IQ5

Run set up

Protocol must be defined BEFORE run please check <u>your kit manual</u> for guidelines

Plate Layout can be edited after the run

Run set up: protocol



Run set up: protocol



Run set up: plate



Run set up: plate



Run

please make sure, that you spun down the plate before running the reaction 10. click on Run, select well factor you want and click on Begin Run

Bio-Rad 105 (ad • View Reports	min) Tools Help	Setun			Plate Sur	nmary																
Workshop Run-Time	P Desk P N N N N N	rotocol (i top ty Documents ty Computer ty Network Pl	aces	?late]	My Documen My Computer My Network R	et Data File ts Places	Notes	ted Data	File :	D	Pata 201	4-10-15	1434 Ann	a.opd Rui	Run n End	Point						
Central Data Analysis	Selected Protocol Edit Cycle 1 Step 1 95.0 7:00		: group 2.tmo within Data 2014-1 Create New Protocol Cycle 2 40X Step 1 Step 2 95.0 60.0 0:10 0:30			A4-10-15 1434 Anna.opd Original Current Cycle 3 71X Step 1 60.0 0:10	Sample Sample	Selected Plate Setup: group 2.pts within Data 2014-10-15 1434 Anna.opd Edit Create New Plate Original Current Sample Volume : 20ul Seal Type : Film Vessel Type : Plates SYBR1 SYBR2 SYBR3 SYBR4 1 2 3 4 5 6 7 8 9 10 11 12 A 1 1 0 0 0 11 12														
Calibration	Cycle	Repeats	Step 1	Dwell Time 7:00	Setpoint 95.0	PCR / Melt Data Acquisition	B C D E F		22 33 40 50 50 50 50 50 50 50 50 50 50 50 50 50													
BIO-BAD	2	40	1	0:10	95.0	×	G												10	17/2014	12,22	















exported to Excel

and also curves for which wells should be shown

Bio-Rad iQ5 (ac	dmin)	- (Data 2014-10-15 1434 A	nna.opd)													
ile View Reports	Tools	PCR Quant	Melt Curve	/Peak	-	End Po	int		Allelia	: Disc		Gen	ne Expr		Ed	it Plate
~	+				Grap R R R	h Data elative to cor elative to zer	ntrol	+	Setting	Conc	Data Tab	Data S	5et List			
Workshop					TX-AX	is Options — Condition			Name	F	ull Name	Ref	Color	Show Graph	Auto Efficiency	Efficiency (%)
					G	iene		1	Gene 2	2	Gene 2			~	~	87.3
Due Time					□ ¬¬A×	is Options —		2	Referenc	e1 Re	eference 1			•	•	55.1
Central						og 2		3	Reference	e2 Re	eference 2					95.2
						inear			Referenc	e3 He	GOI				V V	93.0
Data Analysis					●H ●Lu ●U Grapi +/- Si	lighest owest Inscaled h error td Devs	1									
Calibration	+	Gene Name: Condition Name:				-			Normalized ex	pression (do	ict)	Recalcu	ilate			
		Copy condition to all data sets 📃 Enable for Gene Study				Analyze Wells			Relative quan	ve quantity (dCt)						
		1 2	3 4	5	6	7	8	9	10	11	12					-
User Profile		Gene 2 Gene 2 Gene 2 Gene 2 Gene 3 A 8.86 8.81 Std-1 Std-	ene 2 8.98 andard ene 2 11.01													-
		IN A DI 1-SYBR 1-SYBR	1 / 1-SYBR2 / 1-SYBR	3 / 1-SYBR4 /									•			•

In Gene Expression you can run delta Ct and delta delta Ct tests

in the Gene list:

 Select the genes you want to use as a reference
Select the genes you want to have on the chart
Make sure all the efficiencies are correctly annotated

in the Condition list:

1. Select samples you want to analyse

2. Check in a sample which you want to use as a control (if you have any controls)

M-value

This software doesn't calculate stability values, please check Daniel's lecture and the link in the "useful stuff" on the course site

Adjust your selection of references according to M-values results