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## **Sample Information**

Patient Name: 林正義 Gender: Male ID No.: G101410945 History No.: 46437369

**Age:** 65

Ordering Doctor: DOC3182F 陳均嘉

Ordering REQ.: 0BJDUZJ Signing in Date: 2021/07/22

**Path No.:** S110-99146 **MP No.:** F21060

Assay: Oncomine Focus Assay

Sample Type: FFPE Block No.: \$109-30976D Percentage of tumor cells: 40%

Reporting Doctor: DOC5466K 葉奕成 (Phone: 8#5466)

Note:

## Sample Cancer Type: Non-Small Cell Lung Cancer

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### **Report Highlights**

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# **Relevant Non-Small Cell Lung Cancer Variants**

Gene	Finding	Gene	Finding	
ALK	None detected	NTRK1	None detected	
BRAF	None detected	NTRK2	None detected	
EGFR	EGFR exon 20 insertion	NTRK3	None detected	
ERBB2	None detected	RET	None detected	
KRAS	None detected	ROS1	None detected	
MET	None detected			

#### Relevant Biomarkers

Tier	Genomic Alteration	Relevant Therapies (In this cancer type)	Relevant Therapies (In other cancer type)	Clinical Trials
IA	EGFR exon 20 insertion	amivantamab 1	None	6
	epidermal growth factor receptor			
	Allele Frequency: 31.72%			

Public data sources included in relevant therapies: FDA1, NCCN, EMA2, ESMO

Tier Reference: Li et al. Standards and Guidelines for the Interpretation and Reporting of Sequence Variants in Cancer: A Joint Consensus Recommendation of the Association for Molecular Pathology, American Society of Clinical Oncology, and College of American Pathologists. J Mol Diagn. 2017 Jan;19(1):4-23.

Alerts informed by public data sources: O Contraindicated, U Resistance

EGFR exon 20 insertion

**o** gefitinib<sup>2</sup>

afatinib, dacomitinib, erlotinib, gefitinib

Public data sources included in alerts: FDA1, NCCN, EMA2, ESMO

### Variants (Exclude variant in Taiwan BioBank with >1% allele frequency)

DNA	DNA Sequence Variants							
Gene	Amino Acid Change	Coding	Variant ID	Locus	Allele Frequency	Transcript	Variant Effect	Coverage
EGFR	p.(H773dup)	c.2319_2320insCAC	COSM12377	chr7:55249017	31.72%	NM_005228.5	nonframeshift Insertion	1923
ALK	p.(*1621R)	c.4861T>C		chr2:29416092	8.09%	NM_004304.5	stoploss	1113

### **Biomarker Descriptions**

#### EGFR (epidermal growth factor receptor)

Background: The EGFR gene encodes the epidermal growth factor receptor (EGFR) tyrosine kinase, a member of the ERBB/human epidermal growth factor receptor (HER) family. In addition to EGFR/ERBB1/HER1, other members of the ERBB/HER family include ERBB2/HER2, ERBB3/HER3, and ERBB4/HER41. EGFR ligand induced dimerization results in kinase activation and leads to stimulation of oncogenic signaling pathways including the PI3K/AKT/MTOR and RAS/RAF/MEK/ERK pathways. Activation of these pathways promote cell proliferation, differentiation, and survival<sup>2,3</sup>.

Alterations and prevalence: Recurrent somatic mutations in the tyrosine kinase domain (TKD) of EGFR are observed in approximately 10-20% of lung adenocarcinoma, and at higher frequencies in never-smoker, female, and Asian populations<sup>4,5,6,7</sup>. The most common mutations occur near the ATP-binding pocket of the TKD and include short in-frame deletions in exon 19 (EGFR exon 19 deletion) and the L858R amino acid substitution in exon 218. These mutations constitutively activate EGFR resulting in downstream signaling. and represent 80% of the EGFR mutations observed in lung cancer. A second group of less prevalent activating mutations include E709K, G719X, S768I, L861Q, and short in-frame insertion mutations in exon 209,10,11,12. EGFR activating mutations in lung cancer tend to be mutually exclusive to KRAS activating mutations<sup>13</sup>. In contrast, a different set of recurrent activating EGFR mutations in the extracellular domain include R108K, A289V and G598V and are primarily observed in glioblastoma<sup>8,14</sup>. Amplification of EGFR is observed in several cancer types including 30% of glioblastoma, 12% of esophageal cancer, 10% of head and neck cancer, 5% of bladder cancer, and 5% of lung squamous cell carcinoma<sup>5,6,7,14,15</sup>. Deletion of exons 2-7, encoding the extracellular domain of EGFR (EGFRVIII), results in overexpression of a ligand-independent constitutively active protein and is observed in approximately 30% of glioblastoma<sup>16,17,18</sup>.

Potential relevance: Approved first-generation EGFR tyrosine kinase inhibitors (TKIs) include erlotinib19 (2004) and gefitinib20 (2015), which block the activation of downstream signaling by reversible interaction with the ATP-binding site. Although initially approved for advanced lung cancer, the discovery that drug sensitivity was associated with exon 19 and exon 21 activating mutations allowed first-generation TKIs to become subsequently approved for front-line therapy in lung cancer tumors containing exon 19 or exon 21 activating mutations. Second-generation TKIs afatinib21 (2013) and dacomitinib22 (2018) bind EGFR and other ERBB/HER gene family members irreversibly and were subsequently approved. First- and second-generation TKIs afatinib, dacomitinib, erlotinib, and gefitinib are recommended for the treatment NSCLC harboring EGFR exon 19 insertions, exon 19 deletions, point mutations L861Q, L858R, S768I, and codon 719 mutations, whereas most EGFR exon 20 insertions, except p.A763\_Y764insFQEA, confer resistance to the same

X No evidence

### **Biomarker Descriptions (continued)**

therapies<sup>23,24,25,26</sup>. In lung cancer containing EGFR exon 19 or 21 activating mutations, treatment with TKIs is eventually associated with the emergence of drug resistance<sup>27</sup>. The primary resistance mutation that emerges following treatment with first-generation TKI is T790M, accounting for 50-60% of resistant cases8. Third generation TKIs were developed to maintain sensitivity in the presence of T790M. Osimertinib<sup>28</sup> (2015) is an irreversible inhibitor indicated for metastatic EGFR T790M positive lung cancer and for the first-line treatment of metastatic NSCLC containing EGFR exon 19 deletions or exon 21 L858R mutations. Like first-generation TKIs, treatment with osimertinib is associated with acquired resistance. In this case, resistance is associated with the C797S mutation, and occurs in 22-44% of cases<sup>27</sup>. The T790M and C797S mutations may be each selected following sequential treatment with a first-generation TKI followed by a third-generation TKI or vice versa<sup>29</sup>. T790M and C797S can occur in either cis or trans allelic orientation<sup>29</sup>. If C797S is observed following progression after treatment with a third-generation TKI in the first-line setting, sensitivity may be retained to first-generation TKIs<sup>29</sup>. If C797S co-occurs in trans with T790M following sequential treatment with first- and third-generation TKIs, patients may exhibit sensitivity to combination first- and third-generation TKIs, but resistance to third-generation TKIs alone<sup>29,30</sup>. However, C797S occurring in cis conformation with T790M, confers resistance to first- and third-generation TKIs<sup>29</sup>. Fourth-generation TKIs are in development to overcome acquired C797S and T790M resistance mutations after osimertinib treatment. EGFR targeting antibodies including cetuximab (2004), panitumumab (2006), and necitumumab (2016) are under investigation in combination with EGFR-targeting TKIs for efficacy against EGFR mutations. The bispecific antibody, JNJ-6118637231, targeting EGFR and MET, and the TKI mobocertinib<sup>32</sup>, each received a breakthrough designation from the FDA (2020) for NSCLC tumors harboring EGFR exon 20 insertion mutations. The Oncoprex immunogene therapy CNVN-20233 in combination with osimertinib received a fast track designation from the FDA (2020) for NSCLC tumors harboring EGFR mutations that progressed on osimertinib alone. BDTX-18934 was granted a fast track designation (2020) for the treatment of solid tumors harboring an EGFR exon 20 insertion mutation.

### **Relevant Therapy Summary**

O In other cancer type

In this cancer type

EGFR exon 20 insertion						
Relevant Therapy	FDA	NCCN	EMA	ESMO	Clinical Trials*	
amivantamab	•	×	×	×	<b>(</b> I)	
durvalumab, chemotherapy	×	×	×	×	<b>(III)</b>	
mobocertinib	×	×	×	×	<b>(III)</b>	
DZD-9008	×	×	×	×	<b>(</b>  /  )	
TPC-064	×	×	×	×	<b>(</b>  /  )	
lazertinib, amivantamab	×	×	×	×	(I)	

In this cancer type and other cancer types

<sup>\*</sup> Most advanced phase (IV, III, II/III, II, I/II, I) is shown and multiple clinical trials may be available.

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### **Relevant Therapy Details**

#### **Current FDA Information**

In this cancer type

In this cancer type and other cancer types

FDA information is current as of 2021-06-09. For the most up-to-date information, search www.fda.gov.

### EGFR exon 20 insertion

#### amivantamab

Cancer type: Non-Small Cell Lung Cancer Label as of: 2021-05-21 Variant class: EGFR exon 20 insertion

#### Indications and usage:

RYBREVANT™ is a bispecific EGF receptor-directed and MET receptor directed antibody indicated for the treatment of adult patients with locally advanced or metastatic non-small cell lung cancer (NSCLC) with epidermal growth factor receptor (EGFR) exon 20 insertion mutations, as detected by an FDA-approved test, whose disease has progressed on or after platinum-based chemotherapy.

This indication is approved under accelerated approval based on overall response rate and duration of response. Continued approval for this indication may be contingent upon verification and description of clinical benefit in the confirmatory trials.

#### Reference

https://www.accessdata.fda.gov/drugsatfda\_docs/label/2021/761210s000lbl.pdf

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### **Clinical Trials in Taiwan region:**

### **Clinical Trials Summary**

### EGFR exon 20 insertion

NCT ID	Title	Phase
NCT04129502	A Randomized Phase III Multicenter Open-label Study to Compare the Efficacy of TAK-788 as First-line Treatment Versus Platinum-Based Chemotherapy in Patients With Non-Small Cell Lung Cancer With EGFR Exon 20 Insertion Mutations	III
NCT03974022	A Phase I/II, Open-Label, Multicenter Study to Assess the Safety, Tolerability, Pharmacokinetics and Anti-tumor Efficacy of DZD9008 in Patients With Advanced Non-Small Cell Lung Cancer (NSCLC) With EGFR or HER2 Mutation	1/11
NCT04036682	A Phase I/IIa, Open-Label, Multi-Center Trial To Assess Safety, Tolerability, Pharmacokinetics, Pharmacodynamics, And Efficacy Of CLN-081 In Patients With Non-Small Cell Lung Cancer Harboring EGFR Exon 20 Insertion Mutations	1/11
NCT02609776	A Phase I, First-in-Human, Open-Label, Dose Escalation Study of JNJ-61186372, a Human Bispecific EGFR and cMet Antibody, in Subjects With Advanced Non-Small Cell Lung Cancer.	I
NCT04077463	An Open-label Phase I/Ib Study to Evaluate the Safety and Pharmacokinetics of JNJ-73841937 (Lazertinib), a Third Generation EGFR-TKI, as Monotherapy or in Combinations With JNJ-61186372, a Human Bispecific EGFR and cMet Antibody in Participants With Advanced Non-Small Cell Lung Cancer	I
NCT03800134	A Phase III, Double-blind, Placebo-controlled, Multi-center International Study of Neoadjuvant/Adjuvant Durvalumab for the Treatment of Patients With Resectable Stages II and III Non-small Cell Lung Cancer (AEGEAN)	III

### **Alerts Informed By Public Data Sources**

#### **Current FDA Information**











Variant class: EGFR exon 20 insertion

FDA information is current as of 2021-06-09. For the most up-to-date information, search www.fda.gov.

### EGFR exon 20 insertion

#### mobocertinib

Cancer type: Non-Small Cell Lung Cancer

#### **Supporting Statement:**

The FDA has granted Breakthrough Therapy Designation to the small molecule inhibitor, mobocertinib, for EGFR exon 20 insertion mutant non-small cell lung cancer (NSCLC) that has progressed on or after platinum-based chemotherapy.

#### Reference:

https://www.takeda.com/newsroom/newsreleases/2020/takeda-announces-u.s.-fda-breakthrough-therapy-designation-for-mobocertinib-tak-788-for-the-treatment-of-nsclc-patients-with-egfr-exon-20-insertion-mutations/

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### EGFR exon 20 insertion (continued)

#### ♣ BDTX-189

Cancer type: Solid Tumor

Variant class: EGFR exon 20 insertion

#### Supporting Statement:

The FDA has granted Fast Track Designation to BDTX-189 for solid tumors harboring a HER2 mutation or an EGFR or HER2 exon 20 insertion after progression on prior therapy.

#### Reference:

https://investors.blackdiamondtherapeutics.com/news-releases/news-release-details/black-diamond-therapeutics-granted-fast-track-designation-fda

#### osimertinib + quaratusugene ozeplasmid

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFR mutation

#### **Supporting Statement:**

The FDA has granted Fast Track Designation to the immunogene therapy, quaratusugene ozeplasmid, in combination with EGFR inhibitor osimertinib for the treatment of non-small cell lung cancer (NSCLC) with EFGR mutations that progressed after treatment with osimertinib alone.

#### Reference:

https://www.genprex.com/news/genprex-receives-u-s-fda-fast-track-designation-for-gene-therapy-that-targets-lung-cancer/

#### **Current NCCN Information**

NCCN information is current as of 2021-06-01. For the most up-to-date information, search www.nccn.org. For NCCN International Adaptations & Translations, search www.nccn.org/global/international\_adaptations.aspx.

### EGFR exon 20 insertion

#### atezolizumab

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFR mutation

#### Summary:

NCCN Guidelines® include the following supporting statement(s):

"subsequent therapy with pembrolizumab, nivolumab, or atezolizumab is not recommended in patients with EGFR mutations or ALK fusions."

Reference: NCCN Guidelines® - NCCN-Non-Small Cell Lung Cancer [Version 4.2021]

#### nivolumab

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFR mutation

#### Summary:

NCCN Guidelines® include the following supporting statement(s):

"subsequent therapy with pembrolizumab, nivolumab, or atezolizumab is not recommended in patients with EGFR mutations or ALK fusions."

Reference: NCCN Guidelines® - NCCN-Non-Small Cell Lung Cancer [Version 4.2021]

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# EGFR exon 20 insertion (continued)

### pembrolizumab

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFR mutation

Summary:

NCCN Guidelines® include the following supporting statement(s):

"subsequent therapy with pembrolizumab, nivolumab, or atezolizumab is not recommended in patients with EGFR mutations or ALK fusions."

Reference: NCCN Guidelines® - NCCN-Non-Small Cell Lung Cancer [Version 4.2021]

#### afatinib

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFR exon 20 insertion

Summary:

NCCN Guidelines® include the following supporting statement(s):

"Patients with EGFR exon 20 insertion mutations are usually resistant to erlotinib, gefitinib, afatinib, or dacomitinib, although there are rare exceptions."

Reference: NCCN Guidelines® - NCCN-Non-Small Cell Lung Cancer [Version 4.2021]

#### dacomitinib

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFR exon 20 insertion

Summary:

NCCN Guidelines® include the following supporting statement(s):

"Patients with EGFR exon 20 insertion mutations are usually resistant to erlotinib, gefitinib, afatinib, or dacomitinib, although there are rare exceptions."

Reference: NCCN Guidelines® - NCCN-Non-Small Cell Lung Cancer [Version 4.2021]

#### erlotinib

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFR exon 20 insertion

Summary:

NCCN Guidelines® include the following supporting statement(s):

"Patients with EGFR exon 20 insertion mutations are usually resistant to erlotinib, gefitinib, afatinib, or dacomitinib, although there are rare exceptions."

Reference: NCCN Guidelines® - NCCN-Non-Small Cell Lung Cancer [Version 4.2021]

### gefitinib

Cancer type: Non-Small Cell Lung Cancer Variant class: EGFR exon 20 insertion

Summary:

NCCN Guidelines® include the following supporting statement(s):

"Patients with EGFR exon 20 insertion mutations are usually resistant to erlotinib, gefitinib, afatinib, or dacomitinib, although there are rare exceptions."

Reference: NCCN Guidelines® - NCCN-Non-Small Cell Lung Cancer [Version 4.2021]

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### **Current EMA Information**

Contraindicated

Not recommended

Resistance

Breakthrough

Fast Track

EMA information is current as of 2021-06-09. For the most up-to-date information, search www.ema.europa.eu/ema.

### EGFR exon 20 insertion

gefitinib

Cancer type: Non-Small Cell Lung Cancer Label as of: 2021-03-05 Variant class: EGFR exon 20 insertion

Reference:

https://www.ema.europa.eu/en/documents/product-information/iressa-epar-product-information\_en.pdf

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# **Signatures**

**Testing Personnel:** 

**Laboratory Supervisor:** 

Pathologist:

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