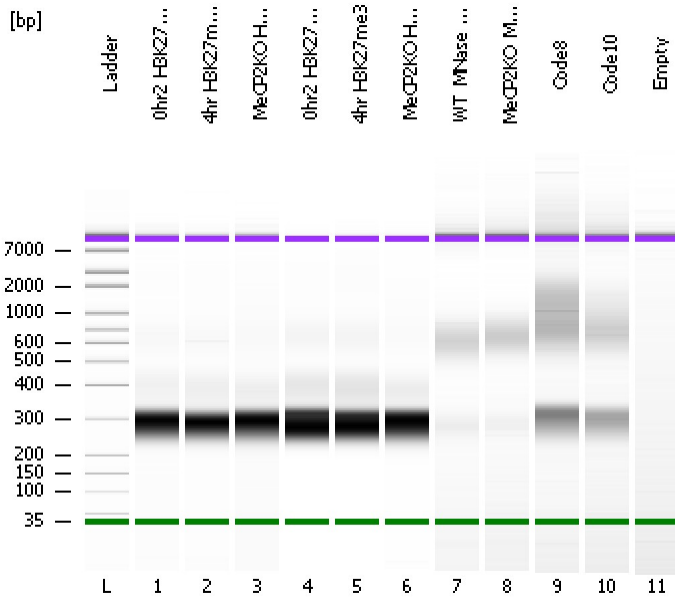


Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-04\2013-03-04\_002.xad

Created: 3/4/2013 12:08:39 PM  
 Modified: 3/4/2013 12:54:14 PM

**Electrophoresis File Run Summary**



Instrument Information:

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

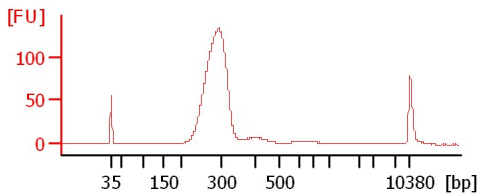
Assay Information:

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

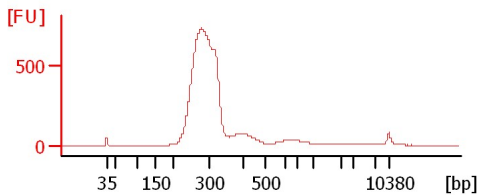
Chip Information:

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

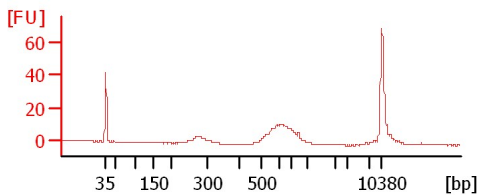
**0hr2 H3K27me3 1/10**



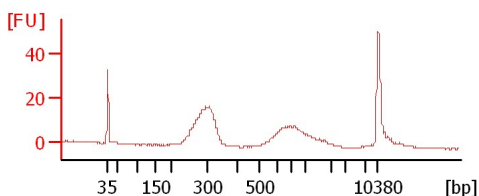
**0hr2 H3K27me3**



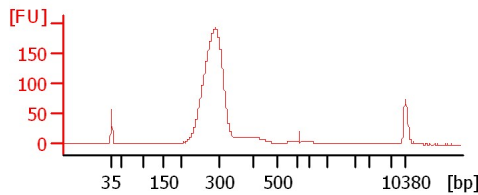
**WT\_MNase 1/10**



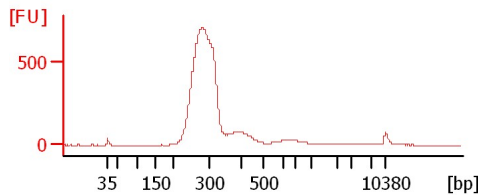
**Code10**



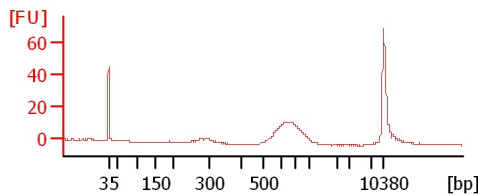
**4hr H3K27me3 1/10**



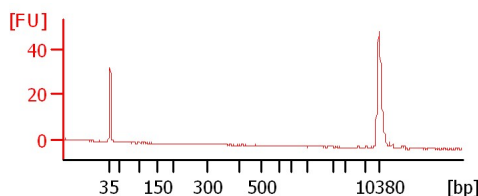
**4hr H3K27me3**



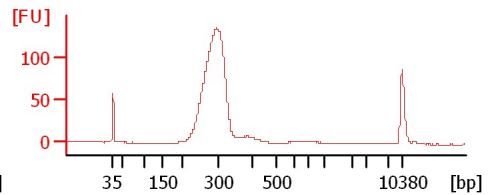
**MeCP2KO\_MNase 1/10**



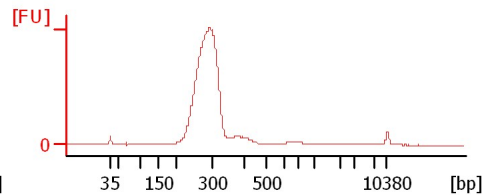
**Empty**



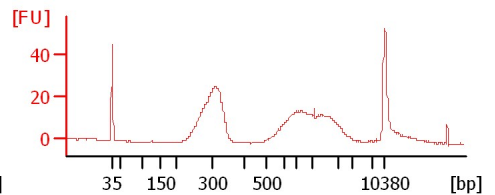
**MeCP2KO H3K27me3 1/10**



**MeCP2KO H3K27me3**



**Code8**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-04\2013-03-04\_002.xad

Created: 3/4/2013 12:08:39 PM  
 Modified: 3/4/2013 12:54:14 PM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
0hr2 H3K27me3 1/10		<input type="checkbox"/>	✓			
4hr H3K27me3 1/10		<input type="checkbox"/>	✓			
MeCP2KO H3K27me3 1/10		<input type="checkbox"/>	✓			
0hr2 H3K27me3		<input type="checkbox"/>	✓			
4hr H3K27me3		<input type="checkbox"/>	✓			
MeCP2KO H3K27me3		<input type="checkbox"/>	✓			
WT_MNase 1/10		<input type="checkbox"/>	✓			
MeCP2KO_MNase 1/10		<input type="checkbox"/>	✓			
Code8		<input type="checkbox"/>	✓			
Code10		<input type="checkbox"/>	✓			
Empty		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-04\2013-03-04\_002.xad

Created: 3/4/2013 12:08:39 PM  
 Modified: 3/4/2013 12:54:14 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

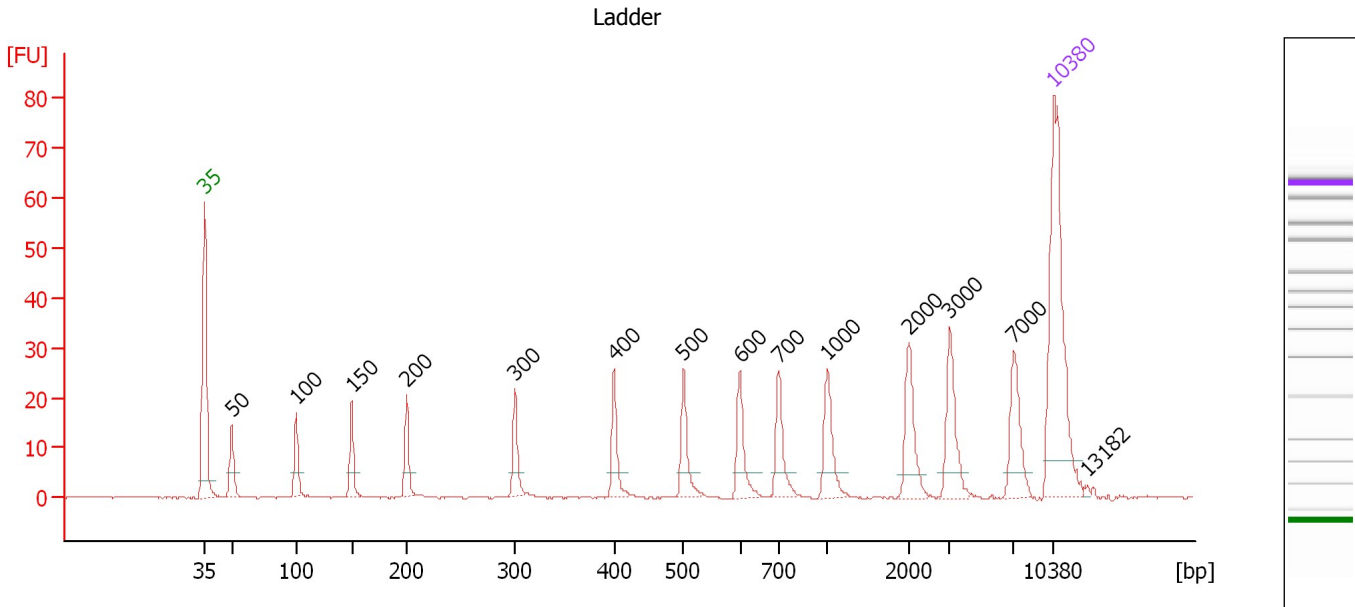
**Ladder**

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:\...ents and Settings\Bioanalyzer\2013-03-04\2013-03-04\_002.xad

Created: 3/4/2013 12:08:39 PM  
 Modified: 3/4/2013 12:54:14 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

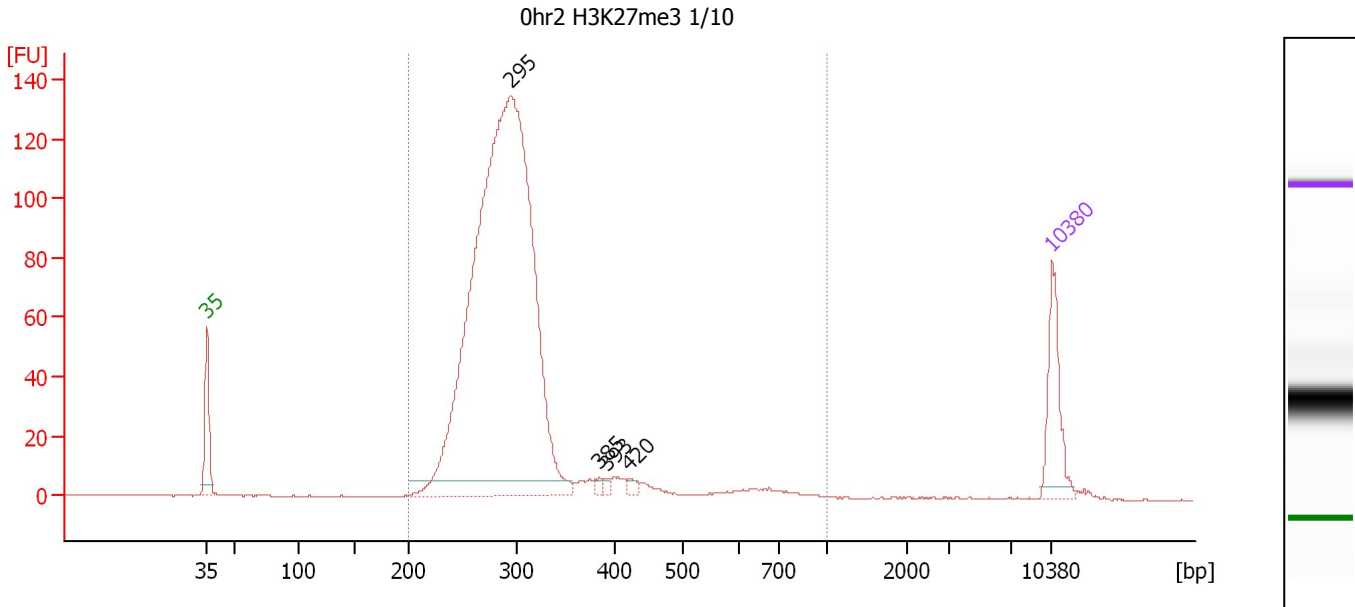
**Peak table for Ladder**

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
16	13,182	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-04\2013-03-04\_002.xad

Created: 3/4/2013 12:08:39 PM  
 Modified: 3/4/2013 12:54:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 0hr2 H3K27me3 1/10**

Number of peaks found: 4                      Corr. Area 1: 1,298.0  
 Noise: 0.2

**Peak table for sample 1 : 0hr2 H3K27me3 1/10**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	295	1,815.66	9,319.4	
3	385	7.72	30.4	
4	393	6.49	25.1	
5	420	8.75	31.5	
6	10,380	75.00	10.9	Upper Marker

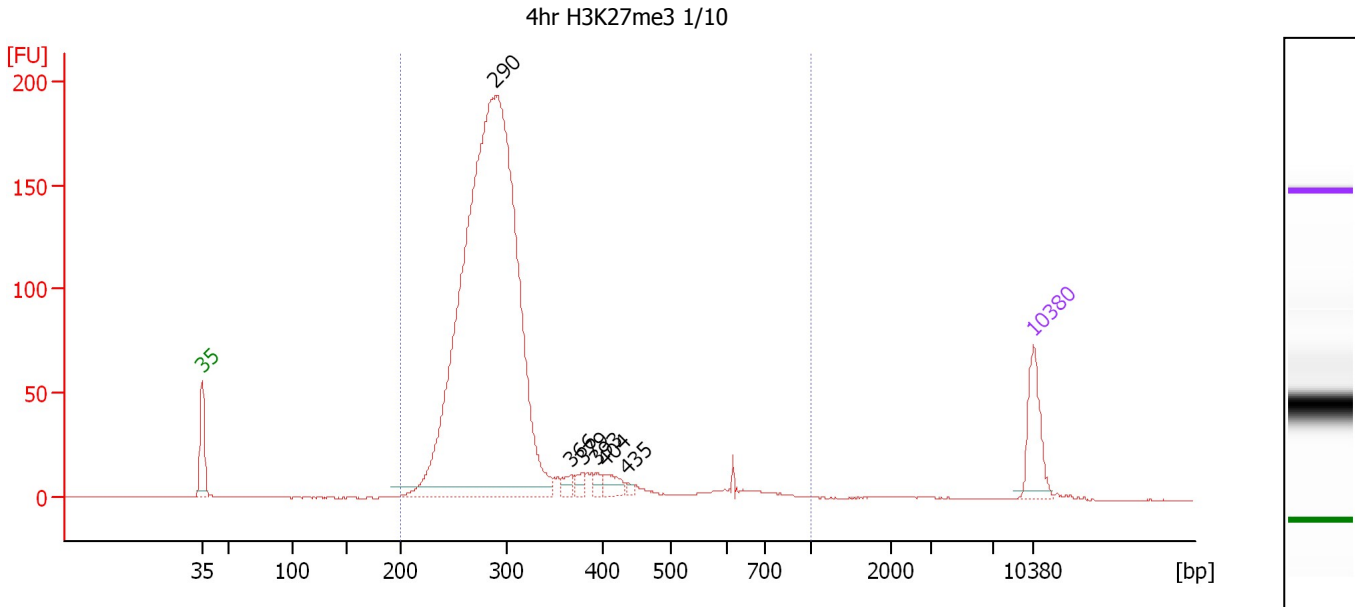
**Region table for sample 1 : 0hr2 H3K27me3 1/10**

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	10,363.8	1,996.27	1,298.0	98	24.8	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-04\2013-03-04\_002.xad

Created: 3/4/2013 12:08:39 PM  
 Modified: 3/4/2013 12:54:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 4hr H3K27me3 1/10**

Number of peaks found: 6                      Corr. Area 1: 1,774.8  
 Noise: 0.1

**Peak table for sample 2 : 4hr H3K27me3 1/10**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	290	2,383.61	12,461.3	
3	366	18.20	75.3	
4	379	16.51	66.0	
5	393	15.37	59.3	
6	404	29.46	110.5	
7	435	6.61	23.0	
8	10,380	75.00	10.9	Upper Marker

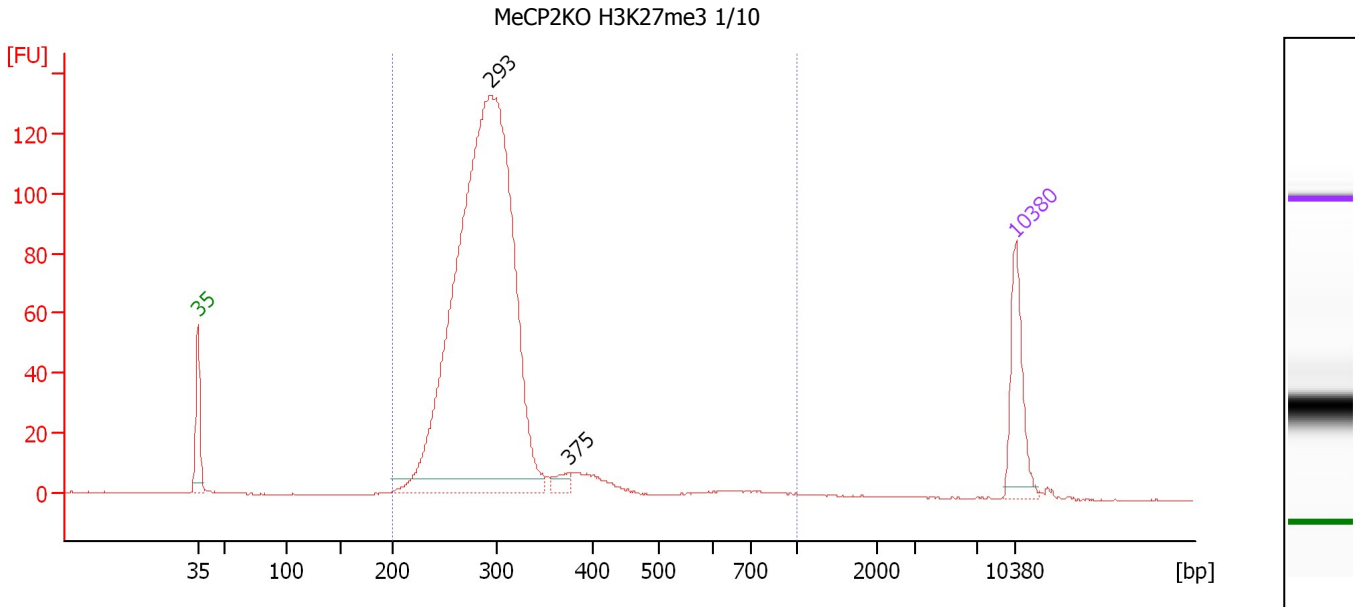
**Region table for sample 2 : 4hr H3K27me3 1/10**

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	303	13,761.0	2,634.50	1,774.8	99	25.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-04\2013-03-04\_002.xad

Created: 3/4/2013 12:08:39 PM  
 Modified: 3/4/2013 12:54:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : MeCP2KO H3K27me3 1/10**

Number of peaks found: 2                      Corr. Area 1: 1,275.4  
 Noise: 0.2

**Peak table for sample 3 : MeCP2KO H3K27me3 1/10**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	293	1,535.42	7,931.7	
3	375	17.12	69.2	
4	10,380	75.00	10.9	Upper Marker

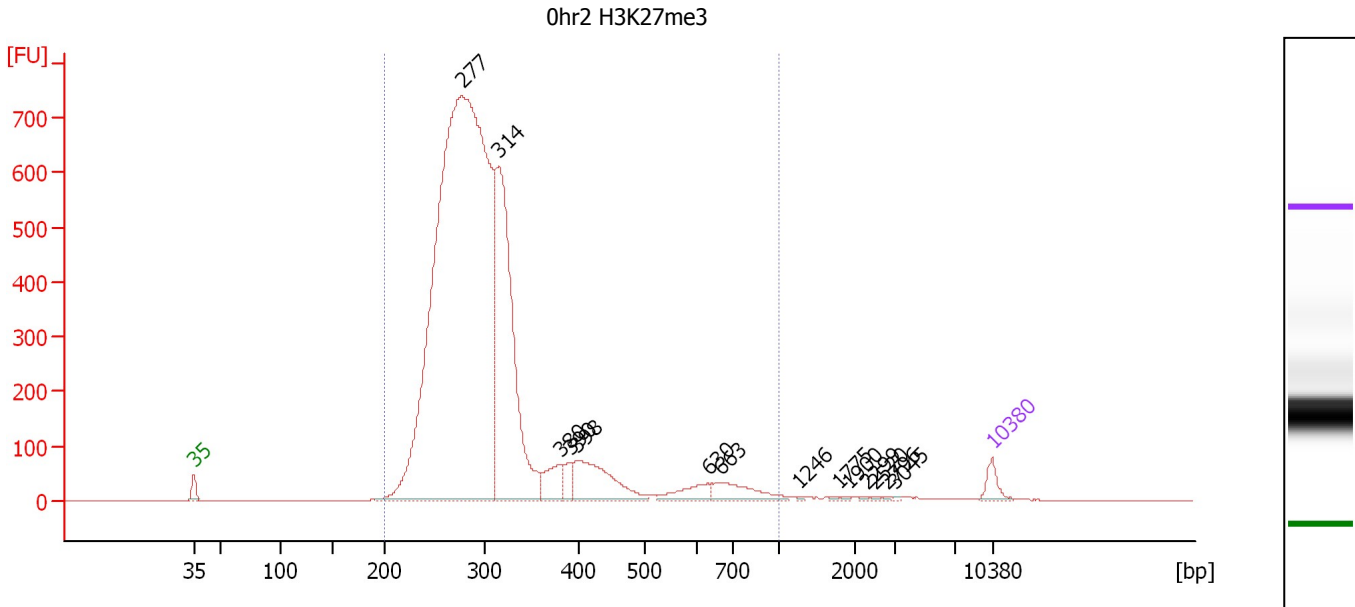
**Region table for sample 3 : MeCP2KO H3K27me3 1/10**

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	301	8,769.1	1,680.26	1,275.4	98	23.4	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-04\2013-03-04\_002.xad

Created: 3/4/2013 12:08:39 PM  
 Modified: 3/4/2013 12:54:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 0hr2 H3K27me3**

Number of peaks found: 14      Corr. Area 1: 8,862.1  
 Noise: 0.2

**Peak table for sample 4 : 0hr2 H3K27me3**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	277	10,149.57	55,522.0	
3	314	2,641.07	12,730.0	
4	380	211.27	843.3	
5	390	122.49	475.3	
6	398	535.71	2,037.1	
7	630	146.73	352.9	
8	663	214.79	490.5	
9	1,246	5.20	6.3	
10	1,775	5.32	4.5	
11	1,900	5.50	4.4	
12	2,299	5.23	3.4	
13	2,520	6.02	3.6	
14	2,796	4.79	2.6	
15	3,045	4.60	2.3	
16	10,380	75.00	10.9	Upper Marker

**Region table for sample 4 : 0hr2 H3K27me3**

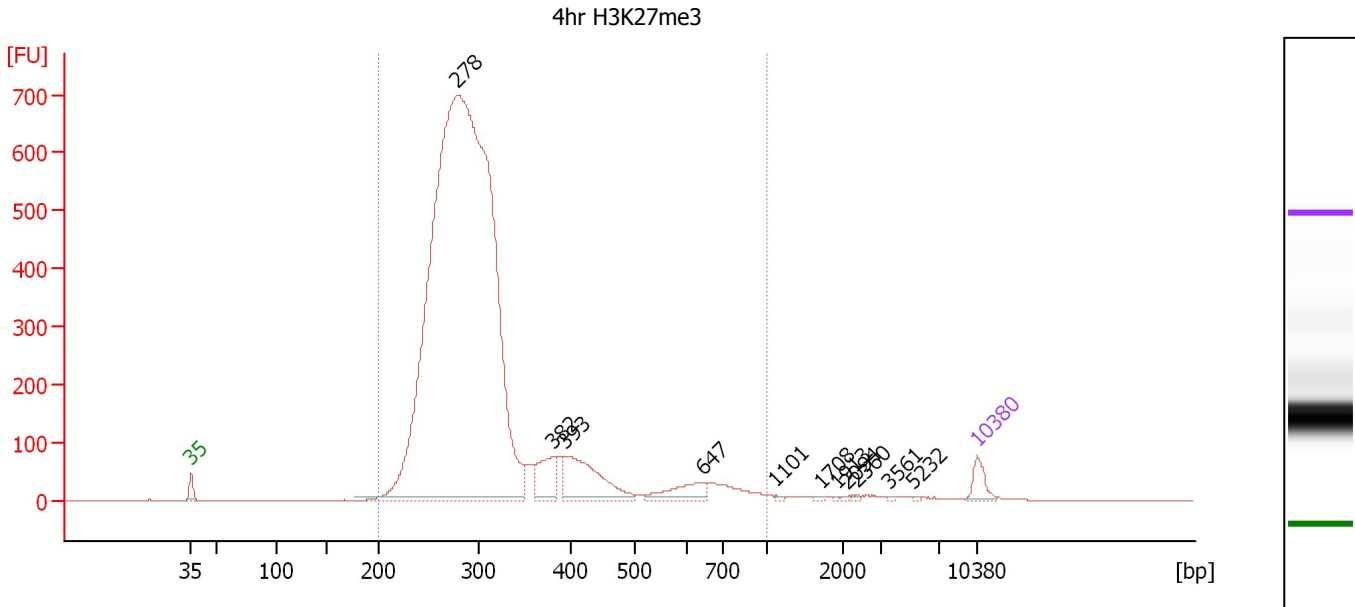
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	311	72,929.7	14,081.16	8,862.1	99	29.7	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-04\2013-03-04\_002.xad

Created: 3/4/2013 12:08:39 PM  
 Modified: 3/4/2013 12:54:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 4hr H3K27me3**

Number of peaks found: 11      Corr. Area 1: 7,943.5  
 Noise: 0.2

**Peak table for sample 5 : 4hr H3K27me3**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	278	10,517.49	57,344.2	
3	382	255.10	1,012.8	
4	393	493.56	1,901.7	
5	647	160.89	376.6	
6	1,101	7.94	10.9	
7	1,708	6.42	5.7	
8	1,913	4.78	3.8	
9	2,094	6.02	4.4	
10	2,360	7.52	4.8	
11	3,561	4.47	1.9	
12	5,232	3.46	1.0	
13	10,380	75.00	10.9	Upper Marker

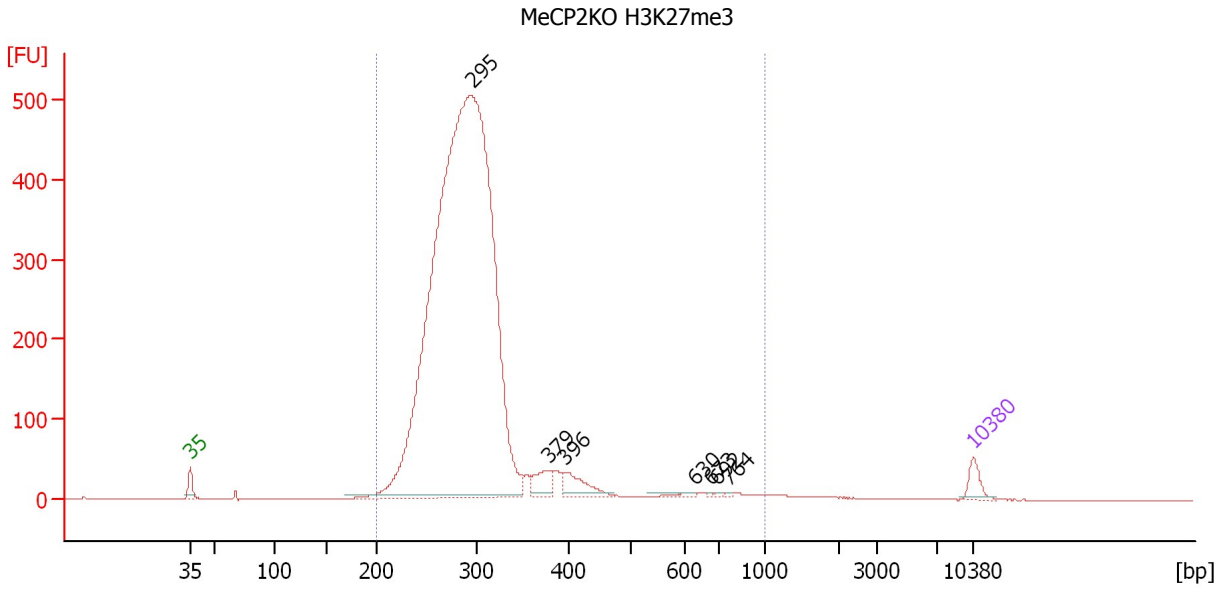
**Region table for sample 5 : 4hr H3K27me3**

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	313	59,980.2	11,612.77	7,943.5	98	29.8	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-04\2013-03-04\_002.xad

Created: 3/4/2013 12:08:39 PM  
 Modified: 3/4/2013 12:54:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : MeCP2KO H3K27me3**

Number of peaks found: 7                      Corr. Area 1: 5,203.8  
 Noise: 0.1

**Peak table for sample 6 : MeCP2KO H3K27me3**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	295	10,388.98	53,294.9	
3	379	157.06	628.1	
4	396	203.71	779.8	
5	630	28.60	68.8	
6	673	7.79	17.5	
7	692	8.38	18.3	
8	764	8.37	16.6	
9	10,380	75.00	10.9	Upper Marker

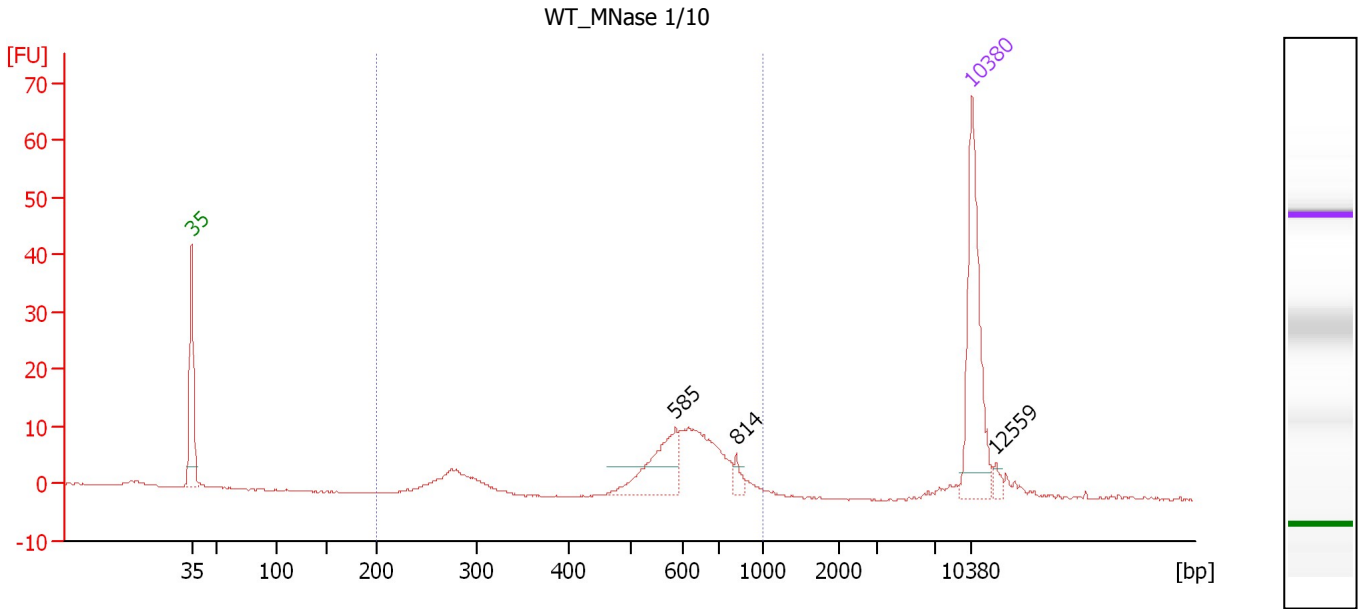
**Region table for sample 6 : MeCP2KO H3K27me3**

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	302	59,708.5	11,423.21	5,203.8	98	24.9	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-04\2013-03-04\_002.xad

Created: 3/4/2013 12:08:39 PM  
 Modified: 3/4/2013 12:54:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : WT\_MNase 1/10**

Number of peaks found: 3                      Corr. Area 1: 110.3  
 Noise: 0.1

**Peak table for sample 7 : WT\_MNase 1/10**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	585	48.70	126.2	
3	814	6.90	12.8	
4	10,380	75.00	10.9	Upper Marker
5	12,559	0.00	0.0	

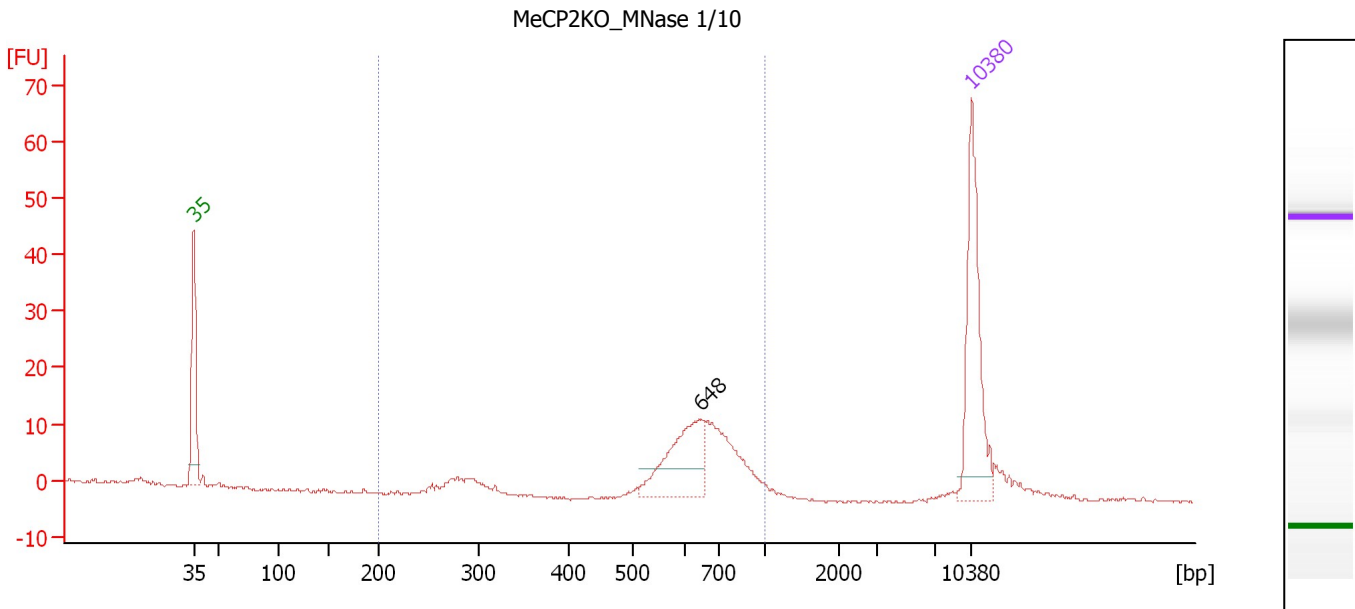
**Region table for sample 7 : WT\_MNase 1/10**

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	592	450.5	150.07	110.3	87	25.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-04\2013-03-04\_002.xad

Created: 3/4/2013 12:08:39 PM  
 Modified: 3/4/2013 12:54:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : MeCP2KO MNase 1/10**

Number of peaks found: 1                      Corr. Area 1: 105.6  
 Noise: 0.3

**Peak table for sample 8 : MeCP2KO MNase 1/10**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	648	68.54	160.2	
3	10,380	75.00	10.9	Upper Marker

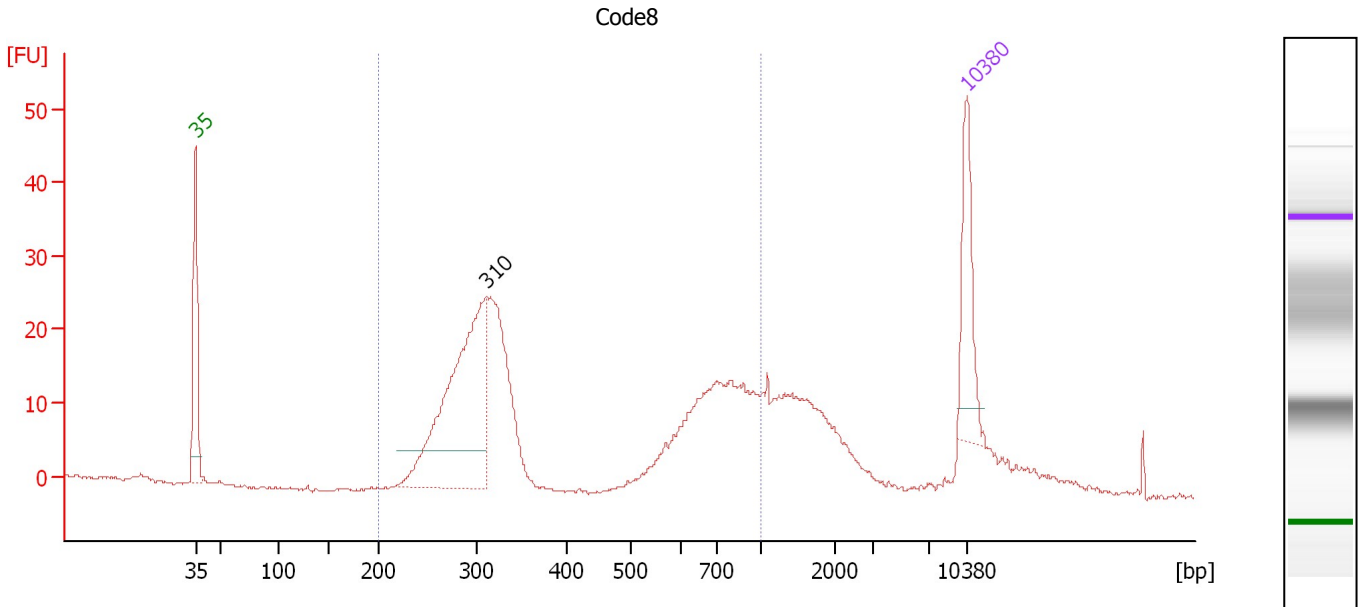
**Region table for sample 8 : MeCP2KO MNase 1/10**

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	651	342.0	132.14	105.6	85	21.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-04\2013-03-04\_002.xad

Created: 3/4/2013 12:08:39 PM  
 Modified: 3/4/2013 12:54:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : Code8**

Number of peaks found: 1                      Corr. Area 1: 340.8  
 Noise: 0.2

**Peak table for sample 9 : Code8**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	310	372.05	1,815.6	
3	10,380	75.00	10.9	Upper Marker

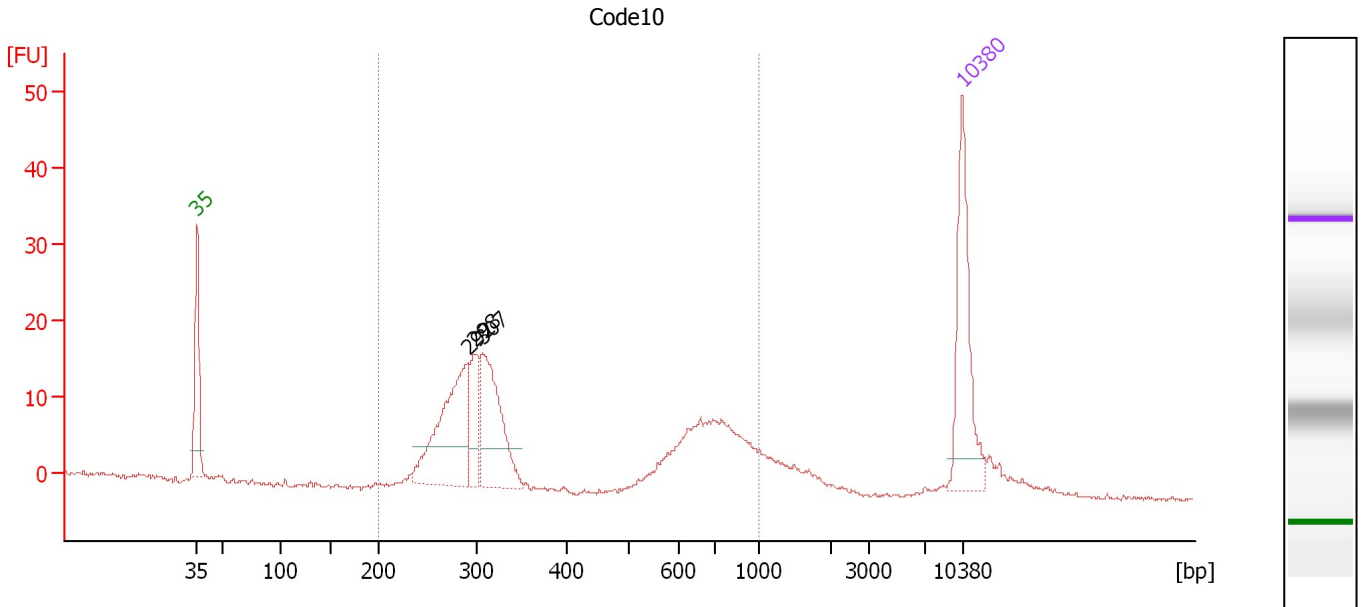
**Region table for sample 9 : Code8**

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	484	3,530.0	844.75	340.8	72	47.9	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-04\2013-03-04\_002.xad

Created: 3/4/2013 12:08:39 PM  
 Modified: 3/4/2013 12:54:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : Code10**

Number of peaks found: 3                      Corr. Area 1: 217.3  
 Noise: 0.3

**Peak table for sample 10 : Code10**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	292	141.85	736.9	
3	298	45.01	229.1	
4	307	109.34	539.6	
5	10,380	75.00	10.9	Upper Marker

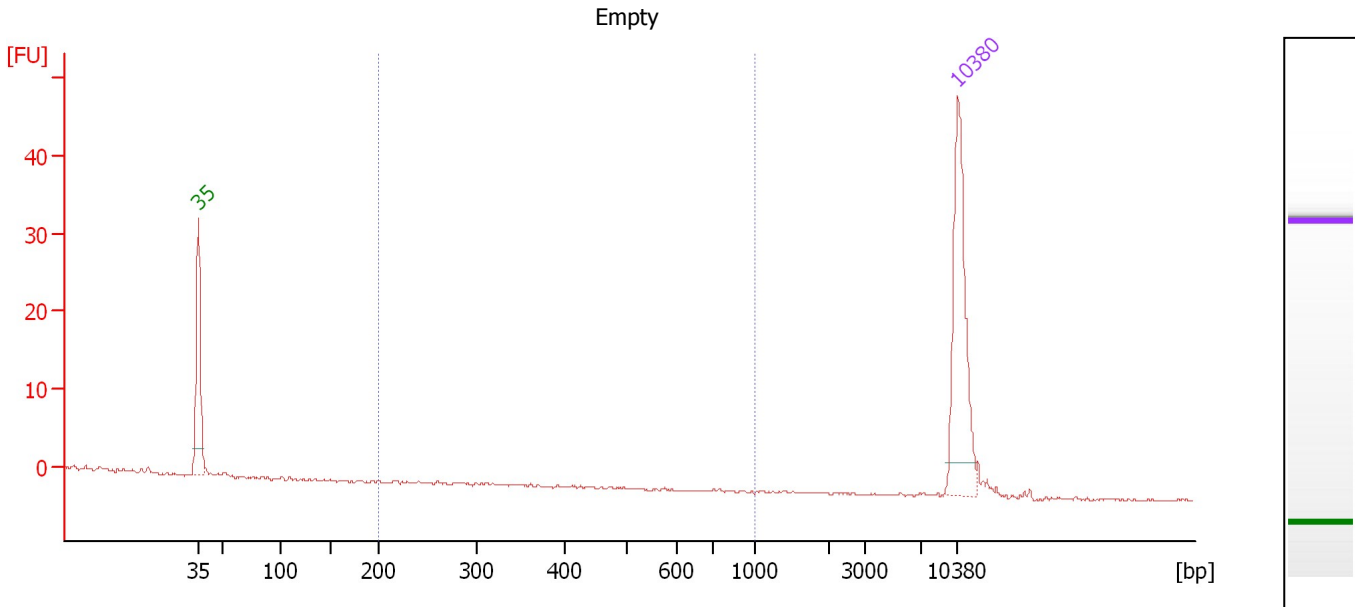
**Region table for sample 10 : Code10**

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	466	1,832.5	424.94	217.3	85	47.9	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-04\2013-03-04\_002.xad

Created: 3/4/2013 12:08:39 PM  
 Modified: 3/4/2013 12:54:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : Empty**

Number of peaks found: 0                      Corr. Area 1: 0.0  
 Noise: 0.1

**Peak table for sample 11 : Empty**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

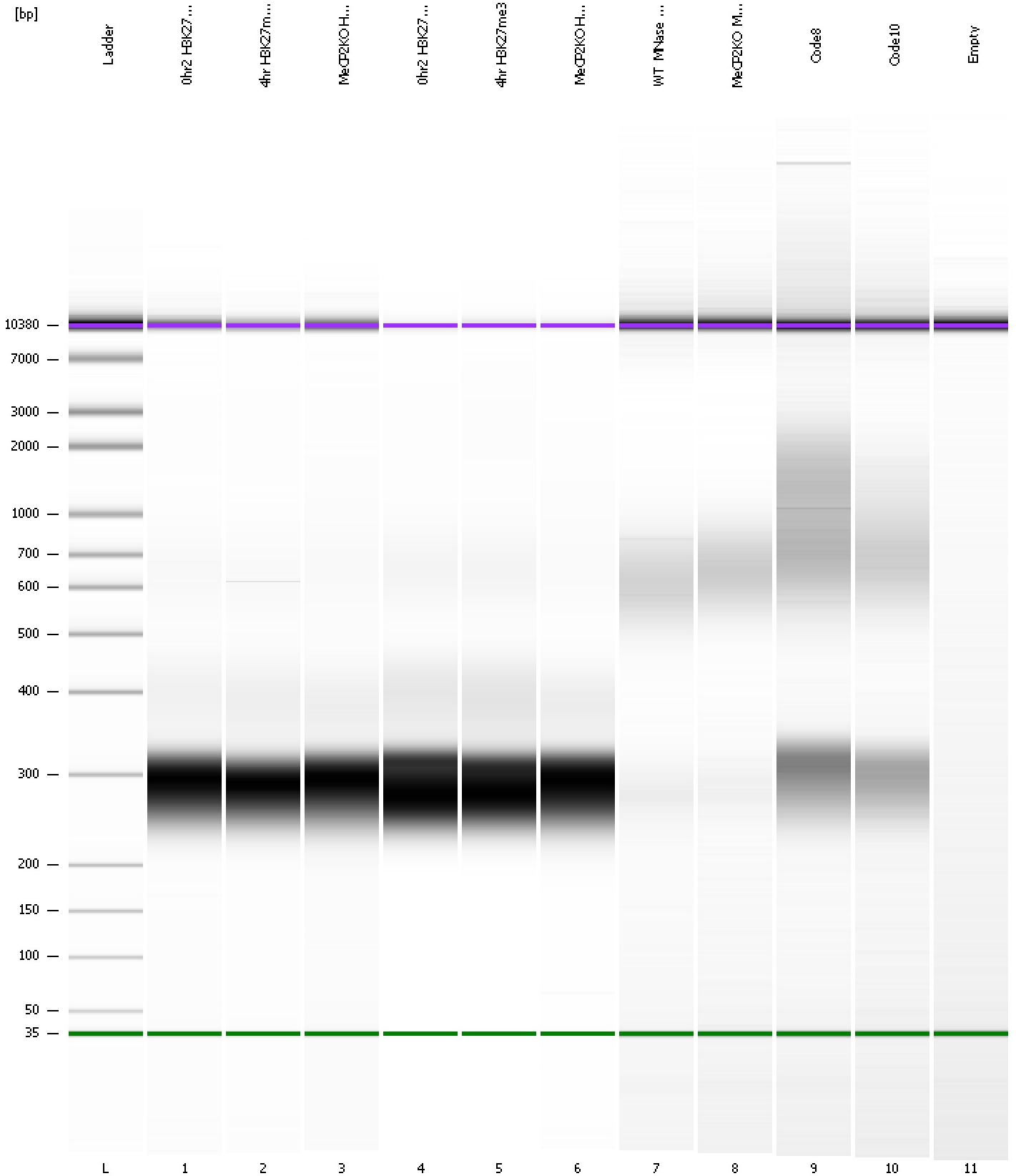
**Region table for sample 11 : Empty**

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	0	0.0	0.00	0.0	0	0.0	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-04\2013-03-04\_002.xad

Created: 3/4/2013 12:08:39 PM  
Modified: 3/4/2013 12:54:14 PM

**Gel Image**





Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-04\2013-03-04\_002.xad

Created: 3/4/2013 12:08:39 PM  
 Modified: 3/4/2013 12:54:14 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		3/4/2013 12:49:57 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-03-04\2013-03-04_002.xad)		Instrument	Run		3/4/2013 12:08:45 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/4/2013 12:08:45 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/4/2013 12:08:45 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/4/2013 12:08:45 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/4/2013 12:08:45 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/4/2013 12:08:45 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/4/2013 12:08:45 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1