Patient MRN: N/A | DOB: NOV-21-1933 | Gender: Female

Diagnosis: Lung adenocarcinoma | Test Number 2



Therapy Finder Page

REPORTING

Report Date: OCT-25-2023 Receipt Date: OCT-20-2023

OCT-18-2023 Collection Date:

Specimen: Blood Status: **FINAL** **PHYSICIAN**

Chih-Hsueh Chen

Account: Genconn Biotech Co., LTD

Address: F15., No 207-5 Sec 3, Beixin Rd, Xindian

Dist, New Taipei City, 23143, Taiwan Ph: +886 963 820 633 | Fax: N/A

Additional Recipient: N/A



Complete Tumor Response Map on page 2

Summary of Detected Somatic Alterations, Immunotherapy Biomarkers & Associated Treatment Options

Variants of Uncertain Clinical Significance

ARID1A M1310L (0.2%)

The functional consequences and/or clinical significance of alterations are unknown. Relevance of therapies targeting these alterations is uncertain.

Comments

Reported by: JP1

Additional Biomarkers

Biomarker	Additional Details
MSI-High	NOT DETECTED

We evaluated this sample for 74 genes, including the following guideline-recommended genes for NSCLC										
EGFR(T790M and others)	ALK	ROS1	BRAF	MET	ERBB2(HER2)	RET	NTRK	KRAS		

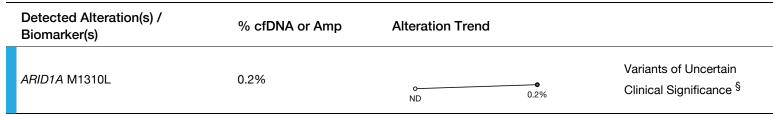


Tumor Biology Page

Guardant360 Tumor Response Map

The Guardant360 Tumor Response Map illustrates the variant allele fraction (% cfDNA) of observed somatic variants at each sample submission. Amplifications are not plotted, and only the first and last five test dates are plotted. Please see the Physician Portal (portal.guardanthealth.com) for the Tumor Response Map with all test dates.





The table above annotates the variant allele fraction (% cfDNA) detected in this sample, listed in descending order. \S See definitions section for more detail



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Clinical Trial Page

Available Clinical Trials (within the same state as the ordering physician)

There may be additional trials not listed here. Visit: portal.guardanthealth.com or email clientservices@guardanthealth.com with A0878667 in the subject line of the email, for additional trials.

Alteration Trial ID / Contact Title Phase Site(s)

More clinical trial options available at portal.guardanthealth.com

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Definitions

Variants of Uncertain Clinical Significance: The functional consequences and/or clinical significance of alterations are unknown. Relevance of therapies targeting these alterations is uncertain.

Interpretation

Somatic alterations were detected in the circulating cell-free DNA isolated from this patient's blood specimen. These genomic alterations are cancer-associated somatic variants, some of which have been associated with either increased or reduced clinical response to specific treatments. The percentage of altered cell-free DNA circulating (% cfDNA) in blood is related to the unique tumor biology of each patient. Factors that may affect the % cfDNA of detected somatic alterations include tumor growth, turn over, size, heterogeneity, vascularization, disease progression, and treatment.



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Method and Limitations

Guardant360 sequences 74 cancer-associated genes to identify somatic alterations. Cell-free DNA (cfDNA) is extracted from plasma, enriched for targeted regions, and sequenced using the Illumina platform and hg19 as the reference genome. All exons are sequenced in some genes; only clinically significant exons are sequenced in other genes. The types of genomic alterations detected by Guardant360 include single nucleotide variants, gene amplifications, fusions, short insertions/deletions (longest detected, 70 base pairs), and splice site disrupting events (see Table 1). Microsatellite Instability (MSI) is assessed for all cancer types by evaluating somatic changes in the length of repetitive sequences on the Guardant360 panel. A "Not Detected" result in samples where the highest % cfDNA is < 0.2% is an inconclusive result because it does not preclude MSI-High status in tissue. MSI status is currently not reported for earlier panel versions. This version of the Guardant360 test is not validated for the detection of other types of genomic alterations, such as complex rearrangements or gene deletions. Certain sample or variant characteristics, such as low cfDNA concentration, may result in reduced analytic sensitivity. Guardant360 cannot discern the source of circulating cfDNA, and for some variants in the range of ~40 to 60% cfDNA, the test cannot easily distinguish germline variants from somatic alterations. Guardant360 is not validated for the detection of germline or de novo variants that are associated with hereditary cancer risk. Tissue genotyping should be considered when plasma genotyping is negative, if clinically appropriate.

Table 1: Genes on the Guardant360 Panel

Guardant360 reports single nucleotide variants, splice site mutations, and insertion and deletion variants (indels) in all clinically relevant exons in 74 genes and reports other variant types in select genes as indicated below.

BRCA2 CTNNB1 FGFR3 # JAK2 MLH1 NTRK1 # RHEB	ALK [#] CCND1 [†] DDR2 GATA3 JAK3 MPL NTRK3 RHOA	APC CCND2 † EGFR † GNA11 KIT † MTOR PDGFRA † RIT1	AR † CCNE1 † ERBB2 † GNAQ KRAS † MYC † PIK3CA † ROS1 #	ARAF CDH1 ESR1 GNAS MAP2K1 NF1 PTEN SMAD4	ARID1A CDK12 EZH2 HNF1A MAP2K2 NFE2L2 PTPN11 SMO	ATM CDK4 [†] FBXW7 HRAS MAPK1 NOTCH1 RAF1 [†] STK11	BRAF † CDK6 † FGFR1 † IDH1 MAPK3 NPM1 RB1 TERT ‡	BRCA1 CDKN2A FGFR2 † # IDH2 MET † NRAS RET # TP53
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 $[\]ensuremath{\ddagger}$ Guardant360 reports alterations in the promoter region of this gene.

About the Test

The Guardant360 assay was developed and its performance characteristics were determined by Guardant Health, Inc. This test has not been cleared or approved by the U.S. Food and Drug Administration (FDA). The FDA has determined that such clearance or approval is not necessary. This test may be used for clinical purposes and should not be regarded as investigational or for research only. Guardant Health's clinical reference laboratory is certified under the Clinical Laboratory Improvement Amendments of 1988 (CLIA) as qualified to perform high complexity clinical laboratory testing. The laboratory report should be interpreted in the context of other clinical information and laboratory, pathology, and imaging studies by a qualified medical professional prior to initiating or changing a patient's treatment plan. The selection of any, all, or none of the drugs associated with potential clinical benefit (or potential lack of clinical benefit) is entirely at the discretion of the treating medical professional. Drug and trial information are based on the diagnosis written on the submitted test request form; this information is not based on any supplemental information provided by the requesting medical professional, including pathology reports or other molecular studies. Some drugs listed in this report may not be approved or cleared by the FDA for the indicated use. Guardant Health makes no endorsement, express or implied, of any product, physician, or procedure contained in this report. This report makes no promises or guarantees that a particular medication will affect (or not affect) the clinical outcome of any patient.

Testing Performed at: Guardant Health

Laboratory Director: Martina Lefterova, MD PhD | CLIA ID: 05D2070300 | CAP #: 8765297 | 505 Penobscot Drive, Redwood City, CA, 94063, USA



[#] Guardant360 reports fusion events involving this gene.

[†] Guardant360 reports amplifications of this gene.

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Additional information is available

Any therapeutic annotations are based on publicly available information. This information is described in the "Detailed Therapy Results" and "Relevance of Detected Alterations" sections.

Visit portal.guardanthealth.com or email clientservices@guardanthealth.com with A0878667 in the subject line of the email for:

Additional clinical trials

Relevance of Detected Alterations

Detailed Therapy Results

References

If you would like to receive this additional information with every Guardant360 report, please call client services at 855.698.8887 to opt-in.

