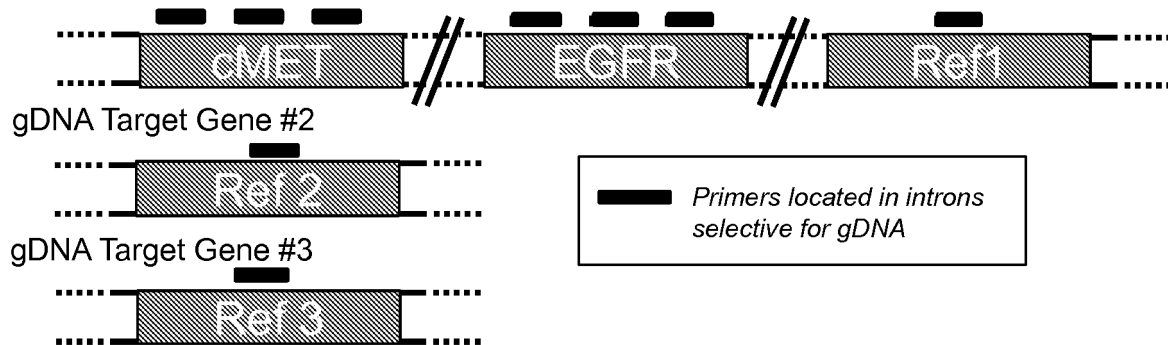


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cMET & EGFR COPY NUMBER VARIATION

gDNA Gene Targets on Chromosome 7



QUANTITATIVE cMET GENE EXPRESSION PROFILE

mRNA Target Gene #1



mRNA Target Gene #2

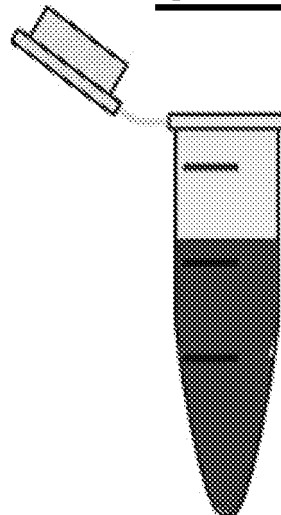


mRNA Target Gene #3



Primers spanning exon/exon junctions selective for mRNA

ONE TUBE ASSAY



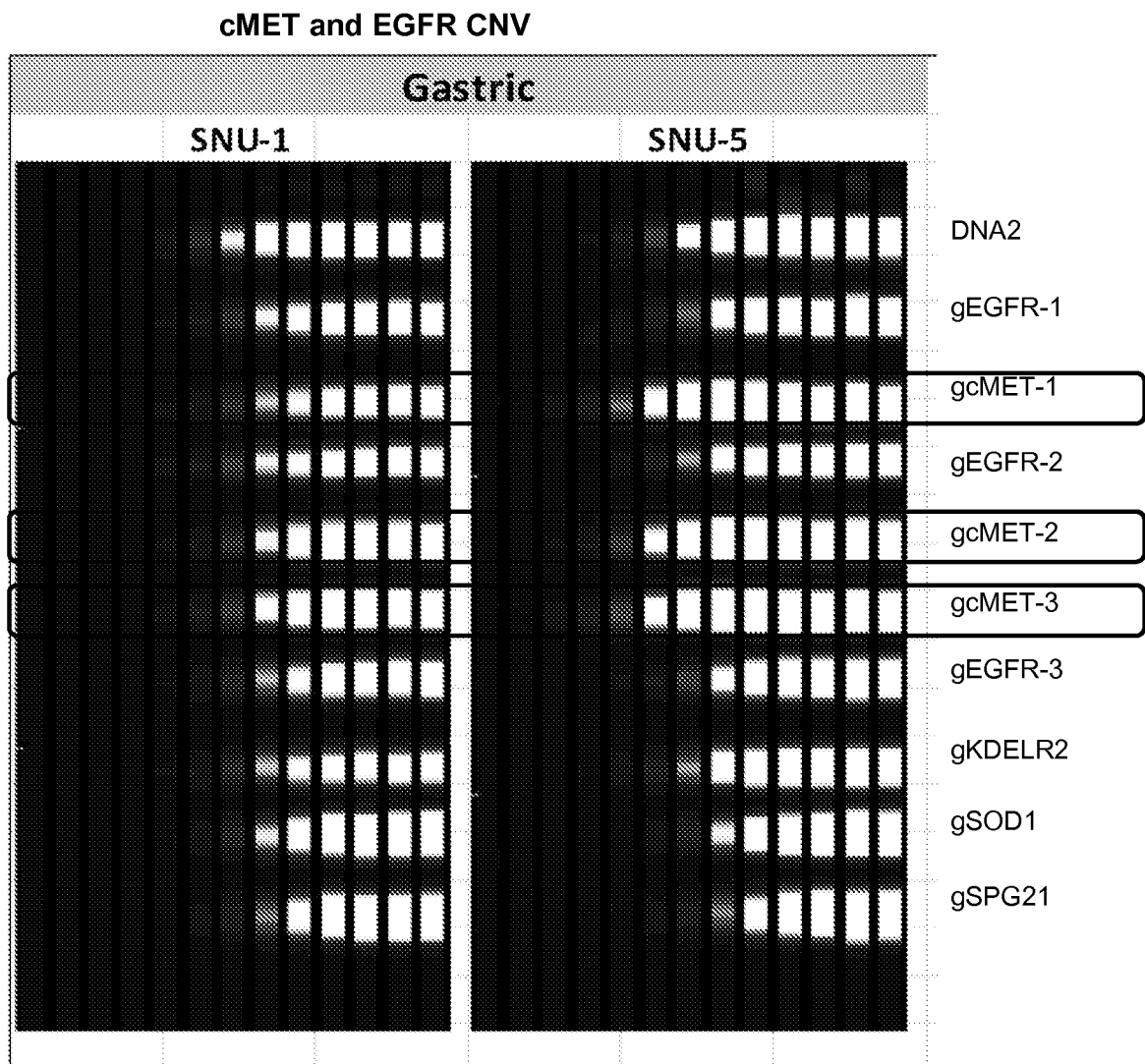
- ☐ Multi-modal
- ☐ Multiplex (18-plex)
- ☐ Quantitative
- ☐ FFPE
- ☐ PCR controls

Detects and Measures

- ☐ CNV
- ☐ Gene Expression
- ☐ Polysomy
- ☐ Reference genes

Figure 1

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cMET/EGFR CNV analysis in two gastric carcinoma cell lines:

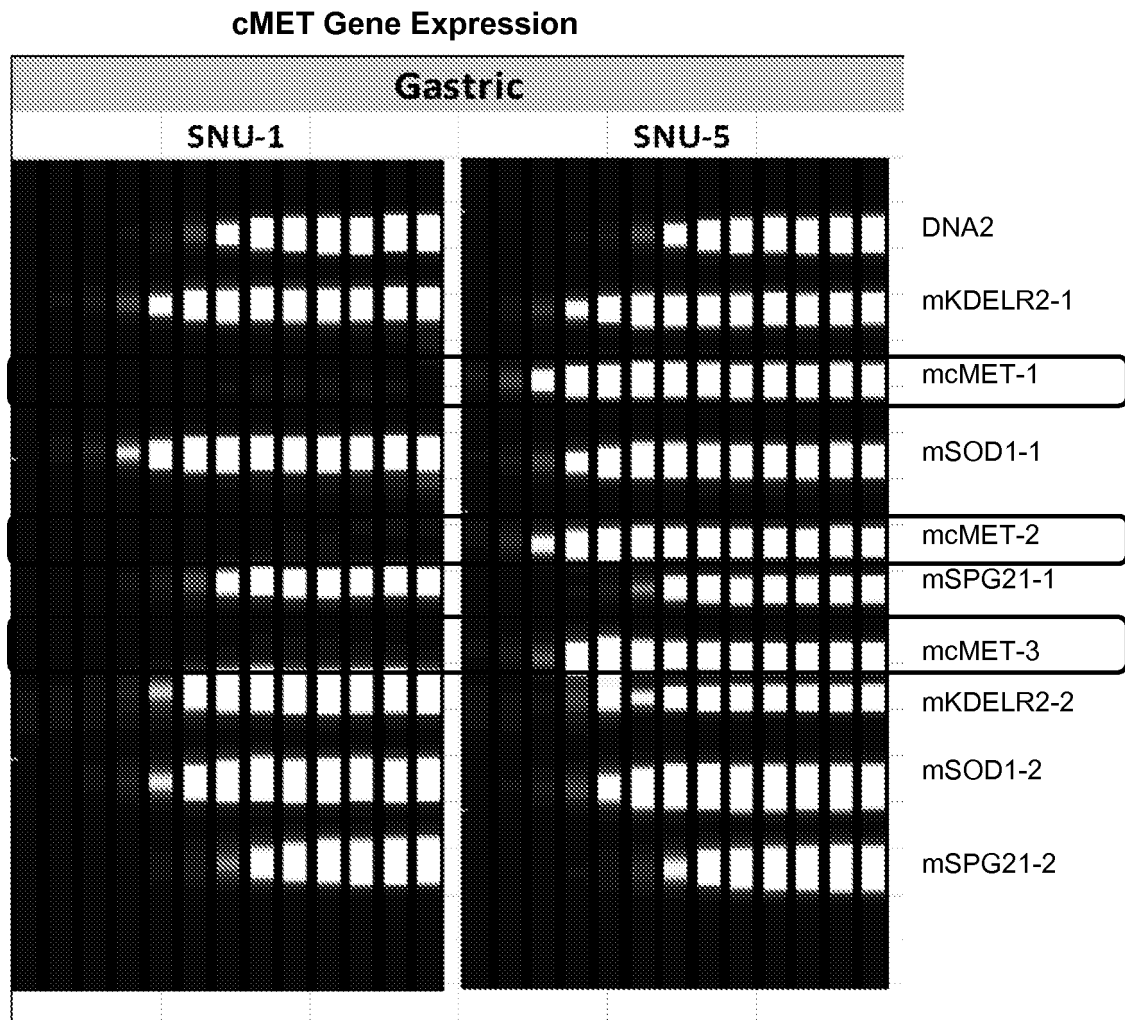
Three amplicons for each cMET and EGFR

One amplicon each for reference genes KDEL2, SOD1 & SPG21

Detection in TYE channel

Figure 2

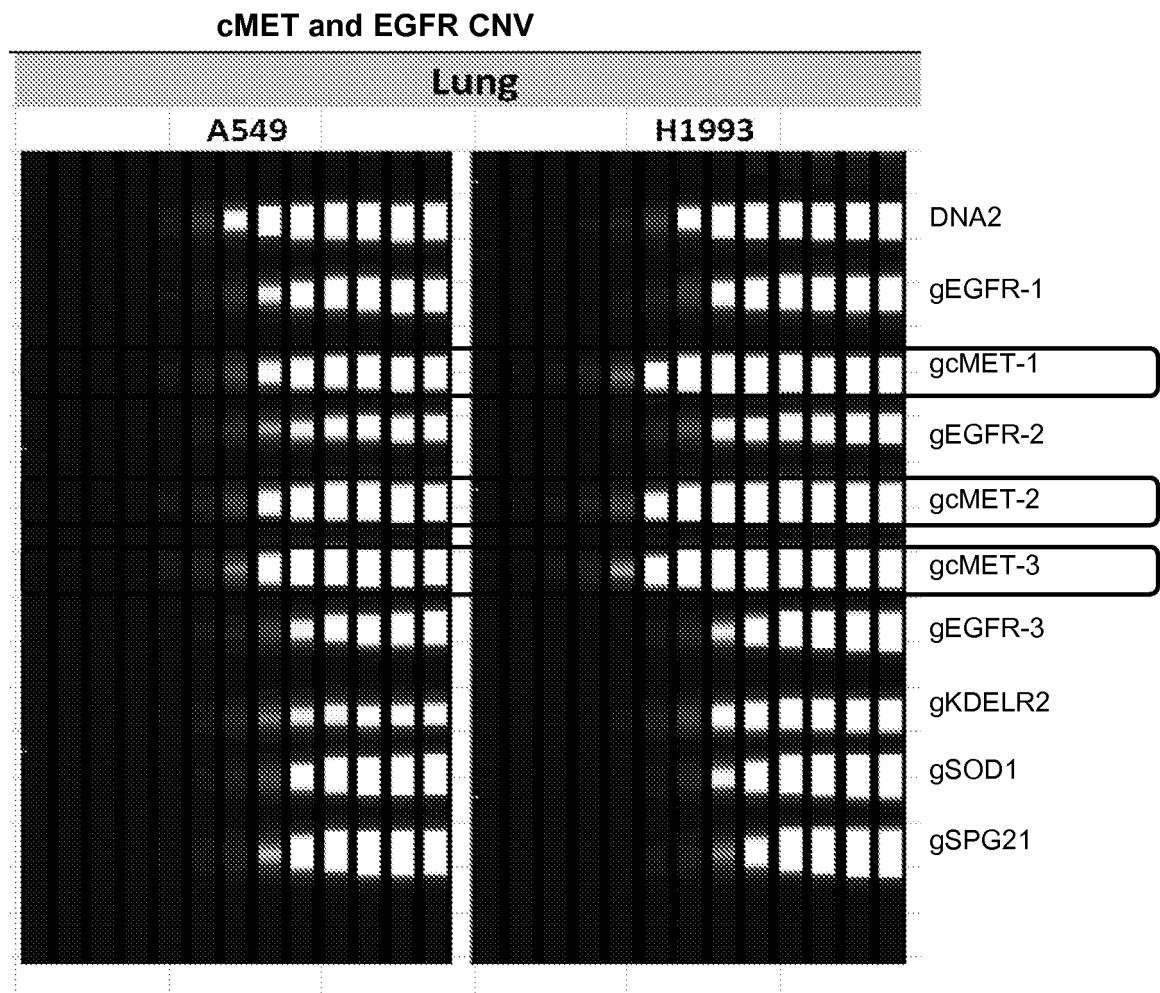
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cMET gene expression analysis in two gastric carcinoma cell lines:
Three amplicons for cMET
Two amplicons each for reference genes KDEL2, SOD1 & SPG21
Detection in FAM channel

Figure 3

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cMET/EGFR CNV analysis in two lung carcinoma cell lines:

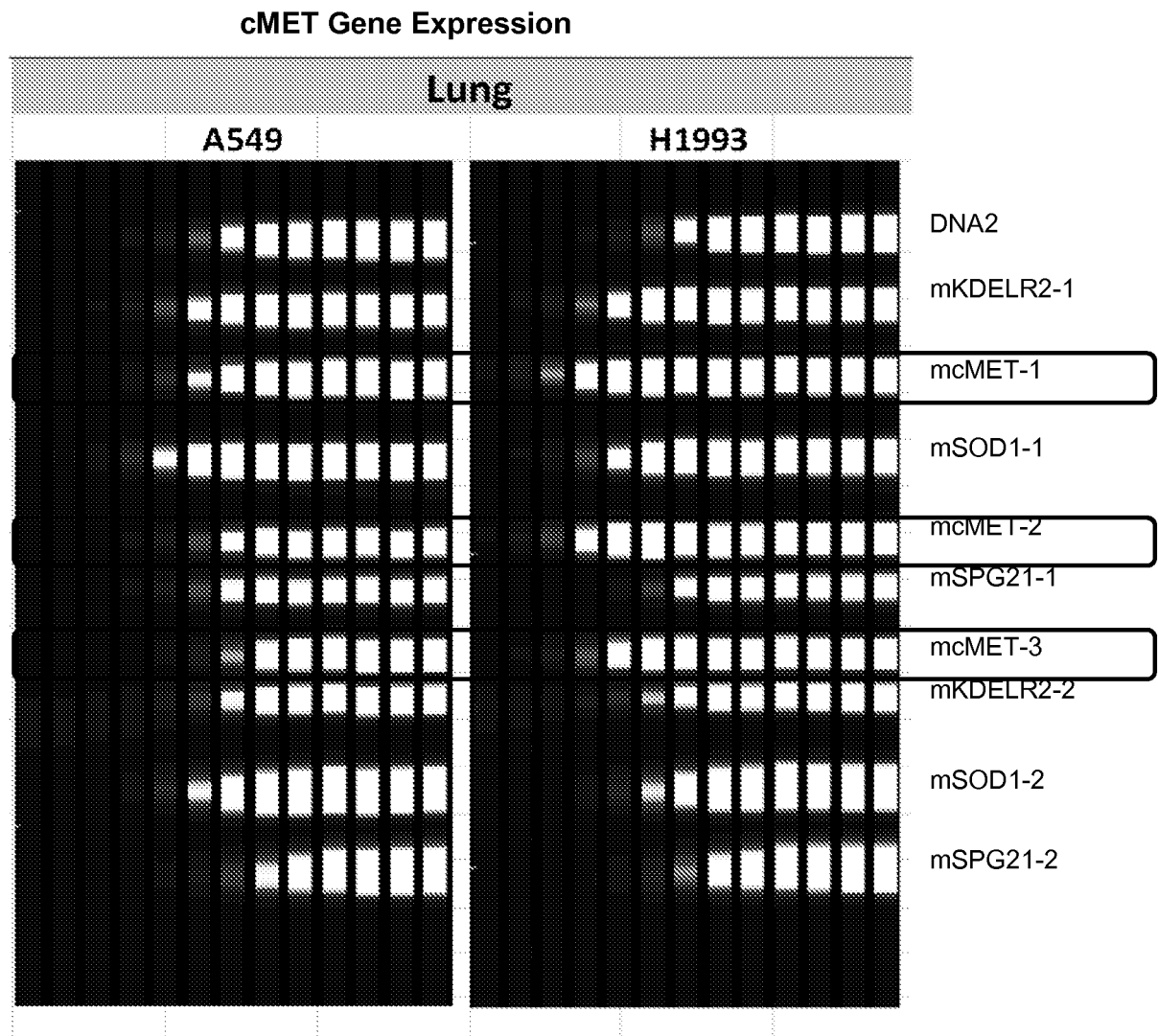
Three amplicons for each cMET and EGFR

One amplicon each for reference genes KDEL2, SOD1 & SPG21

Detection in TYE channel

Figure 4

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cMET gene expression analysis in two lung carcinoma cell lines:

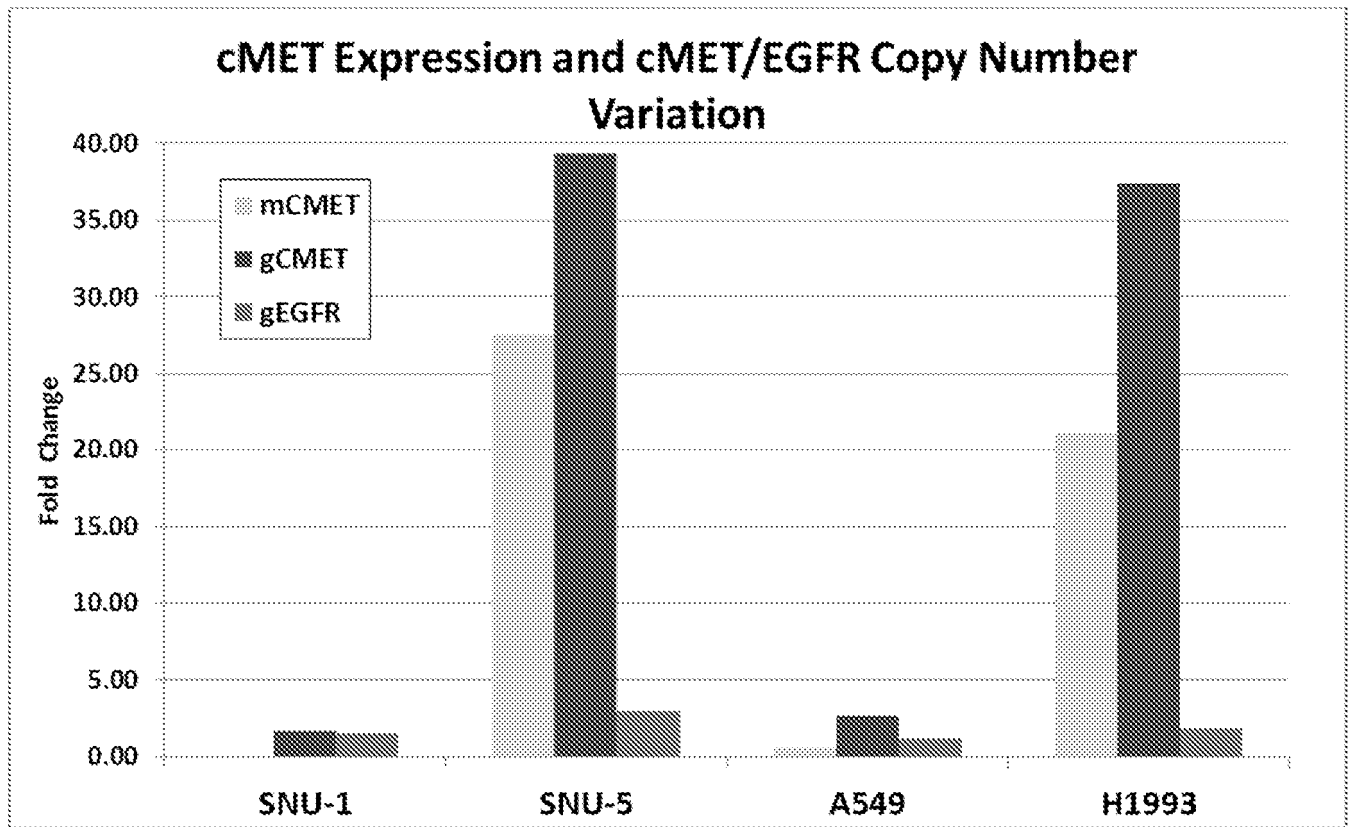
Three amplicons for cMET

Two amplicons each for reference genes KDEL2, SOD1 & SPG21

Detection in FAM channel

Figure 5

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Data were normalized to reference genes SOD1/SPG21 and expressed in fold change

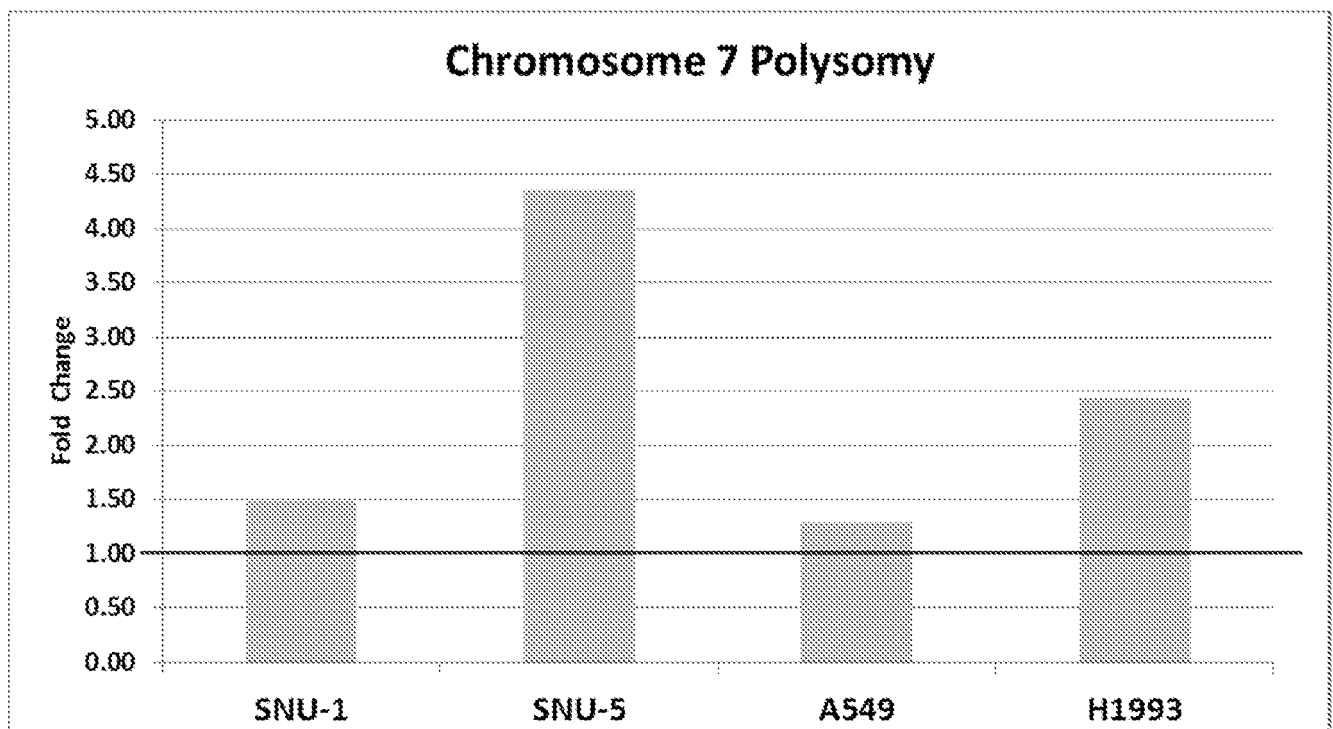
SNU-5 and H1993 show significant amplification and overexpression of cMET

No amplification/overexpression of EGFR

Figure 6

046264077471

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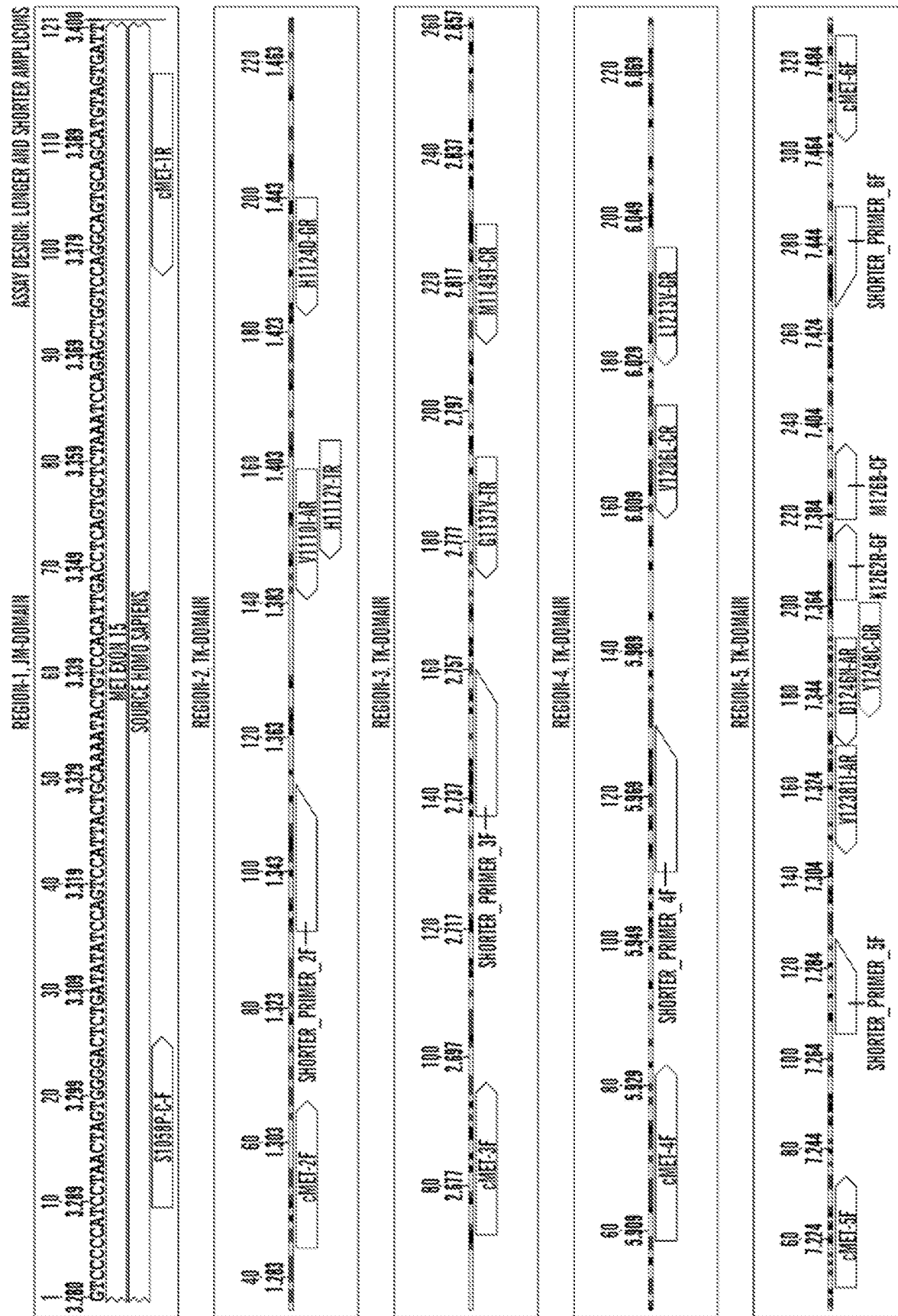


Detection of Chromosome 7 target (gKDEL2) relative to gSOD1 (Chr. 21) and gSPG21 (Chr. 15)

SNU-5 and H1993 show increased copies of gKDEL2, suggesting polysomy of chromosome 7 (~8 copies in SNU-5 and 4 copies in H1993)

Figure 7

FIG. 8



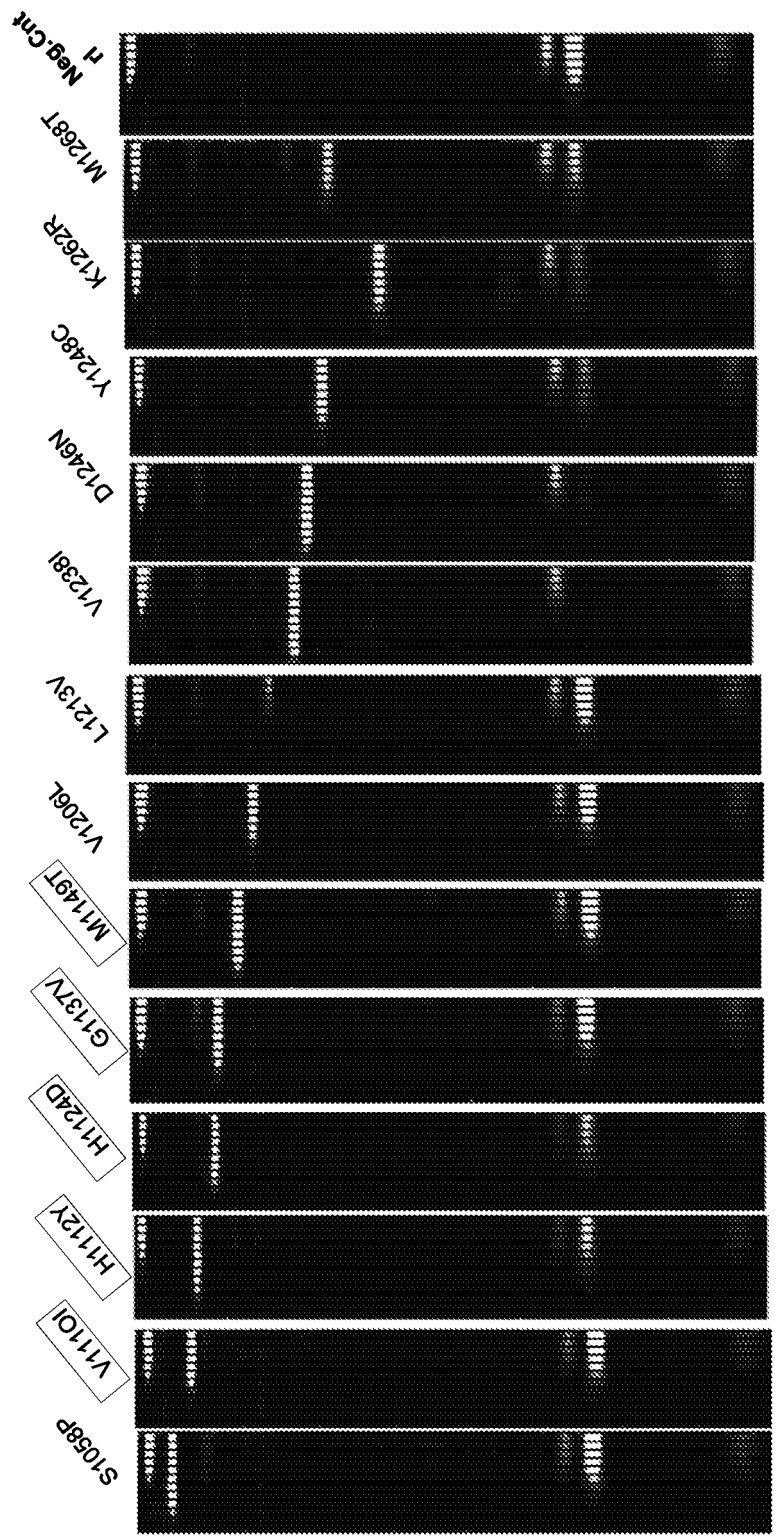


Figure 9

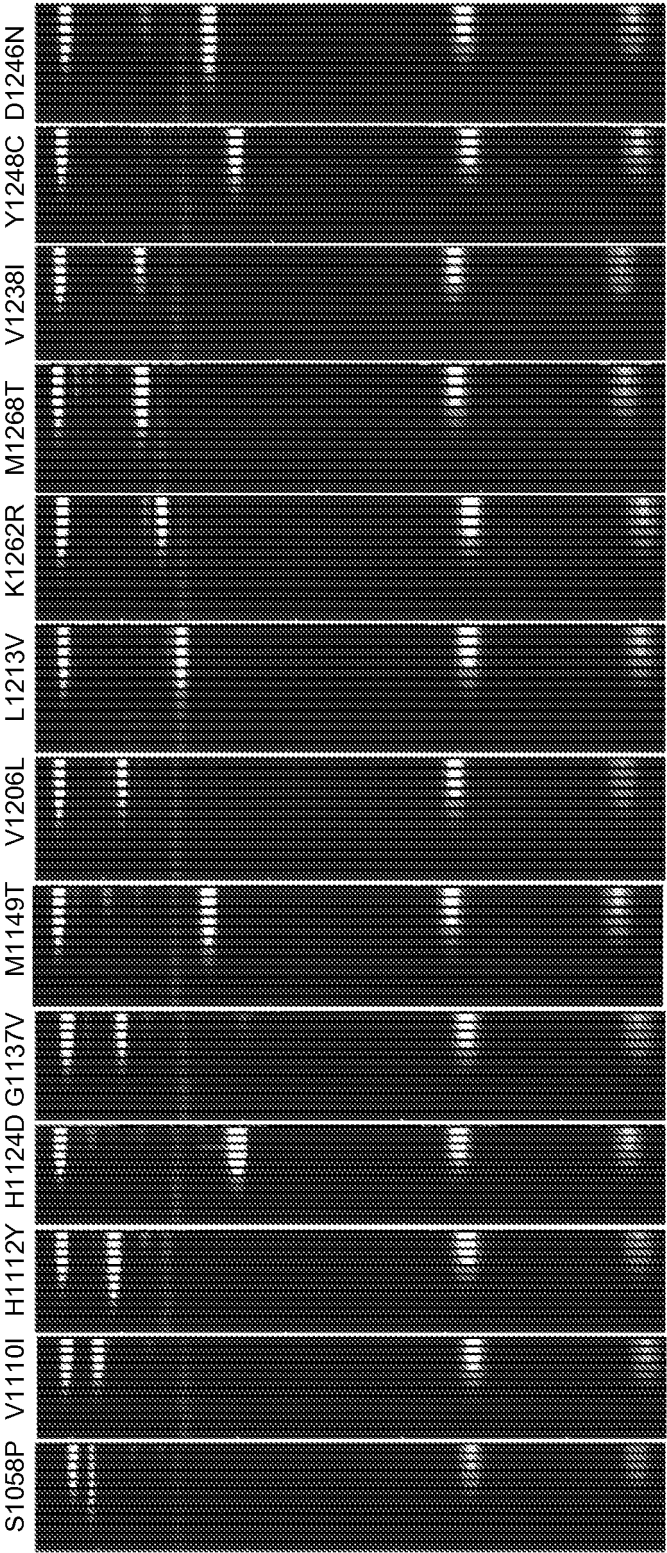


Figure 10

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PCR CYCLES: 42

CAPILLARY SEPARATIONS: 12

TIME REQUIRED: 3HR 3MIN

ANALYSIS TIME: 15-20MIN

STAGE	PRE-HEATING	REPEAT	1	TIME(S)		+	-	
STEP			96.0	C	600	SECONDS	+	-

STAGE	AMPLIFICATION	REPEAT	2	TIME(S)		+	-	
STEP			54.0	C	45	SECONDS	+	-
STEP			72.0	C	45	SECONDS	+	-
STEP			96.0	C	20	SECONDS	+	-

STAGE	AMPLIFICATION	REPEAT	16	TIME(S)		+	-	
STEP			64.0	C	45	SECONDS	+	-
STEP			72.0	C	45	SECONDS	+	-
STEP			98.0	C	5	SECONDS	+	-

STAGE	AMPLIFICATION WITH INJECTION	REPEAT	28	TIME(S)		+	-		
STEP			64.0	C	45	SECONDS	○ INJECTION	+	-
STEP			72.0	C	100	SECONDS	○ INJECTION	+	-
STEP			72.0	C	50	SECONDS	● INJECTION	+	-
STEP			72.0	C	70	SECONDS	○ INJECTION	+	-
STEP			96.0	C	10	SECONDS	○ INJECTION	+	-

FIG. 11