Reaction Conditions - GT023

				Cocktail Volume (uL)	1130	Use PCF	R Cycles P	ROPDNR	
Reagent	[]	[] Units	Desired []	Des'd [] Units	Amount to add	5 min	@	94	
Buffer	10			X	113	30 sec	@	94	
dNTP's	2	mM Each	0.2	mM Each	113	1 min	@	58	35x
MgCl2		mM	1.5	mM	33.9	1 min	@	72	
RW34-F-6FAM		uM		uM	28.25	45 min	@	60	
RW34-R		uM		uM	28.25				
GT023-F-HEX		uM	0.3	uM	16.95	Is a 10ul	reaction v	olume	
GT023-R	20	uM	0.3	uM	16.95				
GT271-F-NED		uM		uM	5.65				
GT271-R	20	uM		uM	5.65				
TR2G5-F-NED	10	uM	0.05		5.65				
TR2G5-R		uM	0.05		5.65				
Too	5	U/uL	0.05	U/uL	11.3				
Taq			40	ng/rxn (2 uL/rxn)	226				
DNA	5	ng/uL	10	HIGHTAII (Z UL/IXII)					
	5	ng/uL	to 1130 uL	ng/ixii (2 dL/ixii)	519.8				
DNA		ng/uL		IIgraii (2 dEraii)					
DNA Autoclaved ddH2O		ng/uL		Cocktail Volume (uL)	519.8	Use PCF	R Cycles P	ROPDNR	
DNA Autoclaved ddH2O Don't Dilute Prior to RXN #2 Reagent	Mixing	[] Units	to 1130 uL Desired []	Cocktail Volume (uL) Des'd [] Units	519.8 1130	Use PCF 5 min	R Cycles P	94	
DNA Autoclaved ddH2O Don't Dilute Prior to RXN #2 Reagent Buffer	Mixing	[] Units	Desired []	Cocktail Volume (uL) Des'd [] Units X	519.8 1130 1130 Amount to add	5 min 30 sec	@	94 94	
DNA Autoclaved ddH2O Don't Dilute Prior to RXN #2 Reagent Buffer dJNTP's	Mixing	[] Units X mM Each	Desired []	Cocktail Volume (uL) Des'd [] Units X mM Each	519.8 1130 1130 Amount to add 113 113	5 min	@	94 94 54	30 X
DNA Autoclaved ddH2O Don't Dilute Prior to RXN #2 Reagent Buffer ddffer MgCl2	Mixing [] 10 2 50	[] Units X mM Each mM	Desired [] 1 0.2 1.5	Cocktail Volume (uL) Des'd [] Units X mM Each mM	519.8 1130 1130 Amount to add 113 113 33.9	5 min 30 sec	@	94 94	30 X
DNA Autoclaved ddH2O Don't Dilute Prior to RXN #2 Reagent Buffer dNTP's MgCl2 TR3G6-F-HEX	Mixing [] 10 2 50 20	[] Units X MM Each mM uM	Desired [] 1 0.2 1.5 0.08	Cocktail Volume (uL) Des'd [] Units X mM Each mM	519.8 1130 1130 Amount to add 113 113 33.9 4.52	5 min 30 sec 1 min	@	94 94 54	30 X
DNA Autoclaved ddH2O Don't Dilute Prior to RXN #2 Reagent Buffer dNTP's MgCi2 TR3G6-F-HEX TR3G6-R		[] Units X mM Each mM uM	Desired []	Cocktail Volume (uL) Des'd [] Units X mM Each mM uM uM	519.8 1130 1130 Amount to add 113 113 33.9 4.52 4.52	5 min 30 sec 1 min 1 min 45 min	@ @ @	94 94 54 72 60	30 X
DNA Autoclaved ddH2O Don't Dilute Prior to RXN #2 Reagent Buffer dMTP's MgCl2 TR3G6-F-HEX TR3G6-R EV37Mn-F-HEX	D Mixing [] 10 2 50 20 20 20 20 20	[] Units X mM Each mM uM uM	Desired []	Cocktail Volume (uL) Des'd [] Units X mM Each mM uM uM	519.8 1130 Amount to add 113 113 33.9 4.52 4.52 11.3	5 min 30 sec 1 min 1 min 45 min	. @	94 94 54 72 60	30 X
DNA Autoclaved ddH2O Don't Dilute Prior to RXN #2 Reagent Buffer dNTP's MgCi2 TR3G6-F-HEX TR3G6-R	D Mixing [] 10 22 50 20 20 20 20	[] Units X mM Each mM uM uM uM	Desired [] 1 0.2 1.5 0.08 0.08 0.02	Cocktail Volume (uL) Des'd [] Units X mM Each mM uM uM uM uM	519.8 1130 Amount to add 113 313 33.9 4.52 4.52 11.3 11.3	5 min 30 sec 1 min 1 min 45 min	@ @ @	94 94 54 72 60	30 X
DNA Autoclaved ddH2O Don't Dilute Prior to RXN #2 Reagent Buffer dMTP's MgCl2 TR3G6-F-HEX TR3G6-R EV37Mn-F-HEX EV37Mn-R Tag	Mixing [] 10 2 50 20 20 20 55	[] Units X mM Each mM uM uM uM uM	Desired []	Cocktail Volume (uL) Des'd [] Units X mM Each mM uM uM UM UM U/UL	1130 Amount to add 113 33.9 4.52 4.52 11.3 11.3 11.3	5 min 30 sec 1 min 1 min 45 min	@ @ @	94 94 54 72 60	30 X
DNA Autoclaved ddH2O Don't Dilute Prior to RXN #2 Reagent Buffer dNTP's MgCi2 TR3G6-F-HEX TR3G6-R EV37Mn-F-HEX EV37Mn-F	Mixing [] 10 2 50 20 20 20 55	[] Units X mM Each mM uM uM uM	Desired []	Cocktail Volume (uL) Des'd [] Units X mM Each mM uM uM uM uM	519.8 1130 Amount to add 113 313 33.9 4.52 4.52 11.3 11.3	5 min 30 sec 1 min 1 min 45 min	@ @ @ @	94 94 54 72 60	30 X
DNA Autoclaved ddH2O Don't Dilute Prior to RXN #2 Reagent Buffer dMTP's MgCl2 TR3G6-F-HEX TR3G6-R EV37Mn-F-HEX EV37Mn-R Tag	Mixing [] 10 2 50 20 20 20 55	[] Units X mM Each mM uM uM uM uM	Desired []	Cocktail Volume (uL) Des'd [] Units X mM Each mM uM uM UM UM U/UL	1130 Amount to add 113 33.9 4.52 4.52 11.3 11.3 11.3	5 min 30 sec 1 min 1 min 45 min	@ @ @ @	94 94 54 72 60	30 X

GT023 Scoring Criteria

- Allele bins are odd
- Score the +A
- +A is preferentially amplified, but sometimes it flips, so keep an eye out for this

