TP700 事前準備 (出力項目を事前設定する)

1. パソコンを起動する

2. TaKaRa DiceRealTime を選択、クリックする

	PC PC I-dic-Re Dic-arc-astimute	Dice_run	
2	Documents		
11	TaKaRa Multipla		
	ăI		

3. File から New をクリック

				-			
	File Instrument User	Help Ctrl+N Q Q 👰 Ctrl+O	TI	hermal Cycler Dice H	Real Time System Softwa	are	
	Data Manager	Ctrl+M					
	Save Save As	Ctrl+S Ctrl+A					
	Make Full Report Print	Ctrl+P					
	Exit						
0.1							
-							
	- Harry Martin						

4. AQ(M)を選択し、Edit をクリック

1		
	New Experiment Options – – ×	
① ここを選択	Select Experiment Select Single / Multiplex O AQ(S) Absolute Quantification Single	
	RQ(M) Relative Quantification Single Multiplex Multiplex PM(S) Physical Action Single Single	
	O PM(M) Plus / Minus Assay O SNP SNP Genotyping Assay Multiplex	 Pdit をクリック
	User ID <select name="" your=""> Edit</select>	
	OK Cancel	

5. New をクリック

	User Man	agement	
ID First Nam Last Nar	m e-mail	Lab Name Lab	Addres Note
ID			New
First	Last		Delete
e-mail Lab Name			
Address			
Note			

6. IDに Direct Strip PCR と入力し、Add をクリック



7. ID を確認

		gement		×
Direct S	e-mail	Lab Name	Lab Addres Note	
User Information			New	
ID Direct Strip PCR				
First	Last		Delete	
e-mail				
Lab Name				
Address				
Note				
		ок	Cancel	

8. OK をクリック

Direct S	vami e-mail	Lab Name L	ab Addres Note	
User Information				
ID Direct Strip PC	R		New	
Name				
First	Last		Delete	
e-mail				
Lab				
Name				
Address				
Note				

9. Direct Strip PCR を選択、OK をクリック

Select	Experiment Select	Single / Multiple
O AQ(S)	Absolute Quantification	Single
AQ(M)		Multiplex
O RQ(S)	Relative Quantification	Single
O RQ(M)	Helalive Quantilication	Multiplex
O PM(S)	Plus / Minus Assav	Single
O PM(M)	The Finne Acces	Multiplex
◯ SNP	SNP Genotyping Assay	Multiplex
User ID	<select name="" your=""></select>	~ Edit
	Select Your Name>	
	Direct Strip PCR	



D 2 III Section An	alysis Instrument Change	Use	r Window	Help		
	Setting	N	Plate Ima			
Multiplex	Management	45	W I nate image			
Experiment Options	Target File Tem	plate				
Plate Setup	ID * Dye *		Name *	Color *	Xref	X
Thermal Profile Setup	1 FAM	* *	Target1			
Result / Analysis						
Output Setup						
Information:			1000			

11.Text Report を選択

late	User Setting					- 17 ×	
Name *	User Information	Analysis Full Report / Prin	nt Chart Propertie	Text Report	Reset All		
	ID (Direct Strip PCR		A		Reverse Tr	
	Name						
	First	Last					
	e-mail						
	Lab Name Address						
Template	Note						
Name / Std V Sample1							
					Carcel		



12. Analysis Setting を選択し、Other をクリック

13. Check Item の☑を下図のようにする



14. 次に CP Method Data を選択

Name *	User Information Analysis Fu	Il Report / Print	Chart Propertie	es Text Report
-	Data Set Data Set of Each V	Ve 🖌 Other		President
	Well	Ste Analys	thod Data	Well
	Sample Type	SDMn Other	lethod Data	Sample Type
	Target ID			Target Name
	Target Name			Sample ID
	Sample ID			Filter
	Sample Name			Fluorescence Last
	Filter			I Thurescence Last
	Fluorescence Last(Raw)			
emplate	Fluorescence Last			

15. Ct(CP)の項目の Check Item は2、それ以外の項目は、✔を外す

Dye * Name *		User Information Analysis Full Parallel				
FAM	✓ Target1	Data Set Data Set of Each	We V CP Method Data V Press	n		
		Ct(CP) Ct Avg.(CP) Ct SD(CP) Cutoff(Ct) Init Qty	Show Iter Check Iter C	1P) va.(CP) D(CP) ff(C0) tr ir va.(CP)		
nple List mple File Template		Qty Avg.(CP) Qty SD(CP) Rel.Qty(CP) Rel.Qty SD(CP) ΔΔCt Rel Qty(CP)		ACP) ICP) ISD(CP)		
Туре * 1	Name / Std Sample1	AACt Rel.Qty SD+(CP) AACt Rel.Qty SD-(CP)	SNP Gen			

16. OK をクリック



TP700 Run



Strip をセットする



1. パソコンを起動する

2. TaKaRa DiceRealTime を選択、クリックする

PC PC Usketka DiseasedTime	Dice_run	
Documents		
TaKaRa Multipla		
「二日」		

3. File から New をクリック



4. AQ (M) を選択

	New Experiment Options – – ×
	Experiment Type Select Experiment Select Single / Multiplex
① ここを選択	AQ(S) Absolute Quantification Multiplex
B. K. M	O RQ(M) Relative Quantification Single O PM(S) Multiplex O PM(M) Plus / Minus Assay
	SNP SNP Genotyping Assay Multiplex
	User ID <select name="" your=""></select>
	OK Cancel
and the second second	

5. Seiect Your Name を選択

O BO(S)		Multiplex
	Relative Quantification	Single
		Multiplex
	Plus / Minus Assav	Single
		Multiplex
∪ SNP	SNP Genotyping Assay	Multiplex
UserID	Colority N	
	<select four="" name=""></select>	

6. Direct Strip PCR を選択し、OK をクリック



	Section A	nalysis Instrument	Ileas Mr		thermal Cw	clier Dine Rive	No.				
and the second se		S Co @Q	Vser Window H	elp			and the second		and the second distance of the local distanc		
	Absolute Quantification Multiplex	Target & Sample S Target List	Setting Plate Image								
	Experiment Options Plate Setup	Target File Terr	nplate								
	Thermal Profile Setup	ID* Dye* 1 FAM	Name *	Color *	Xref	Xref	Assay (D	Forward	Forward Tm	Revenue	Brann T
	Result / Analysis		~				_	-			-
	Output Setup										
	Information: Sample Type										
-	STD S	< Sample List									
	NTC/NAC	Sample File Ter	nplate								100
1											
	and the second se	ID* Type*	Name / Std. Qty.	Color*	InterRun	Calibre DinaseTr	eatmer PrimingMet	hod Enzyme	ReaGlands	Draduante	Andread
1963		1	✓ Sample1		1	~	~	*			
	Well Image:		~			~	*	-			
	U FAM										
18	1 1 Gapdh Uver										
	ID Name										

7. Plate Image を選択

Setting Plate Image	Setting Plate Image mplate Name * Color * Xref Assay ID Forward Forward Tree	User Window	telo	Thermal Cyc	ter Dice Real			
Setting Plate Image mplate Name * Color * Xref Xref Assay ID Forward Tr Y Target1	Setting Plate Image mplate Name * Color * Xref Xref Assay ID Forward Tro * Target1	?	- ip					
mplate Name * Color * Xref Xref Assay ID Forward To Y Target1	mplate Name * Color * Xref Xref Assay ID Forward Tro * Target1	Setting Plate Imag	e					
Name * Color * Xref Xref Assay ID Forward Forward Tr Target1	Name * Color * Xref Xref Assay ID Forward Forward * Target1	13						
Name * Color * Xref Xref Assay ID Forward Forward Tr Y Target1	Name * Color * Xref Xref Assay ID Forward Forward Tr Target1	mplate						
Name * Color * Xref Xref Assay ID Forward Forward Y Target1	Name * Color * Xref Xref Assay ID Forward Forward Tr V Target1							
Target1	Target1	Name *	Color *	Xref	Xref	Assay ID	Forward	Forward Tm
		✓ Target1						

8. Lord Template を選択

Software -	[NewDocume	ent_1]				
				User : Direct \$	Strip PCR	
		Display O ID Name	Ornit 🔀	Show Edito	Load Template	
7	8					- State and
FAM	FAM					-
FAM	FAM					
	FAM					. Company

9. Dice run template.rtp(大分大学ホームページからダウンロードした場合は、 tp700_template.rtp)を選択し、Open をクリック

top	① ここを選択
nloads ic Documents Shortcut 943 bytes ures PC Shortcut 424 bytes	E
C:) File name: Dice_run_template.rtp	Run File (Research) (*.rtp) Open Cancel Open たクリック

Absolute Quantification Multiplex	Tar	get & Sample S ilter	Setting Plate	Image					
Experiment Options		FAM RO	X						
Plate Setup		1 FAM	2	3	4	5			
Thermal Profile Setup	A	R	PAM	FAN	1 FAN	A FA	M FAM	7 FAM	8 FAN
Result / Analysis		GAPDH	HSV1	HSV2	EBV	HTLVT	Toxoptazo		1000
Output Setup		FAM	FAM	FAM	FAM	FAI	M FAM	FAM	FAX
Information: Sample Type	в	GAPDH	HSV1	HSV2	EBV	HTLV1	Toxoplasma		
UNKN U STD S		FAM	FAM	FAM	FAM	FAM	FAM	FAM	EAM
NTC/NAC	C	GAPDH	HSV1	HSV2	EBV	HTLVI	Toxoplasma		
		FAM	FAM	FAM	FAM	FAM	FAM	FAM	FAM
	D	GAPDH	HSV1	HSV2	EBV	HTLV1	Toxoplasmo		
Well Image:		FAM	FAM	FAM	FAM	FAM	FAM		
Gapdh	E	GAPDH	HSV1	HSV2	EBV	HTLVI	Toxoplasma		
ID Name		FAM	FAM	FAM	FAM				

10. Target & Sample Setting を選択

Sile Edit Section A	Analysis Instrume	ent U	ser Window	Help	Detmili		
Absolute Quantification	Target & Samp	le Setti					
Multiplex	Target List		a late Imag	je			
Experiment Options	Target File Te	emplate	•				
Plate Setup					D		
Thermal Profile Setup	ID* Dye* 1 FAM	~	Name * GAPDH	Color *	Xref	Xref	Ass.
Result / Analysis	2 FAM 3 FAM	~ ~	HSV1 HSV2				
Output Setup	4 FAM 5 FAM	-	EBV				
Information:	6 FAM		Toxoplasma				
Sample Type	7 ROX	~ 7	BP				
	< "	Tes 1	1/1				
STD S NTC/NAC N	Sample List						

11. Name 欄には患者 ID や日付(例 190827_10000 など)を入力すると便利。Sample1 を 選び、消して、

N	Sample List
	Sample File Template
2.	ID * Type * Name / Std. Qty * Color * InterRunCalibre Dnase
Gapdh Liver	
Name	

12. ID と入力する

nation: le Type N I	Ļ	6 FAM 7 ROX	 HTLV1 Toxoplasma TBP VTV 				
/NAC	3	Sample List Sample File Te	amplate				
Image		ID* Type* 1 UNKN	Name / Nd. Qty.	* Color *	InterRu	nCalibra Dnas	eTreatmer Pn
FAM ID	FAM Bapdh Jver Name	*				×	*

13. Thermal Profile Setup を選択

Multiplex	FAM ROX	Speed Fast	· Dist
Experiment Options			
Diate O 1	Pattern	Hold	
Plate Setup	Segment	1	1
Thermal Profile Setup	100 -		
Result / Analysis			
Output Setup	50 -		
	1		

14. Lord Template を選択



15. Dice run template.rtp(大分大学ホームページからダウンロードした場合は、 tp700_template.rtp)を選択し、Open をクリック

nt places rive	Network	
C top uments	PCF Dice_run_template.rtp TP700 Run Data 16.6 KB	① ここを選択
nloads ;ic ures eos (C;)	PC Shortcut 943 bytes PC Shortcut 424 bytes	
File	e name: Dice_run_template.rtp	Run Eilo (Research) (*.rtp) Open Cancel
E FAM	E FAM	PAM PAM PAM ②Open をクリック

16.画面を確認



17. Start Run をクリック

		-	
ttern	Add Segment	Delete	Start Run
		Lid : Closed	Temperature : 108.4 deg Instrument : Connected Camera Connect

18. File name を入力する。(これも Name 欄には患者 ID・複数可や日付(例 190827_10000_10001 など)を入力すると便利。)





19.入力したら、Save をクリック



20. Run

	D C C C C	r Window Help	Cher Dice Rea	Time System Softwa		
Absolute Quantification Multiplex Experiment Options	Collect Data	Speed Fast	Dissociatio	on time 4.0 sec		
Plate Satur	Pattern	Hold	24	Stee Dop		
1 late Setup	Segment	1	1	DIEDPCR		
Thermal Profile Setup	100 -			2		
Result / Analysis						
Output Setup	- 50 - -					
Time/Temperature	-					
Remaining Time						
01:03:35	Cycle	1	4	15		
Lid Temperature	Temperature (deg)	95.0	95.0	60.0		
107.8 deg	Hold Time (mm:ss)	00:10	00:05	00.30		
Block Temperature	Data Collection			0×		
24.9 deg Running Point						

TP700 解析

1. Result/Analysis をクリック

	File Edit Section A	Analysis Instrument User Window Help
Abs	solute Quantification Multiplex	Filter FAM ROX
	Experiment Options	
Т	Plate Setup Thermal Profile Setup	
	Result / Analysis	
-	Output Setup	
		Filter FAM BOX
A RE		2

2. FAM を選択

File Edit Section A	nalysis Instrument User	Thermal Cycler Window Help	Dice Real Time System	Software - [C\U	sers\Dice Rea	afTime System			
Absolute Quantification Multiplex	Filer FAM ROA								
Experiment Options	()								O Target (
Plate Setup	015-								
Thermal Profile Setup	(Primar)								
Result / Analysis	cence								
Output Setup	Se 0.5 -								
	Filter FAM ROX 2	0.2	0.3 0.4	0.5 Cycles	0.6	0.7	28	as Cetr Tapp	

3. ROX も選択



4. 色が変わる

Absolute Quantification Multiplex	File FAM ROX
Experiment Options	55 J
Plate Setup	
Thermal Profile Setup	
Result / Analysis	20 - 5 15 -
Output Setup	
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 20 21 20 21
	Filter FAM P.DX
	2]

5. 下段も同じく、FAM と ROX を選択





6. Analysis Data から TextReport を選択



7. ✔を確認





9. 見たい Well の列を選択

	Analysis Data Amplification Dec
	Fluorescence Primary Curve
	Selection Selection
	Well O Target / Sample Type 1 2 3 4 5 6 7
	C
1 32 33 34 35 36 37 38 39 40 41 42 43 44 45	
	Data Fut

10. 選択したものが表図される



11. Target を選ぶとカラーになる



12. 下段で Ct (CP) 値を確認

Filter FAM	ROX	Cycles			
Well 🔺	Target Name	Sample Name			
E1	TBP	MIX	BOY	Ct(CP)	
E1	GAPDH	MIX	FAM	33.52	
E2	VZV	MIX	BOX	35.00	
E2	HSV1	MIX	FAM	32.82	
E3	HHV6	MIX	ROX	34.65	
E3	HSV2	MIX	FAM	35.03	
E4	CMV	MIX	ROX	33.92	
E4	EBV	MIX	FAM	32.72	
E5	T.pallidum	MIX	ROX	31.77	
E5	HTLV1	MIX	FAM	33.92	
E6		MIX	ROX		
E6	Toxoplasma	MIX	EAM	33.10	

13. 画面全体をスクリーンショットなどでカルテに貼り付けることが可能

Absolute Ocentification								(- F)
	Fiber FAM			_		_	Cale Direct C S	User , and Cards Test David Fell
Multiplex		-		_				formers (and fundlingfor Pure
Experiment Options	82							Rusesono Primay Cone
Piata Setup	43							Analysis Balting 🗹 To each target
Thomas Profile Setup	44							Filter (AM
Hasult / Analysis	0							Taget (mission
Curput Setup	20							Ran Edildedustr
	34 4							O Marcar (FU) (8 EC (8)
	6 20 6 20							
	6 24 8 27							
	820						/////	
	9.0							
	12							
	8							Selector
								1 2 3 4 5 6 7 8
	2							
	1 2	3 4 5 8	8 9 1	0 11 12 13 12	1 15 18 17	18 19 20 21	22 23 24 25 28 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 46 Collec	EUJUUUU
								EXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	inter FAM					14.000		
	E1 UN	We Target D Earcle D N 1 3	FAN	7 CRODIN (Celebric 35.00 34.81	a) géicu) (géicu) -	N) [Tel 1] [Cutof	A (P)	Analysis Date Text Report
	E2 UNV E3 UNV	01 2 3 01 3 3	FAM FAM	34.56 33.23 35.34 33.85	-	1 2		Data Set Data Set of Each Use >
	E4 UNP	N 4 5	FA14 FA14	32.72 5181 31.92 13.30		-		Show Perfs. 2 CF Maked Data 2 Still Method Data
	ES UN	N 6 3 N 7 3	FAM RCIK	37.49 72.81 37.52 23.30	-	- C - C -		Column Well Course hore
	12 UM	N 8 3 N 9 3	FICIK FICIK	32.12 32.71 33.03 32.91	2	1 1		Ed sample for Target D L Target Karls
	1.4 UNP ES UNP	N 10 3 N 11 3	81214 2624	31.92 23.44 31.27 31.15				Sergin I)
								2 Rec
	15 04	3	ROK					Buowecance Last(Pase)
	18 04	on 3	RCK					Ruovecence Let Rev) Ruovecence Let QCICP CLAss/CP1
	18 04		PCR					Rumerce Let Rev) Rumerce Let Cost/h Cost/h CostCh CostCh CostCh
	<u>- 18 UN</u>	on 3	ROK					Browserse LastRee) Rowserse LastRee Course Course Course
	18 04	NI 3	RCK					Browserse LawBard Browserse LawBard Color Color
	18 04		RCH					Conversion Leaf Rev() Reversion Leaf Rev() Reversion Leaf Conversion Conver
	14 04	NI 3	FCIK					Revenue Land Revenue Land Stratter Churgh
	18 00	NI 3	FCIK					Borescript Lattice Reversition Lattice Reversition Lattice Reversition Lattice Reversition Lattice CaseDo Lattice
	28 00	2	BCK					Revenue Lat Plant Revenue Lat Plant Gray 221
	68 0.0	2	ROK					Numeros safilizas Arganetas Anganetas Arganetas Arganetas