



Paired-End Sequencing on the Genome Analyzer *II*

Lab Tracking Form

Flow cell _____

Run folder _____

1 Samples Loaded

Lane	Sample ID	Concentration (pM)
1		
2		
3		
4		
5		
6		
7		
8		

2 Cluster Generation

Step	Date
Amplification	
Linearization, Blocking, and Primer Hybridization for Read 1	

Paired-End Cluster Generation Kit v2 Lot Numbers

Reagent	Lot Number
AMX1	
AMX2	
AT1	
AT2	
BMX	
EMX	
HP1	
HP2	
HP3 (Read 1)	
HP2 (Read 2)	
HT1	
HT2	



Paired-End Sequencing on the Genome Analyzer *II* Lab Tracking Form

Reagent	Lot Number
LMX1	
LMX2	
RMX	

Reagent Volumes After Amplification

Position	Reagent	Volume
1	AMX1	
3	HT2	
9	AT1	
12	HT1	

Reagent Volumes After Linearization, Blocking, and Primer Hybridization

Position	Reagent	Volume
3	HT2	
4	BMX	
7	HP1	
12	HT1	
14	LMX1	
17	HP3	

3 Preparing Sequencing Reagents for Read 1

SBS Sequencing Kit v3 Lot Numbers

Reagent	Lot Number
IMX	
FFN	
SDP	
CLM	
SMX	
PR1	
PR2	
PR3	
PW1	



Paired-End Sequencing on the Genome Analyzer *II* Lab Tracking Form

4 Pre-Run Wash

Expected Volume	Delivered Volume
12 ml	

5 Loading and Priming Reagents

Weights of Material Delivered

Position	Reagent	Weight Before Run	Weight After Run	Delivered Weight
1	IMX			
2	PW1			
3	SMX			
4	PR1			
5	PR2			
6	CLM			
7	PR3			

Priming Reagents

Expected Volume	Delivered Volume	% Difference
6.4 ml		

6 Checking for Leaks and Reagent Delivery

Port Position 5

Expected Volume: 800 μ l

Measured Volume 1: _____

Measured Volume 2: _____

Measured Volume 3: _____

% Difference Between
Expected Volume and
Measured Volume 3: _____



Paired-End Sequencing on the Genome Analyzer *II*
Lab Tracking Form

7 Setting Best Focus for Channel A, Read 1

Z Position	FQ Value

Position of Z for Lane 4: _____

8 Adjusting Focus

FQ Calculation

Z Position	A	C	G	T	Total
300					
200					
100					
0					
-100					
-200					
-300					

9 Performing Post-Run Procedures for Read 1

Run Fluid Delivery Data

Lane	Weight of Empty Tube	Weight of Tube After Run	Weight of Fluid Delivered During Run
1			
2			
3			
4			
5			
6			
7			
8			

10 Read 1 Data Transfer

Step	Description	Date
1a	Images	
1b	Focus images (if stored)	
1c	Log files	
1d	Configuration files	
1e	Calibration files	
3	Delete Run Folder	

11 Loading and Priming Reagents for Read 2 Preparation

Weights of Material Delivered

Position	Reagent	Weight Before Run (g)	Weight After Run (g)	Delivered Weight (g)
10	RMX			
11	LMX2			
12	BMX			
13	AMX2			
15	AT2			
16	HP2			



Paired-End Sequencing on the Genome Analyzer *II* Lab Tracking Form

Position	Reagent	Weight Before Run (g)	Weight After Run (g)	Delivered Weight (g)
19	HP3			
21	HT2			

Reagent Volumes After Priming and Read 2 Preparation

Position	Reagent	Volume After Priming	Volume After Read 2 Preparation
10	RMX		
11	LMX2		
12	BMX		
13	AMX2		
15	AT2		
16	HP2		
19	HP3		
21	HT2		

12

Preparing Sequencing Reagents for Read 2

SBS Sequencing Kit v3 Lot Numbers

Reagents	Lot Number
IMX	
FFN	
SDP	
CLM	
SMX	
PR1	
PR2	
PR3	
PW1	



Paired-End Sequencing on the Genome Analyzer II Lab Tracking Form

13 Loading Sequencing Reagents for Read 2

Weights of Material Delivered

Position	Solution	Weight before Run	Weight after Run	Delivered Weight
1	IMX			
2	PW1			
3	SMX			
4	PR1			
5	PR2			
6	CLM			
7	PR3			

14 Checking for Leaks and Reagent Delivery

Port Position 5

Expected Volume: 800 μ l
Measured Volume 1: _____
Measured Volume 2: _____
Measured Volume 3: _____
% Difference Between
Expected Volume and
Measured Volume 3: _____

15 Setting Best Focus for Channel A, Read 2

Z Position	FQ value

Position of Z for Lane 4: _____



Paired-End Sequencing on the Genome Analyzer *II* Lab Tracking Form

16 Adjusting Focus for Read 2

FQ Calculation

Z Position	A	C	G	T	Total
300					
200					
100					
0					
-100					
-200					
-300					

17 Performing Post-Run Procedures for Read 2

Run Fluid Delivery Data

Lane	Weight of Empty Tube	Weight of Tube after Run	Weight of Fluid Delivered during Run
1			
2			
3			
4			
5			
6			
7			
8			



Paired-End Sequencing on the Genome Analyzer *II* **Lab Tracking Form**

Post-Run Wash

Weight of Tube after Wash: _____

Weight of Empty Tube: _____

Weight of Fluid Delivered: _____

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Sign-off

Date: _____

Name: _____

Signature: _____