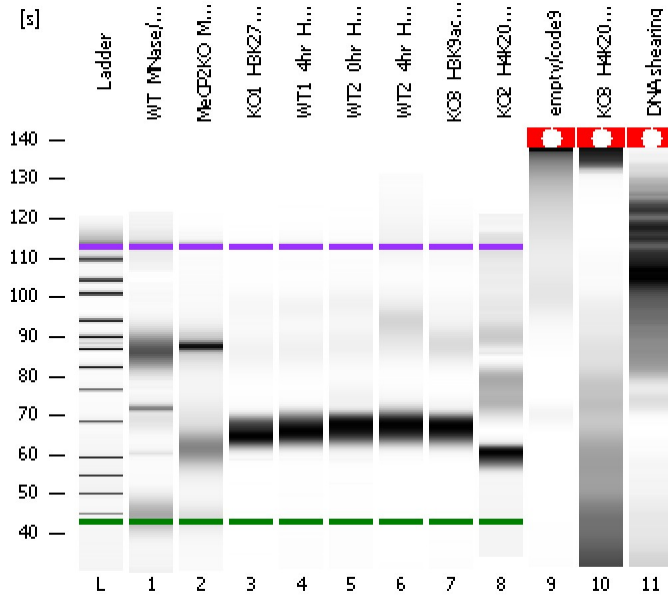


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ngs\Bioanalyzer\2013-02-22\2013-02-22_001_gonglab_Wooje.xad

Created: 2/22/2013 4:04:31 PM
Modified: 2/22/2013 4:51:24 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

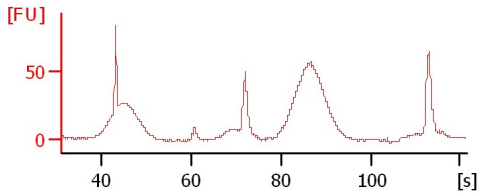
Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy
Assay Class: High Sensitivity DNA Assay
Version: 1.03
Assay Comments: Copyright © 2003-2010 Agilent Technologies

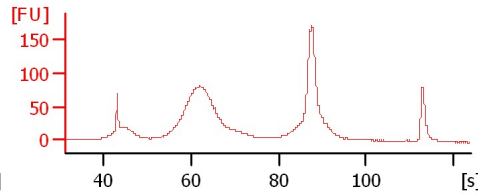
Chip Information:

Chip Lot #:
Reagent Kit Lot #:
Chip Comments:

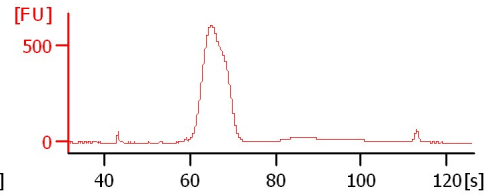
WT_MNase/cod1



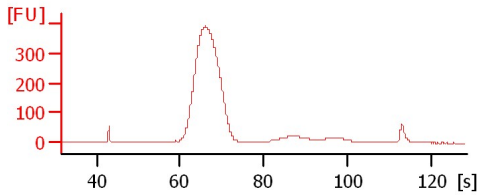
MeCP2KO_MNase/cod2



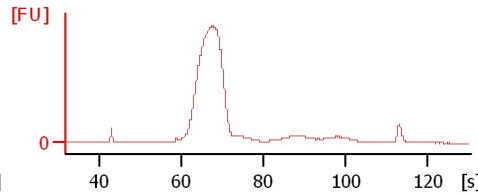
KO1_H3K27ac/cod3



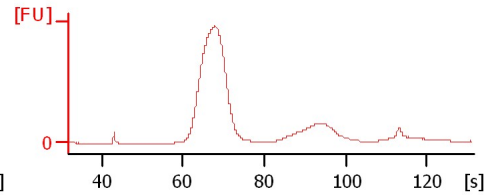
WT1_4hr_H3K27ac/cod4



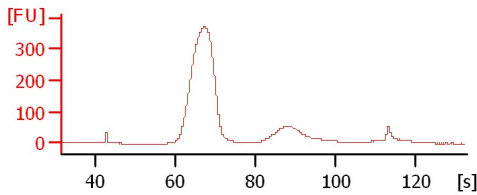
WT2_0hr_H3K9ac/cod5



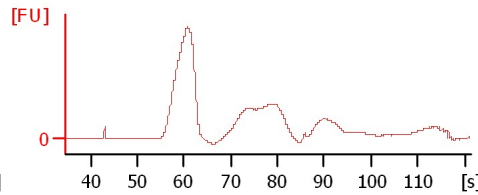
WT2_4hr_H3K9ac/cod6



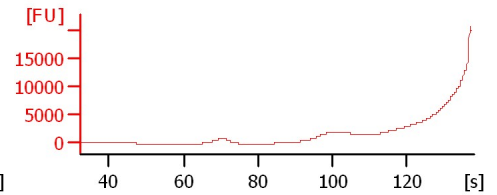
KO3_H3K9ac/cod7



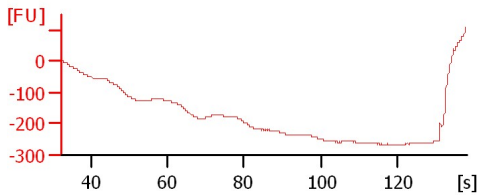
KO2_H4K20me3/cod8



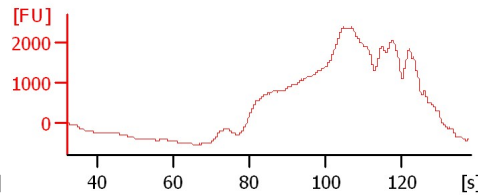
empty/code9



KO3_H4K20me3/cod10



DNA shearing



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ngs\Bioanalyzer\2013-02-22\2013-02-22_001_gonglab_Wooje.xad

Created: 2/22/2013 4:04:31 PM
 Modified: 2/22/2013 4:51:24 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
WT_MNase/cod1		<input type="checkbox"/>	✓			
MeCP2KO_MNase/code2		<input type="checkbox"/>	✓			
KO1_H3K27ac/cod3		<input type="checkbox"/>	✓			
WT1_4hr_H3K27ac/code4		<input type="checkbox"/>	✓			
WT2_0hr_H3K9ac/code5		<input type="checkbox"/>	✓			
WT2_4hr_H3K9ac/code6		<input type="checkbox"/>	✓			
KO3_H3K9ac/cod7		<input type="checkbox"/>	✓			
KO2_H4K20me3/code8		<input type="checkbox"/>	✓			
empty/code9		<input type="checkbox"/>	⚠			
KO3_H4K20me3/code10		<input type="checkbox"/>	✓			
DNA shearing		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ngs\Bioanalyzer\2013-02-22\2013-02-22_001_gonglab_Wooje.xad

Created: 2/22/2013 4:04:31 PM
Modified: 2/22/2013 4:51:24 PM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12
Minimum Visible Range [s] : 32
Maximum Visible Range [s] : 138
Start Analysis Time Range [s] : 33
End Analysis Time Range [s] : 137.5
Ladder Concentration [pg/μl] : 1950
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [pg/μl] : 125
Upper Marker Concentration [pg/μl] : 75
Used Upper Marker for Quantitation
Standard Curve Fit is Point to Point
Show Data Aligned to Lower and Upper Marker

Integrator Settings

Integration Start Time [s] : 33.05
Integration End Time [s] : 137
Slope Threshold : 0.8
Height Threshold [FU] : 5
Area Threshold : 0.1
Width Threshold [s] : 0.6
Baseline Plateau [s] : 0.5

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

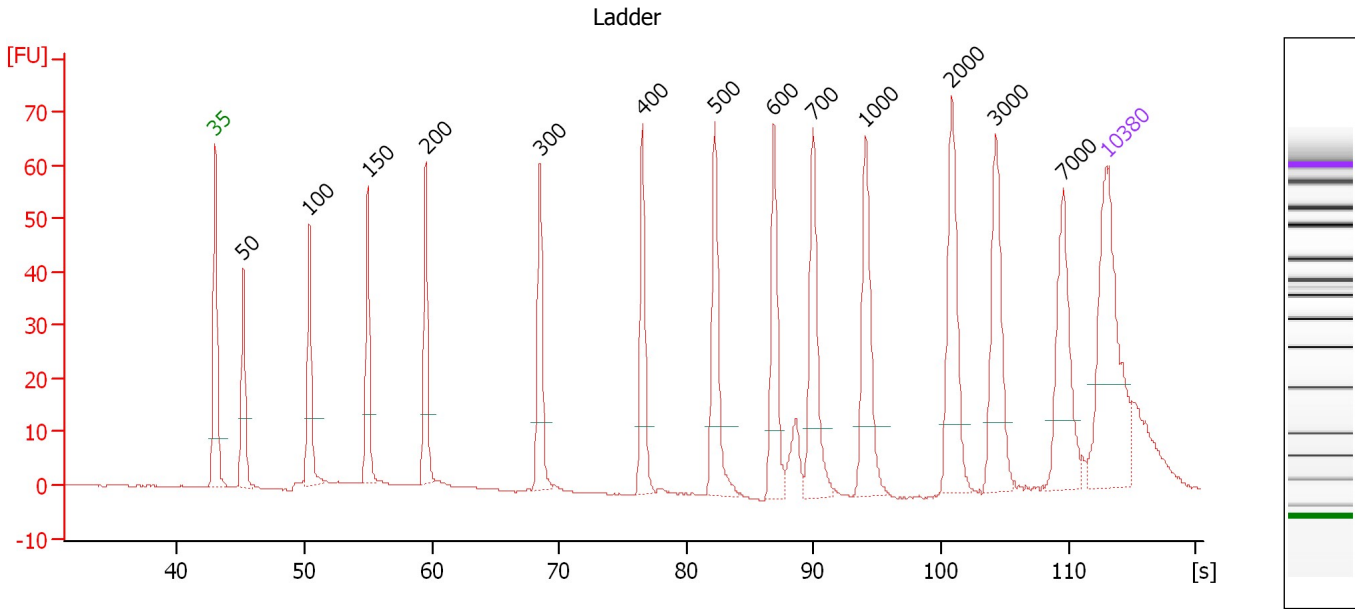
Ladder

Ladder Peak	Size	Area
1	35	160
2	50	210
3	100	208
4	150	221
5	200	242
6	300	270
7	400	305
8	500	306
9	600	336
10	700	321
11	1000	366
12	2000	413
13	3000	411
14	7000	400
15	10380	214

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ngs\Bioanalyzer\2013-02-22\2013-02-22_001_gonglab_Wooje.xad

Created: 2/22/2013 4:04:31 PM
 Modified: 2/22/2013 4:51:24 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

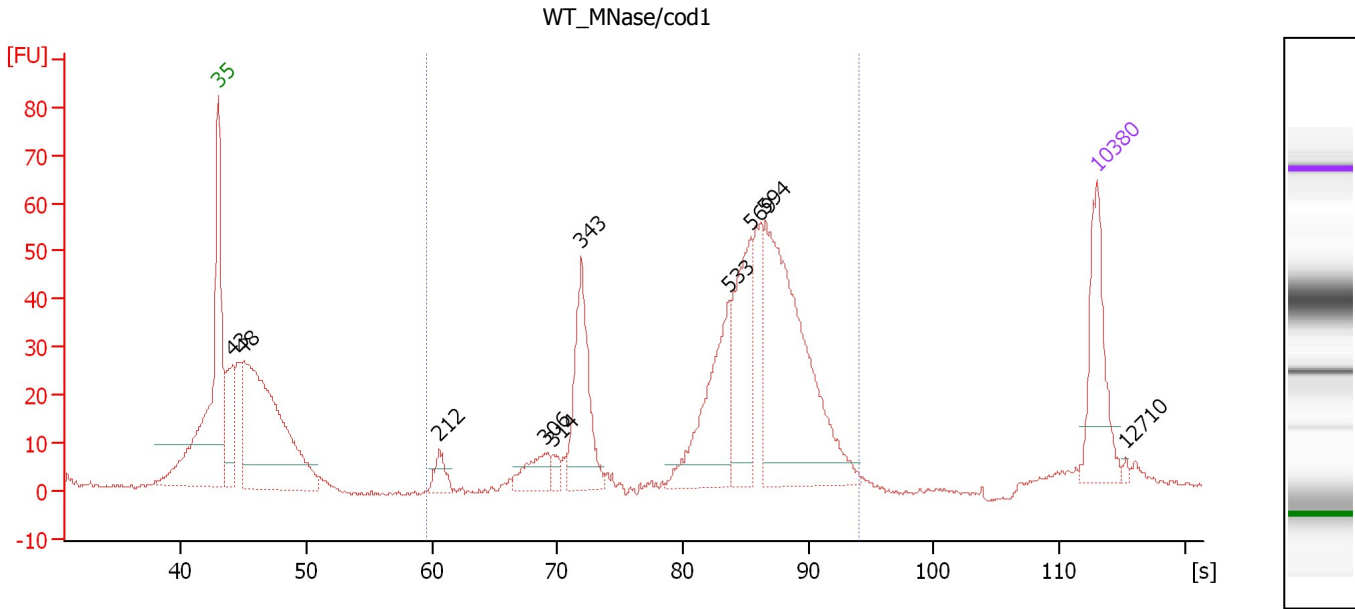
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	150.00	4,545.5	Ladder Peak
3	100	150.00	2,272.7	Ladder Peak
4	150	150.00	1,515.2	Ladder Peak
5	200	150.00	1,136.4	Ladder Peak
6	300	150.00	757.6	Ladder Peak
7	400	150.00	568.2	Ladder Peak
8	500	150.00	454.5	Ladder Peak
9	600	150.00	378.8	Ladder Peak
10	700	150.00	324.7	Ladder Peak
11	1,000	150.00	227.3	Ladder Peak
12	2,000	150.00	113.6	Ladder Peak
13	3,000	150.00	75.8	Ladder Peak
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ngs\Bioanalyzer\2013-02-22\2013-02-22_001_gonglab_Wooje.xad

Created: 2/22/2013 4:04:31 PM
 Modified: 2/22/2013 4:51:24 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : WT_MNase/cod1

Number of peaks found: 10 Corr. Area 1: 623.8
 Noise: 0.5

Peak table for sample 1 : WT_MNase/cod1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	43	89.78	3,170.1	
3	48	440.25	13,761.3	
4	212	25.03	179.0	
5	306	40.86	202.0	
6	314	11.65	56.3	
7	343	130.56	577.4	
8	533	135.05	383.7	
9	569	124.42	331.2	
10	594	304.12	775.5	
11	10,380	75.00	10.9	Upper Marker
12	12,710	0.00	0.0	

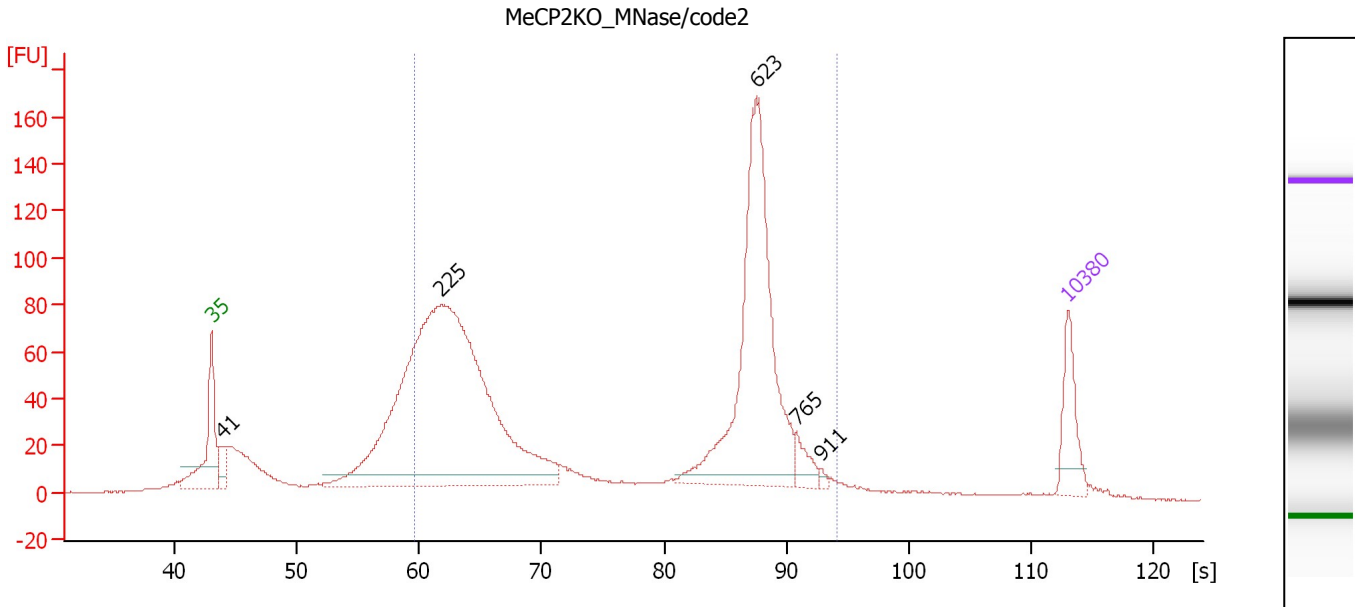
Region table for sample 1 : WT_MNase/cod1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	560	2,506.8	818.33	623.8	67	24.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ngs\Bioanalyzer\2013-02-22\2013-02-22_001_gonglab_Wooje.xad

Created: 2/22/2013 4:04:31 PM
 Modified: 2/22/2013 4:51:24 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : MeCP2KO MNase/code2

Number of peaks found: 5 Corr. Area 1: 1,678.6
 Noise: 0.4

Peak table for sample 2 : MeCP2KO MNase/code2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	41	51.50	1,888.8	
3	225	1,685.18	11,336.9	
4	623	626.81	1,523.6	
5	765	40.66	80.6	
6	911	6.46	10.7	
7	10,380	75.00	10.9	Upper Marker

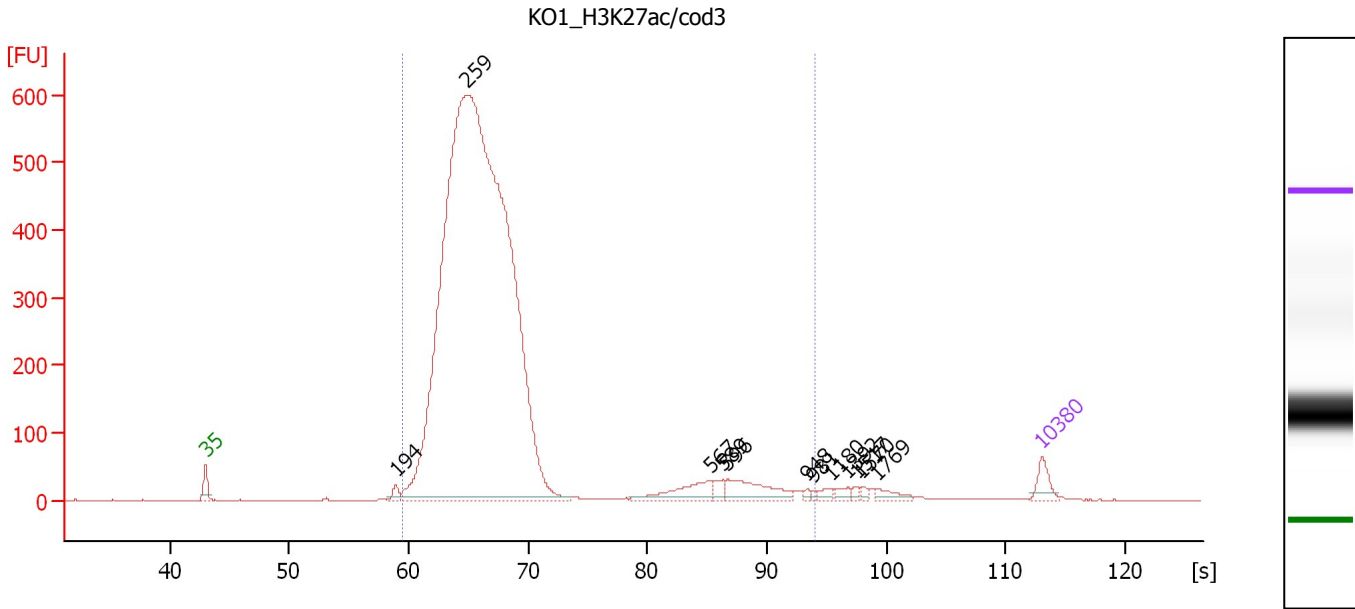
Region table for sample 2 : MeCP2KO MNase/code2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	440	10,960.2	2,285.96	1,678.6	74	45.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ngs\Bioanalyzer\2013-02-22\2013-02-22_001_gonglab_Wooje.xad

Created: 2/22/2013 4:04:31 PM
 Modified: 2/22/2013 4:51:24 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : KO1_H3K27ac/cod3

Number of peaks found: 12 Corr. Area 1: 6,493.0
 Noise: 0.4

Peak table for sample 3 : KO1_H3K27ac/cod3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	194	54.48	426.1	
3	259	11,879.43	69,434.2	
4	567	194.23	519.4	
5	589	48.57	125.0	
6	596	228.97	582.4	
7	948	15.28	24.4	
8	981	13.49	20.8	
9	1,180	29.79	38.3	
10	1,392	34.46	37.5	
11	1,517	16.36	16.3	
12	1,570	16.08	15.5	
13	1,769	47.27	40.5	
14	10,380	75.00	10.9	Upper Marker

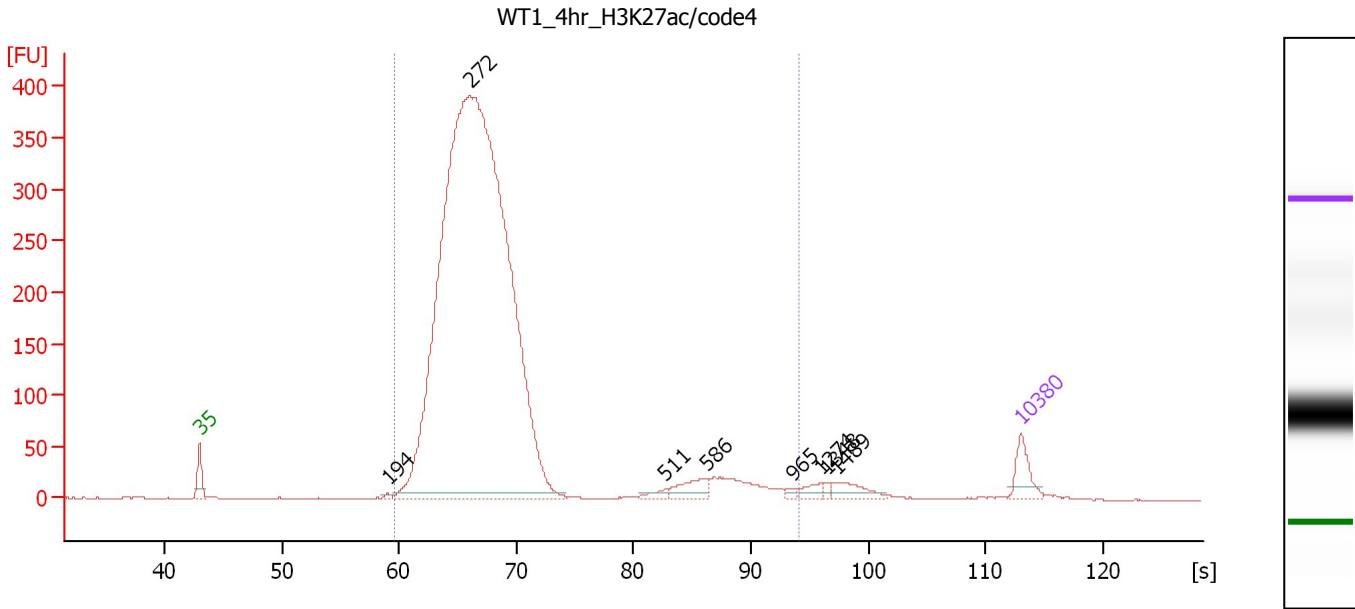
Region table for sample 3 : KO1_H3K27ac/cod3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	296	66,803.7	12,132.27	6,493.0	97	35.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ngs\Bioanalyzer\2013-02-22\2013-02-22_001_gonglab_Wooje.xad

Created: 2/22/2013 4:04:31 PM
 Modified: 2/22/2013 4:51:24 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : WT1_4hr_H3K27ac/code4

Number of peaks found: 8 Corr. Area 1: 4,368.4
 Noise: 0.3

Peak table for sample 4 : WT1_4hr_H3K27ac/code4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	194	12.50	97.4	
3	272	7,151.37	39,785.5	
4	511	24.20	71.7	
5	586	85.34	220.6	
6	965	12.01	18.9	
7	1,274	30.11	35.8	
8	1,348	11.28	12.7	
9	1,489	59.49	60.5	
10	10,380	75.00	10.9	Upper Marker

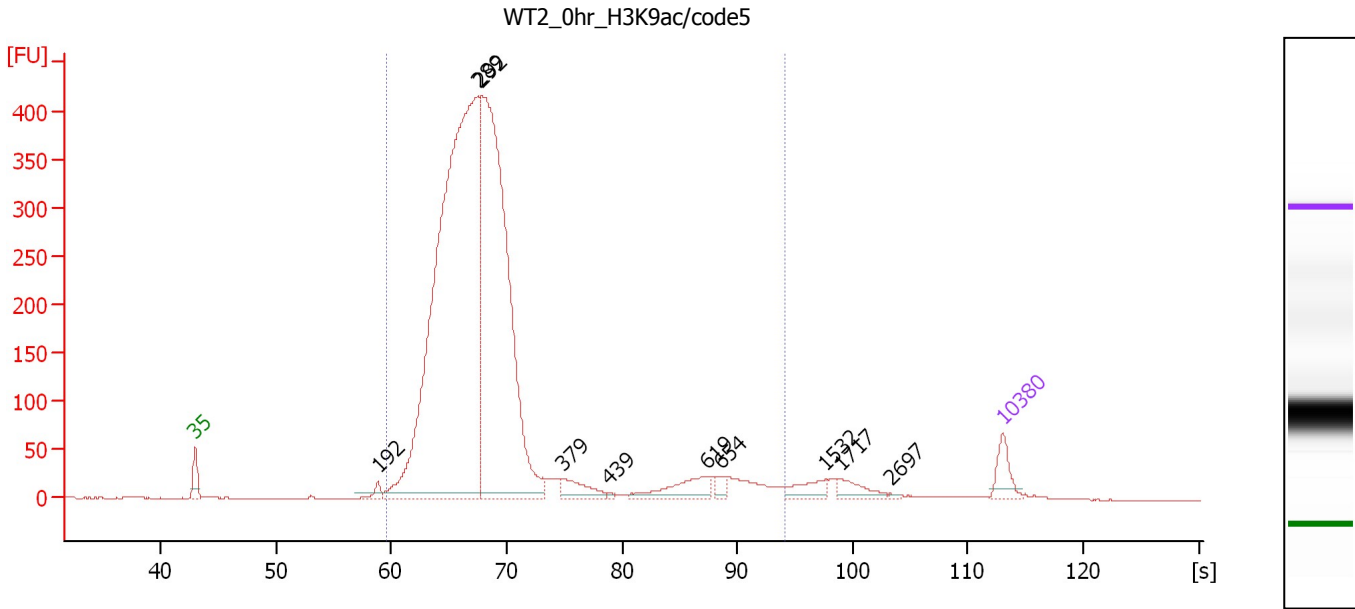
Region table for sample 4 : WT1_4hr_H3K27ac/code4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	304	39,610.7	7,396.67	4,368.4	97	33.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ngs\Bioanalyzer\2013-02-22\2013-02-22_001_gonglab_Wooje.xad

Created: 2/22/2013 4:04:31 PM
 Modified: 2/22/2013 4:51:24 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : WT2_0hr_H3K9ac/code5

Number of peaks found: 10 Corr. Area 1: 4,807.1
 Noise: 0.2

Peak table for sample 5 : WT2_0hr_H3K9ac/code5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	192	33.85	266.6	
3	289	4,197.28	21,988.1	
4	292	2,698.31	13,985.1	
5	379	104.11	415.8	
6	439	7.30	25.2	
7	619	142.46	348.9	
8	654	35.66	82.7	
9	1,532	67.02	66.3	
10	1,717	62.69	55.3	
11	2,697	5.62	3.2	
12	10,380	75.00	10.9	Upper Marker

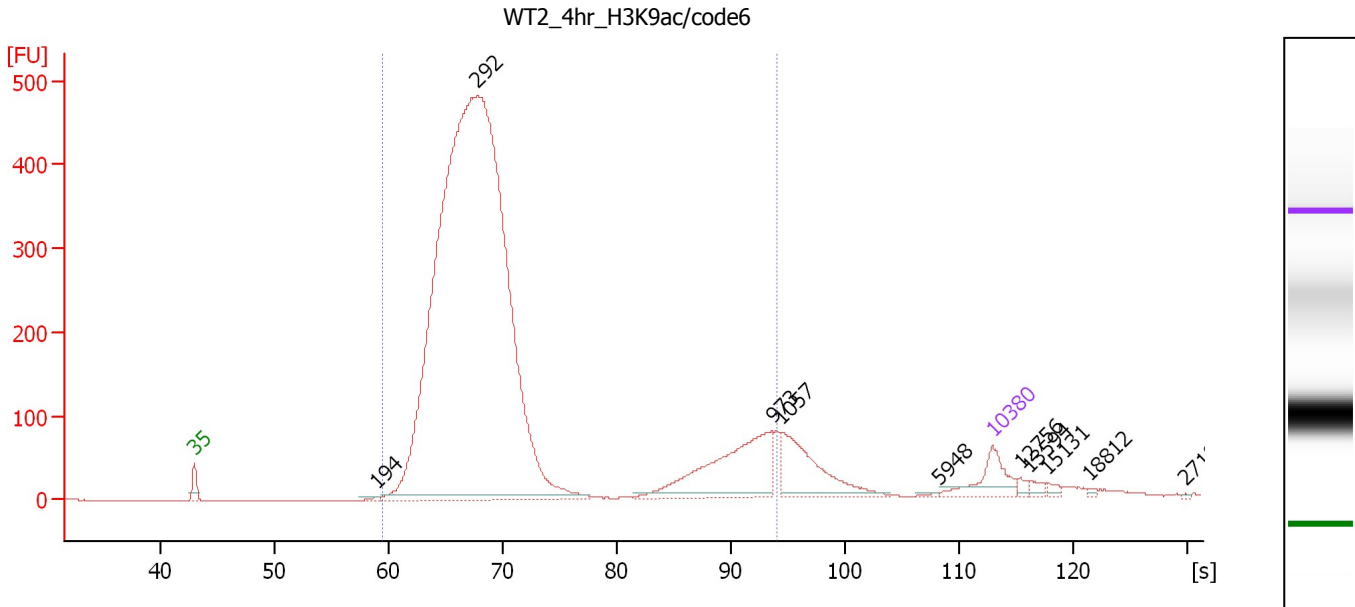
Region table for sample 5 : WT2_0hr_H3K9ac/code5

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	312	39,599.8	7,563.48	4,807.1	95	34.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ngs\Bioanalyzer\2013-02-22\2013-02-22_001_gonglab_Wooje.xad

Created: 2/22/2013 4:04:31 PM
 Modified: 2/22/2013 4:51:24 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : WT2_4hr_H3K9ac/code6

Number of peaks found: 10 Corr. Area 1: 5,696.9
 Noise: 0.2

Peak table for sample 6 : WT2_4hr_H3K9ac/code6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	194	8.40	65.7	
3	292	4,569.84	23,698.9	
4	973	324.17	504.6	
5	1,057	201.21	288.5	
6	5,948	3.39	0.9	
7	10,380	75.00	10.9	Upper Marker
8	12,756	0.00	0.0	
9	13,594	0.00	0.0	
10	15,131	0.00	0.0	
11	18,812	0.00	0.0	
12	27,103	0.00	0.0	

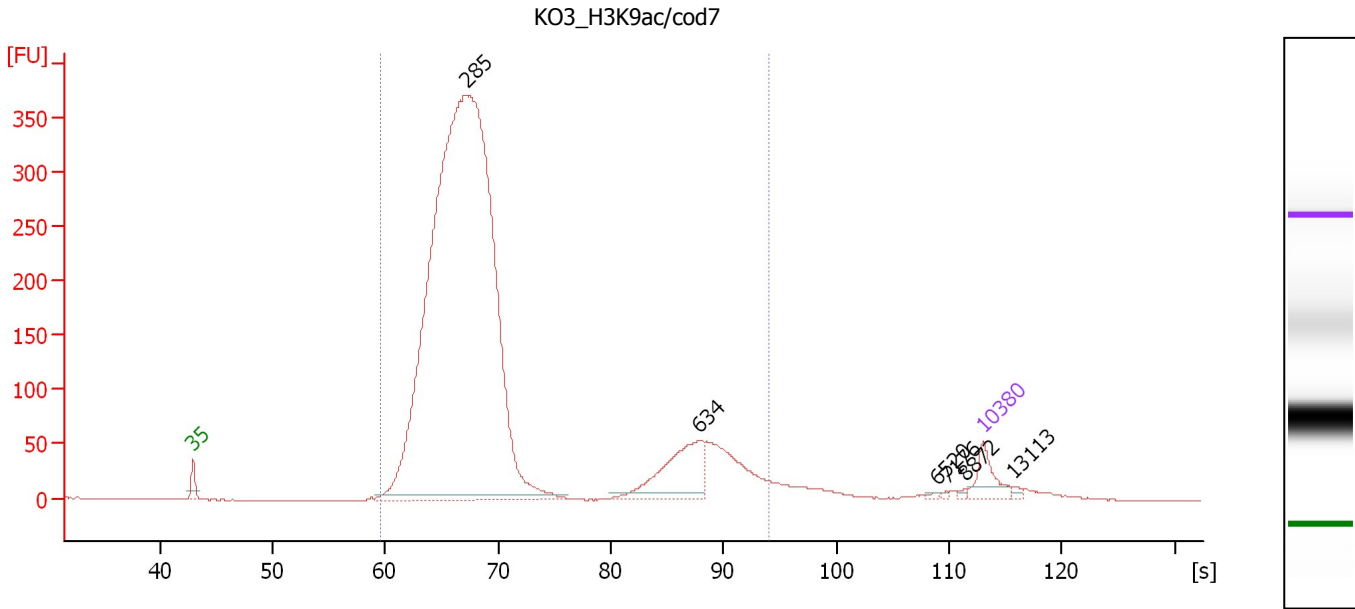
Region table for sample 6 : WT2_4hr_H3K9ac/code6

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	345	25,043.8	4,930.55	5,696.9	93	47.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ngs\Bioanalyzer\2013-02-22\2013-02-22_001_gonglab_Wooje.xad

Created: 2/22/2013 4:04:31 PM
 Modified: 2/22/2013 4:51:24 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : KO3_H3K9ac/cod7

Number of peaks found: 6 Corr. Area 1: 4,197.7
 Noise: 0.2

Peak table for sample 7 : KO3_H3K9ac/cod7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	285	5,664.45	30,083.8	
3	634	308.33	736.7	
4	6,520	4.97	1.2	
5	7,176	4.07	0.9	
6	8,872	5.54	0.9	
7	10,380	75.00	10.9	Upper Marker
8	13,113	0.00	0.0	

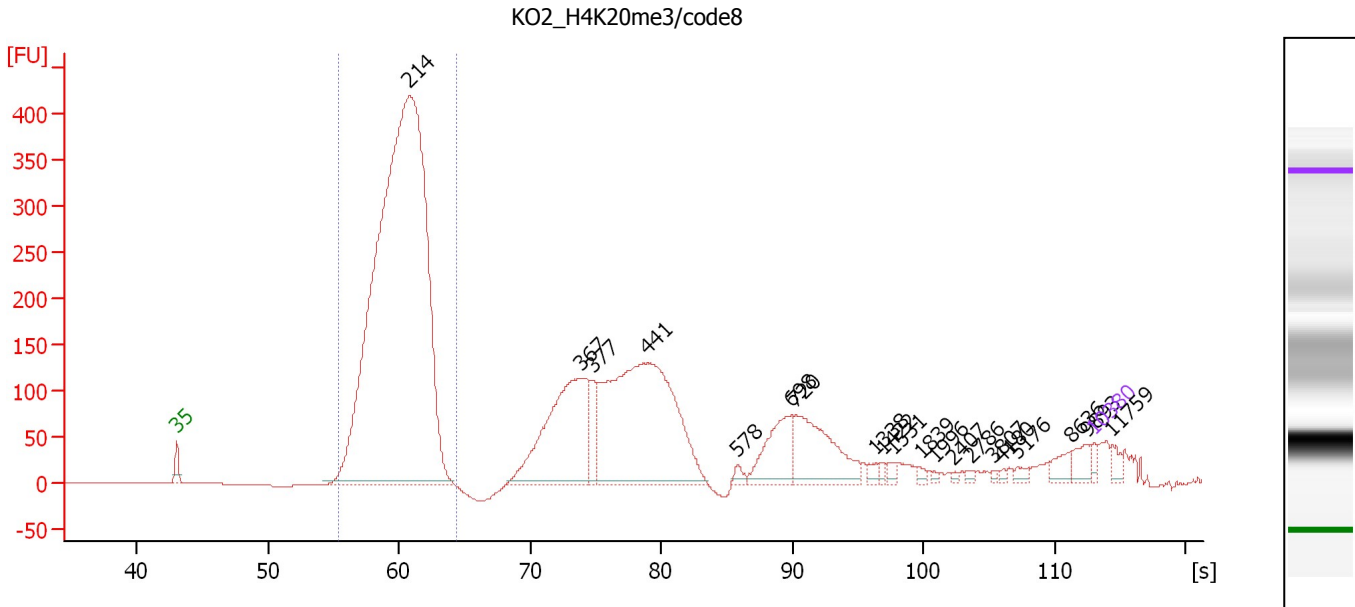
Region table for sample 7 : KO3_H3K9ac/cod7

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	339	32,283.2	6,288.49	4,197.7	96	43.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ngs\Bioanalyzer\2013-02-22\2013-02-22_001_gonglab_Wooje.xad

Created: 2/22/2013 4:04:31 PM
 Modified: 2/22/2013 4:51:24 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : KO2_H4K20me3/code8

Number of peaks found: 20 Corr. Area 1: 3,610.9
 Noise: 0.2

Peak table for sample 8 : KO2_H4K20me3/code8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	214	20,216.20	143,444.5	
3	367	3,019.37	12,468.2	
4	377	418.30	1,680.7	
5	441	5,251.21	18,028.2	
6	578	88.80	232.8	
7	698	888.45	1,927.4	
8	720	1,322.50	2,782.0	
9	1,338	75.97	86.0	
10	1,422	51.76	55.1	
11	1,531	66.01	65.3	
12	1,839	53.20	43.8	
13	1,996	24.20	18.4	
14	2,407	26.82	16.9	
15	2,786	33.43	18.2	
16	3,807	24.66	9.8	
17	4,180	31.03	11.2	
18	5,176	68.33	20.0	
19	8,636	160.47	28.2	
20	9,893	179.27	27.5	
21	10,380	75.00	10.9	Upper Marker
22	11,759	0.00	0.0	

Region table for sample 8 : KO2_H4K20me3/code8

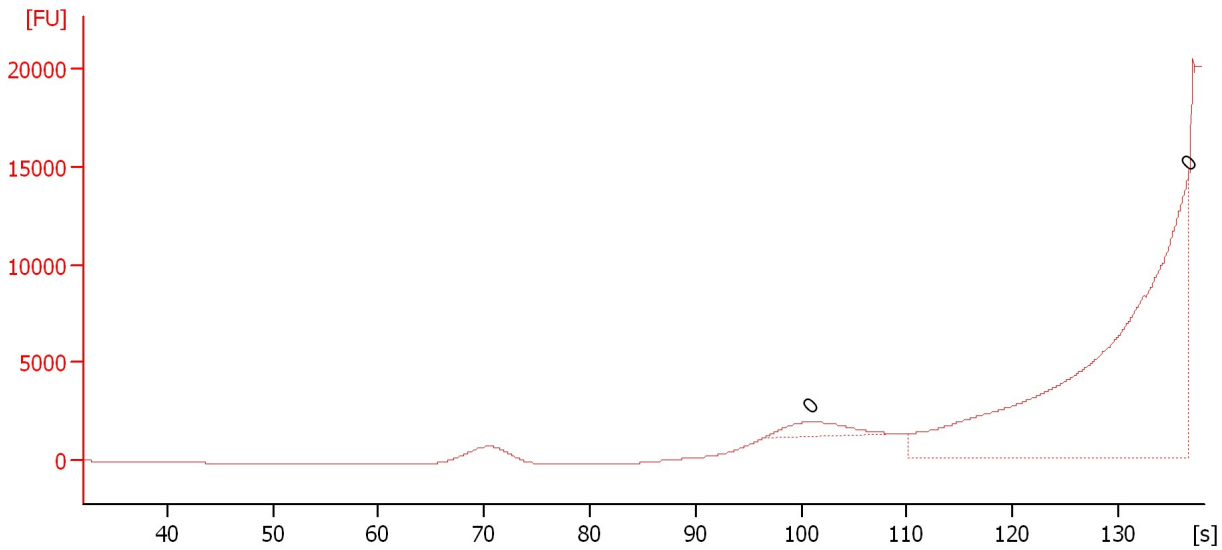
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
154	253	205	153,463.9	20,556.02	3,610.9	56	9.0	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ngs\Bioanalyzer\2013-02-22\2013-02-22_001_gonglab_Wooje.xad

Created: 2/22/2013 4:04:31 PM
Modified: 2/22/2013 4:51:24 PM

Electropherogram Summary Continued ...

empty/code9



Overall Results for sample 9 : empty/code9

Number of peaks found: 0 Noise: 3.2

Peak table for sample 9 : empty/code9

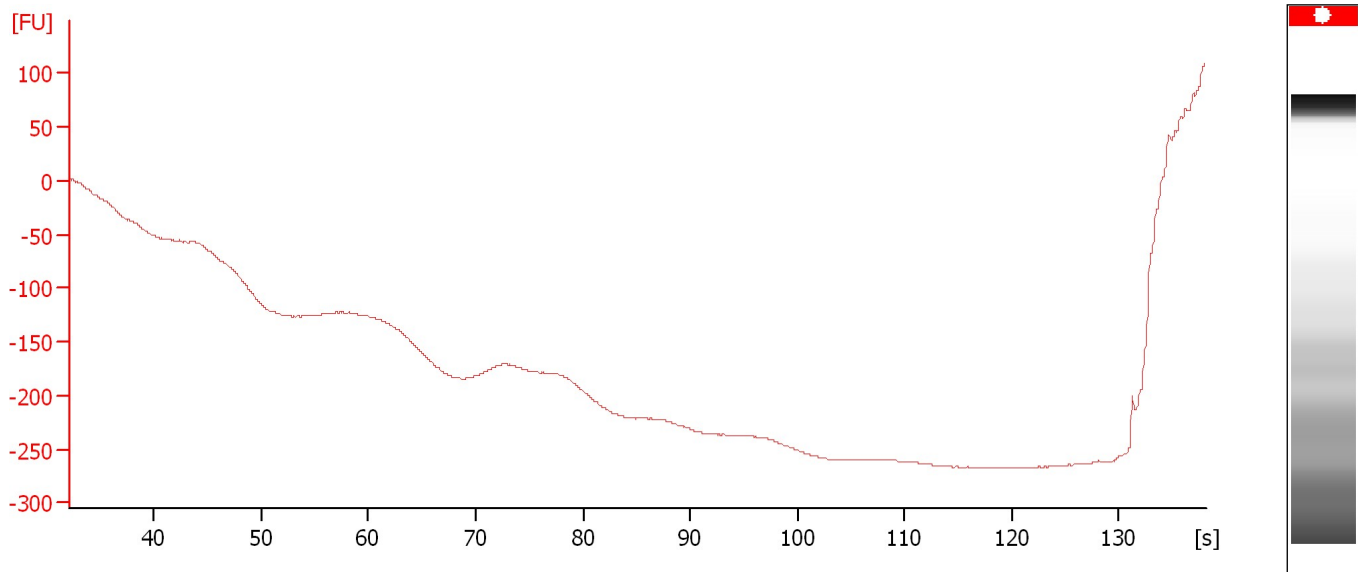
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	
2	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ngs\Bioanalyzer\2013-02-22\2013-02-22_001_gonglab_Wooje.xad

Created: 2/22/2013 4:04:31 PM
Modified: 2/22/2013 4:51:24 PM

Electropherogram Summary Continued ...

KO3_H4K20me3/code10



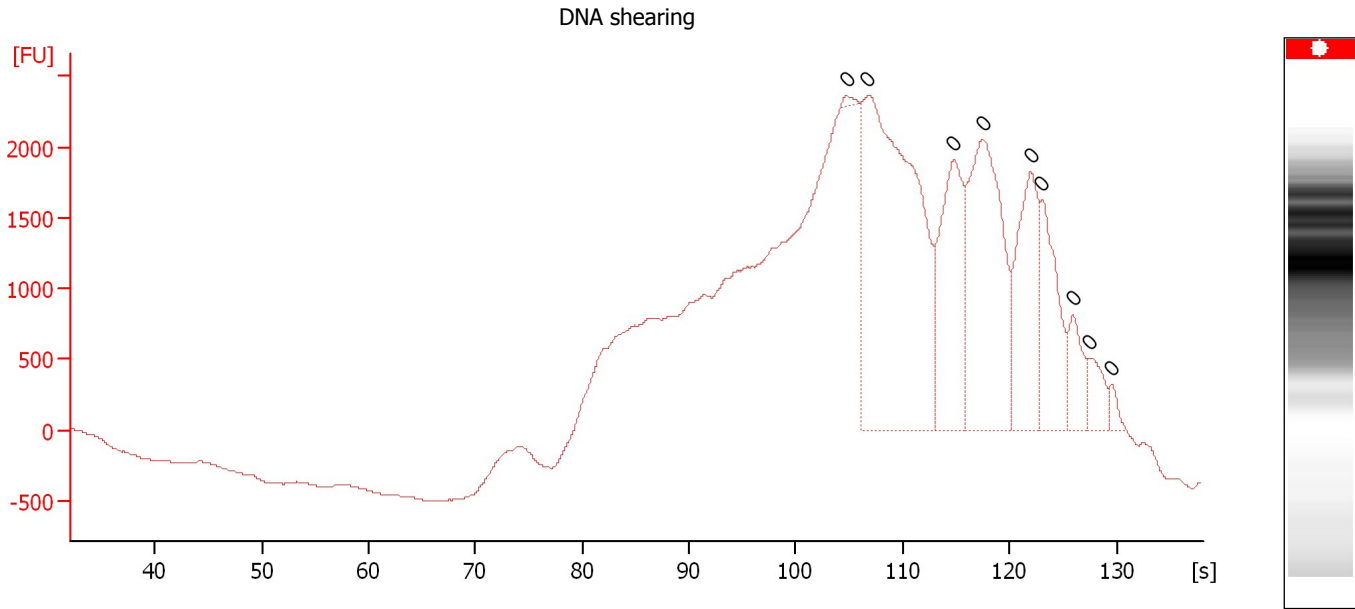
Overall Results for sample 10 : KO3_H4K20me3/code10

Noise: 0.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ngs\Bioanalyzer\2013-02-22\2013-02-22_001_gonglab_Wooje.xad

Created: 2/22/2013 4:04:31 PM
 Modified: 2/22/2013 4:51:24 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : DNA shearing

Number of peaks found: 0 Noise: 9.3

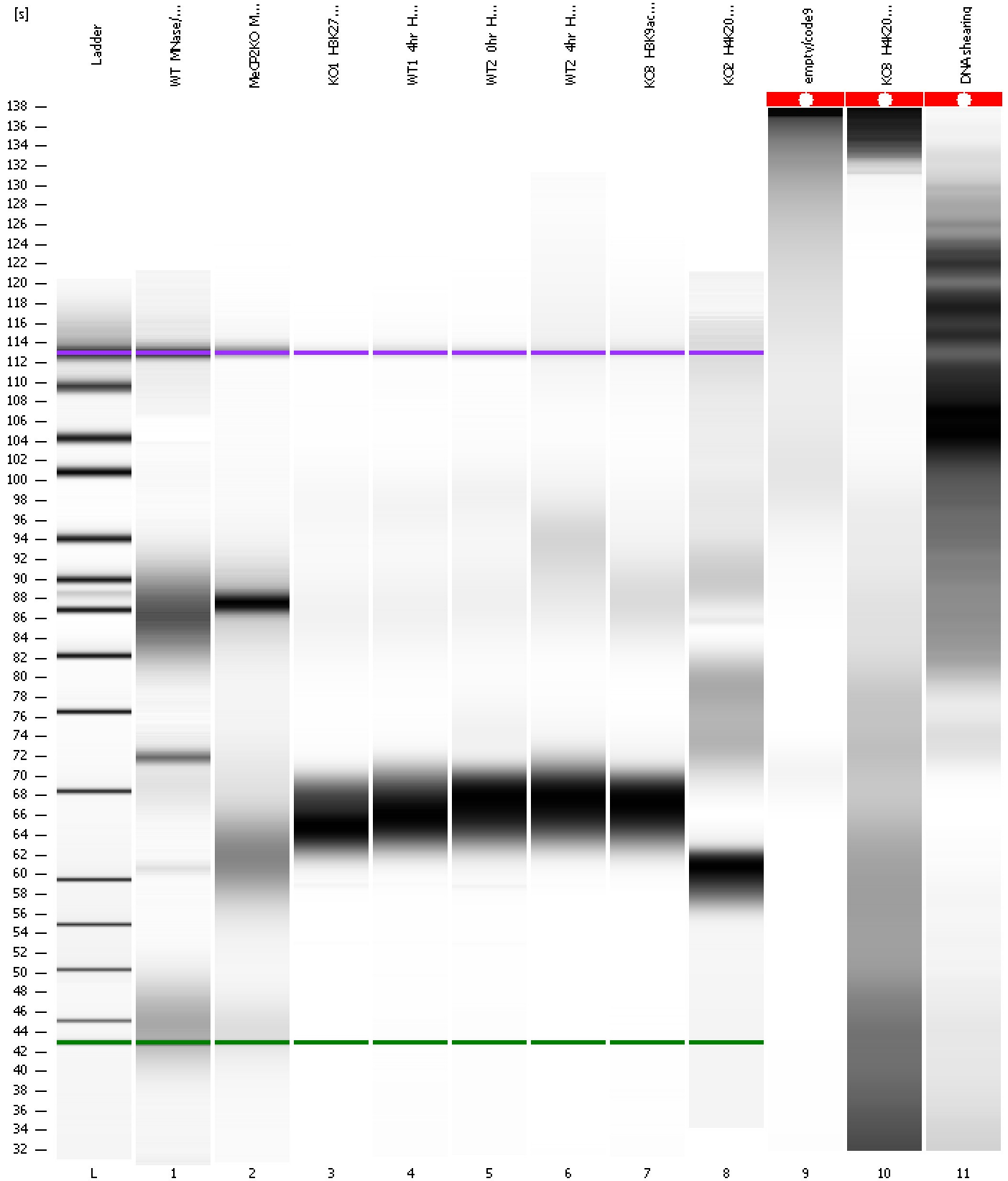
Peak table for sample 11 : DNA shearing

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	
2	0	0.00	0.0	
3	0	0.00	0.0	
4	0	0.00	0.0	
5	0	0.00	0.0	
6	0	0.00	0.0	
7	0	0.00	0.0	
8	0	0.00	0.0	
9	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ngs\Bioanalyzer(2013-02-22)\2013-02-22_001_gonglab_Wooje.xad

Created: 2/22/2013 4:04:31 PM
Modified: 2/22/2013 4:51:24 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ngs\Bioanalyzer\2013-02-22\2013-02-22_001_gonglab_Wooje.xad

Created: 2/22/2013 4:04:31 PM
 Modified: 2/22/2013 4:51:24 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		2/22/2013 4:45:50 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-02-22\2013-02-22_001.xad)		Instrument	Run		2/22/2013 4:04:37 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/22/2013 4:04:37 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/22/2013 4:04:37 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/22/2013 4:04:37 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/22/2013 4:04:37 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/22/2013 4:04:37 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/22/2013 4:04:37 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1