

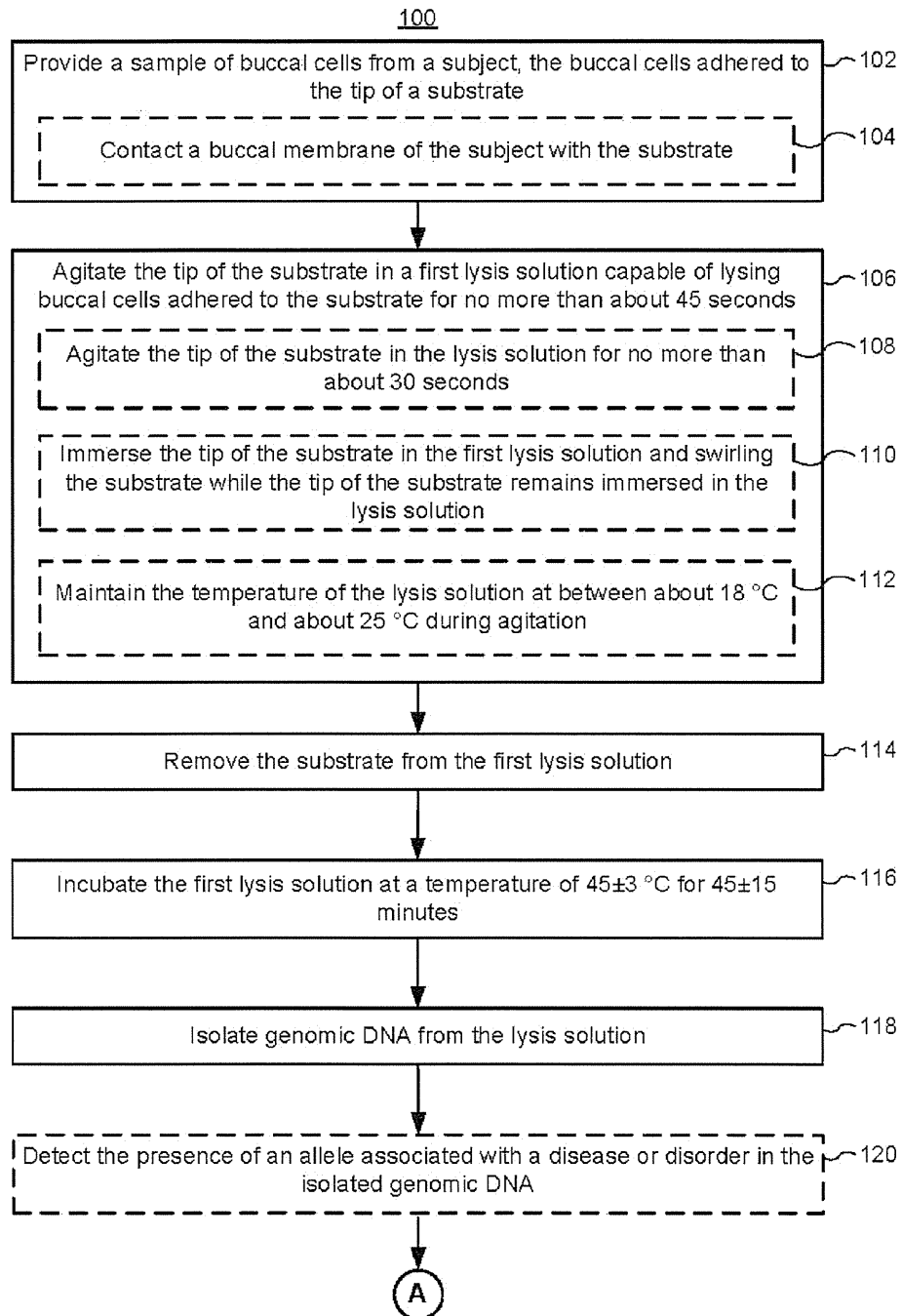


Figure 1A

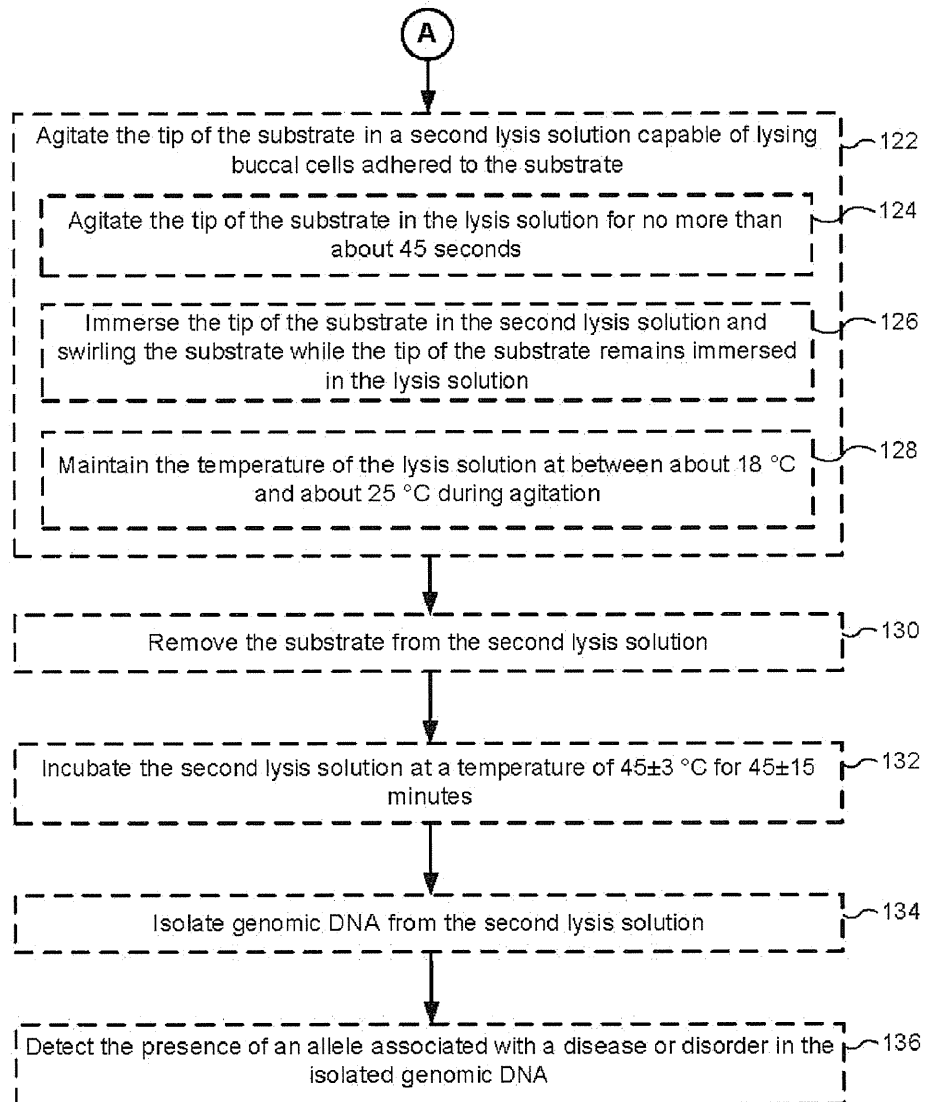


Figure 1B

ACD Fw primer: (SEQ ID NO: 1) 5'-TCC ACC ACC ACT CAG CTG TA	ACD Fw5 primer: (SEQ ID NO: 13) 5'-TTT GGG CTT TCC CAC ATG C
ACD Re primer: (SEQ ID NO: 2) 5'-CCA TCT CAG GCC TCA GCT T (60 bp)	ACD Re5 primer: (SEQ ID NO: 14) 5'-GGC AGA CGG AGG TCA TCT CA
AV Fw primer: (SEQ ID NO: 3) 5'-TGC AGC CCT ACC ACT CTC AA	ACD Fw6 primer: (SEQ ID NO: 15) 5'-GTA GTA CCG TGC TCT CTG
AV Re primer: (SEQ ID NO: 4) 5'-AGG CCT CGT TGC TAG G (150 bp)	ACD Re6 primer: (SEQ ID NO: 16) 5'-AGT TCC CCA TAA GAA TCC CCC
Real Fw primer: (SEQ ID NO: 5) 5'-TAG TCT CTT ATT CTA ATA GA	ACD Fw7 primer: (SEQ ID NO: 17) 5'-GGC TGG ACC CCC AGA GG
Real Re primer: (SEQ ID NO: 6) 5'-GCT GCA GAC TCT GTG TTT AA (860 bp)	ACD Re7 primer: (SEQ ID NO: 18) 5'-ACC CCT CGG GGA AGT AAG G
ACD Fw2 primer: (SEQ ID NO: 7) 5'-CCA TCC CTC CTT CTG TCT TCT G	ACD Fw8 primer: (SEQ ID NO: 19) 5'-AAC CTT TAC GAG ACC CTG GGA
ACD Re2 primer: (SEQ ID NO: 8) 5'-CGG GCC CCT CCA TCT C (140 bp)	ACD Re8 primer: (SEQ ID NO: 20) 5'-GAC TCC CAT CCA TCA TGC CC
ACD Fw3 primer: (SEQ ID NO: 9) 5'-CAG AGA AGG GAG GGT GTG GTT	ACD Fw9 primer: (SEQ ID NO: 21) 5'-AGT CGT TGG ATC CAC CAC CA
ACD Re3 primer: (SEQ ID NO: 10) 5'-GGG CGA AGA TGG TGA AGC T (190 bp)	ACD Re9 primer: (SEQ ID NO: 22) 5'-GAC GTC ATT TCC TAC TGT TTC AGG
ACD Fw4 primer: (SEQ ID NO: 11) 5'-TCC TCG TCC TCT CCA CCT GTA	ACD Fw10 primer: (SEQ ID NO: 23) 5'-CCC CCC AGA AAC AGC CTG
ACD Re4 primer: (SEQ ID NO: 12) 5'-AGC TGG CAA GGA GGC CC	ACD Re10 primer: (SEQ ID NO: 24) 5'-TTC TAA GGG GTT AAG GAG AAA GCT T

Figure 2

<p>Normal probe 1: (SEQ ID NO: 25) VIC-CAC GGA CCG CAC GGA-NFQ (15 bp)</p> <p>Mutant probe 1: (SEQ ID NO: 26) FAM-CAC GGA CCA CAC GGA-NFQ</p> <p>Normal probe 2: (SEQ ID NO: 27) VIC-ACA CGG ACC GCA CG-NFQ</p> <p>Mutant probe 2: (SEQ ID NO: 28) FAM-ACA CGG ACC ACA CG-NFQ (14 bp)</p> <p>Normal probe 3: (SEQ ID NO: 29) VIC-TAC ACG GAC CGC A-NFQ</p> <p>Mutant probe 3: (SEQ ID NO: 30) FAM-TAC ACG GAC CAC A-NFQ (13 bp)</p> <p>Normal probe 4: (SEQ ID NO: 31) VIC-CTG TAC ACG GAC CGC ACG-NFQ</p> <p>Mutant probe 4: (SEQ ID NO: 32) FAM-CTG TAC ACG GAC CAC ACG-NFQ (18 bp)</p>	<p>Normal probe 5: (SEQ ID NO: 33) VIC-CTG TAC ACG GAC CGC ACG GAG-NFQ</p> <p>Mutant probe 5: (SEQ ID NO: 34) FAM-CTG TAC ACG GAC CAC ACG GAG-NFQ (21 bp)</p> <p>Normal probe 6: (SEQ ID NO: 35) VIC-GCT GTA CAC GGA CCG CAC GGA GAA-NFQ</p> <p>Mutant probe 6: (SEQ ID NO: 36) FAM-GCT GTA CAC GGA CCA CAC GGA GAA-NFQ</p> <p>Normal probe 7: (SEQ ID NO: 37) VIC-ACC GCA CGG AGA AGC-NFQ</p> <p>Mutant probe 7: (SEQ ID NO: 38) FAM-ACC ACA CGG AGA AGC-NFQ</p> <p>Normal probe 8: (SEQ ID NO: 39) VIC-ACC GCA CGG AGA AGC TGA GGC-NFQ</p> <p>Mutant probe 8: (SEQ ID NO: 40) FAM-ACC ACA CGG AGA AGC TGA GGC-NFQ</p> <p>Normal probe 8: (SEQ ID NO: 41) VIC-ACC GCA CGG AGA AGC TGA GGC CTG-NFQ</p> <p>Mutant probe 8: (SEQ ID NO: 42) FAM-ACC ACA CGG AGA AGC TGA GGC CTG-NFQ</p>
---	---

Figure 3

TaqMan MGB PROBE

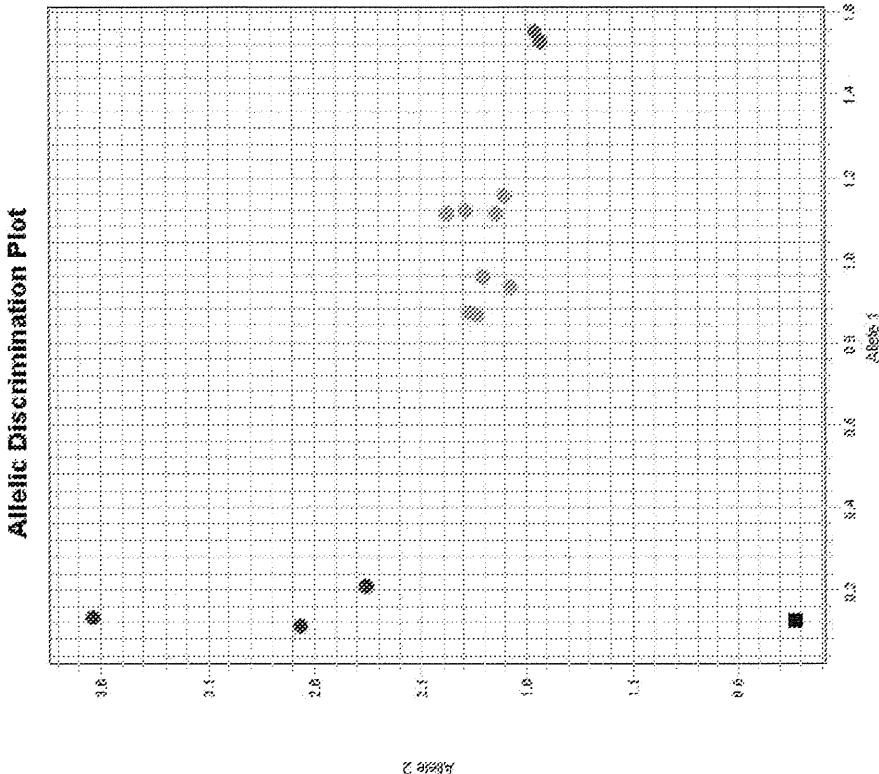
#TGFB1 R124NI	VIC-CAC GGA CCG CAC GGA- MGB NFQ
#TGFB1 R124H	FAM-CAC GGA CCA CAC GGA- MGB NFQ
#TGFB1 R124C	FAM-CAC GGA CTG CAC GGA- MGB NFQ
#TGFB1 R124L	FAM-CAC GGA CCT CAC GGA- MGB NFQ
#TGFB1 R555NI	VIC-CAC CAA GAG AAC GGA-MGB NFQ
#TGFB1 R555W	FAM-CAC CAA GAG AAT GG-MGB NFQ
#TGFB1 R555Q-1	FAM-AC CAA GAG AAC AGA G-MGB NFQ

SEQUENCE DETECTION PRIMER

#TGFB1 124 F	TCC ACC ACC ACT CAG CTG TA
#TGFB1 124 R	CCA TCT CAG GCC TCA GCT T
#TGFB1 555 F	ACA CAG TCT TTG CTC CCA CAA A
#TGFB1 555 R	ACT TAA GTT GGT CTT TAC CCA AGA GTC T

Figure 4

DATA A >> LifeTech/7500FAST; fast mode



All reagent extract (whole blood)			
GTXpress taq			3.00 ul
Primer(124R)	10pmol		10.00 ul
Primer(124F)	10pmol		0.50 ul
Primer(555R)	10pmol		0.50 ul
Primer(555F)	10pmol		0.50 ul
Probe(NL/VIC)	10pmol		0.20 ul
Probe(R124H/FAM)	10pmol		0.40 ul
Probe(R124C/FAM)	10pmol		0.20 ul
Probe(R124L/FAM)	10pmol		0.60 ul
Probe(R555N/VIC)	10pmol		0.20 ul
Probe(R555Q-1/FAM)	10pmol		0.20 ul
Probe(R555W/FAM)	10pmol		0.20 ul
DW			3.00 ul

Pre-read	Hold stage	Cycling stage	Post-read
60°C	95°C	40 cycle	
1min	20sec	95°C 3sec	60°C 1min

Figure 5A

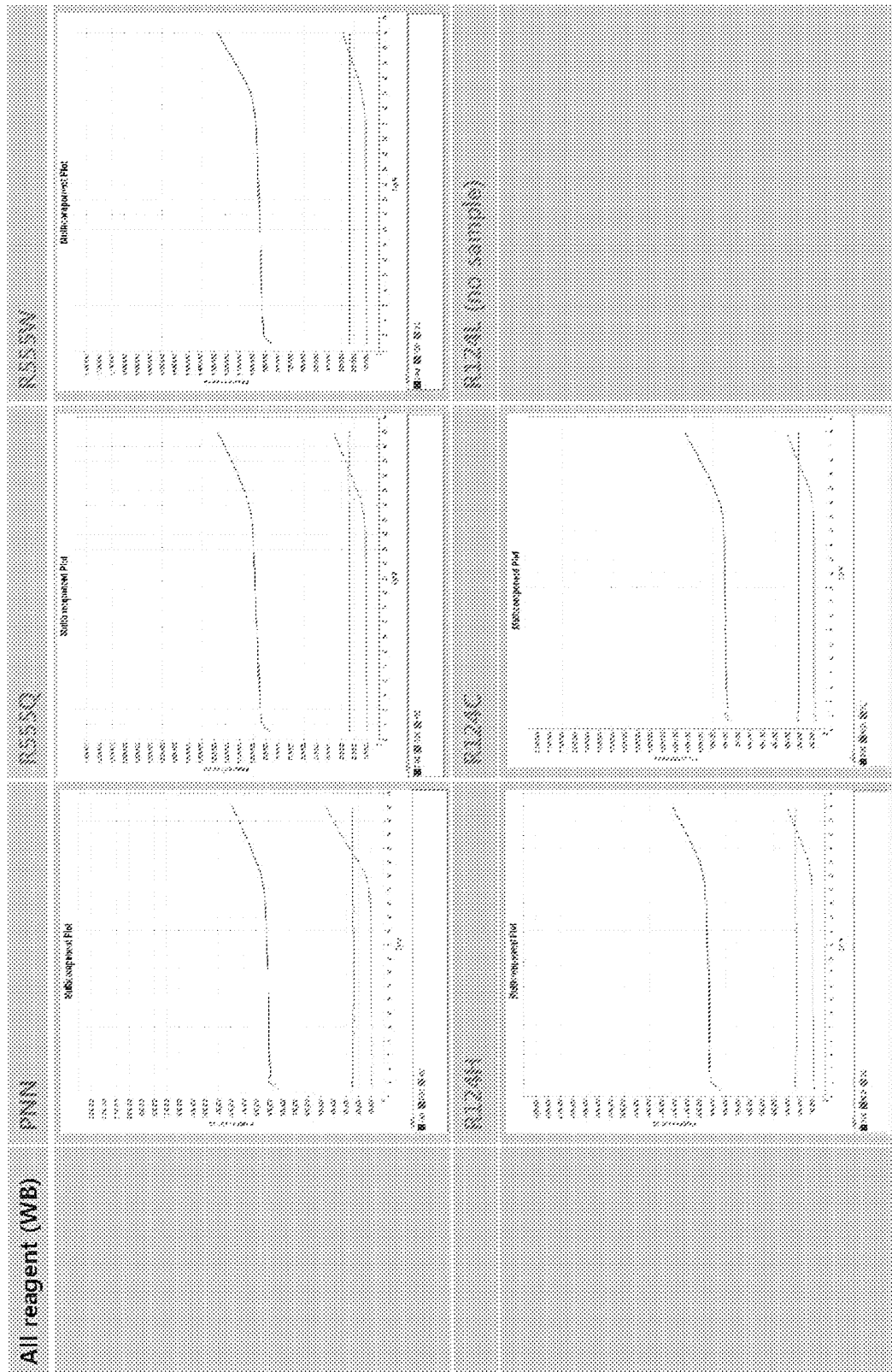


Figure 5B

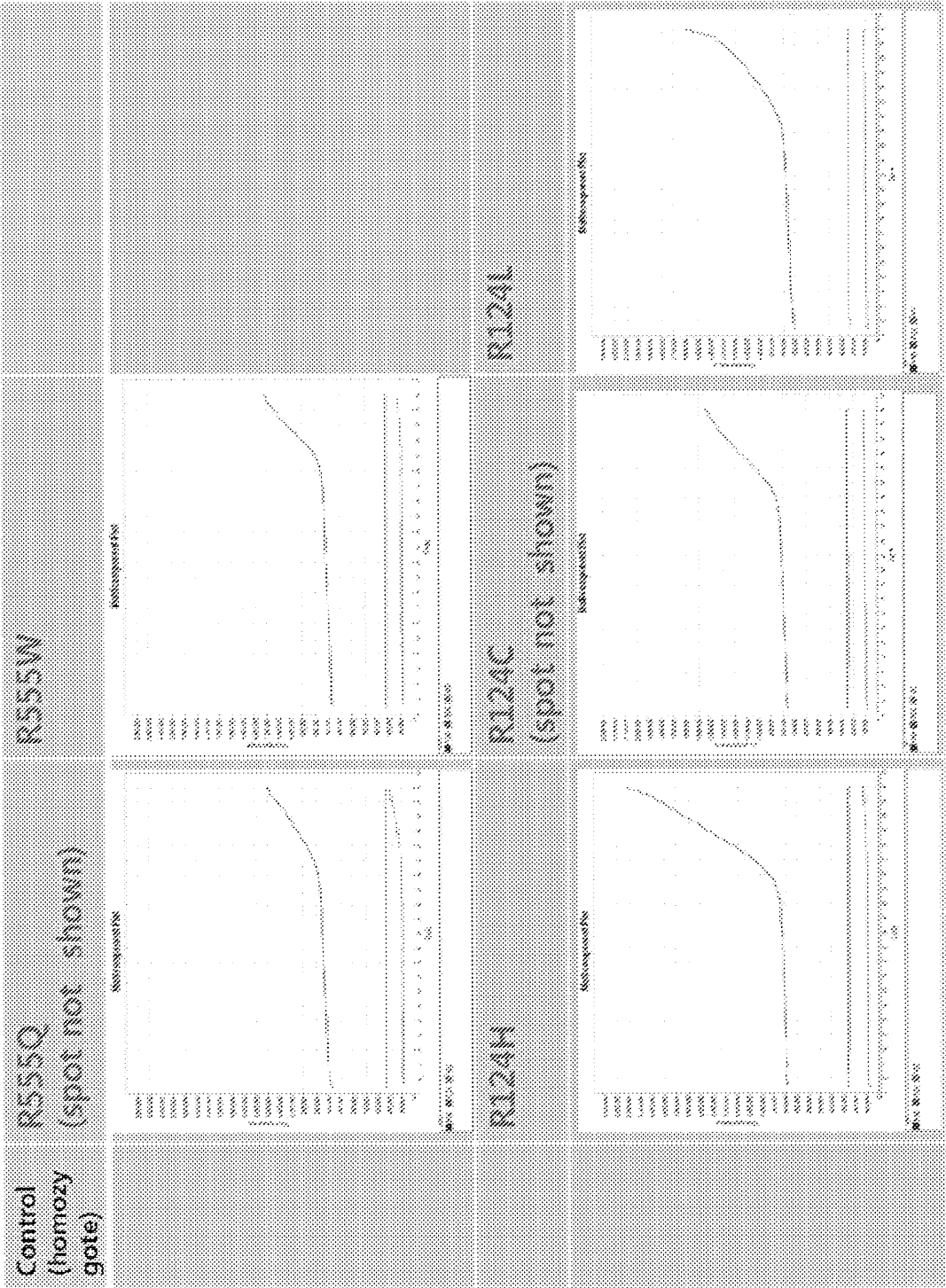
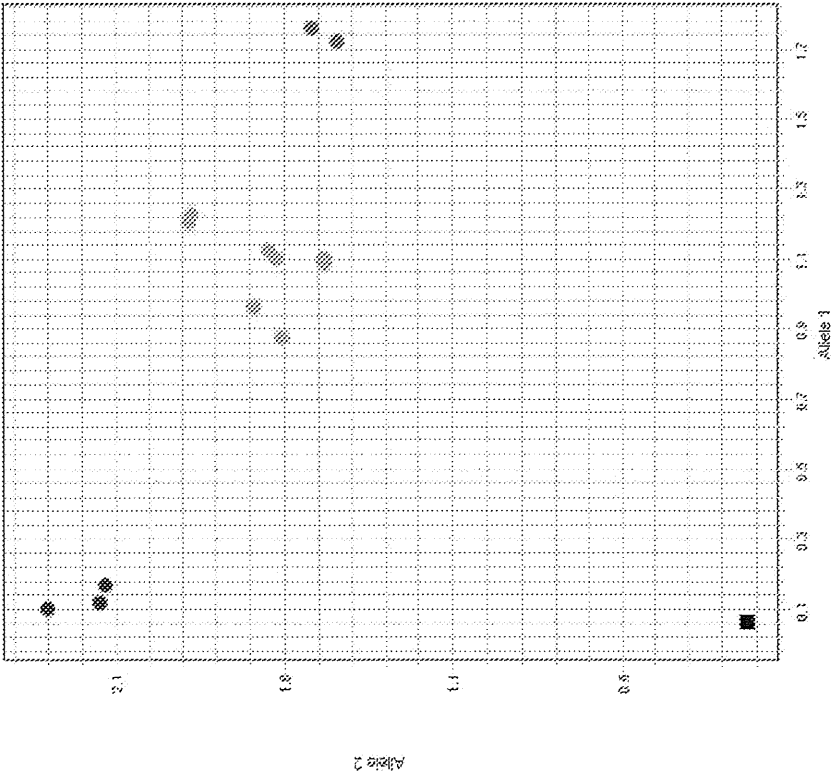


Figure 5C

DATA B >> LifeTech/7500FAST; fast mode

Allelic Discrimination Plot



All reagent extract (whole blood)	3.00	ul
GTExpress taq	10.00	ul
Primer(124R)	10pmol	ul
Primer(124F)	10pmol	ul
Primer(555R)	10pmol	ul
Primer(555F)	10pmol	ul
Probe(NL/VIC)	10pmol	ul
Probe(R124H/FAM)	10pmol	ul
Probe(R124C/FAM)	10pmol	ul
Probe(R124L/FAM)	10pmol	ul
Probe(R555N/VIC)	10pmol	ul
Probe(R555Q-1/FAM)	10pmol	ul
Probe(R555W/FAM)	10pmol	ul
DW	3.20	ul

Pre-read	Hold stage	Cycling stage	Post-read
60°C	95°C	40 cycle	
1min	20sec	95°C 3sec	60°C 1min

Figure 6A

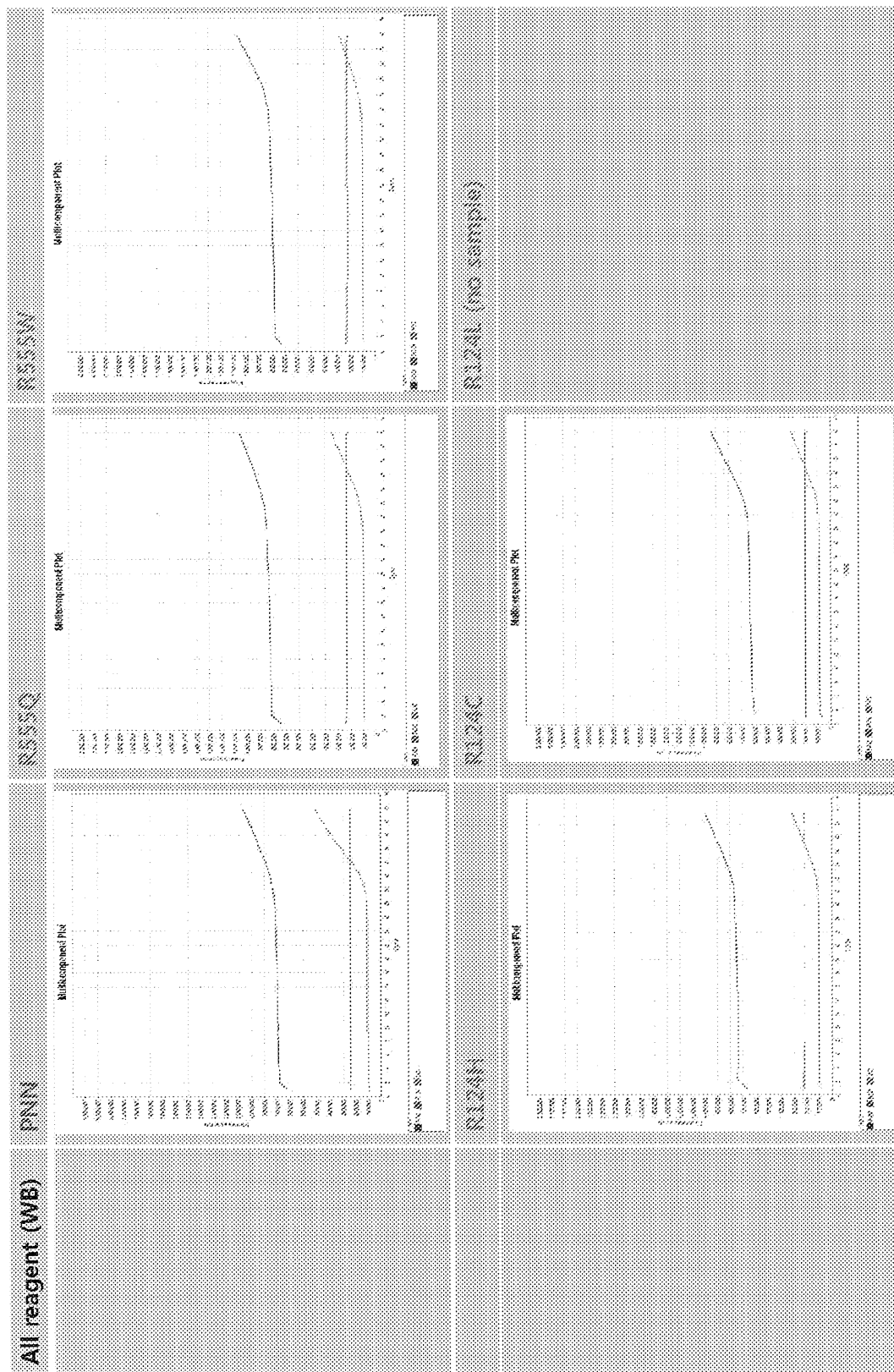


Figure 6B

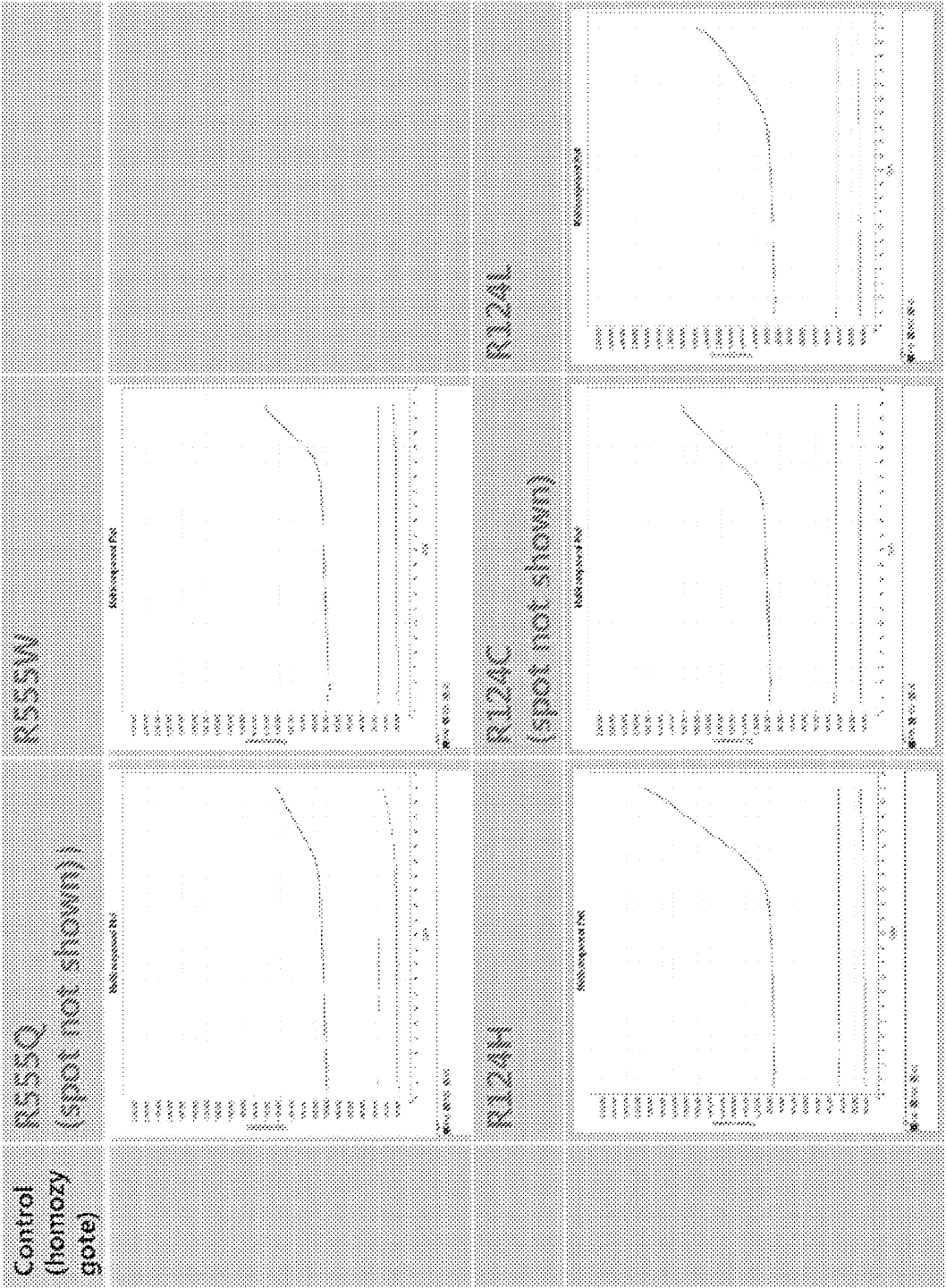


Figure 6C

DATA C >> LifeTech/7500FAST; fast mode

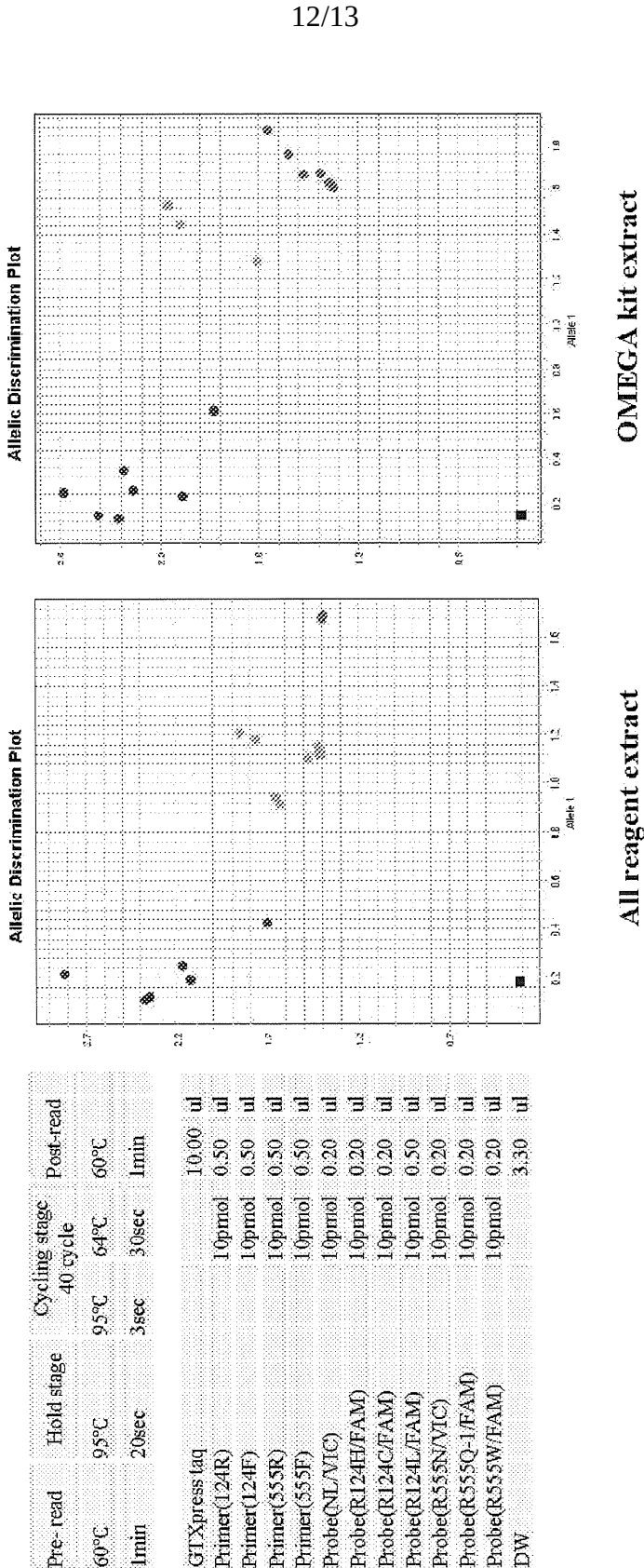
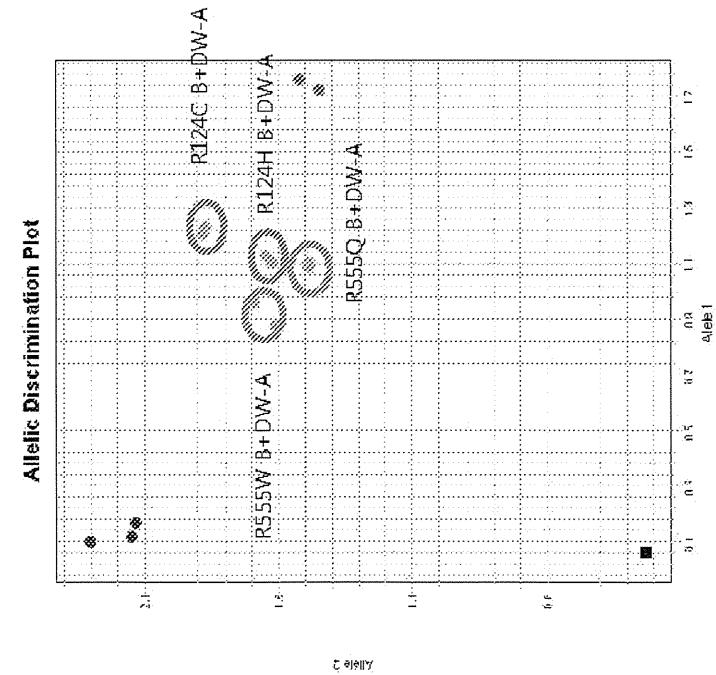


Figure 7

DATA B >> LifeTech/7500FAST; fast mode



All reagent extract (whole blood)		3.00	ul
GTXpress taq		10.00	ul
Primer(124R)	10pmol	0.50	ul
Primer(124F)	10pmol	0.50	ul
Primer(555R)	10pmol	0.50	ul
Primer(555F)	10pmol	0.50	ul
Probe(NL/VIC)	10pmol	0.20	ul
Probe(R124H/FAM)	10pmol	0.30	ul
Probe(R124C/FAM)	10pmol	0.20	ul
Probe(R124L/FAM)	10pmol	0.50	ul
Probe(R555N/VIC)	10pmol	0.20	ul
Probe(R555Q-1/FAM)	10pmol	0.20	ul
Probe(R555W/FAM)	10pmol	0.20	ul
DW		3.20	ul

Pre-read	Hold stage	Cycling stage	Post-read
60°C	95°C	40 cycle	60°C
1min	20sec	3sec	1min

Figure 8