Reaction Conditions - TR3G13

				Cocktail Volume (uL)	1130	Use PCF	Cycles PF	OPDNR	
Reagent	[]	[] Units	Desired []	Des'd [] Units	Amount to add	5 min	@	9	4
Buffer	10	X	1	X	113	30 sec	@	9	4
dNTP's	2	mM Each	0.2	mM Each	113	1 min	@	5	2 30 X
MgCl2	50	mM	1.5	mM	33.9	1 min	@	7:	2
GATA028-F-NED		uM		uM	28.25	45 min	@	6	0
GATA028-R	40	uM	1	uM	28.25				
TR3G11-F-6FAM	20	uM	0.52	uM	29.38	Is a 10ul	reaction v	olume	
TR3G11-R	20	uM	0.52	uM	29.38				
TV14-F-NED	20	uM	0.1	uM	5.65				
TV14-R		uM		uM	5.65				
IGF-F-HEX		uM	0.675		19.06875				
IGF-R		uM	0.675		19.06875				
Taq	5	U/uL		U/uL	11.3				
0111	5	ng/uL	10	ng/rxn (2 uL/rxn)	226				
DNA Autoclaved ddH2O			to 1130 uL		468.1025				
Autoclaved ddH2O Don't Dilute Prior To			to 1130 uL		1130				
Autoclaved ddH2O Don't Dilute Prior To			to 1130 uL	Cocktail Volume (uL)		Use PCF	R Cycles PR	OPDNR	
Autoclaved ddH2O Don't Dilute Prior To RXN#2 Reagent		[] Units	to 1130 uL Desired []	Cocktail Volume (uL) Des'd [] Units	1130	Use PCR	Cycles PF	ROPDNR 9	4
Autoclaved ddH2O Don't Dilute Prior To RXN#2 Reagent Buffer	De-salting	[] Units	Desired []	Des'd [] Units X	1130 Amount to add	5 min 30 sec	Cycles PF	9.	
Autoclaved ddH2O Don't Dilute Prior To RXN#2 Reagent Buffer dNTP's	De-salting	[] Units	Desired [] 1 0.2	Des'd [] Units X mM Each	1130 Amount to add 113 113	5 min 30 sec 1 min	@ @ @	9. 9. 6.	30 X
Autoclaved ddH2O Don't Dilute Prior To RXN#2 Reagent Buffer dMTP's MgCl2	De-salting [] 10 2 50	[] Units X mM Each	Desired [] 1 0.2 1.5	Des'd [] Units X mM Each mM	1130 Amount to add 113 113 33.9	5 min 30 sec	@	9.	30 X
Autoclaved ddH2O Don't Dilute Prior To RXN#2 Reagent Buffer dNTP's MgCl2 TR3G13-F-NED	De-salting [] 10 2 50 20	[] Units X mM Each mM	Desired [] 1 0.2 1.5 0.4	Des'd [] Units X mM Each mM uM	1130 Amount to add 113 113 33.9 22.6	5 min 30 sec 1 min	@ @ @	9. 9. 6.	30 X
Autoclaved ddH2O Don't Dilute Prior To RXN#2 Reagent Buffer dNTP's MgCl2 TR3G13-F-NED TR3G13-R	De-salting [] 10 2 50 20 20	[] Units X mM Each mM uM	Desired [] 1 0.2 1.5 0.4 0.4	Des'd [] Units X mM Each mM uM uM	1130 1130 Amount to add 113 113 33.9 22.6 22.6	5 min 30 sec 1 min 1 min	0 0	9 9 6 7	30 X
Autoclaved ddH2O Don't Dilute Prior To RXN#2 Reagent Buffer dNTP's MgCl2 TR3G13-F-NED TR3G13-R TR3G10-F-6FAM	De-salting [] 10 2 50 20 40	[] Units X mM Each mM uM uM	Desired []	Des'd [] Units X mM Each mM uM uM uM	1130 Amount to add 113 113 33.9 22.6 22.6 21.47	5 min 30 sec 1 min 1 min 45 min	0 0	9- 9- 6- 7: 6-	30 X
Autoclaved ddH2O Don't Dilute Prior To RXN#2 Reagent Buffer dNTP's MgCl2 TR3G13-F-NED TR3G13-R TR3G10-F-6FAM TR3G10-R	[] 10 2 50 20 40 40	[] Units X mM Each mM uM uM uM	Desired [] 1 0.2 1.5 0.4 0.4 0.76 0.76	Des'd [] Units X mM Each mM uM uM uM uM	1130 Amount to add 113 33.9 22.6 22.6 21.47 21.47	5 min 30 sec 1 min 1 min 45 min	@ @ @ @ @	9- 9- 6- 7: 6-	30 X
Autoclaved ddH2O Don't Dilute Prior To RXN#2 Reagent Buffer dNTP's MgCi2 TR3G13-F-NED TR3G13-R TR3G10-F-6FAM TR3G10-R	De-salting [] 10 2 50 20 40 40	[] Units X mM Each mM uM uM uM uM	Desired []	Des'd [] Units X mM Each mM uM uM uM uM UM UM UM UM UM	1130 Amount to add 113 113 33.9 22.6 22.6 21.47 21.47 11.3	5 min 30 sec 1 min 1 min 45 min	@ @ @ @ @	9- 9- 6- 7: 6-	30 X
Autoclaved ddH2O Don't Dilute Prior To RXN#2 Reagent Buffer dNTP's MgCI2 TR3G13-F-NED TR3G13-R TR3G10-F-6FAM TR3G10-R Taq DNA	De-salting [] 10 2 50 20 40 40	[] Units X mM Each mM uM uM uM	Desired []	Des'd [] Units X mM Each mM uM uM uM uM	1130 Amount to add 113 113 33.9 22.6 22.6 21.47 21.47 11.3 226	5 min 30 sec 1 min 1 min 45 min	@ @ @ @ @	9- 9- 6- 7: 6-	30 X
Autoclaved ddH2O Don't Dilute Prior To RXN#2 Reagent Buffer dNTP's MgCl2 TR3G13-F-NED TR3G13-R TR3G10-F-6FAM TR3G10-R	De-salting [] 10 2 50 20 40 40	[] Units X mM Each mM uM uM uM uM	Desired []	Des'd [] Units X mM Each mM uM uM uM uM UM UM UM UM UM	1130 Amount to add 113 113 33.9 22.6 22.6 21.47 21.47 11.3	5 min 30 sec 1 min 1 min 45 min	@ @ @ @ @	9- 9- 6- 7: 6-	30 X

TR3G13 Scoring Criteria

- Allele bins are odd
- Score the +A

