#### **Bringing Personalized Medicine to the Clinic**



cMET: Simultaneous and Quantitative Analysis of Copy Number Variation and Gene Expression in a Single Reaction

Molecular Med Tri-Con Feb., 13, 2013

PrimeraDx

Lilly Kong, DVM CSO, PrimeraDx

#### PrimeraDx – Simplifying Molecular Diagnostics with a Proprietary Platform

#### Only technology available to enable Multi-Modal Multiplex testing

- Ability to detect and quantify DNA, RNA, mRNA and miRNA all in a single-well reaction
- Proprietary technology with large IP estate
- Automated platform that dramatically improves lab workflow, reduce costs, and enables new markets

#### Technology advantages provide opportunity for differentiated content; several assays in development

- cMET/EGFR and other oncology assays in partnership with Pharma
- KRAS/NRAS/BRAF, EGFR and several ID products currently in development

#### Technology is validated and in the market now

- Eli Lilly companion diagnostics relationship, with multiple other opportunities in progress
- Initial open platform placements ramping up

#### Technology has unique and large commercial opportunity

- "Open platform" approach
- Cleared IVD kit sales
- Companion diagnostic partnerships

#### Regulatory path is clear and in process



#### Unique Technology Addresses Current Problems While Enabling New Markets and Applications

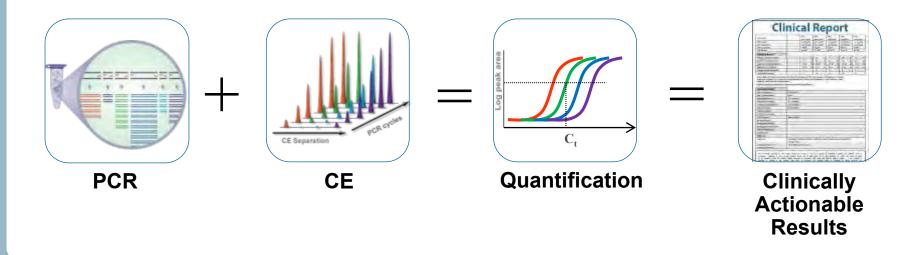
### The Marriage of PCR and Capillary Electrophoresis

Integrated PCR, CE, fluidics, detection and analysis software

Real-time detection of PCR products separates targets by size

Sampling as the reaction progresses allows quantitation

Multiplex, mulitmodal, quantitative results provide unique, clinically actionable data



### The ICEPIex System – Fully Automated, Real-Time, Multiplex qPCR

#### Walk-away Workflow with Automated Reporting of Assay Results

#### **On-board Reagents**

Capillary

Cartridge



- Assay dynamic range (and simultaneous detection) of 10 10,000,000 copies of multiple targets in a single sample
- Innovative software to track, analyze and report results
- · Proven reliability customer experience
- Manufactured under QSR, ISO and GMP standards
- Flexible software: User-definable assay conditions for LDT capabilities, company-developed assay design software speeds assay/product development

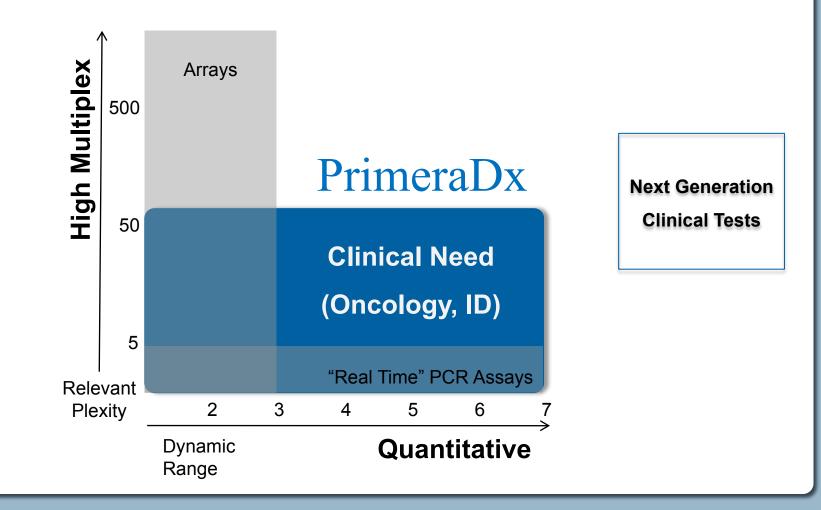
#### PrimeraDx

Thermal

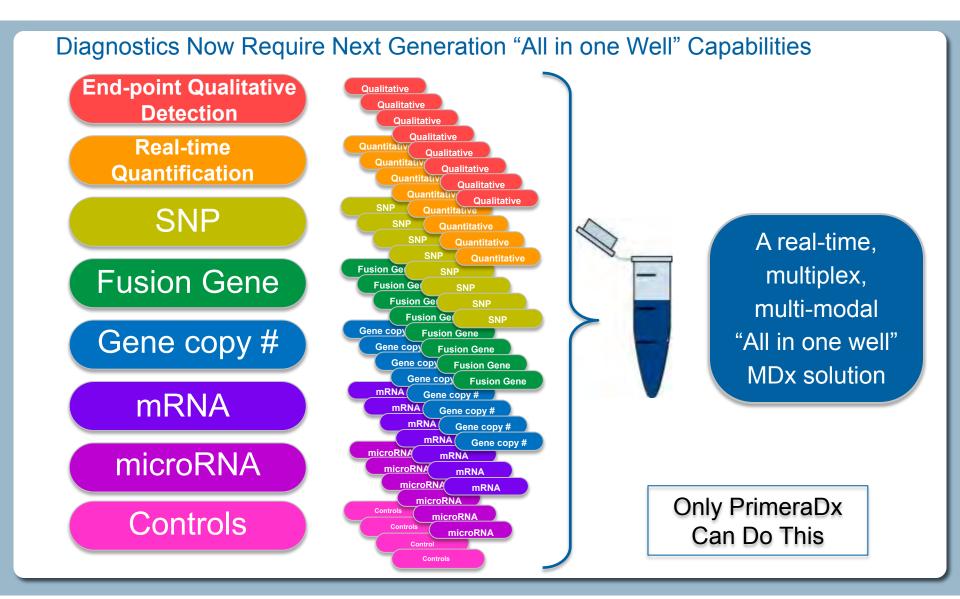
Cycler

### There is No Comparable Technology Available

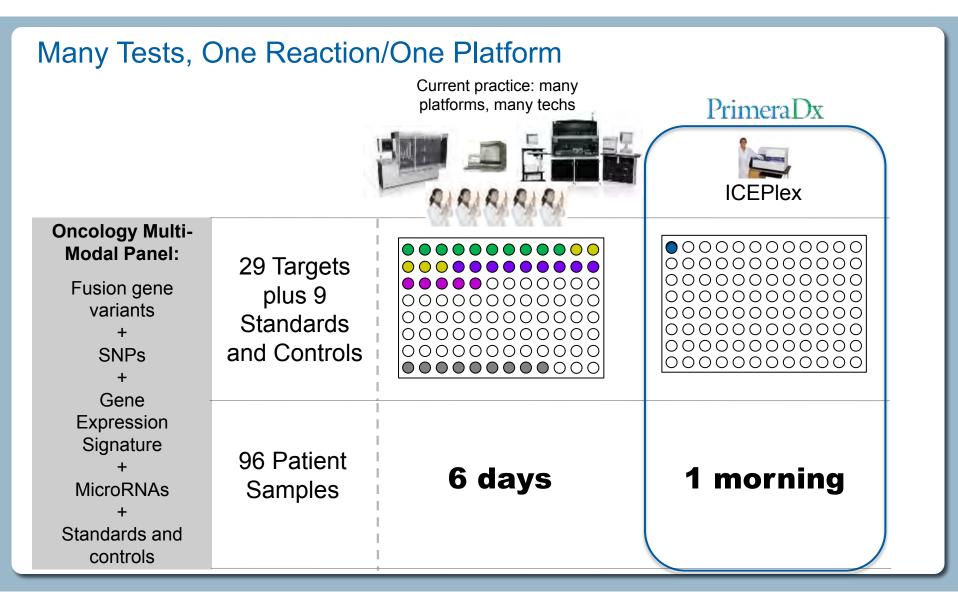
#### ICEPlex Enables Real-time Multi-modal, Multiplex, Quantitative Tests



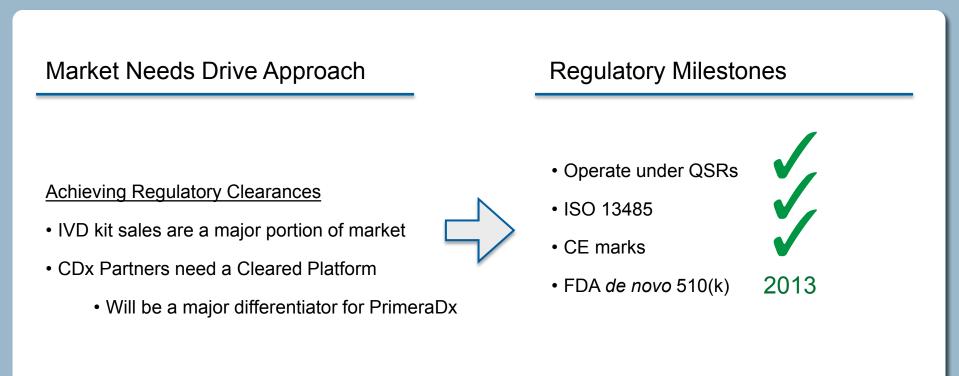
#### Multi-Modal Testing is the Future of MDx – Breakthrough for Labs and Clinicians

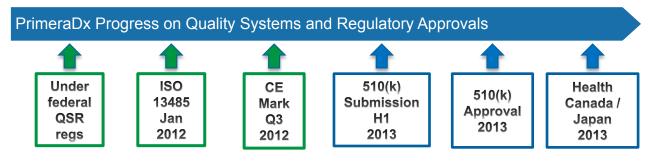


# Unique, Critical Capability in the Molecular Dx Space



### **Regulatory Plan and Quality Systems Enable PDx in the Market**





#### 2/13/2013

### PrimeraDx's Open Platform Product: Next Generation qPCR

#### Users Design Complex Multiplex Assays with Ease....

#### In Silico Multiplex Assay Design SW Tools Enable Customers



Automated Workflow Simplifies Testing Procedures

.....and PrimeraDx Provides the Tools Needed to Diagnose Disease

### **PrimeraDx Open Platform Products**

### Instrument

ICEPlex enables CLIA labs to run laboratory developed tests *and* PrimeraDx IVDs



### Consumables



Four cartridge sizes 8 and 24 well 48 well 96 well Universal Reagent Kit Capillary Electrophoresis plates All on-board consumables

### Products

**Open Platform Product** 

Instrument, software and consumables needed for CLIA labs to run LDTs



# PrimeraDx Technology Has Very Broad Clinical IVD Utility

#### Proven Capabilities in All Major Diagnostic Areas....

Oncology

- □ Expression panels
- Copy number variation
- □ SNP panels
- Polysomy
- Insertions
- Deletions
- Fusion products (replaces FISH)
- Methylation
- Combinations of any and all of the above

More in Development



Others Genetic Dis Others Others Drod Safety Testing Pharma QC Drug Metab

#### <u>ID</u>

- Quantitative, multipathogen detection
- Mixed pathogen panels
- □ Viral load
- Resistance detection
- Hospital acquired infections
- Multiple sample/swab types
- Panels that represent physician ordering patterns

More in Development

Panels for demonstration purposes only. Not for clinical diagnostic use.

# PrimeraDx Products Have Very Broad Clinical IVD Utility

### Proven Capabilities in All Major Diagnostic Areas....

 <u>Oncology</u>
 KRAS/NRAS/BRAF
 EGFR
 cMET/EGFR CNV with cMET
 Expression
 cMET Mutation Panel
 EML4-ALK
 Lymphoma
 BCR-ABL
 Methylation
 microRNA/mRNA/

aDNA Panel

More in Development



Others Content of Con <u>ID</u>

Fungal Panel
 (direct blood detection)

- Transplant Panel
  (multiple viral loads)
- C. difficile
- STI Panel

(yeast, virus, bacteria, parasites)

- Ultra-Sensitive JCV/BKV (differentiation, viral loads)
- Respiratory Panel (pathogens including drugresistant strains)

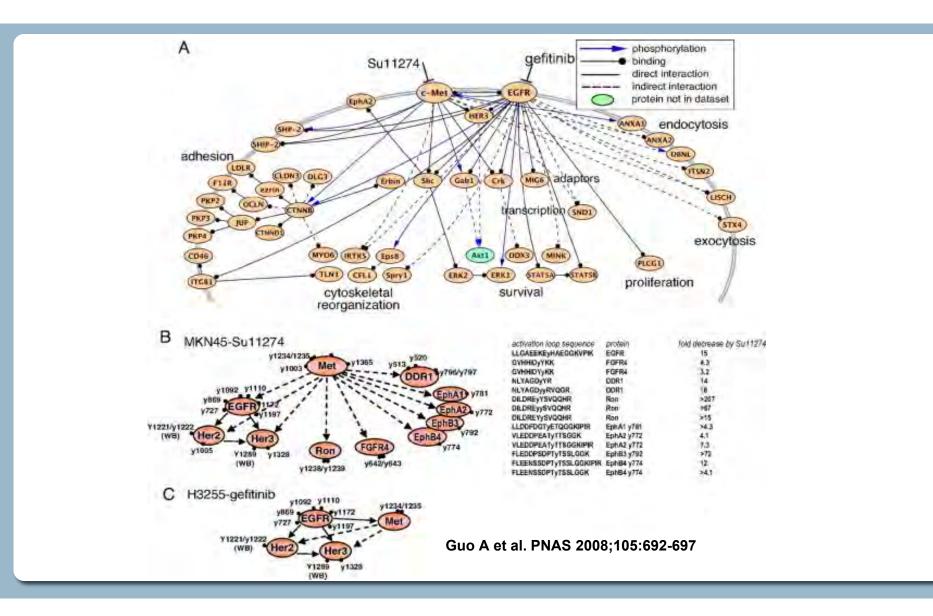
More in Development

Panels for demonstration purposes only. Not for clinical diagnostic use.

c-MET/EGFR Copy Number Variation and cMET Gene Expression Single-Tube Assay



#### c-MET and EGFR – Critical in Many Pathways, Targeted by Many Drugs



# Why c-MET???

cMET is a receptor tyrosine kinase that, after binding with its ligand, hepatocyte growth factor (HGF), activates many signaling pathways, driving proliferation, motility, migration and invasion.

Although c-MET is important in the control of tissue homeostasis under normal physiological conditions, it has also been found to be aberrantly activated in human cancers via mutation, amplification or protein overexpression. Dysregulation and constitutive activation of c-MET leads to cell proliferation, cell survival, angiogenesis, invasion and metastasis.

Overexpression/amplifcation of c-MET has been observed in various carcinomas, including gastric, NSCLC, colorectal, kidney tumors.

Amplification of c-MET has been identified as one mechanism to confer resistance to EGFR-specific tyrosine kinase inhibitors in lung cancers.



### **Challenges of Current Platforms & Multi-modality**

#### IHC: Protein Expression/phosphorylation

 Low sensitivity of antibodies
 strong background staining, weak target antigen staining and autofluorescence

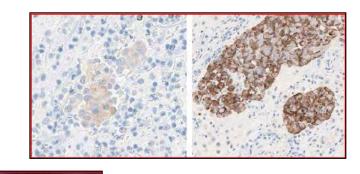
#### FISH: Gene/Chromosomal CNV

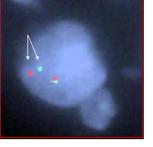
Inter-lab discordance 20%+
 5-7 day turn-around time

# Real-Time PCR: Gene Expression / SNP/CNV

Multiplex limitations on most other PCR platforms





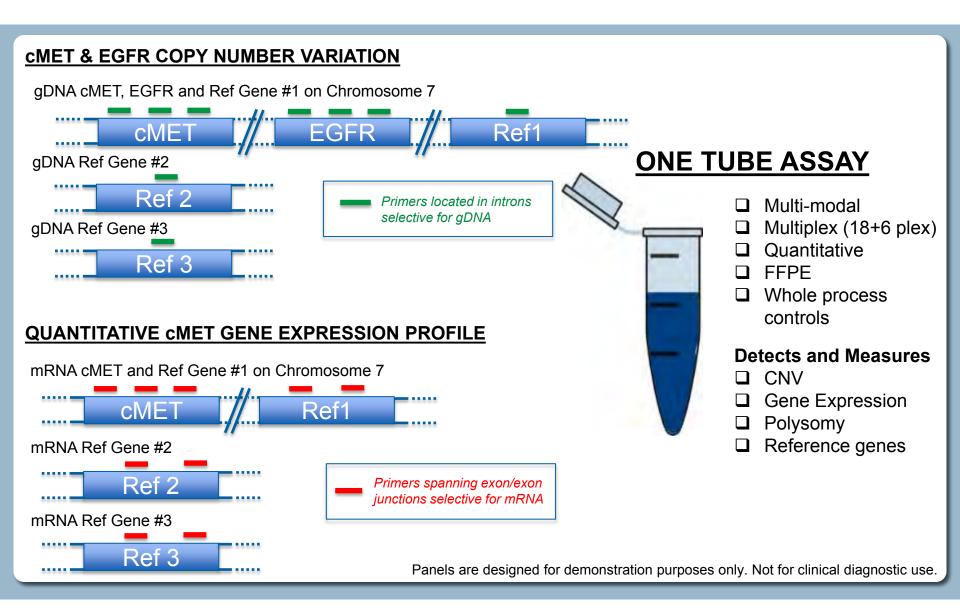


Many biomarkers in many complex pathways targeted by many drugs:

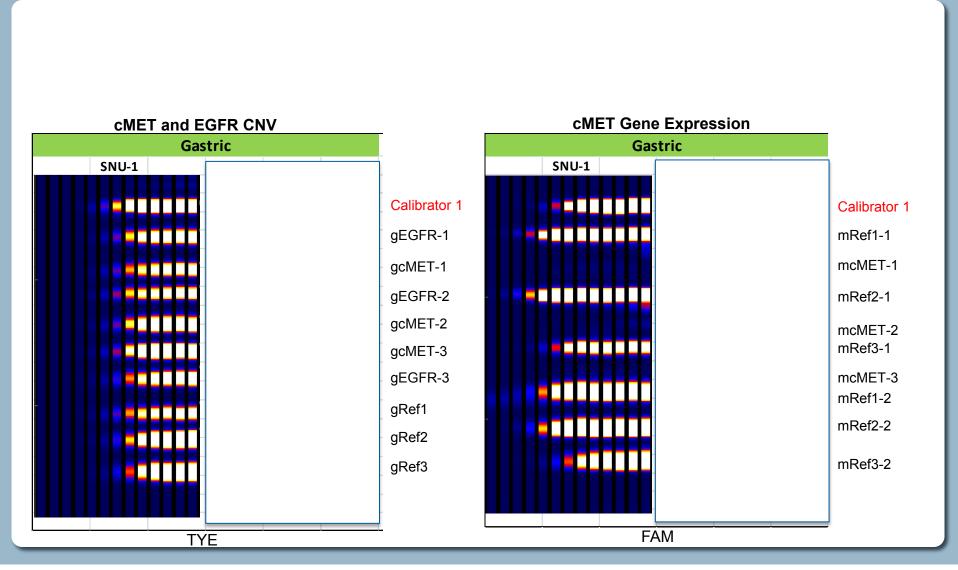
Creates a need for single tube, multiplex and multi-modal tests



### A "Killer App" For a High Unmet Need – Only PrimeraDx Can Do This

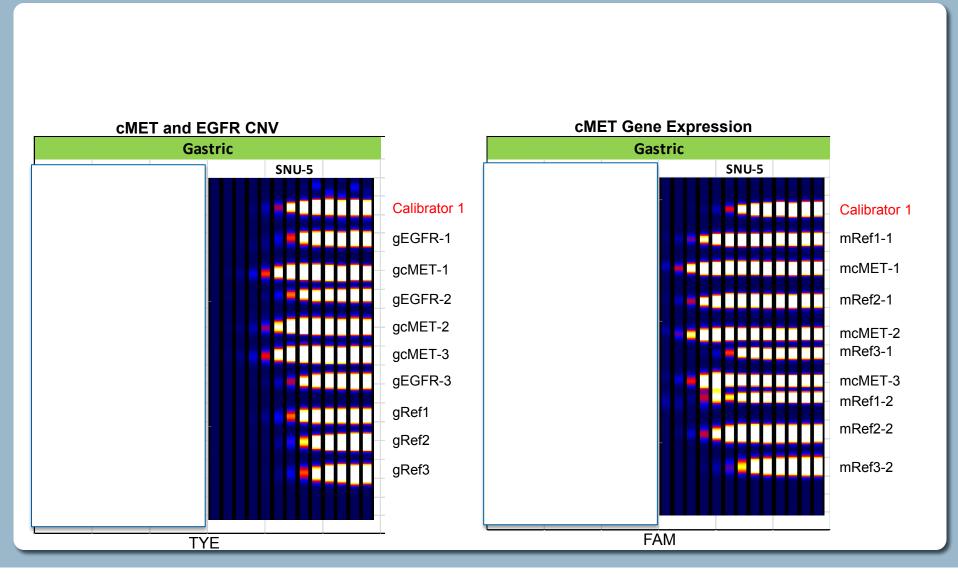


### Single Tube CNV and Gene Expression Analysis – Gastric



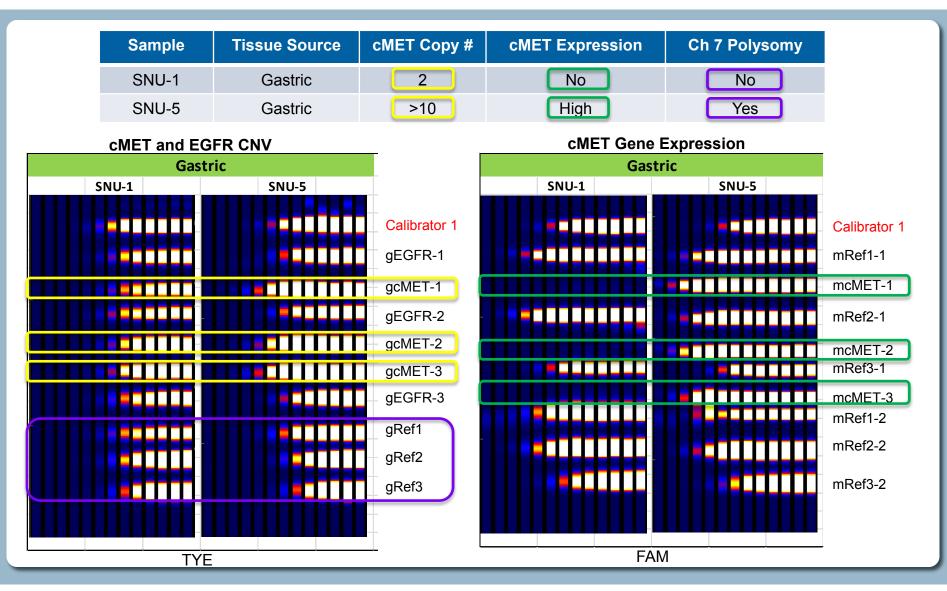
Panels are designed for demonstration purposes only. Not for clinical diagnostic use. PrimeraDx 18

### Single Tube CNV and Gene Expression Analysis – Gastric



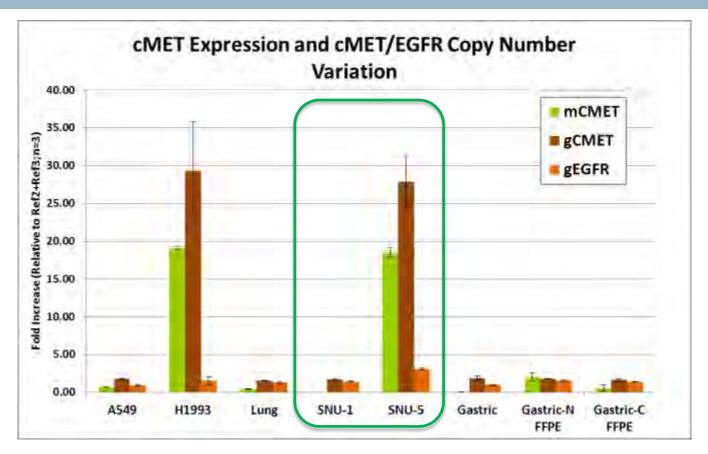
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# Single Tube CNV and Gene Expression Analysis – Gastric



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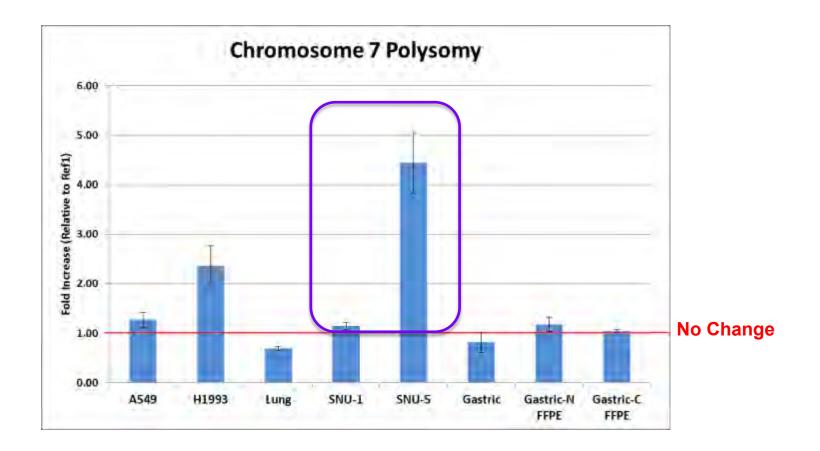
### **cMET Gene Expression and CNV Analysis**



- Data were normalized to reference genes Ref2 and Ref3 and fold-change calculated
- No cMET amplification or expression in SNU-1
- SNU-5 shows significant cMET amplification and overexpression

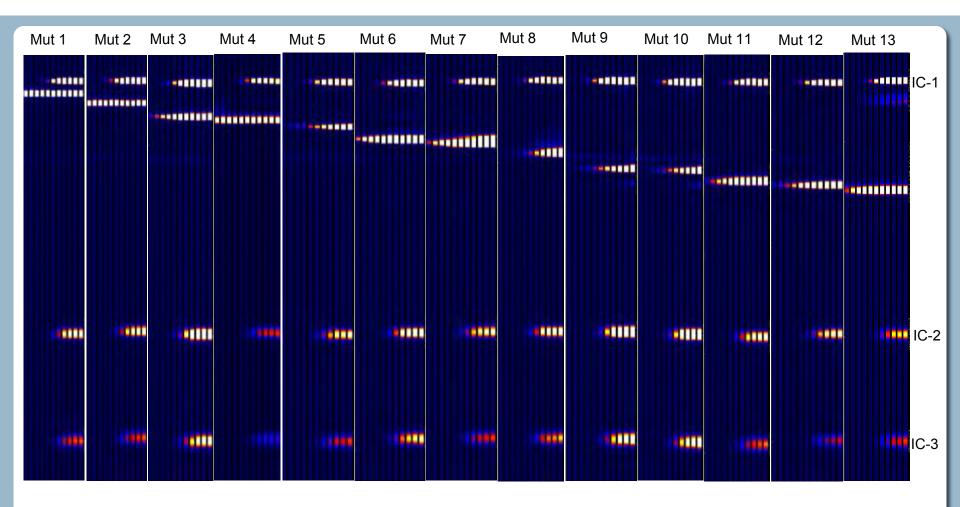
Panels are designed for demonstration purposes only. Not for clinical diagnostic use.

### **Chromosome 7 Polysomy Status**



Panels are designed for demonstration purposes only. Not for clinical diagnostic use.

### **cMET 13-Target Single-tube Mutation Panel**



Panels for demonstration purposes only. Not for clinical diagnostic use.

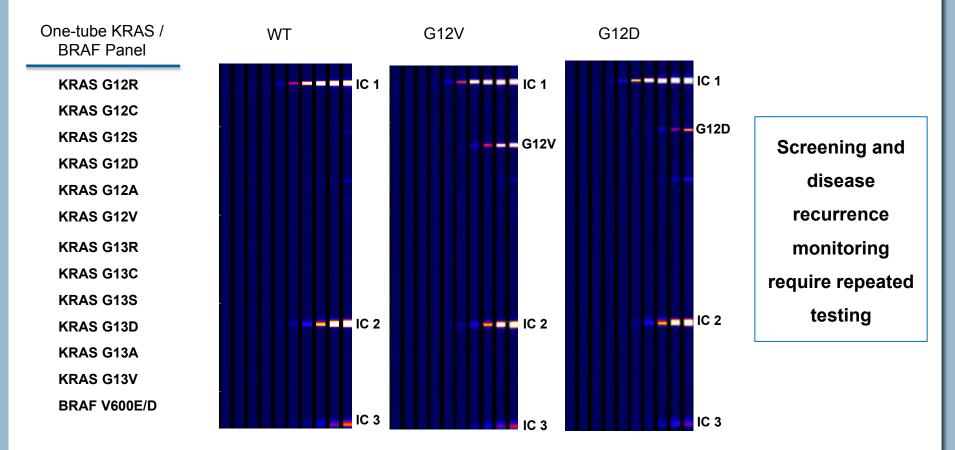


### Summary

- An 18-target, 24-plex, single-tube multimodal assay designed to detected amplification of cMET and EGFR genes, expression of cMET and polysomy of chromosome 7, as well as a 13-target single-tube cMET mutation panel have been developed on the ICEPlex system
- Quality result: Built-in controls and redundancy assure quality and precision
- Quicker TAT: Impacts patient care
- All-in-one assay: Simplifies lab operation and improves lab economics
- Minimum nucleic acid input: Resolves specimen size issue
- Versatile sample types: FFPE blocks, Fresh-frozen tissues, Cell lines, Blood

# PDx Makes "Liquid Biopsy" Possible – Massive Potential Market in Cancer Screening

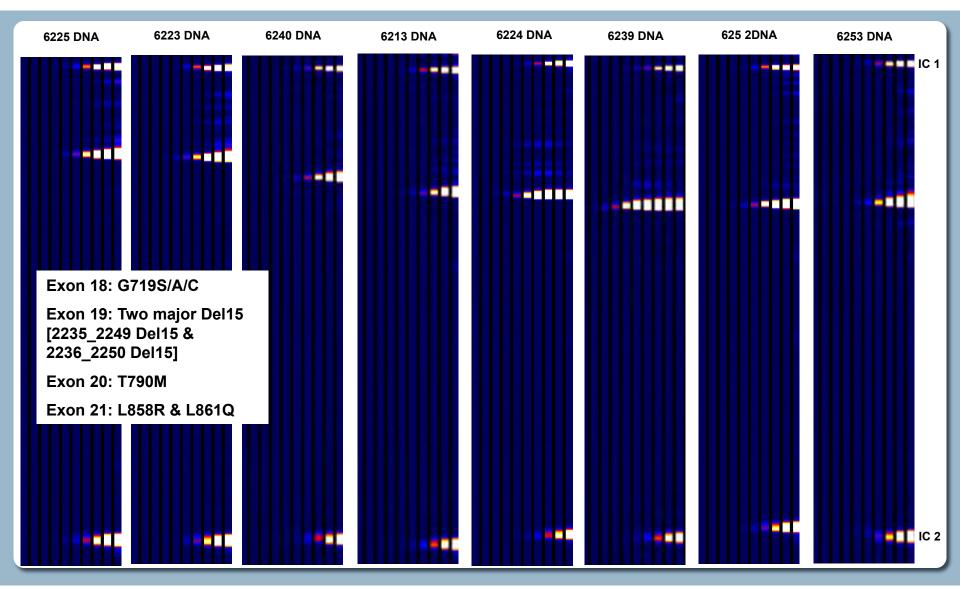
#### KRAS/BRAF Panel: Detects DNA in Serum/Plasma, and Also Works in FFPE



1% selectivity - highly sensitive serum/plasma assay

Panels for demonstration purposes only. Not for clinical diagnostic use.

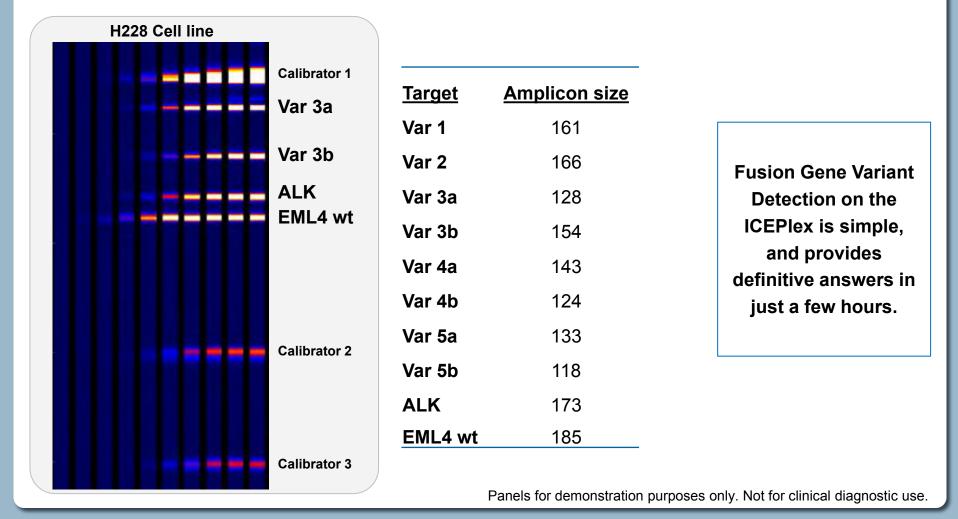
### **Multiplex Detection of EGFR Mutations in One Single Reaction**



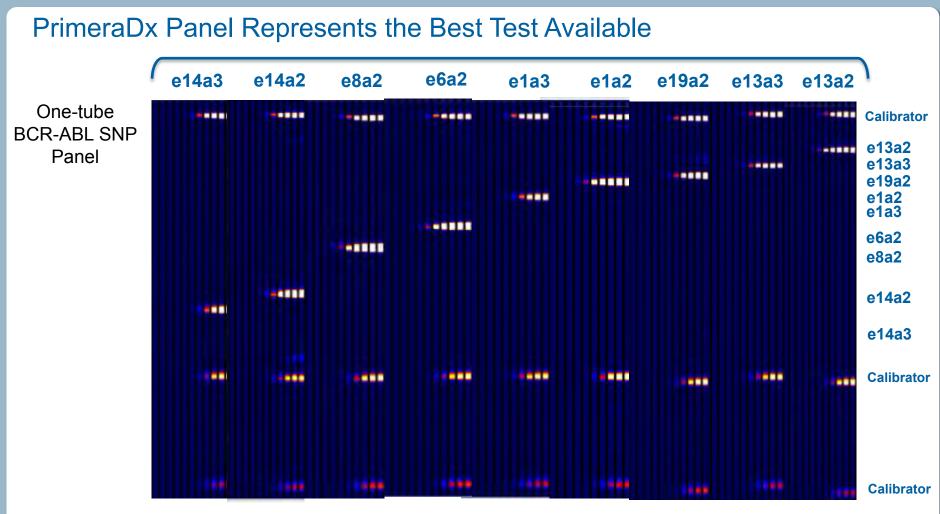
Panels for demonstration purposes only. Not for clinical diagnostic use.

### **EML4-ALK:** Fusion Gene Assay Detects Eight Fusion Variants

#### Fusion Detection Will Displace FISH in the Marketplace – Huge Potential



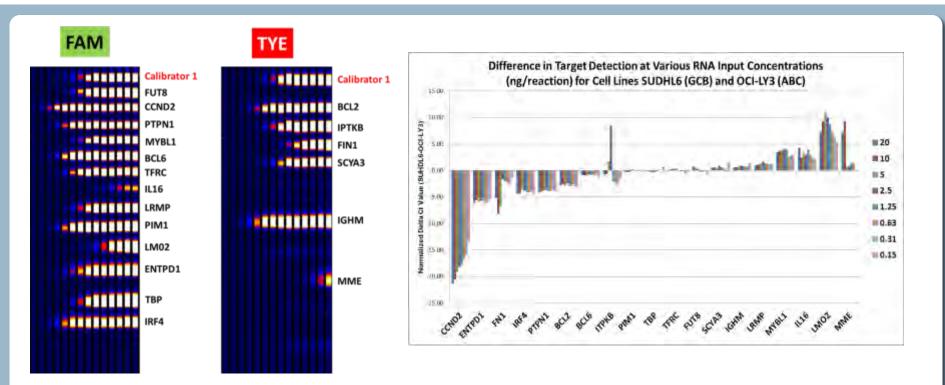
### **BCR-ABL Fusion Gene Assay Detects Nine Fusion Variants**



Individual plasmid target templates were detected by the single tube BCR-ABL Assay

Panels for demonstration purposes only. Not for clinical diagnostic use.

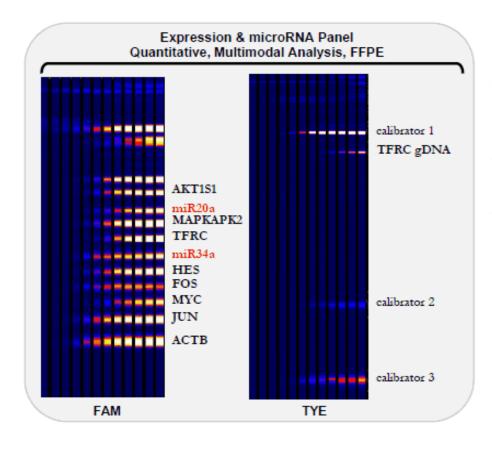
### Lymphoma Gene Expression Panel Differentiates GCB from ABC



- A novel quantitative 19-plex mRNA expression profiling assay designed to allow DLBCL tumor classification on FFPE specimens in a single tube PCR reaction was developed on the ICEPlex system.
- The ICEPlex DLBCL assay allowed discrimination of ABC and GCB cell lines based on specific target expression patterns generated from < 1ng of RNA from FFPEisolated material.
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Panels for demonstration purposes only. Not for clinical diagnostic use.

# Simultaneous Quantification of mRNA and miRNA expression



Currently being investigated for complex molecular assays (multimodal multiplex qPCR) supporting drug development with expectation that taking a single assay through regulatory approval will be more feasible

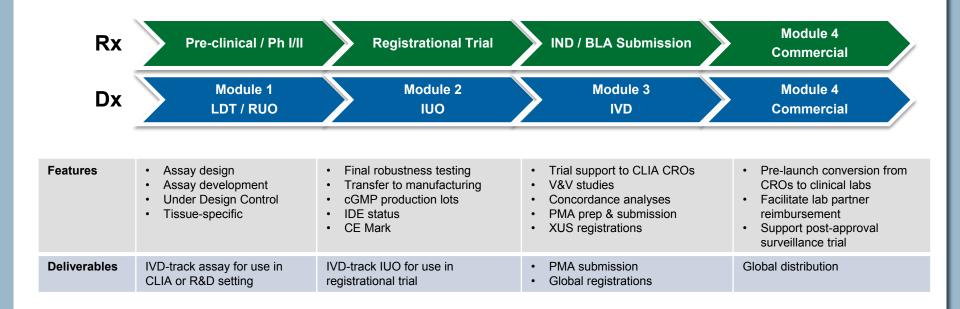
<u>Platform selection is important</u>: Robust assay performance Ease of development Regulatory path Clinical laboratory accessibility Meeting the need of the CDx effort



22

### **CDx Partnership for IVD Development**

#### Multiyear, Multiproduct Deal with Eli Lilly; Others in Process



Partner funds product development, expands pipeline of "killer-apps."

PrimeraDx retains all commercial rights.

### **PrimeraDx – Providing Solutions for Today's Dx Needs**

- The only Fully Quantitative, High Multiplex qPCR Platform
- A completely Automated Workflow
- Allows for Multi-modal assay configurations
- The ideal platform for Companion Diagnostics
- Numerous complex products in Diverse Clinical Areas



# Primer Design Use Case: BCR-ABL Panel



ICEPlex system and assays have not been approved by the FDA for IVD. This information is for demonstration purpose only

### Assay Design Workflow – Automated Wizard-like User Interface

Target Target Target Target Target Target	<ul> <li>1 Automated Primer Selection</li> <li>2 Automated Primer Selection</li> <li>3 Automated Primer Selection</li> <li>4 Automated Primer Selection</li> <li>5 Automated Primer Selection</li> <li>6 Automated Primer Selection</li> <li>7 Automated Primer Selection</li> <li>8 Automated Primer Selection</li> <li>9 Automated Primer Selection</li> </ul>
Target '	0 → Automated Primer Selection

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### **Primer Design for Target Region**

Hatch all (a) of the following:	Y Design New Primers
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### **Automated Primer Filtering & ePCR**

### In silico prediction of off-target amplifications

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ICEPlex system and assays have not been approved by the FDA for IVD. This information is for demonstration purpose only

### The Finalized BCR-ABL Panel – RT Steps

#### Simple and Painless High Multiplex Assay Design

RT Reaction									
		Stock	[Final]	per run					
5x RT Buffer		5x	1x	4					
dNTP Mix		10mM	0.5mM	1					
DTT		100mM	5mM	1					
RT Primer Mix	<u> </u>	20x	1x	1					
SuperScript II	l	200U/ul	20U/ul	0.1					
Template				10					
H2O				2.9					
		Total	Total	20					
<b>RT Primer mix</b>									
	uM in 20x mix	Sequence				Cycling Pro	otocol		
ABLa2 RT5	1	TCCAACGA	GCGGCTT			RT		50C	30min
ABLa3 RT2	1	TTTGGTTTGGGCTTCAC				<b>RT Inactivation</b>		90C	5 min
ABLwt RT 1 T		TCTCGGAGGAGACGT				Cool-down		4C	5 min

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### The Finalized BCR-ABL Panel – PCR Steps

#### Simple and Painless High Multiplex Assay Design

PCR Reaction				PCR Primer	uM in 25x	n Sequence
				e13	5	GCTGACCAACTCGTGTGGAAACTCC
	Stock	[Final]		e19	5	TCATGGAGGAGGTGGGCATCTACC
FastStart buffer	10x	1x	5	e6	5	ATATTGCTGTCAGGCCAATGCTCAGTTTGC
MgCl2	25mM	0.5 mM	1	e8	5	CCACCCTGACCACCCCTTGCTG
dNTPs	10mM	0.3 mM	1.5	e1	5	TGTCCGAGGCCACCATCGTG
FastStartTaq	5 U/ul	5 U	1	ABLwt	3.75	ACATCACGCCAGTCAACAGTCTG
Calibrators mix	25x	0.3x	0.6	ABLa2	7.5	/56-FAM/ACCAACGAGCGGCTTCACTCAGA
Primer mix	30x	1x	2	ABLa3	2.5	/56-FAM/ATAAAAATTAATTTTGGTTTGGGCTTCACACCATTCC
Template (cDNA)			14	ABLwt	3.75	/56-FAM/TCTCGGAGGAGACGTAGAGCTTG
H2O			24.9			
		Total	50			
PCR Protocol						
Intial Denaturation	1x	96C	600 sec			
Pre-CE Cycling	17x	64C	40 sec			
		72C	40 sec			
		96C	10 sec			
CE Cycling	24x	64C	40 sec			
		72C	190 sec			
		96C	10 sec			
CE Sampling	11x	-	arations			
		-	2038			
Separation Time			0 sec			
Total Run Time		3hrs	29min			

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# The Finalized BCR-ABL Panel – Corresponding Sizes for Each Targets

Simple and Painless High Multiplex Assay Design

Target	Amp Size	Forward					Reverse		
e13a2	128	e13	GCTGACCA	ACTCGTGTG	GTGAAAC	СТСС	ABLa2	/56-FAM/A	ACCAACGAGCGGCTTCACTCAGA
e13a3	136	e13	GCTGACCA	ACTCGTGTG	GTGAAAC	СТСС	ABLa3	/56-FAM/A	ATAAAAATTAATTTTGGTTTGGGCTTCACACCATTCC
e19a2	140	e19	TCATGGAG	GAGGTGGG	CATCTAC	CC	ABLa2	/56-FAM/A	ACCAACGAGCGGCTTCACTCAGA
e6a2	168	e6	ATATTGCT	GTCAGGCCA	ATGCTC	AGTTTGC	ABLa2	/56-FAM/A	ACCAACGAGCGGCTTCACTCAGA
e8a2	179	e8	CCACCCTO	ACCACCCCT	TTGCTG		ABLa2	/56-FAM/A	ACCAACGAGCGGCTTCACTCAGA
e14a2	204	e13	GCTGACCA	ACTCGTGTG	GTGAAAC	СТСС	ABLa2	/56-FAM/A	ACCAACGAGCGGCTTCACTCAGA
e14a3	212	e13	GCTGACCA	ACTCGTGTG	GTGAAAC	СТСС	ABLa3	/56-FAM/A	ATAAAAATTAATTTTGGTTTGGGCTTCACACCATTCC
e1a2	144	e1	TGTCCGAG	GCCACCAT	CGTG		ABLa2	/56-FAM/A	ACCAACGAGCGGCTTCACTCAGA
e1a3	153	e1	TGTCCGAG	GCCACCAT	CGTG		ABLa3	/56-FAM/A	ATAAAAATTAATTTTGGTTTGGGCTTCACACCATTCC
ABLwt	223	ABLwt	ACATCACO	CCAGTCAAC	CAGTCTG	ì	ABLwt	/56-FAM/T	CTCGGAGGAGACGTAGAGCTTG

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### Insert the PCR Plate into the Thermal Block



PrimeraDx

### Insert the PCR Plate into the Thermal Block



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### **Input the Platemap and Run Protocol**

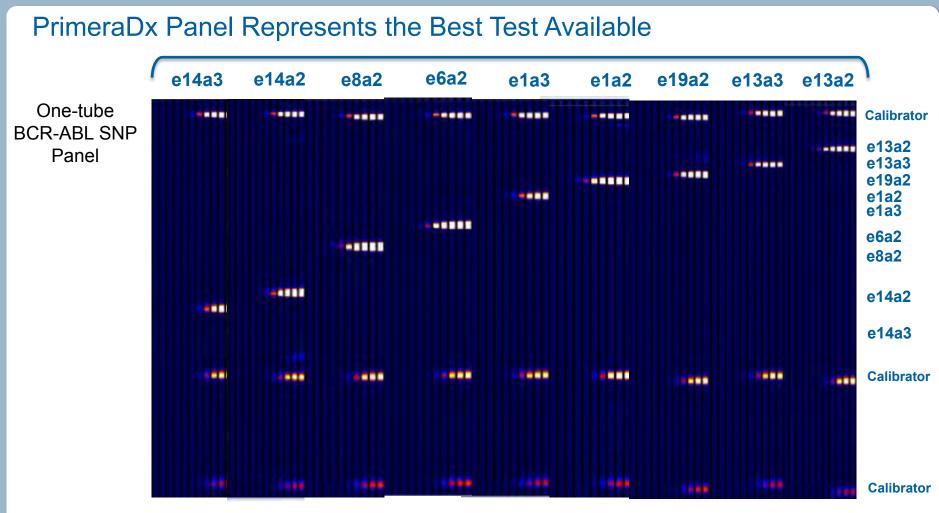


#### 2/13/2013

### **Results!**

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### **BCR-ABL Fusion Gene Assay Detects Nine Fusion Variants**



Individual plasmid target templates were detected by the single tube BCR-ABL Assay

Panels for demonstration purposes only. Not for clinical diagnostic use.



The Multiplex PCR Company