractory disease^{83,88,95,98}. In a case study, a patient with therapy-induced neuroendocrine prostate cancer and an inactivating BRCA2 rearrangement experienced a CR ongoing for 20 months to the ATR inhibitor berzosertib¹⁰². Preclinical studies of BRCA1/2 inactivation in T-cell acute lymphoblastic leukemia (T-ALL)103, ovarian carcinoma104, and triple-negative breast cancer (TNBC)105 showing reduced cell viability and increased DNA damage during ATR treatment further support the sensitivity of BRCA2-deficient cells to ATR

gene DNMT3A

ALTERATION Q842* TRANSCRIPT ID

NM_022552 CODING SEQUENCE EFFECT 2524C>T

POTENTIAL TREATMENT STRATEGIES

While DNA methyltransferase (DNMT) inhibitors such as azacitidine and decitabine have shown clinical benefit in hematological malignancies, clinical utility in solid tumors has not been demonstrated.

FREQUENCY & PROGNOSIS

DNMT3A mutations have been reported in 13% of

inhibitors. Inactivation of BRCA2 may also predict sensitivity to DNA-damaging drugs such as trabectedin, lurbinectedin, and the platinum chemotherapies cisplatin and carboplatin¹⁰⁶⁻¹¹⁶. 1002-2085), the DNA binding domain (aa 2479-3192), and/or the C-terminal RAD5 domain, as observed here, are predicted to inactivating^{119,122-137}. One or more of the B

FREQUENCY & PROGNOSIS

In the TCGA datasets, BRCA2 mutation was found in 5% of lung adenocarcinomas⁵¹ and 6% of lung squamous cell carcinomas⁵². BRCA2 mutations are infrequent in non-small cell lung cancer (NSCLC); however, loss of heterozygosity (LOH) of the BRCA2 region on chromosome 13q has been observed in up to 70% of cases studied¹¹⁷. Loss of BRCA2 protein expression has been reported in 34% of NSCLC cases and was more frequent in adenocarcinomas (44% of cases) than, in squamous cell carcinomas (24% of cases); reduction in protein expression was associated with promoter hypermethylation¹¹⁸. Published data investigating the prognostic implications of BRCA2 mutation or loss in lung cancer are limited (PubMed, Mar 2020).

FINDING SUMMARY

The BRCA2 tumor suppressor gene encodes a protein that regulates the response to DNA damage¹¹⁹. Inactivating mutations in BRCA2 can lead to the inability to repair DNA damage and loss of cell cycle checkpoints, which can lead to tumorigenesis¹²⁰. BRCA2 alterations that disrupt PALB2 binding (aa 21-39)¹²¹, the BRC repeats (aa

hematopoietic and lymphoid malignancies and at lower frequencies in solid tumors, including those of the peritoneum (3%), skin (3%), urinary tract (3%), large intestine (3%), small intestine (3%), and lung (2%) (COSMIC, 2020). The role of DNMT3A alterations in solid tumors is unclear. Multivariate analysis showed strong DNMT3A protein expression to be an independent prognostic marker for improved survival in patients with lung adenocarcinoma149. Variants seen in this gene have been reported to occur in clonal hematopoiesis of indeterminate potential (CHIP), an age-related process in which hematopoietic stem cells acquire somatic mutations that allow for clonal expansion¹⁵⁰⁻¹⁵⁵. CHIP is associated with increased mortality, risk of coronary heart disease, risk of ischemic stroke, and risk of secondary hematologic malignancy¹⁵⁰⁻¹⁵¹. Clinical management of patients with CHIP may include monitoring for hematologic changes and reduction of controllable risk factors for cardiovascular disease156. Comprehensive genomic profiling of

2479-3192), and/or the C-terminal RAD51 binding domain, as observed here, are predicted to be inactivating^{119,122-137}. One or more of the BRCA2 variants observed here has been described in the ClinVar database as a likely pathogenic or pathogenic germline mutation (by an expert panel or multiple submitters with no conflicts) associated with hereditary breast and ovarian cancer syndrome (ClinVar, Mar 2020)138. Followup germline testing would be needed to distinguish whether the finding in this patient is somatic or germline. Inactivating germline mutations in BRCA1 or BRCA2 are associated with autosomal dominant hereditary breast and ovarian cancer139-140, and the lifetime risk of breast and ovarian cancer in BRCA2 mutation carriers has been estimated to be as high as >80% and 23%, respectively¹⁴¹. Elevated risk for other cancer types, including gastric, pancreatic, prostate, and colorectal, has also been identified, with an increase in risk ranging from 20 to 60%142. The estimated prevalence of deleterious germline BRCA1/2 mutations in the general population is between 1:400 and 1:800, with an approximately 10-fold higher prevalence in the Ashkenazi Jewish population^{141,143-148}. In the appropriate clinical context, germline testing of BRCA2 is recommended.

solid tumors detects nontumor alterations that are due to CHIP^{154,157-158}. Patient-matched peripheral blood mononuclear cell sequencing is required to conclusively determine if this alteration is present in tumor or is secondary to CHIP.

FINDING SUMMARY

The DNMT₃A gene encodes the protein DNA methyltransferase ₃A, an enzyme that is involved in the methylation of newly synthesized DNA, a function critical for gene regulation¹⁵⁹⁻¹⁶⁰. The role of DNMT₃A in cancer is uncertain, as some reports describe increased expression and contribution to tumor growth, whereas others propose a role for DNMT₃A as a tumor suppressor¹⁶¹⁻¹⁶⁶. Alterations that result in loss or disruption of the C-terminal catalytic domain (amino acids 627-912), such as observed here, are expected to be inactivating¹⁶⁷⁻¹⁷⁰.

The content provided as a professional service by Foundation Medicine, Inc. has not been reviewed or approved by the FDA.

Electronically signed by Eric Severson, M.D., Ph.D., M.M.Sc. | Julia Elvin, M.D.,

Ph.D., Laboratory Director CLIA: 22D2027531 Shakti Ramkissoon, M.D., Ph.D., M.M. Sc, Laboratory Director CLIA: 34D2044309 Foundation Medicine, Inc. | 1.888.988.3639