

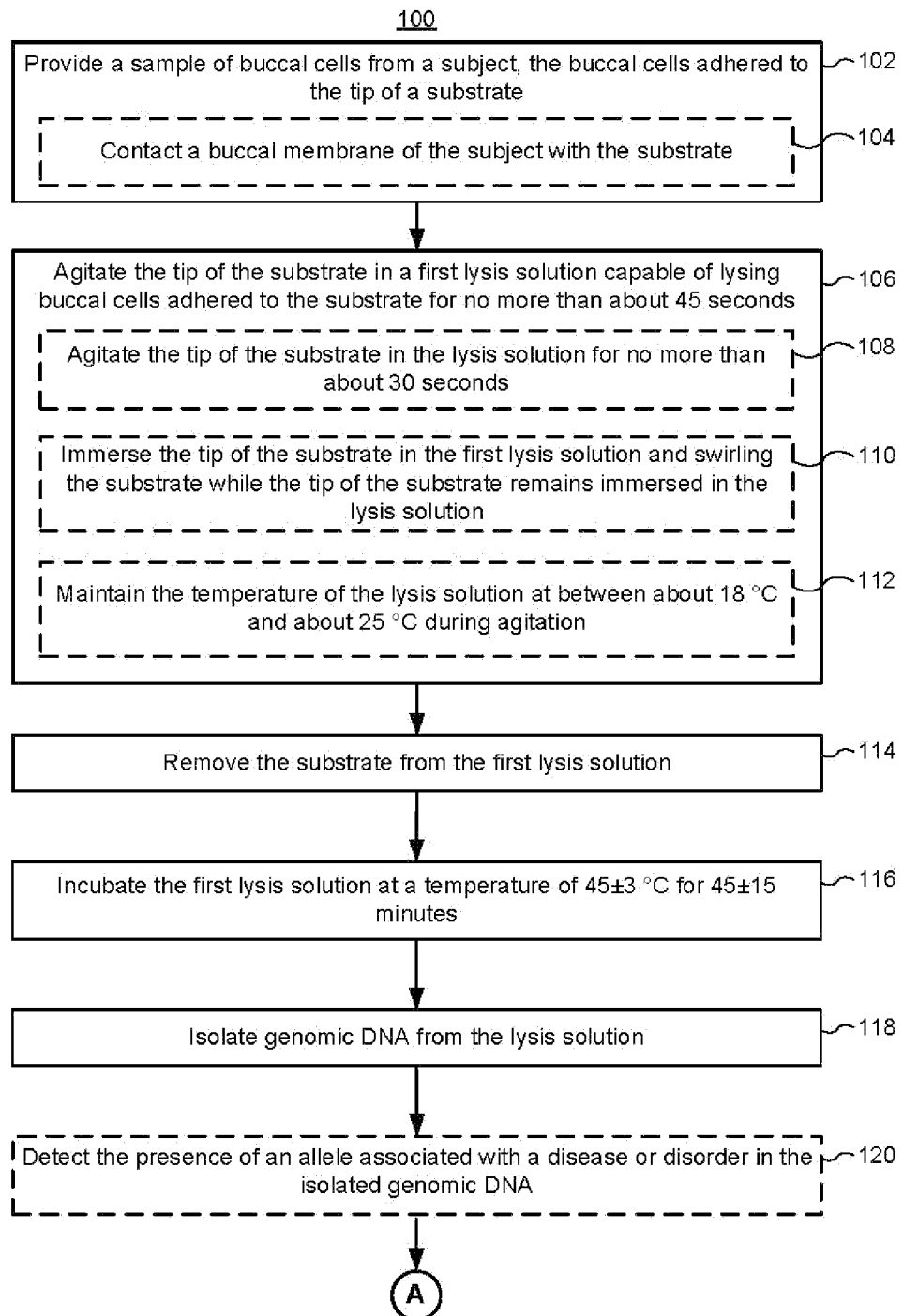


Figure 1A

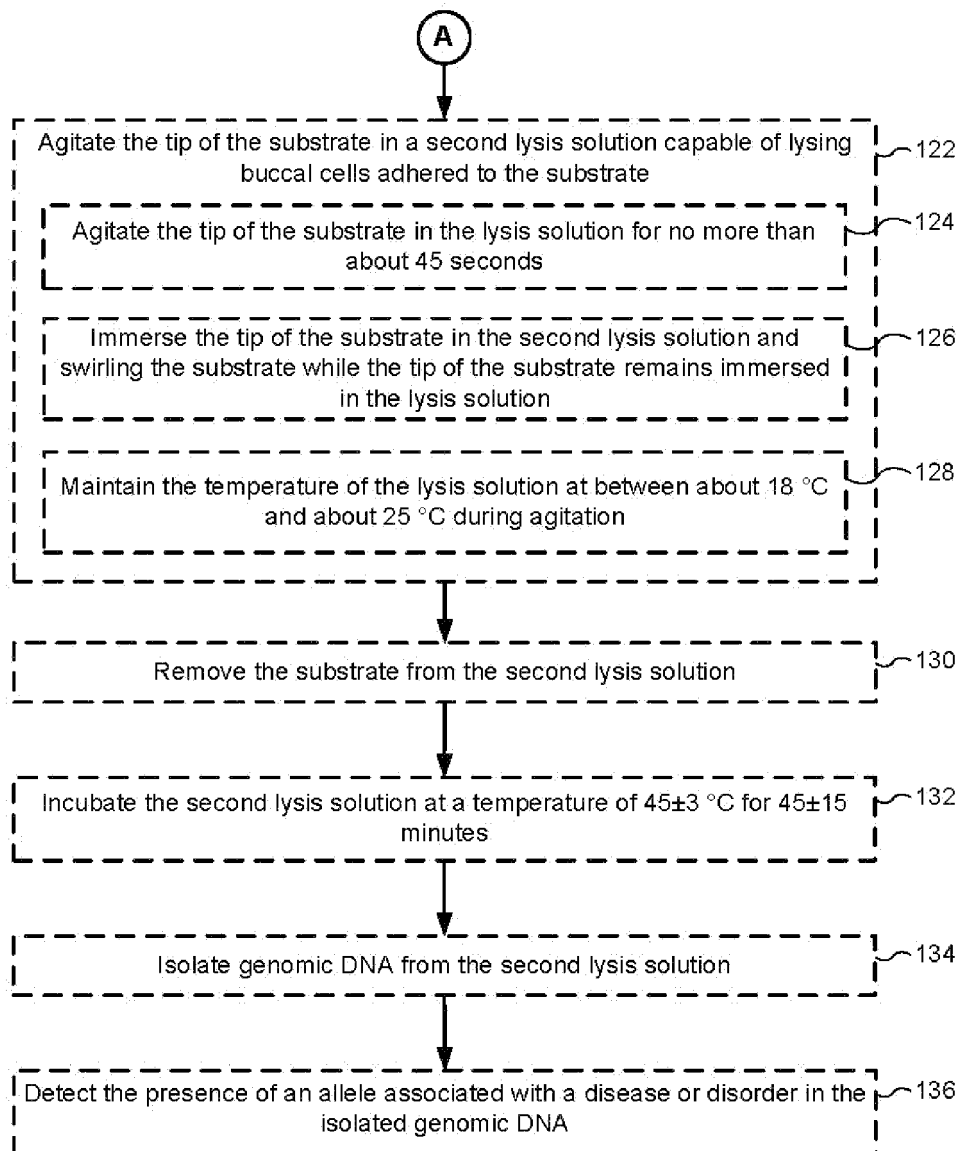


Figure 1B

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

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

Figure 3

TaqMan MGB PROBE

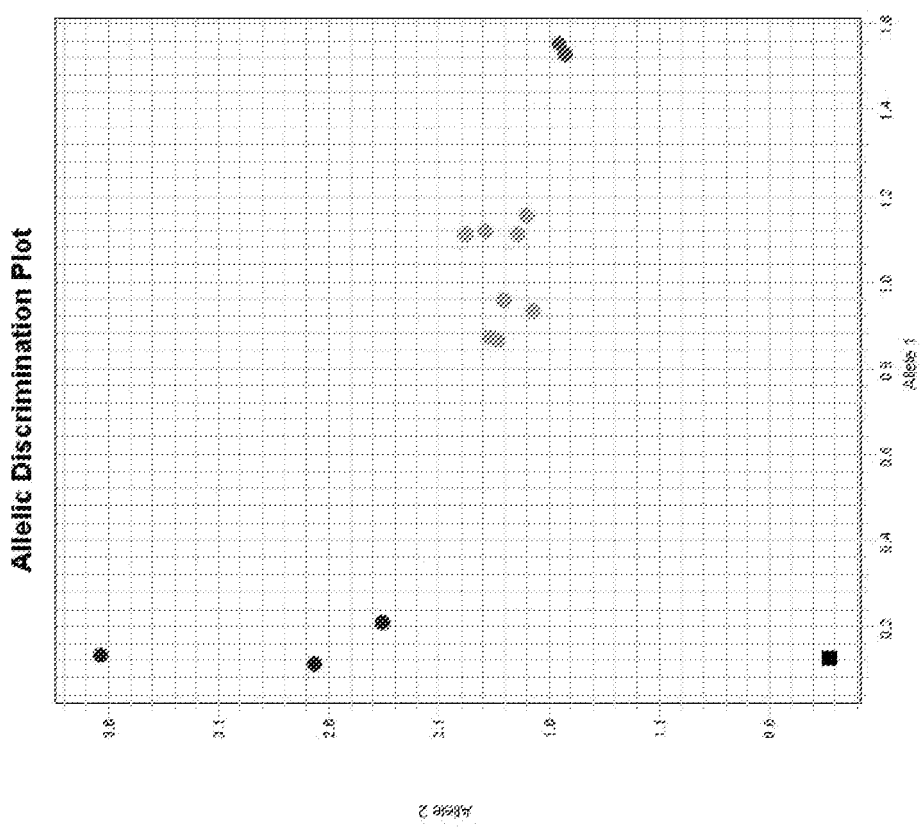
#TGFB1 R124N	VIC-CAC GGA CCG CAC GGA- MGB NFQ
#TGFB1 R124H	FAM-CAC GGA CCA CAC GGA- MGB NFQ
#TGFB1 R124C	FAM-CAC GGA CTG CAC GGA- MGB NFQ
#TGFB1 R124L	FAM-CAC GGA CCT CAC GGA- MGB NFQ
#TGFB1 R555N	VIC-CAC CAA GAG AAC GGA-MGB NFQ
#TGFB1 R555W	FAM-CAC CAA GAG AAT GG-MGB NFQ
#TGFB1 R555Q-1	FAM-AC CAA GAG 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)			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	0.40	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
		40 cycle	
60°C	95°C	95°C	60°C
1min	20sec	3sec	1min

Figure 5A

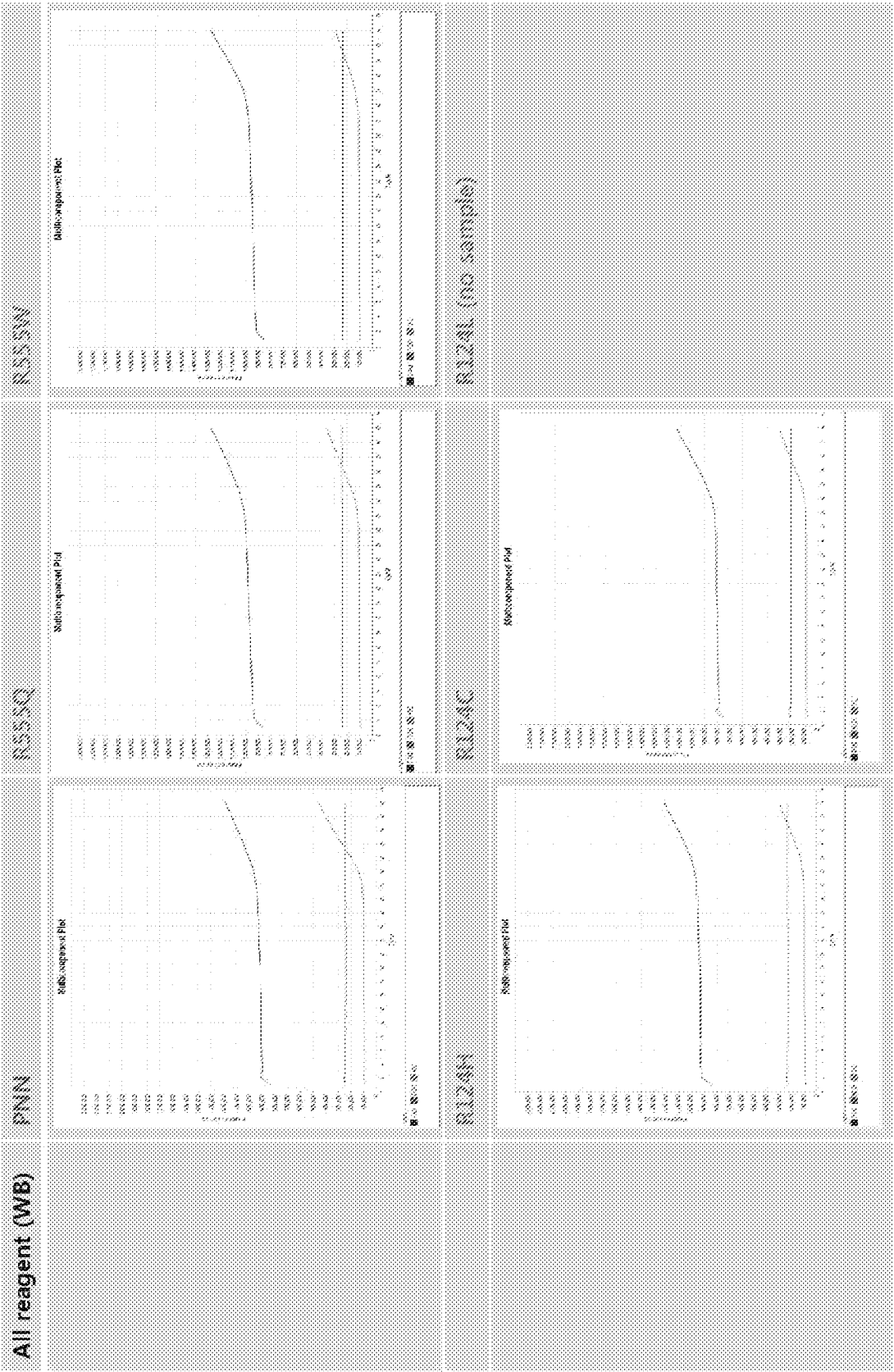


Figure 5B

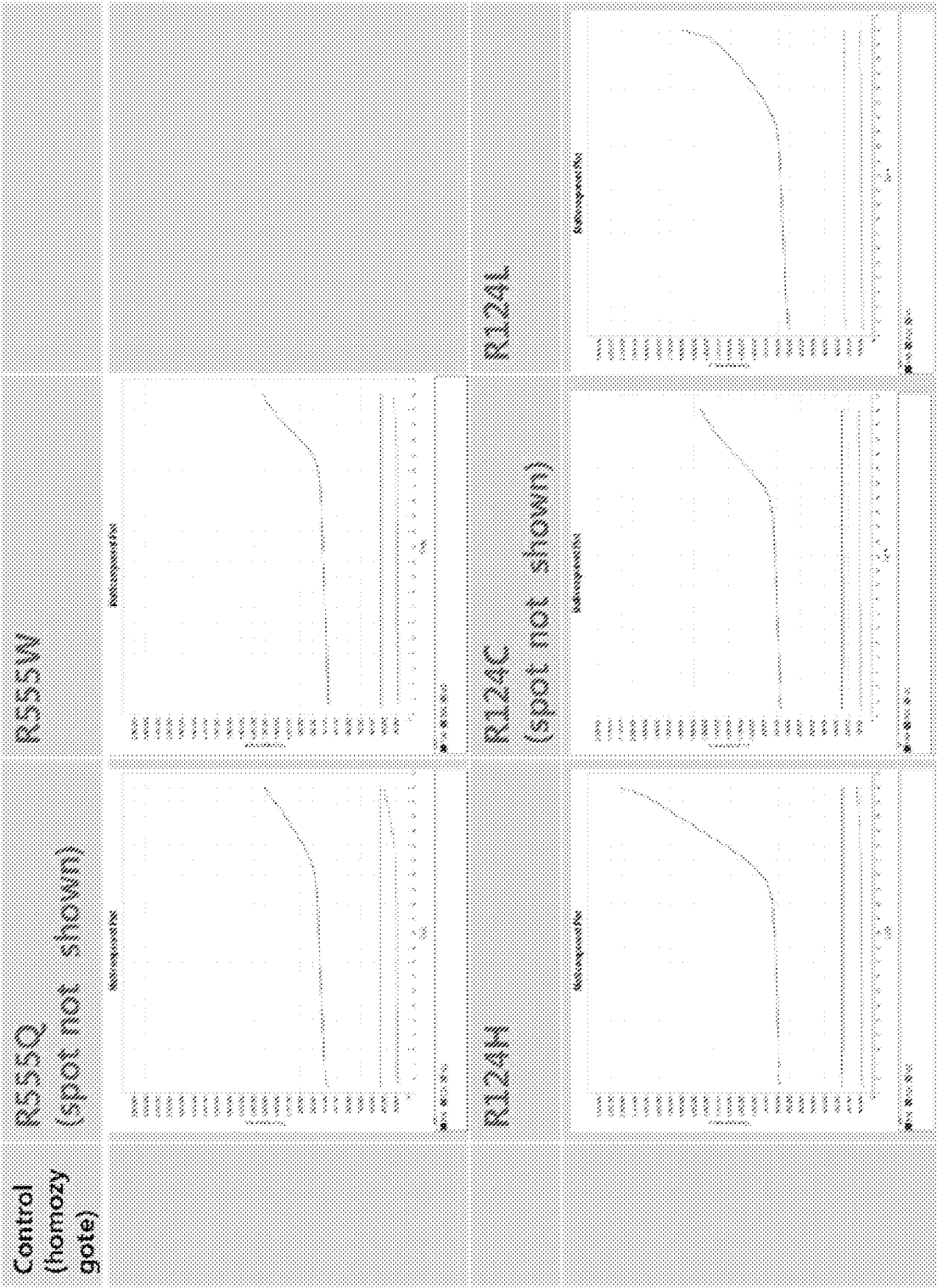
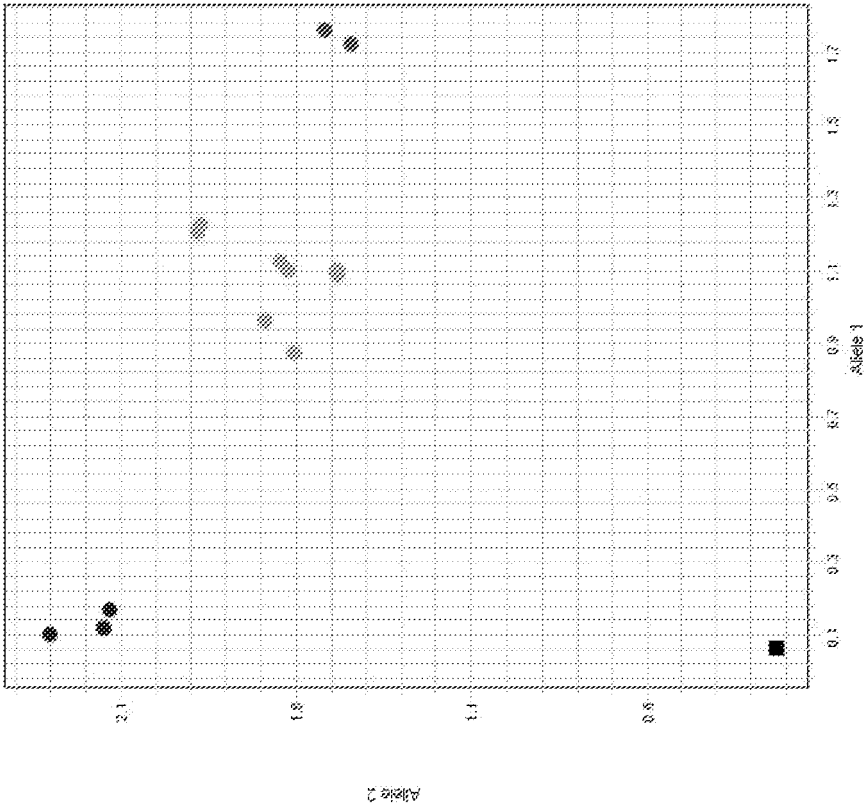


Figure 5C

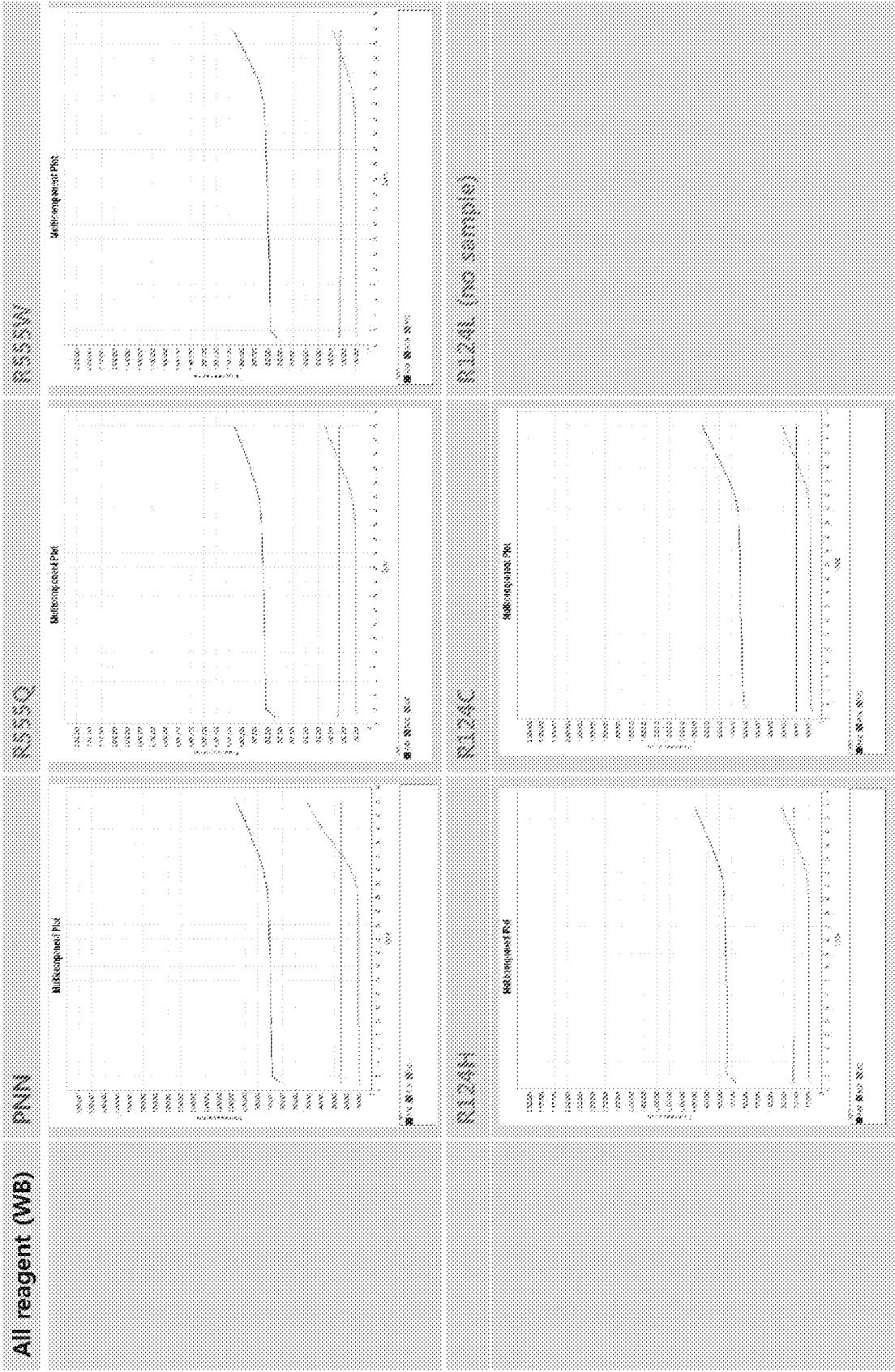
Allelic Discrimination Plot



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	0.30 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 6A



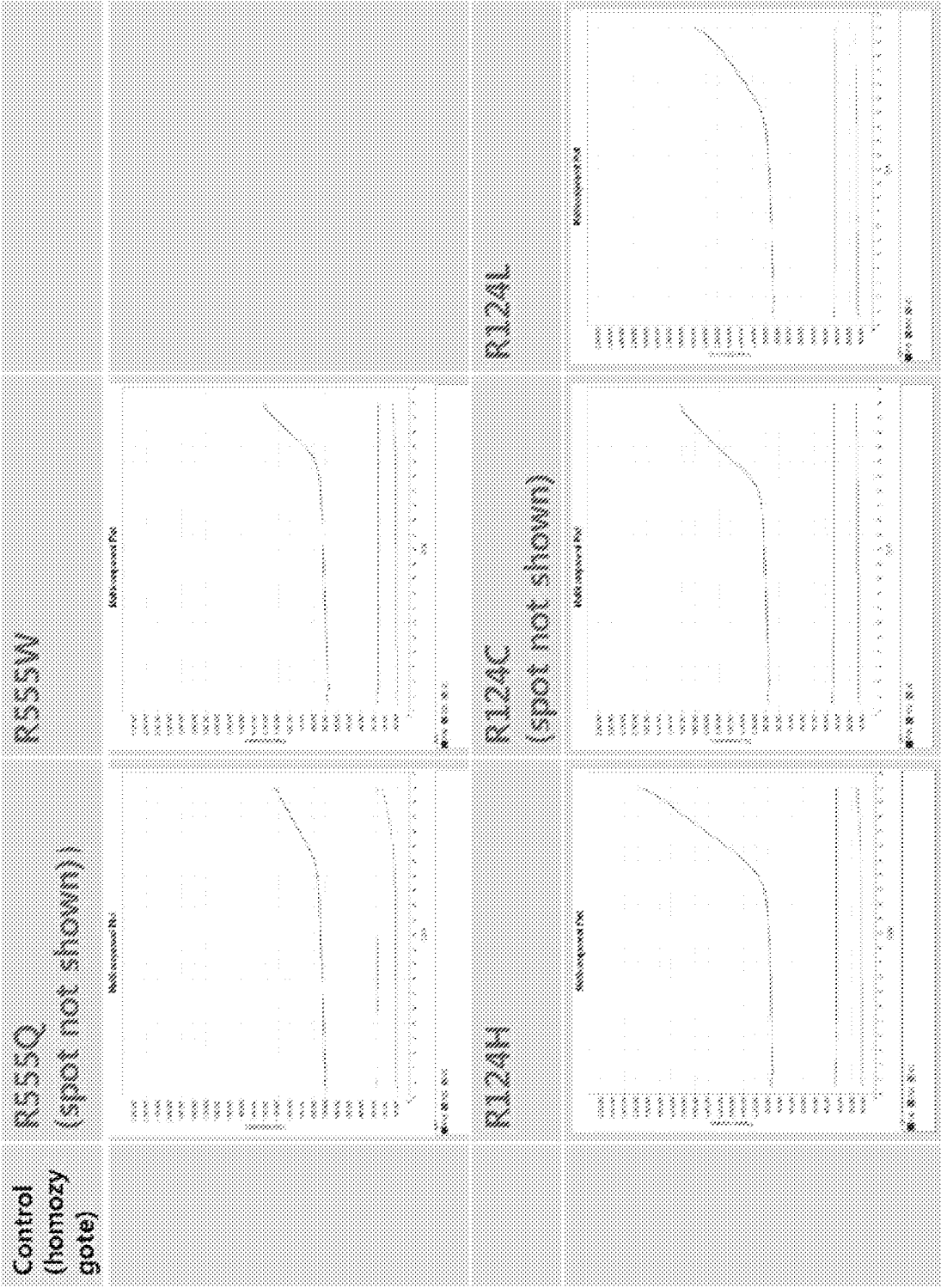


Figure 6C

DATA C >> LifeTech/7500FAST; fast mode

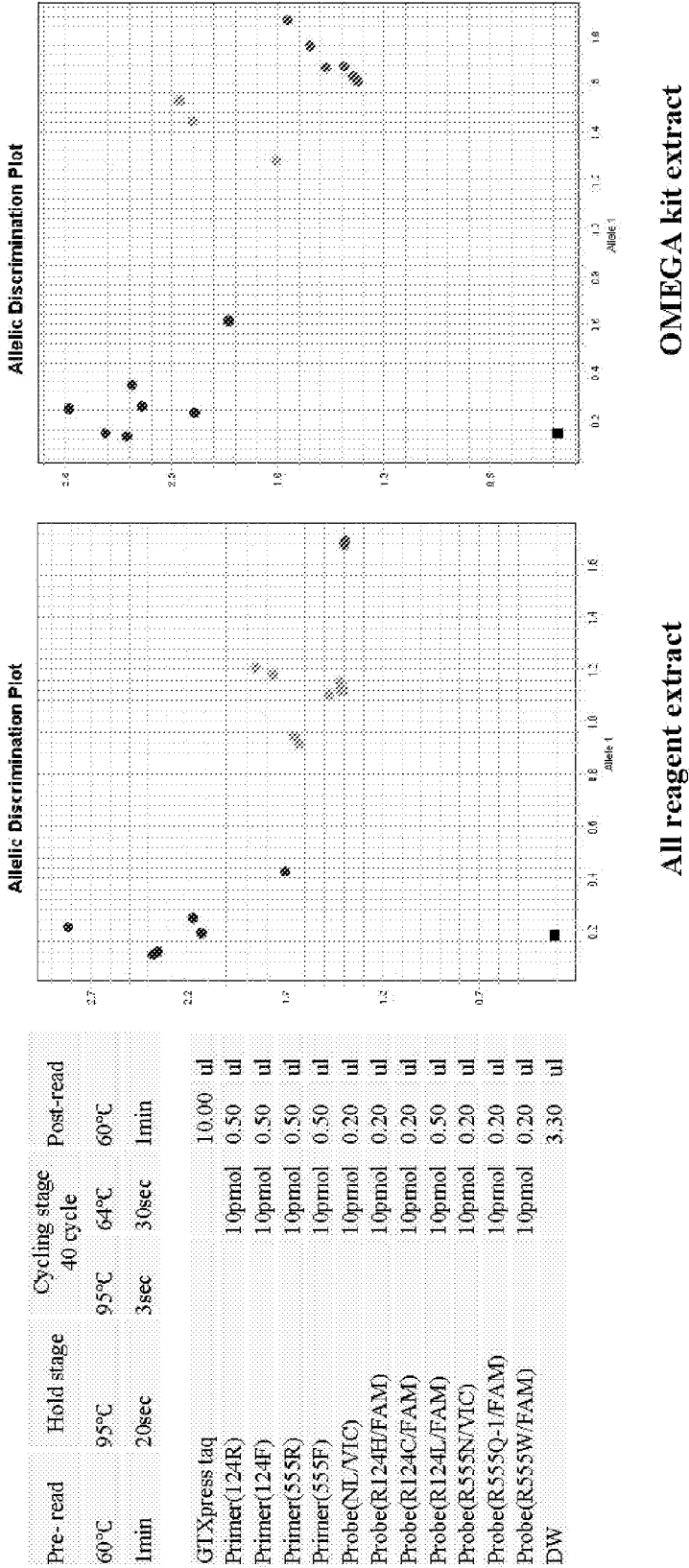


Figure 7

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(S55R)		10pmol	0.50	ul
Primer(S55F)		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	
1min	20sec	95°C 3sec	64°C 1min

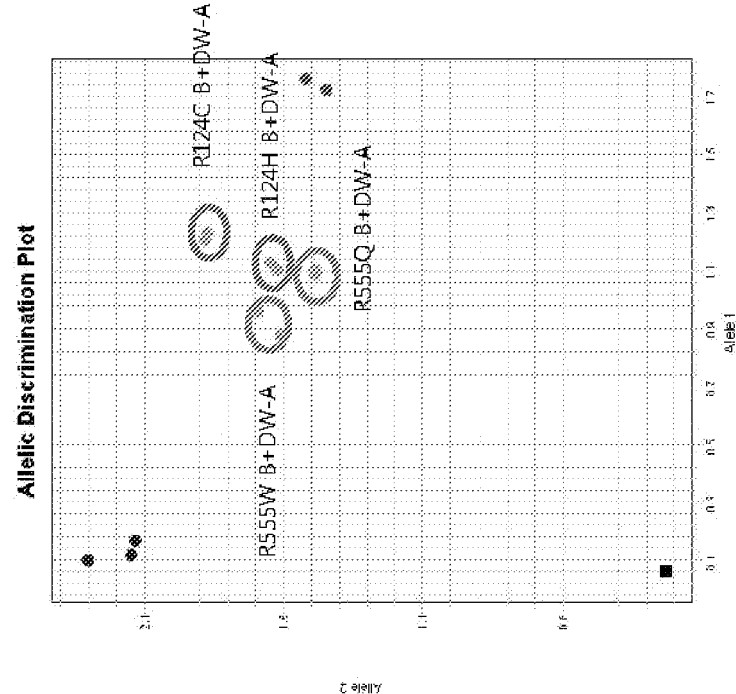


Figure 8