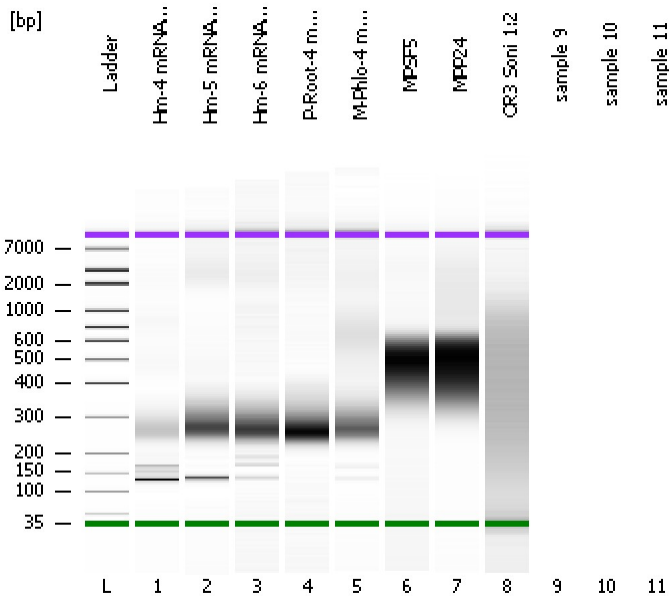


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-11\2013-10-11\_005.xad

Created: 10/11/2013 4:09:57 PM  
Modified: 10/11/2013 4:54:01 PM

**Electrophoresis File Run Summary**



Instrument Information:

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

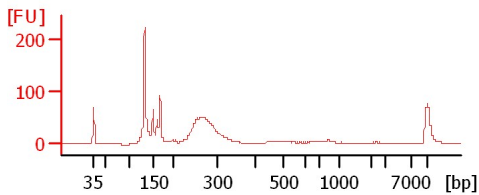
Assay Information:

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

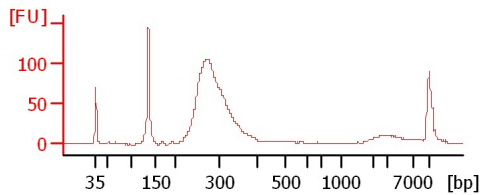
Chip Information:

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

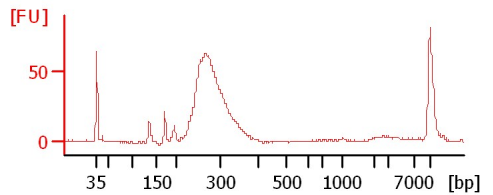
**Hm-4 mRNA Lib**



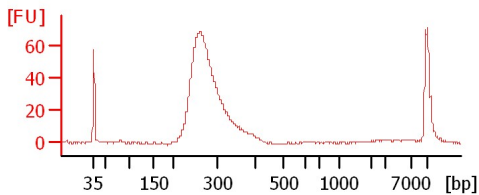
**Hm-5 mRNA Lib**



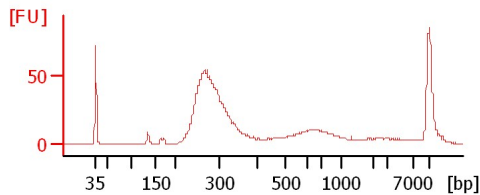
**Hm-6 mRNA Lib**



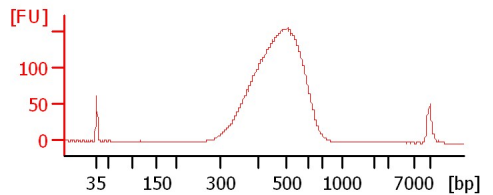
**P-Root-4 mRNA lib**



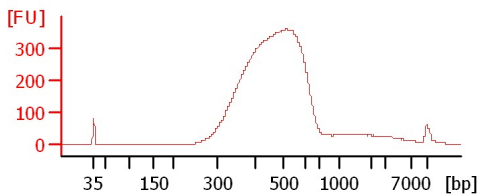
**M-Phlo-4 mRNA lib**



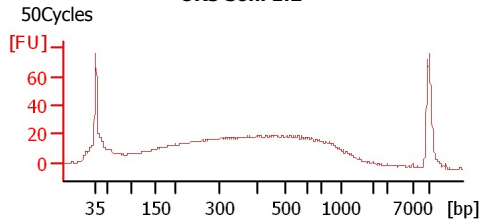
**MPSF5**



**MPP24**



**OR3 Soni 1:2**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-11\2013-10-11\_005.xad

Created: 10/11/2013 4:09:57 PM  
Modified: 10/11/2013 4:54:01 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Hm-4 mRNA Lib		<input type="checkbox"/>	✓			
Hm-5 mRNA Lib		<input type="checkbox"/>	✓			
Hm-6 mRNA Lib		<input type="checkbox"/>	✓			
P-Root-4 mRNA lib		<input type="checkbox"/>	✓			
M-Phlo-4 mRNA lib		<input type="checkbox"/>	✓			
MPSF5		<input type="checkbox"/>	✓			
MPP24		<input type="checkbox"/>	✓			
OR3 Soni 1:2	50Cycles	<input type="checkbox"/>	✓			
sample 9		<input type="checkbox"/>				
sample 10		<input type="checkbox"/>				
sample 11		<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\2013-10-11\2013-10-11\_005.xad

Created: 10/11/2013 4:09:57 PM  
Modified: 10/11/2013 4:54:01 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/ $\mu$ l] : 1950  
Uses Standard Area for Ladder Fragments  
Lower Marker Concentration [pg/ $\mu$ l] : 125  
Upper Marker Concentration [pg/ $\mu$ l] : 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

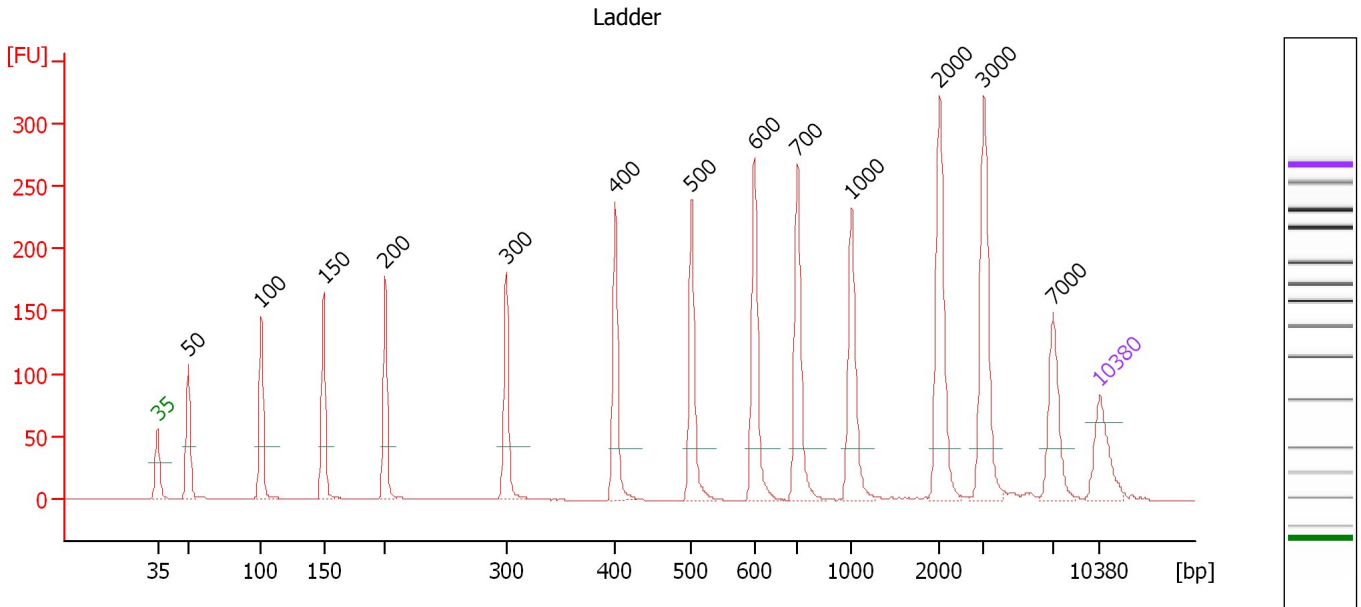
**Ladder**

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\2013-10-11\2013-10-11\_005.xad

Created: 10/11/2013 4:09:57 PM  
 Modified: 10/11/2013 4:54:01 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

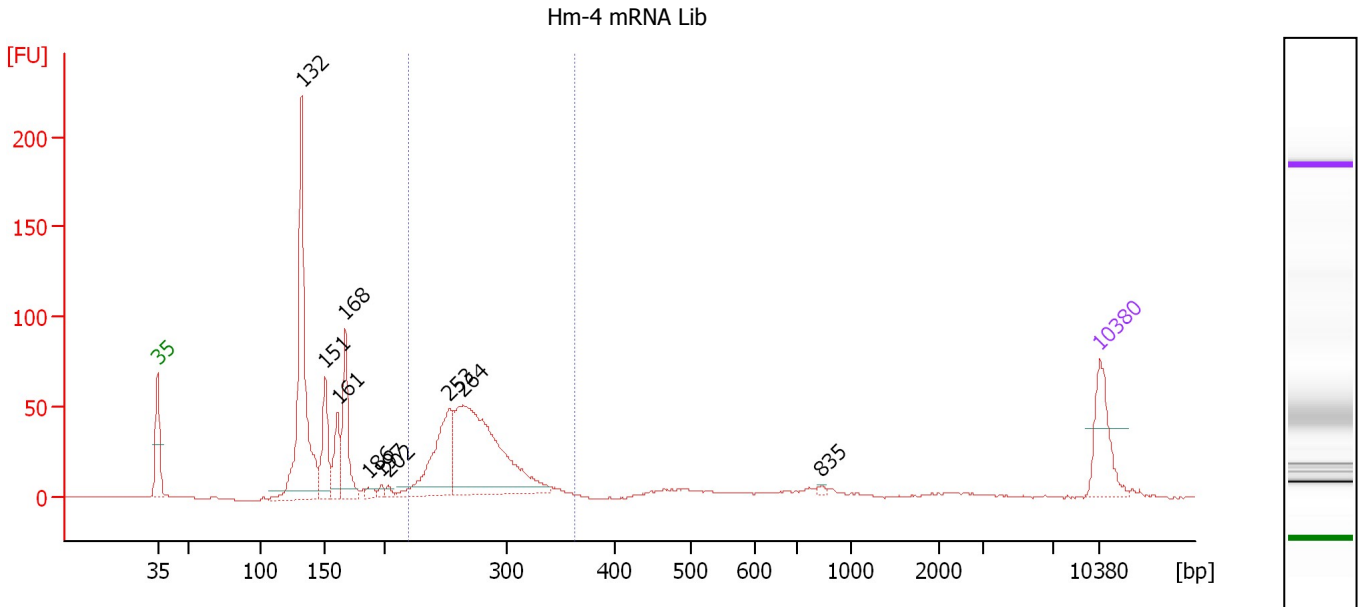
**Peak table for Ladder**

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

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-11\2013-10-11\_005.xad

Created: 10/11/2013 4:09:57 PM  
 Modified: 10/11/2013 4:54:01 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Hm-4 mRNA Lib**

Number of peaks found: 10                      Corr. Area 1: 455.6  
 Noise: 0.2

**Peak table for sample 1 : Hm-4 mRNA Lib**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	132	480.67	5,499.1	
3	151	109.01	1,091.1	
4	161	72.74	682.8	
5	168	143.25	1,294.9	
6	186	12.65	102.9	
7	197	9.26	71.3	
8	202	8.72	65.4	
9	253	197.72	1,184.3	
10	264	443.80	2,545.1	
11	835	4.22	7.7	
12	10,380	75.00	10.9	Upper Marker

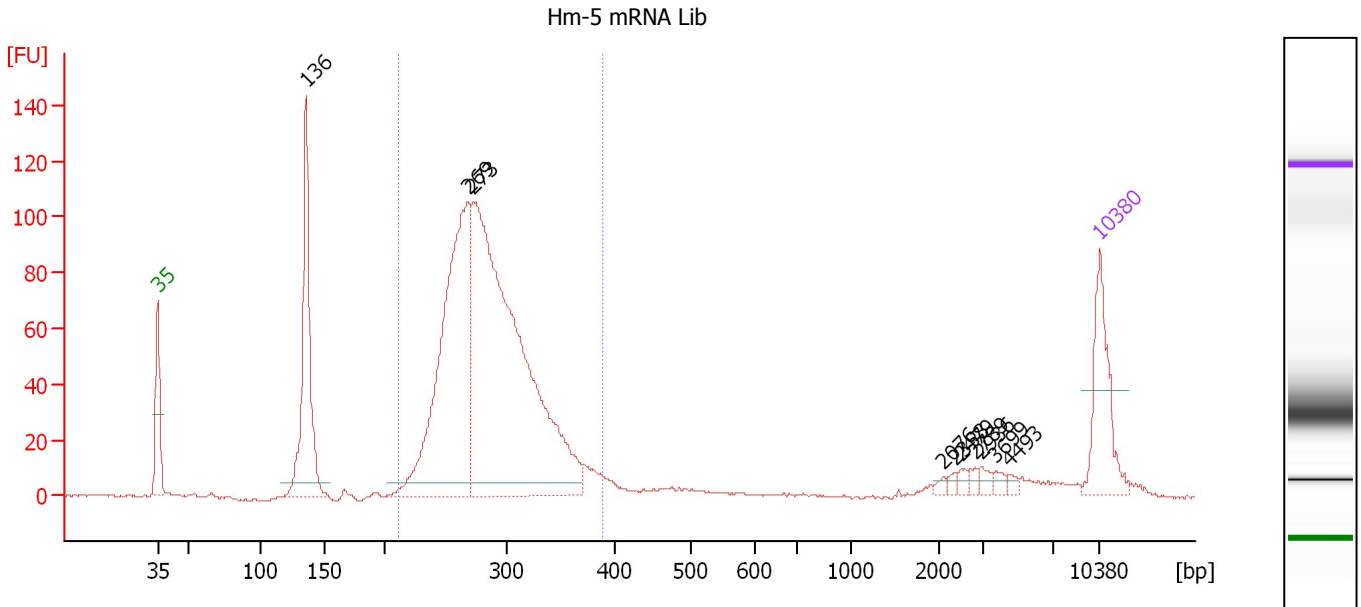
**Region table for sample 1 : Hm-4 mRNA Lib**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
219	364	274	3,650.9	655.34	455.6	45	9.9	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-11\2013-10-11\_005.xad

Created: 10/11/2013 4:09:57 PM  
 Modified: 10/11/2013 4:54:01 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Hm-5 mRNA Lib**

Number of peaks found: 10                      Corr. Area 1: 1,084.6  
 Noise: 0.3

**Peak table for sample 2 : Hm-5 mRNA Lib**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	136	254.49	2,836.3	
3	269	501.72	2,830.2	
4	273	843.70	4,690.7	
5	2,076	3.61	2.6	
6	2,358	4.19	2.7	
7	2,479	5.76	3.5	
8	2,789	5.00	2.7	
9	2,936	7.18	3.7	
10	3,699	5.49	2.2	
11	4,493	4.17	1.4	
12	10,380	75.00	10.9	Upper Marker

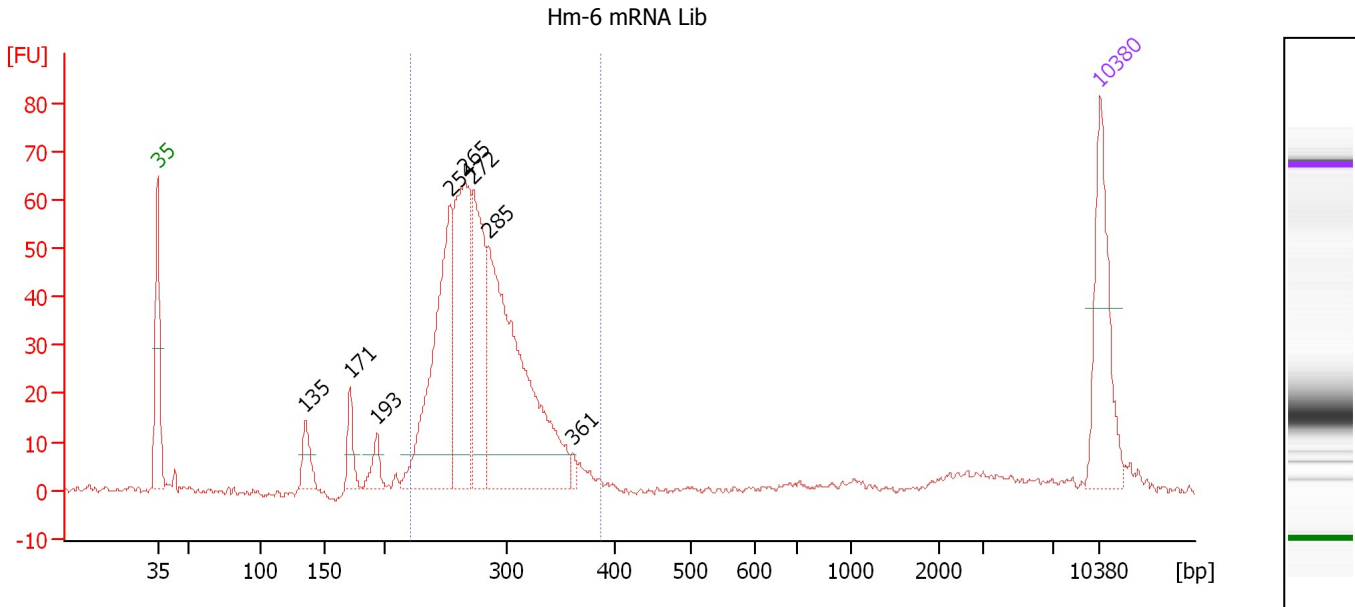
**Region table for sample 2 : Hm-5 mRNA Lib**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
210	389	287	7,086.2	1,322.48	1,084.6	79	11.8	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-11\2013-10-11\_005.xad

Created: 10/11/2013 4:09:57 PM  
 Modified: 10/11/2013 4:54:01 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 3 : Hm-6 mRNA Lib**

Height Threshold [FU] : 7

**Overall Results for sample 3 : Hm-6 mRNA Lib**

Number of peaks found: 8                      Corr. Area 1: 625.5  
 Noise: 0.7

**Peak table for sample 3 : Hm-6 mRNA Lib**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	135	30.03	336.6	
3	171	28.43	251.6	
4	193	20.93	164.1	
5	254	220.76	1,315.9	
6	265	182.44	1,042.3	
7	272	131.88	734.1	
8	285	325.80	1,730.6	
9	361	6.80	28.5	
10	10,380	75.00	10.9	Upper Marker

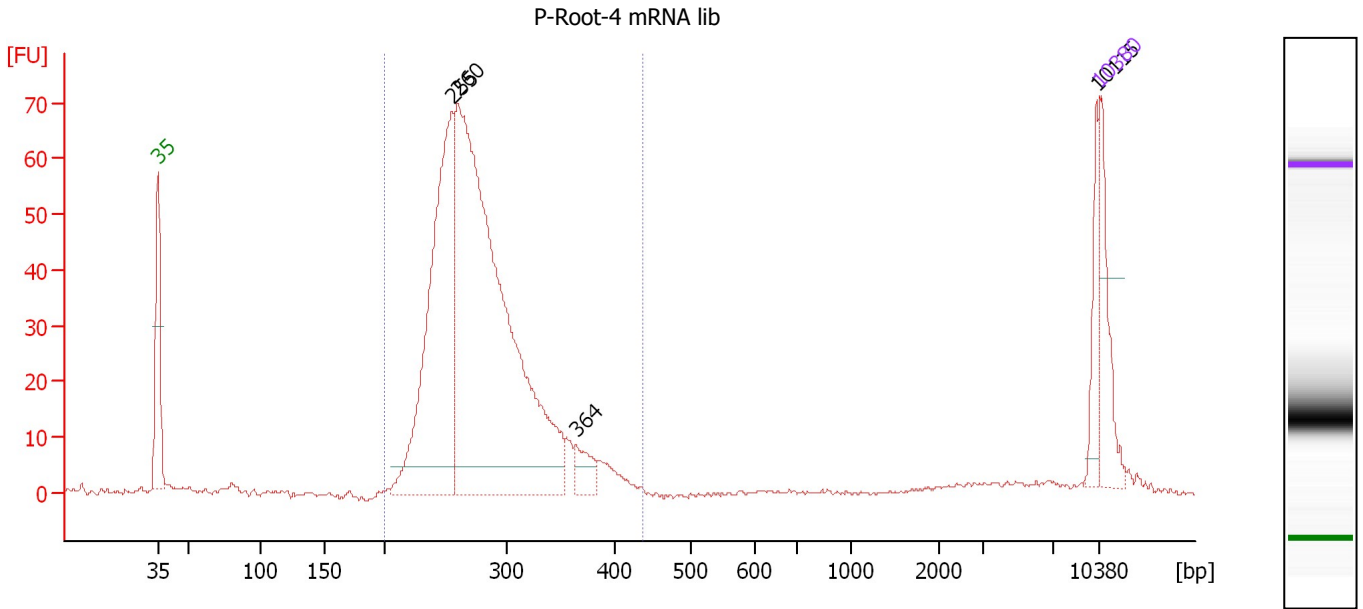
**Region table for sample 3 : Hm-6 mRNA Lib**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
220	387	281	4,696.3	860.73	625.5	87	11.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-11\2013-10-11\_005.xad

Created: 10/11/2013 4:09:57 PM  
 Modified: 10/11/2013 4:54:01 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : P-Root-4 mRNA lib**

Number of peaks found: 4                      Corr. Area 1: 689.1  
 Noise: 0.3

**Peak table for sample 4 : P-Root-4 mRNA lib**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	255	590.58	3,503.6	
3	260	1,206.11	7,015.2	
4	364	40.81	169.8	
5	10,115	49.83	7.5	
6	10,380	75.00	10.9	Upper Marker

**Region table for sample 4 : P-Root-4 mRNA lib**

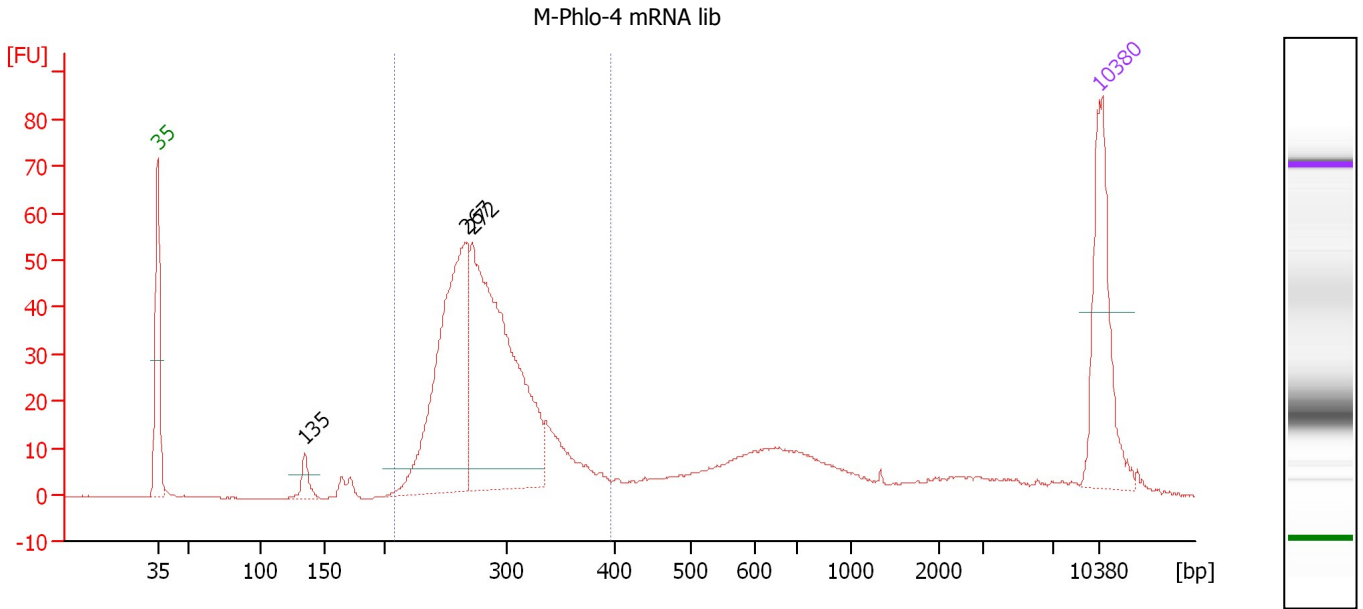
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	435	280	9,798.5	1,777.61	689.1	93	13.6	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-11\2013-10-11\_005.xad

Created: 10/11/2013 4:09:57 PM  
 Modified: 10/11/2013 4:54:01 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : M-Phlo-4 mRNA lib**

Number of peaks found: 3                      Corr. Area 1: 560.1  
 Noise: 0.1

**Peak table for sample 5 : M-Phlo-4 mRNA lib**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	135	15.41	173.2	
3	267	254.28	1,441.6	
4	272	323.51	1,799.4	
5	10,380	75.00	10.9	Upper Marker

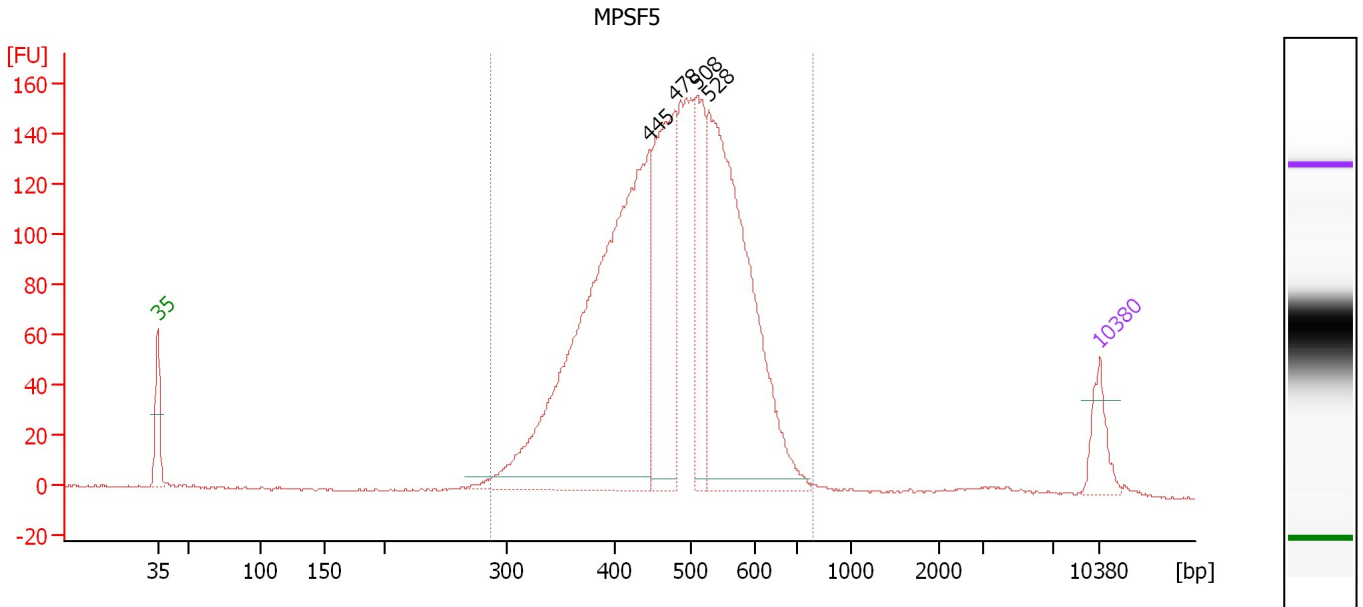
**Region table for sample 5 : M-Phlo-4 mRNA lib**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
207	396	285	3,424.8	634.71	560.1	75	12.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-11\2013-10-11\_005.xad

Created: 10/11/2013 4:09:57 PM  
 Modified: 10/11/2013 4:54:01 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : MPSF5**

Number of peaks found: 4                      Corr. Area 1: 2,434.4  
 Noise: 0.4

**Peak table for sample 6 : MPSF5**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	445	1,711.55	5,825.3	
3	478	621.00	1,968.4	
4	508	313.78	935.5	
5	528	1,169.23	3,354.3	
6	10,380	75.00	10.9	Upper Marker

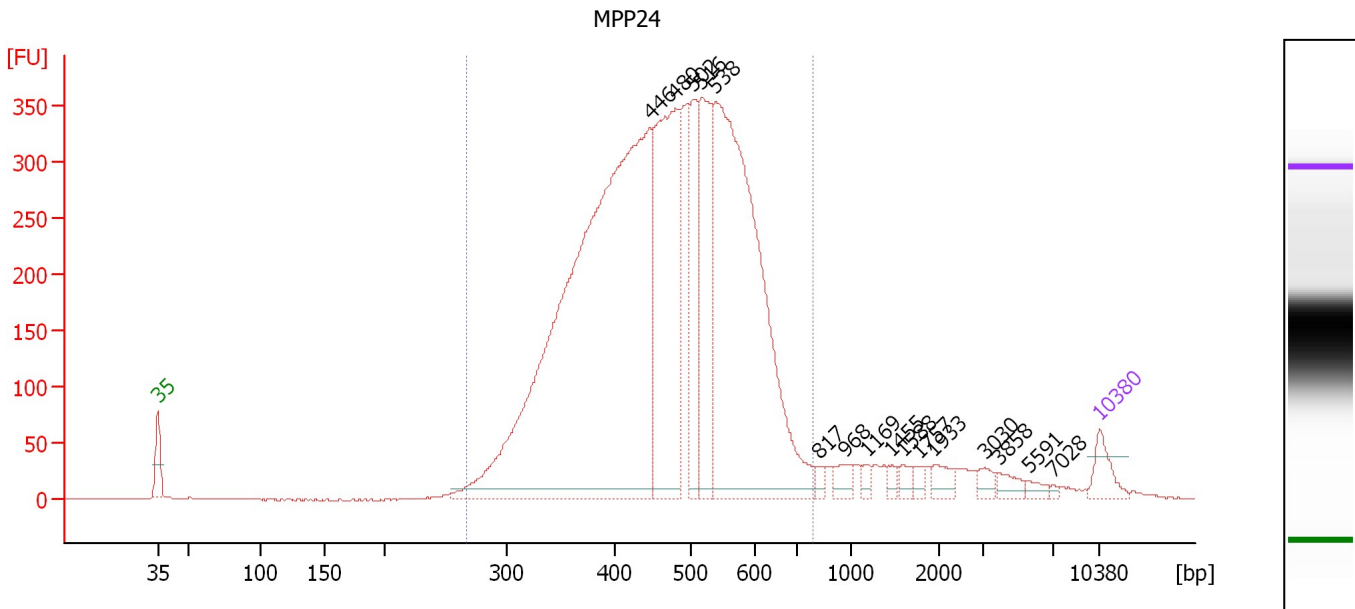
**Region table for sample 6 : MPSF5**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
288	787	476	14,402.6	4,331.20	2,434.4	98	17.4	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-11\2013-10-11\_005.xad

Created: 10/11/2013 4:09:57 PM  
 Modified: 10/11/2013 4:54:01 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 7 : MPP24**

Height Threshold [FU] : 8

**Overall Results for sample 7 : MPP24**

Number of peaks found: 16      Corr. Area 1: 6,770.7  
 Noise: 0.5

**Peak table for sample 7 : MPP24**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	446	4,077.41	13,863.5	
3	480	1,229.11	3,883.6	
4	502	400.72	1,209.7	
5	516	588.25	1,726.2	
6	538	2,276.86	6,412.9	
7	817	26.23	48.7	
8	968	53.87	84.4	
9	1,169	28.75	37.3	
10	1,455	22.26	23.2	
11	1,588	30.73	29.3	
12	1,757	25.06	21.6	
13	1,933	51.86	40.7	
14	3,030	34.52	17.3	
15	3,858	41.07	16.1	
16	5,591	24.20	6.6	
17	7,028	7.02	1.5	
18	10,380	75.00	10.9	Upper Marker

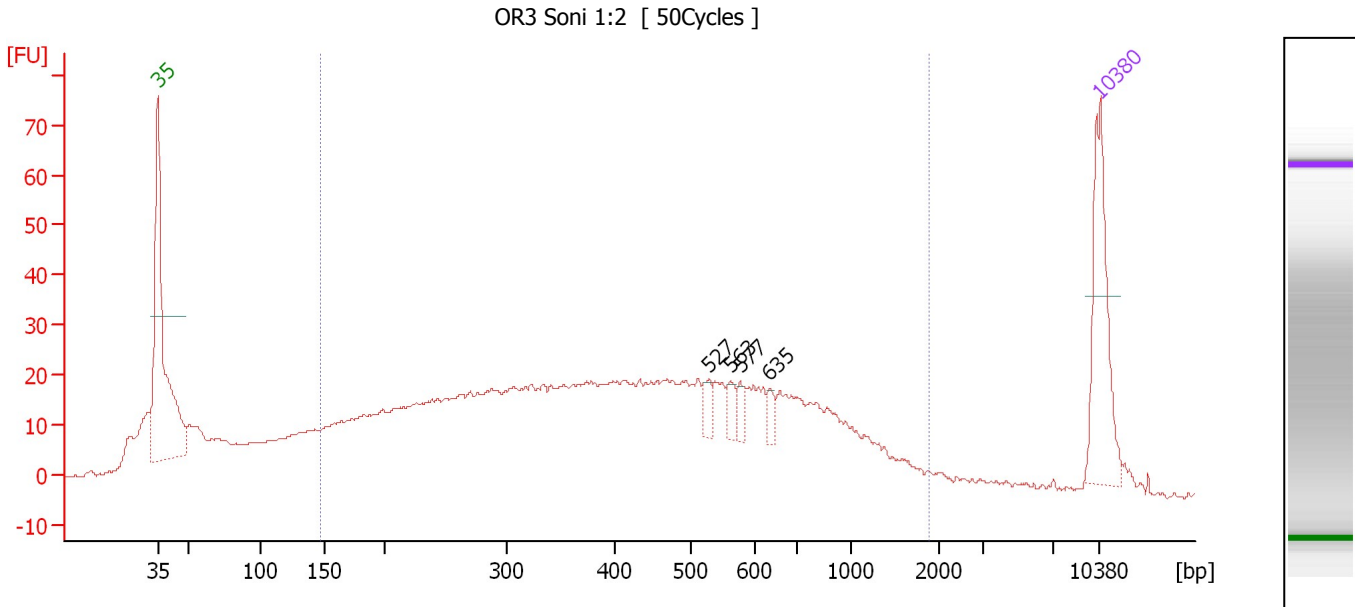
**Region table for sample 7 : MPP24**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
267	789	470	31,923.4	9,344.72	6,770.7	92	20.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-11\2013-10-11\_005.xad

Created: 10/11/2013 4:09:57 PM  
 Modified: 10/11/2013 4:54:01 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 8 : OR3 Soni 1:2**

Height Threshold [FU] : 11

**Overall Results for sample 8 : OR3 Soni 1:2**

Number of peaks found: 4                      Corr. Area 1: 1,012.4  
 Noise: 0.3

**Peak table for sample 8 : OR3 Soni 1:2**

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	527	12.71	36.6	
3	563	11.45	30.8	
4	577	9.76	25.6	
5	635	9.46	22.6	
6	10,380	75.00	10.9	Upper Marker

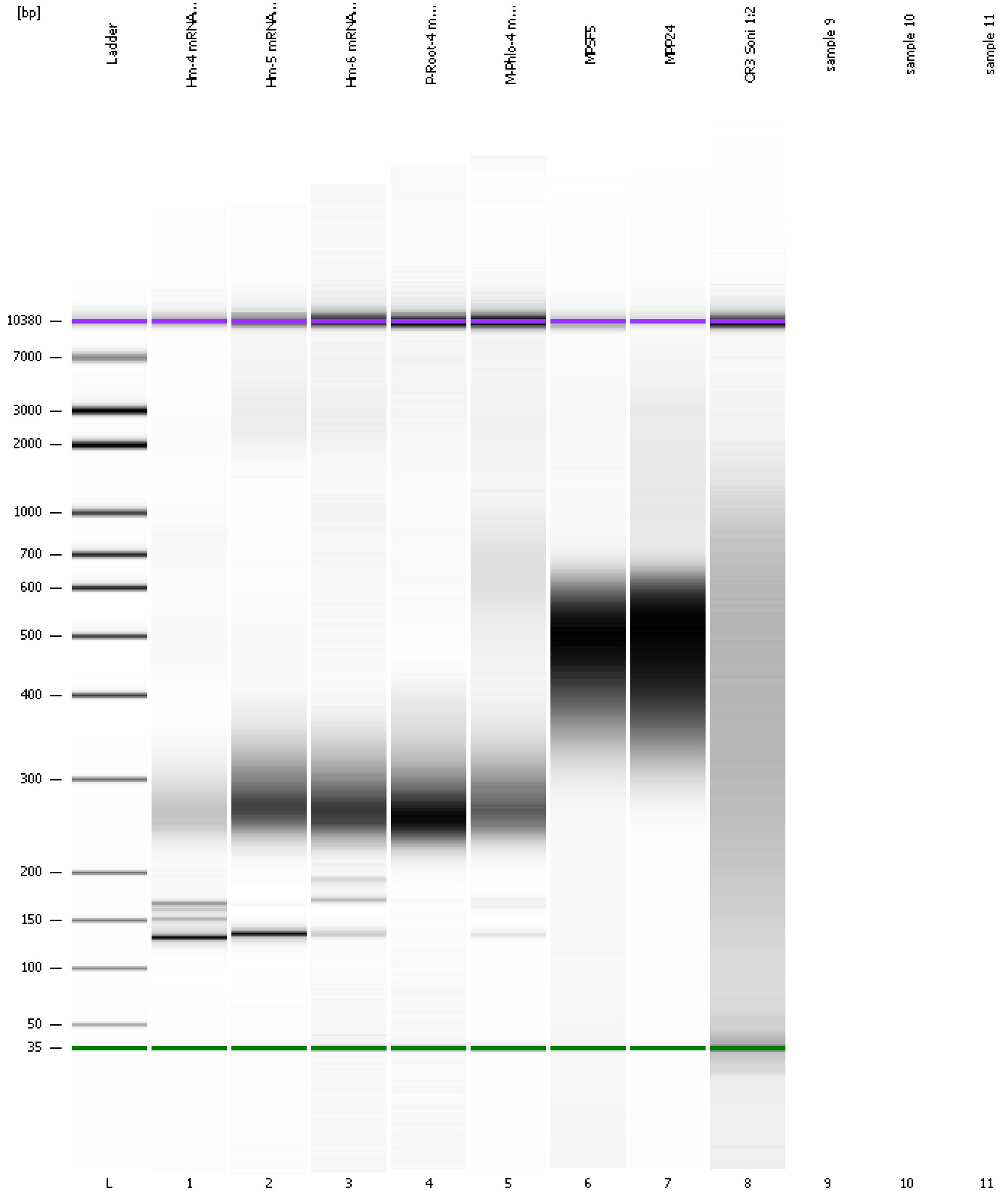
**Region table for sample 8 : OR3 Soni 1:2**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
148	1,880	483	6,431.0	1,382.08	1,012.4	79	60.5	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-11\2013-10-11\_005.xad

Created: 10/11/2013 4:09:57 PM  
Modified: 10/11/2013 4:54:01 PM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-11\2013-10-11\_005.xad

Created: 10/11/2013 4:09:57 PM  
Modified: 10/11/2013 4:54:01 PM

**Invalid Samples**

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.