

## Reaction Conditions - GT023

RXN #1		Cocktail Volume (uL)		1130	
Reagent	[ ]	[ ] Units	Desired [ ]	Des'd [ ] Units	Amount to add
Buffer		10 X		1 X	113
dNTP's		2 mM Each		0.2 mM Each	113
MgCl2		50 mM		1.5 mM	33.9
RW34-F-6FAM		20 uM		0.5 uM	28.25
RW34-R		20 uM		0.5 uM	28.25
GT023-F-HEX		20 uM		0.3 uM	16.95
GT023-R		20 uM		0.3 uM	16.95
GT271-F-NED		20 uM		0.1 uM	5.65
GT271-R		20 uM		0.1 uM	5.65
TR2G5-F-NED		10 uM		0.05 uM	5.65
TR2G5-R		10 uM		0.05 uM	5.65
Taq		5 U/uL		0.05 U/uL	11.3
DNA		5 ng/uL		10 ng/rxn (2 uL/rxn)	226
Autoclaved ddH2O			to 1130 uL		519.8
					1130
Don't Dilute Prior to Mixing					

  

RXN #2		Cocktail Volume (uL)		1130	
Reagent	[ ]	[ ] Units	Desired [ ]	Des'd [ ] Units	Amount to add
Buffer		10 X		1 X	113
dNTP's		2 mM Each		0.2 mM Each	113
MgCl2		50 mM		1.5 mM	33.9
TR3G6-F-HEX		20 uM		0.08 uM	4.52
TR3G6-R		20 uM		0.08 uM	4.52
EV37Mn-F-HEX		20 uM		0.2 uM	11.3
EV37Mn-R		20 uM		0.2 uM	11.3
Taq		5 U/uL		0.05 U/uL	11.3
DNA		5 ng/uL		10 ng/rxn (2 uL/rxn)	226
Autoclaved ddH2O			to 1130 uL		601.16
					1130
Don't dilute prior to mixing					

  

Use PCR Cycles PROPDNR			
5 min	@		94
30 sec	@		94
1 min	@		54
1 min	@		72
45 min	@		60
Is a 10ul reaction volume			

  

Use PCR Cycles PROPDNR			
5 min	@		94
30 sec	@		94
1 min	@		54
1 min	@		72
45 min	@		60
Is a 10ul reaction volume			

## 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

