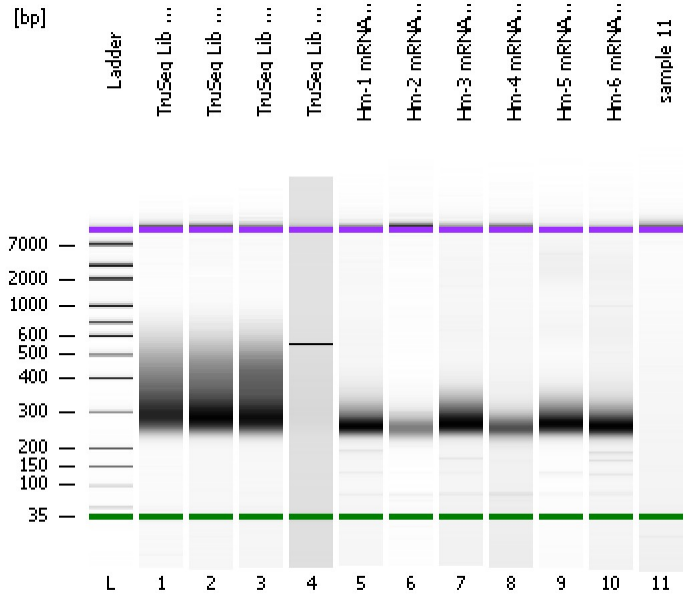
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-29\2013-10-29_005.xad

Created: 10/29/2013 2:15:35 PM
Modified: 10/29/2013 5:59:11 PM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

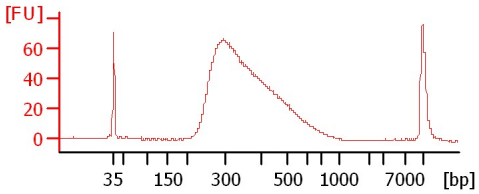
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy

Assay Class: High Sensitivity DNA Assay
Version: 1.03
Assay Comments: Copyright © 2003-2010 Agilent Technologies

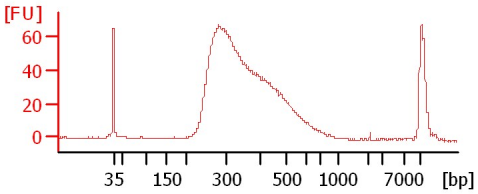
Chip Information:

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

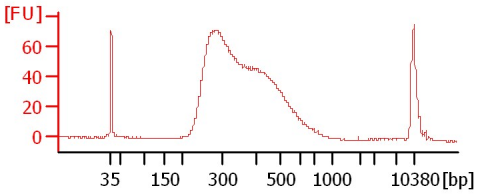
TruSeq Lib #12 1:2
NGS Workshop 102913



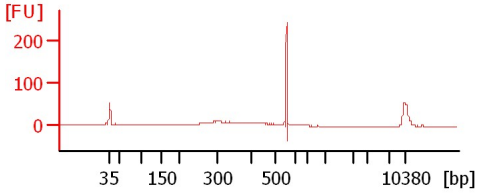
TruSeq Lib #13 1:4
NGS Workshop 102913



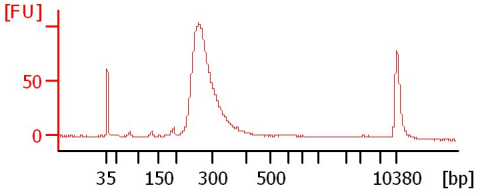
TruSeq Lib #14 1:3
NGS Workshop 102913



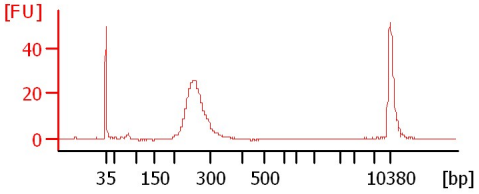
TruSeq Lib #11
NGS Workshop 102913



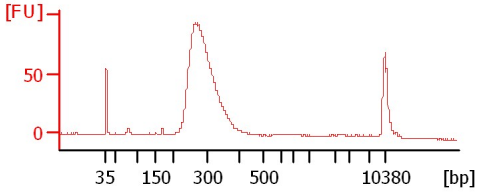
Hm-1 mRNA Lib



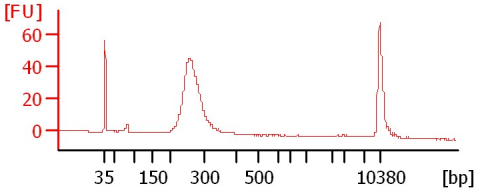
Hm-2 mRNA Lib



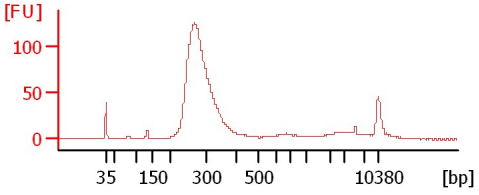
Hm-3 mRNA Lib



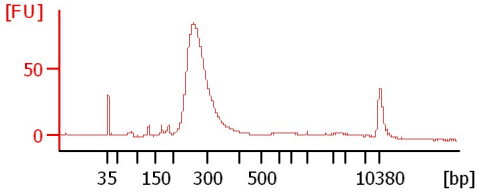
Hm-4 mRNA Lib



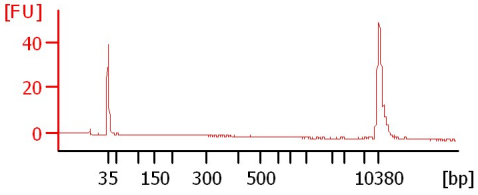
Hm-5 mRNA Lib



Hm-6 mRNA Lib



sample 11



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-29\2013-10-29_005.xad

Created: 10/29/2013 2:15:35 PM
Modified: 10/29/2013 5:59:11 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
TruSeq Lib #12 1:2	NGS Workshop 102913	☐	✓			
TruSeq Lib #13 1:4	NGS Workshop 102913	☐	✓			
TruSeq Lib #14 1:3	NGS Workshop 102913	☐	✓			
TruSeq Lib #11	NGS Workshop 102913	☐	✓			
Hm-1 mRNA Lib		☐	✓			
Hm-2 mRNA Lib		☐	✓			
Hm-3 mRNA Lib		☐	✓			
Hm-4 mRNA Lib		☐	✓			
Hm-5 mRNA Lib		☐	✓			
Hm-6 mRNA Lib		☐	✓			
sample 11		☐	✓			
Ladder		☐	✓			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-29\2013-10-29_005.xad

Created: 10/29/2013 2:15:35 PM
Modified: 10/29/2013 5:59:11 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

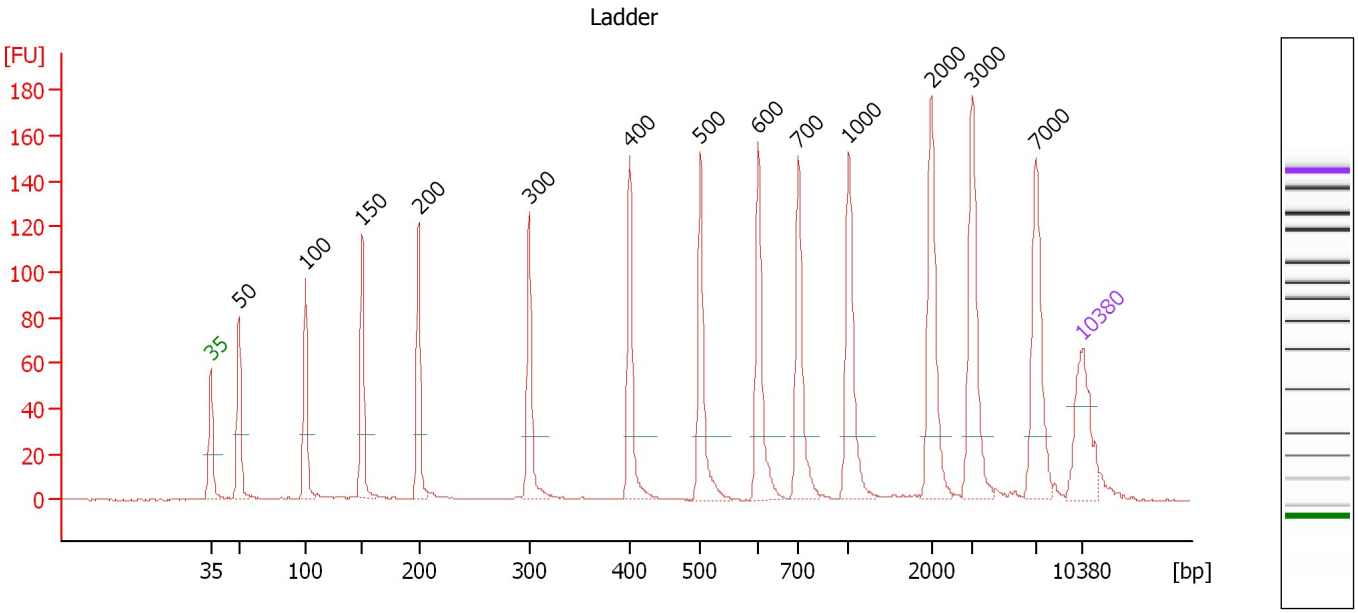
Ladder

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\2013-10-29\2013-10-29_005.xad

Created: 10/29/2013 2:15:35 PM
Modified: 10/29/2013 5:59:11 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

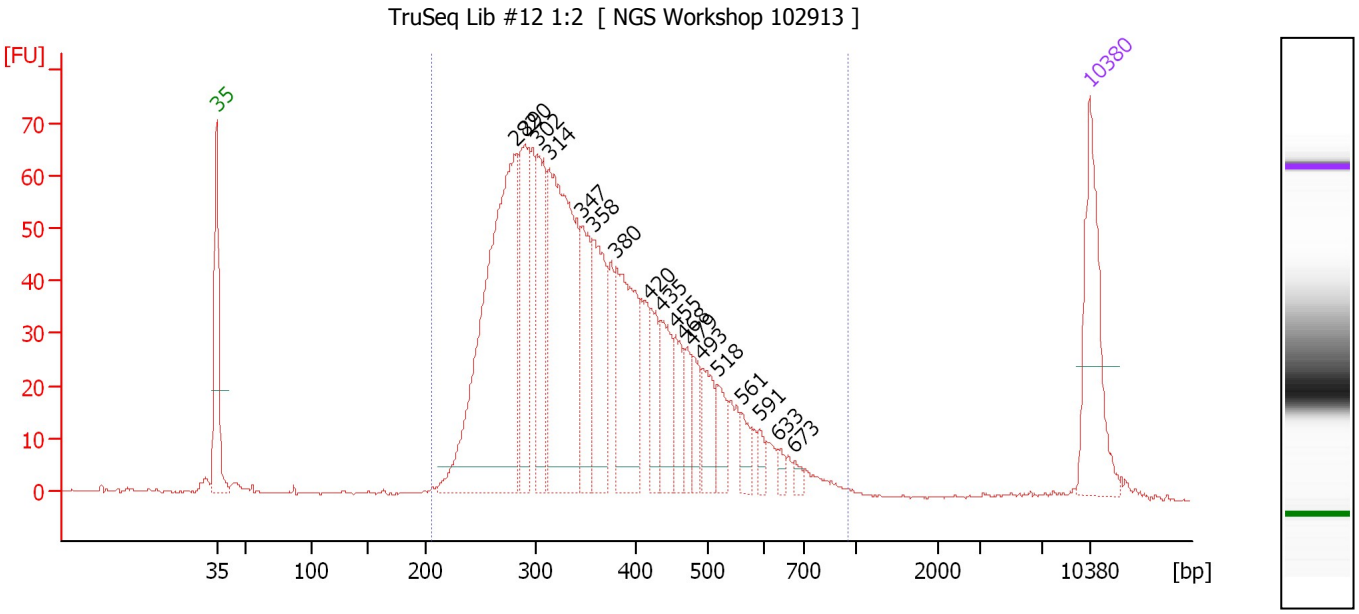
Peak table for Ladder

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:\...ents and Settings\Bioanalyzer\2013-10-29\2013-10-29_005.xad

Created: 10/29/2013 2:15:35 PM
Modified: 10/29/2013 5:59:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : TruSeq Lib #12 1:2

Number of peaks found:	18	Corr. Area 1:	1,421.9
Noise:	0.2		

Peak table for sample 1 : TruSeq Lib #12 1:2

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	282	391.68	2,102.4	
3	290	110.27	575.2	
4	302	98.06	492.4	
5	314	277.63	1,340.2	
6	347	76.16	332.9	
7	358	95.29	403.6	
8	380	127.30	507.7	
9	420	36.99	133.3	
10	435	51.82	180.4	
11	455	32.14	107.1	
12	468	23.41	75.9	
13	479	26.08	82.5	
14	493	36.66	112.6	
15	518	24.89	72.7	
16	561	15.07	40.7	
17	591	9.31	23.8	
18	633	5.88	14.1	
19	673	5.69	12.8	
20	10,380	75.00	10.9	Upper Marker

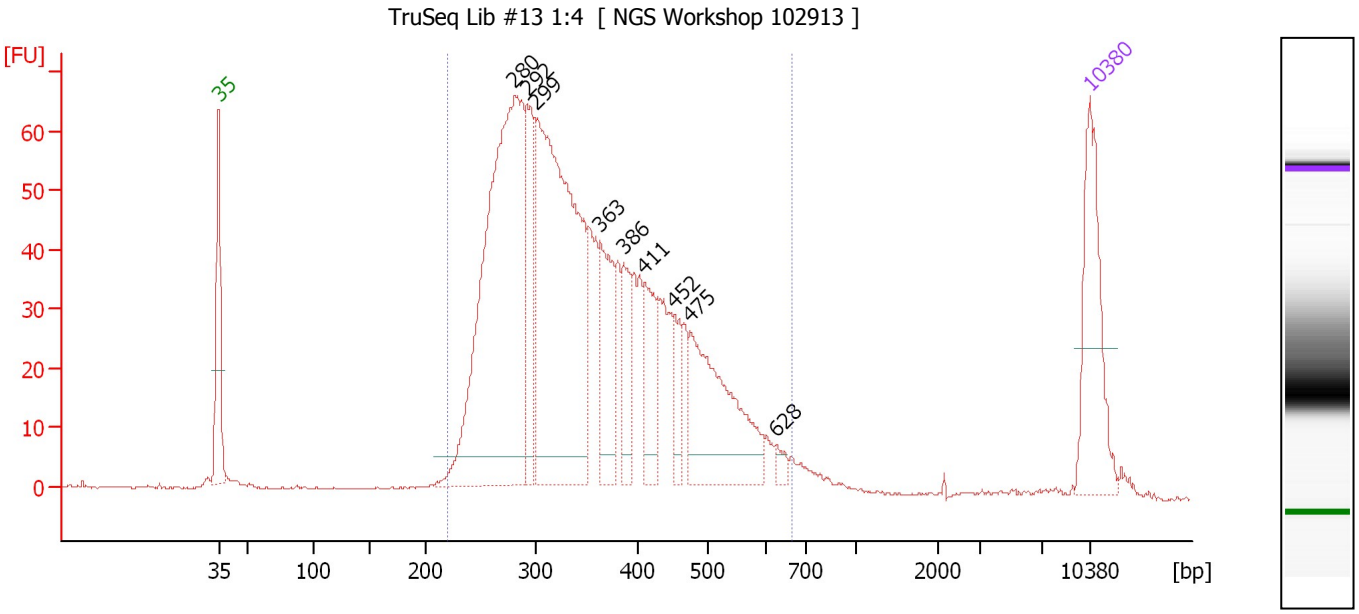
Region table for sample 1 : TruSeq Lib #12 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
206	960	369	7,677.9	1,704.07	1,421.9	98	28.4	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-29\2013-10-29_005.xad

Created: 10/29/2013 2:15:35 PM
Modified: 10/29/2013 5:59:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : TruSeq Lib #13 1:4

Number of peaks found:	9	Corr. Area 1:	1,351.5
Noise:	0.1		

Peak table for sample 2 : TruSeq Lib #13 1:4

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	280	483.16	2,612.6	
3	292	91.50	475.1	
4	299	430.39	2,180.4	
5	363	80.31	335.1	
6	386	46.76	183.3	
7	411	53.12	195.9	
8	452	29.69	99.5	
9	475	144.16	459.9	
10	628	7.10	17.1	
11	10,380	75.00	10.9	Upper Marker

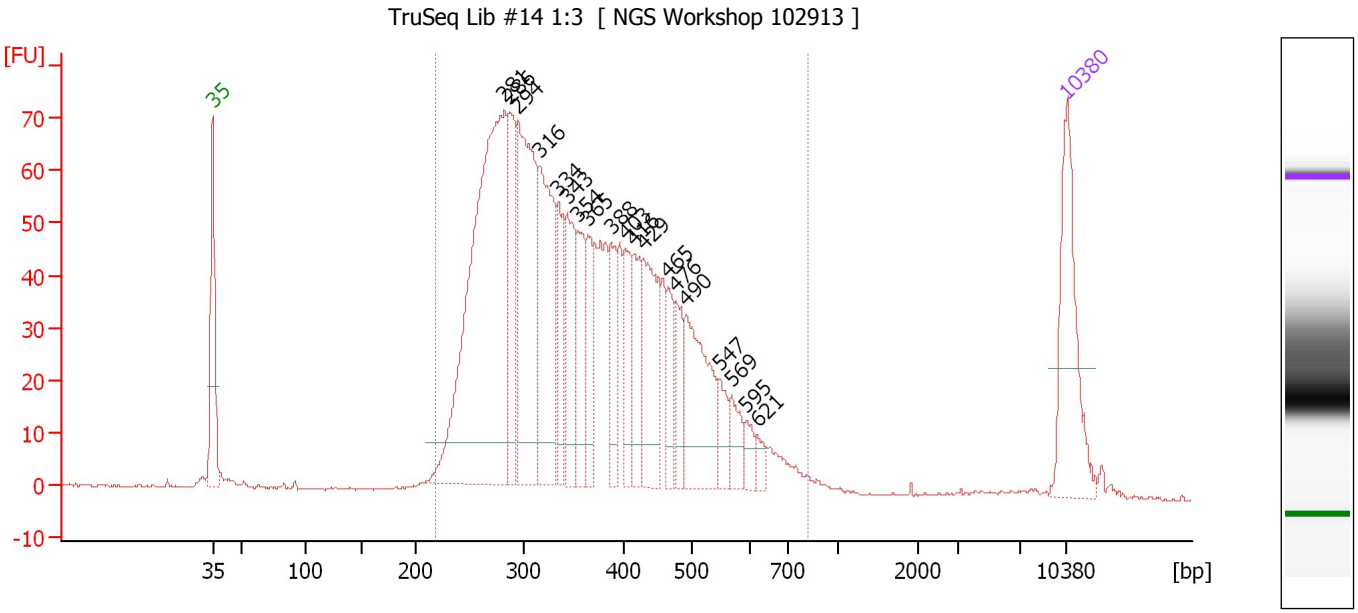
Region table for sample 2 : TruSeq Lib #13 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
219	665	360	7,524.6	1,644.47	1,351.5	97	25.4	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-29\2013-10-29_005.xad

Created: 10/29/2013 2:15:35 PM
Modified: 10/29/2013 5:59:11 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 3 : TruSeq Lib #14 1:3

Height Threshold [FU] : 8

Overall Results for sample 3 : TruSeq Lib #14 1:3

Number of peaks found:	19	Corr. Area 1:	1,617.0
Noise:	0.2		

Peak table for sample 3 : TruSeq Lib #14 1:3

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	281	446.84	2,405.4	
3	286	97.11	513.8	
4	294	202.37	1,043.7	
5	316	146.55	702.9	
6	334	56.98	258.7	
7	343	70.97	313.1	
8	354	56.38	241.1	
9	365	44.38	184.5	
10	388	43.74	170.9	
11	403	44.50	167.2	
12	416	43.03	156.9	
13	429	90.47	319.8	
14	465	28.44	92.7	
15	476	33.95	108.2	
16	490	94.87	293.3	
17	547	21.54	59.6	
18	569	22.40	59.6	
19	595	12.03	30.7	
20	621	8.73	21.3	
21	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-29\2013-10-29_005.xad

Created: 10/29/2013 2:15:35 PM
Modified: 10/29/2013 5:59:11 PM

Electropherogram Summary Continued ...

... Region table for sample 3 : TruSeq Lib #14 1:3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
219	823	371	8,220.0	1,827.57	1,617.0	97	27.7	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-29\2013-10-29_005.xad

Created: 10/29/2013 2:15:35 PM
Modified: 10/29/2013 5:59:11 PM

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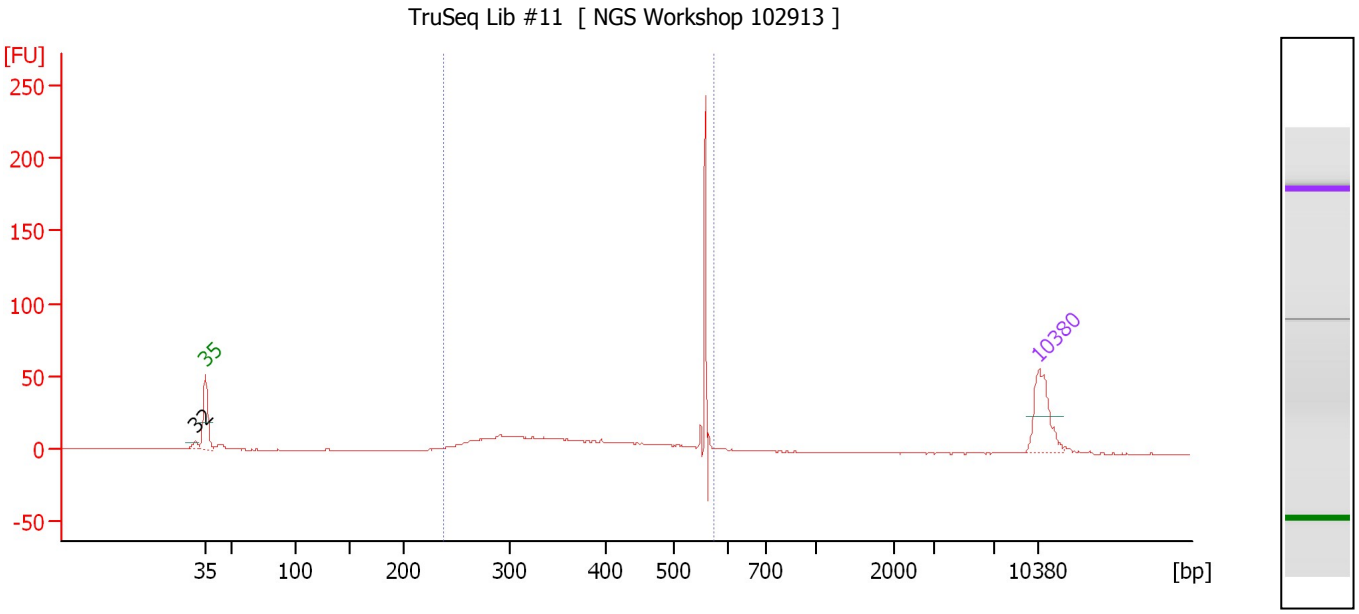

Overall Results for sample 4 : TruSeq Lib #11

Number of peaks found:	1	Corr. Area 1:	262.4
Noise:	0.1		

Peak table for sample 4 : TruSeq Lib #11

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	10,380	75.00	10.9	Upper Marker

Region table for sample 4 : TruSeq Lib #11

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
238	573	411	1,541.4	375.21	262.4	88	26.3	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-29\2013-10-29_005.xad

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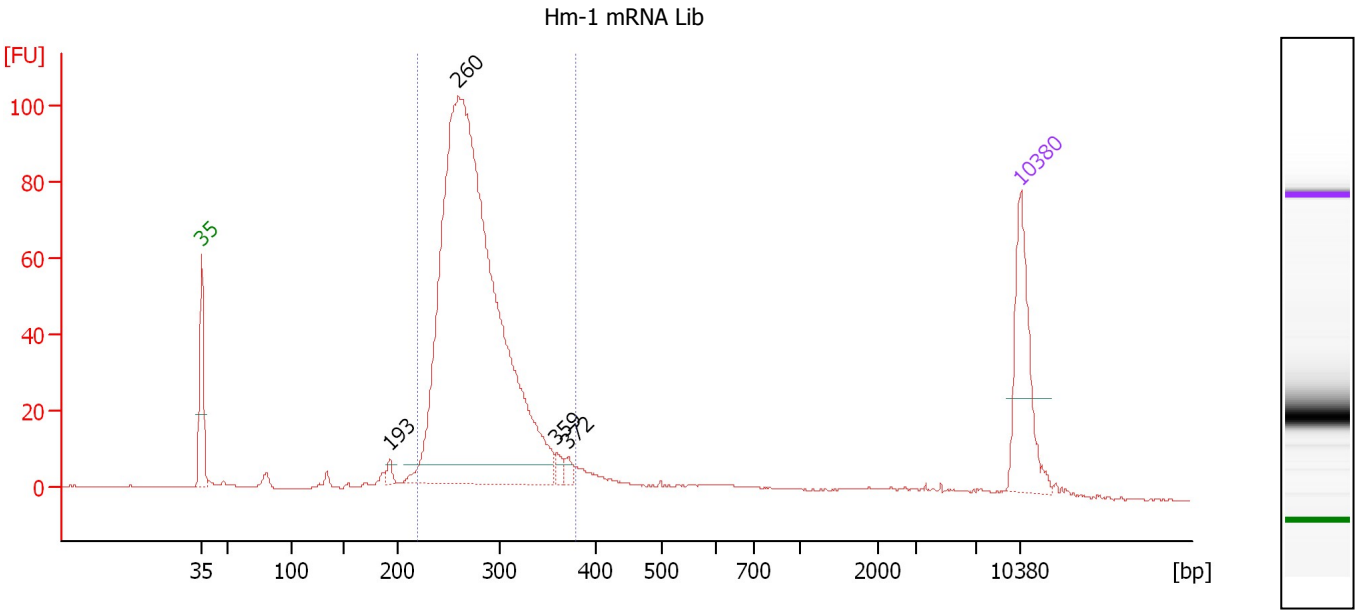
Electropherogram Summary Continued ...



Overall Results for sample 5 : Hm-1 mRNA Lib

Number of peaks found:	4	Corr. Area 1:	918.6
Noise:	0.2		

Peak table for sample 5 : Hm-1 mRNA Lib

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	193	7.58	59.4	
3	260	1,081.87	6,314.2	
4	359	8.44	35.6	
5	372	7.74	31.5	
6	10,380	75.00	10.9	Upper Marker

Region table for sample 5 : Hm-1 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	379	278	6,096.3	1,105.17	918.6	86	11.4	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-29\2013-10-29_005.xad

Created: 10/29/2013 2:15:35 PM
Modified: 10/29/2013 5:59:11 PM

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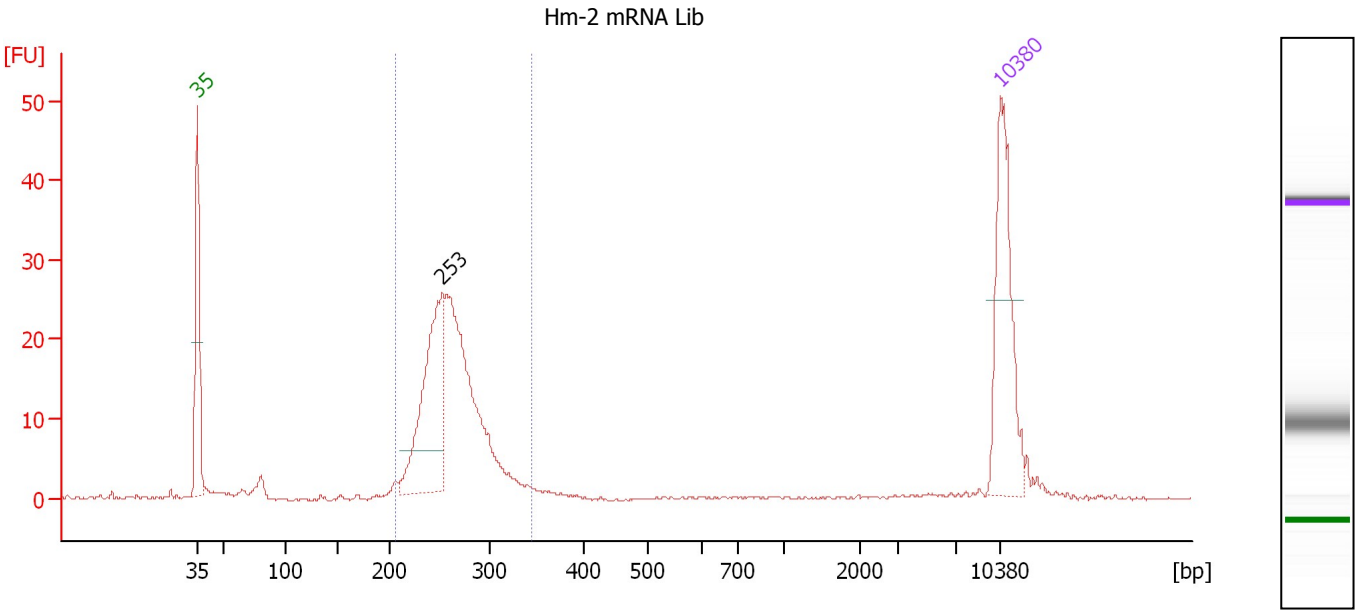


Overall Results for sample 6 : Hm-2 mRNA Lib

Number of peaks found:	1	Corr. Area 1:	205.5
Noise:	0.1		

Peak table for sample 6 : Hm-2 mRNA Lib

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	253	142.37	852.1	
3	10,380	75.00	10.9	Upper Marker

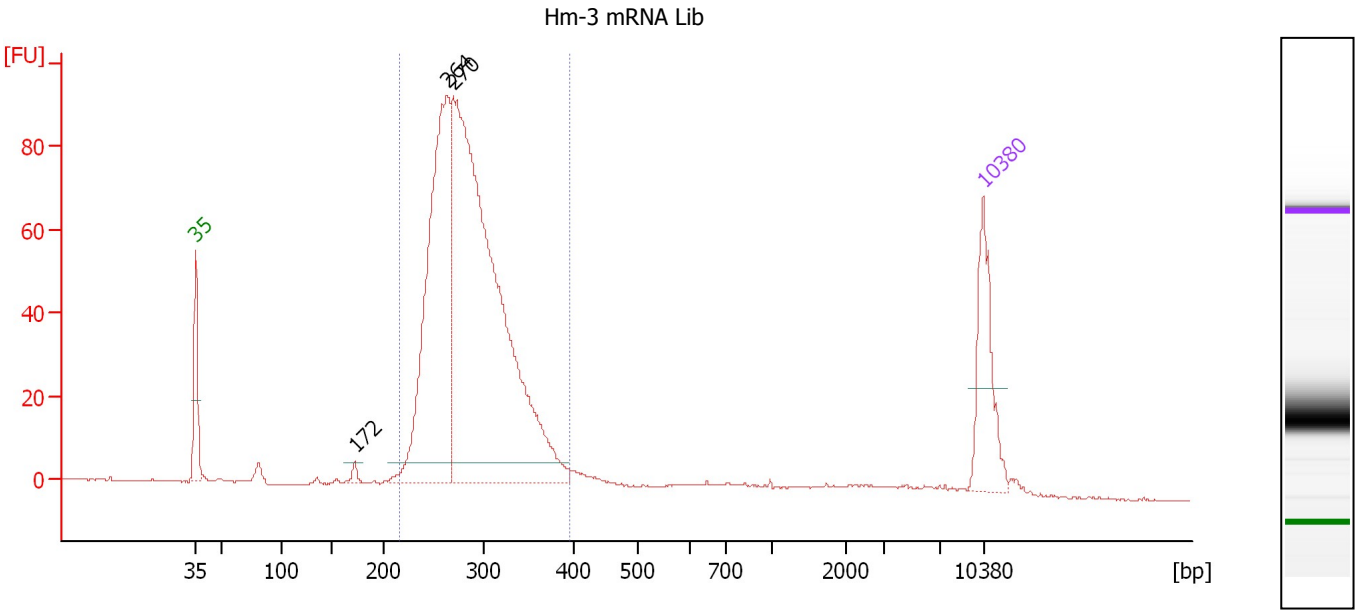
Region table for sample 6 : Hm-2 mRNA Lib

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
207	344	263	2,096.6	361.66	205.5	85	9.6	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-29\2013-10-29_005.xad

Created: 10/29/2013 2:15:35 PM
Modified: 10/29/2013 5:59:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Hm-3 mRNA Lib

Number of peaks found:	3	Corr. Area 1:	995.4
Noise:	0.1		

Peak table for sample 7 : Hm-3 mRNA Lib

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		172	8.25	72.8	
3		264	475.44	2,732.5	
4		270	908.21	5,105.8	
5	▶	10,380	75.00	10.9	Upper Marker

Region table for sample 7 : Hm-3 mRNA Lib

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
217	394	287	7,247.8	1,353.53	995.4	90	12.1	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-29\2013-10-29_005.xad

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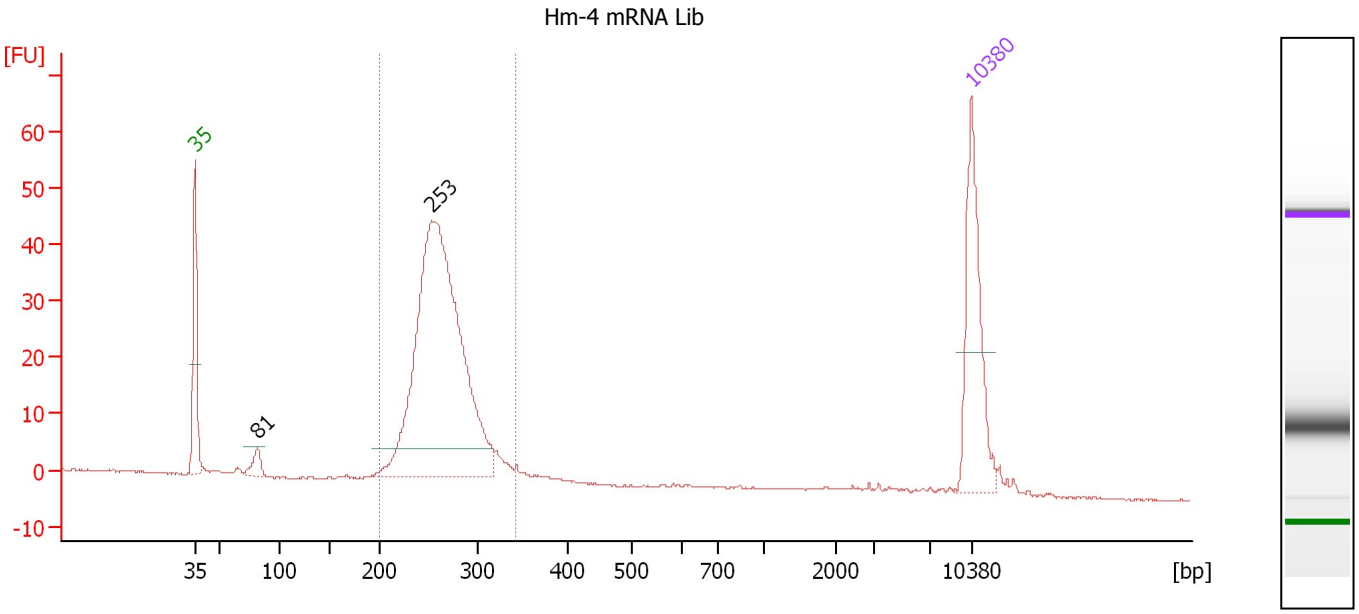
Modified: 10/29/2013 5:59:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Hm-4 mRNA Lib

Number of peaks found:	2	Corr. Area 1:	349.0
Noise:	0.1		

Peak table for sample 8 : Hm-4 mRNA Lib

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	81	14.94	278.1	
3	253	478.46	2,869.9	
4	10,380	75.00	10.9	Upper Marker

Region table for sample 8 : 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
200	341	263	2,845.6	491.75	349.0	91	9.4	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-29\2013-10-29_005.xad

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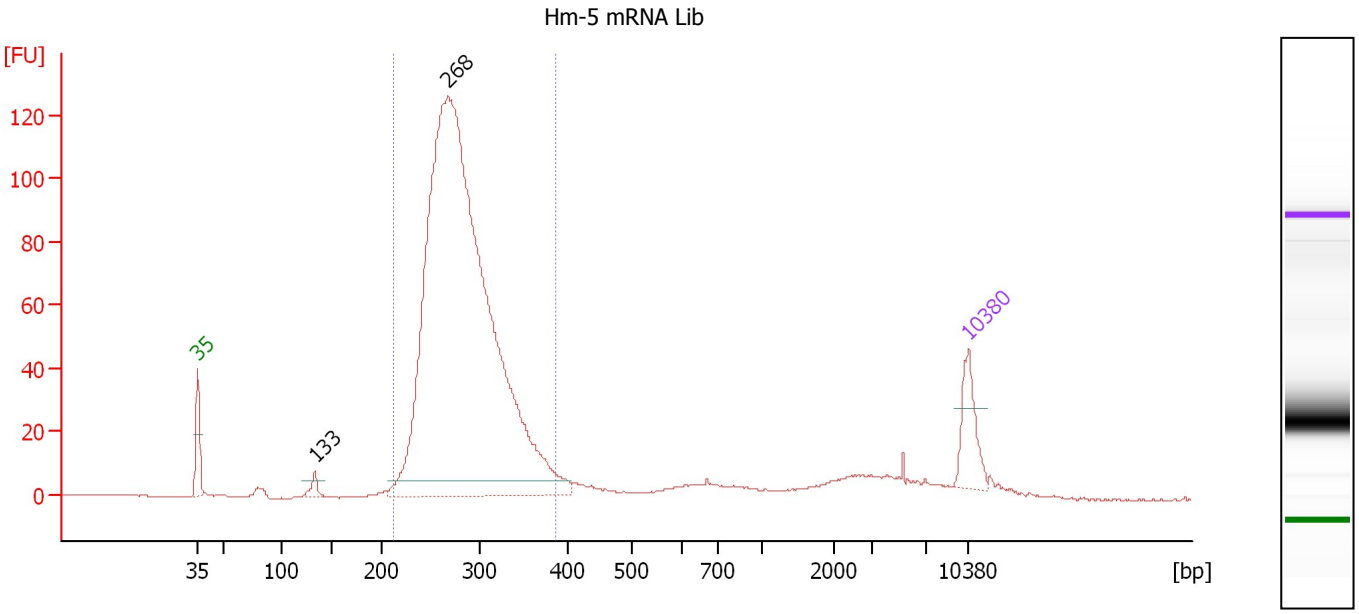
Modified: 10/29/2013 5:59:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Hm-5 mRNA Lib

Number of peaks found:	2	Corr. Area 1:	1,205.2
Noise:	0.1		

Peak table for sample 9 : Hm-5 mRNA Lib

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	133	28.10	319.0	
3	268	2,829.27	15,966.7	
4	10,380	75.00	10.9	Upper Marker

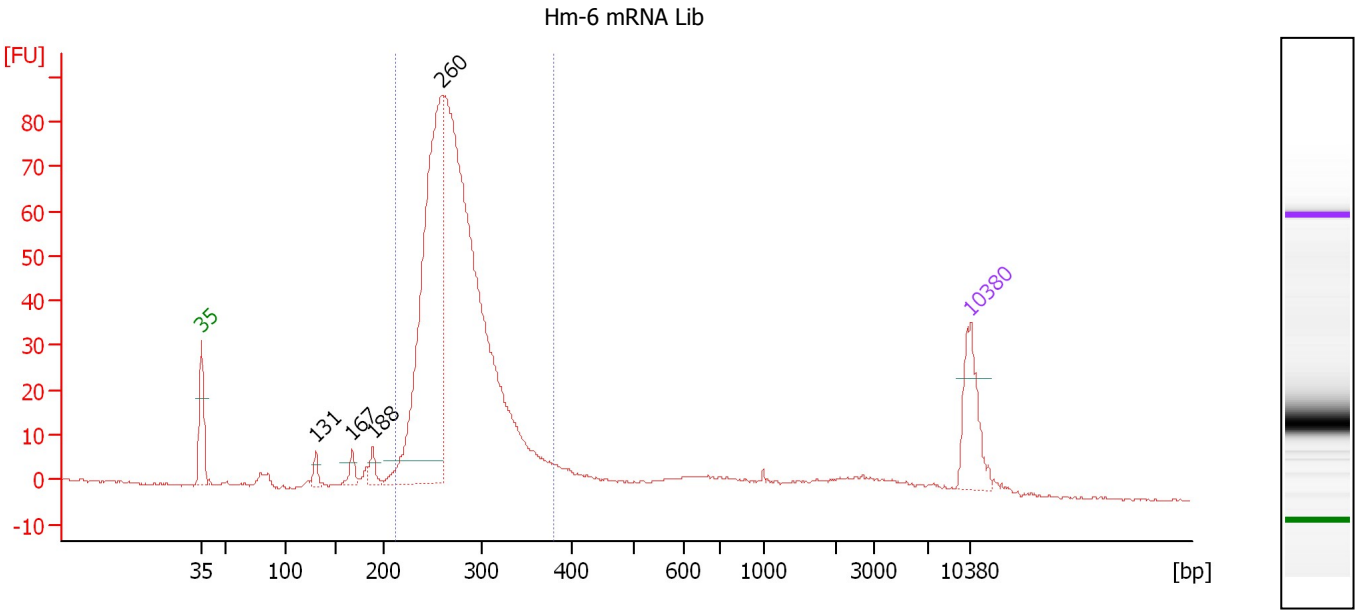
Region table for sample 9 : Hm-5 mRNA Lib

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
212	386	284	14,648.0	2,706.87	1,205.2	88	11.8	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-29\2013-10-29_005.xad

Created: 10/29/2013 2:15:35 PM
Modified: 10/29/2013 5:59:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Hm-6 mRNA Lib

Number of peaks found:	4	Corr. Area 1:	791.0
Noise:	0.3		

Peak table for sample 10 : Hm-6 mRNA Lib

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		131	20.10	232.5	
3		167	22.07	199.8	
4		188	22.60	181.9	
5		260	719.23	4,196.1	
6	▶	10,380	75.00	10.9	Upper Marker

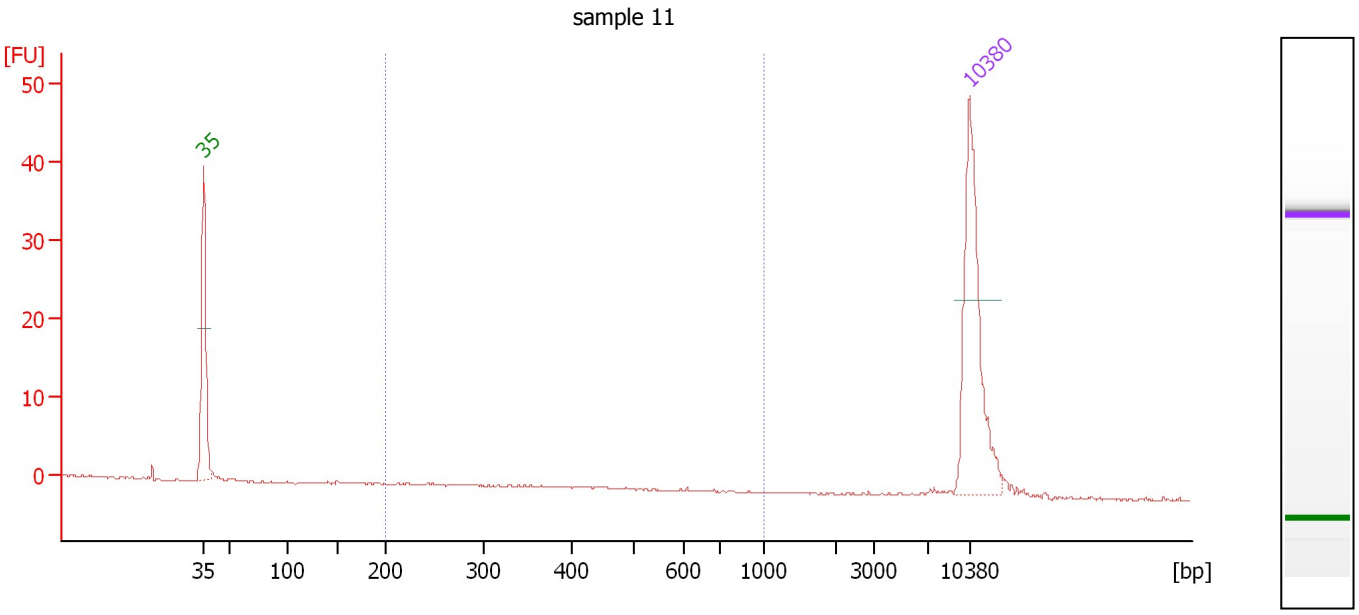
Region table for sample 10 : Hm-6 mRNA Lib

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
211	381	276	10,892.2	1,960.64	791.0	83	11.7	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-29\2013-10-29_005.xad

Created: 10/29/2013 2:15:35 PM
Modified: 10/29/2013 5:59:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : sample 11

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

Peak table for sample 11 : sample 11

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 : sample 11

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	461	0.5	0.12	0.1	1	30.4	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-29\2013-10-29_005.xad

Created: 10/29/2013 2:15:35 PM
Modified: 10/29/2013 5:59:11 PM

Gel Image