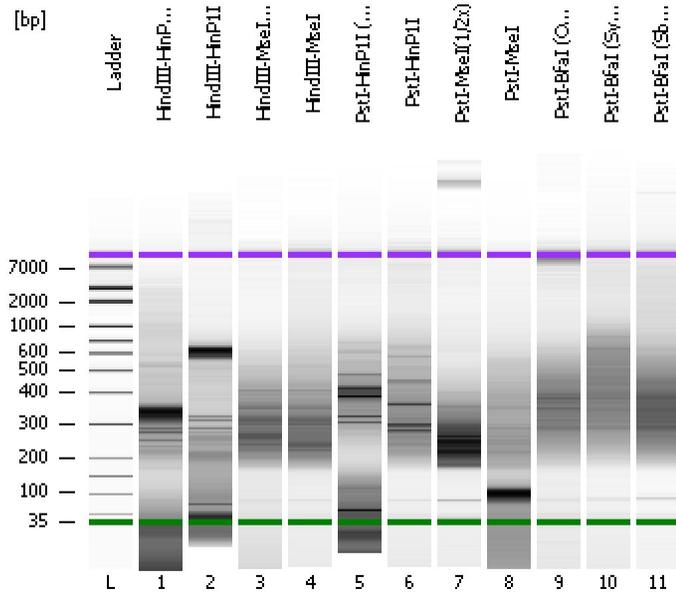


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-17\2017-03-17\_003.xad

Created: 3/17/2017 4:05:25 PM  
Modified: 3/17/2017 4:53:26 PM

Electrophoresis File Run Summary



Instrument Information:

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

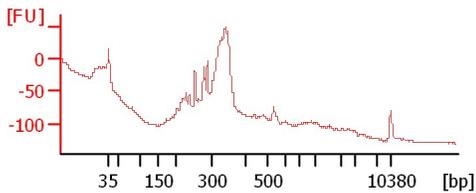
Assay Information:

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

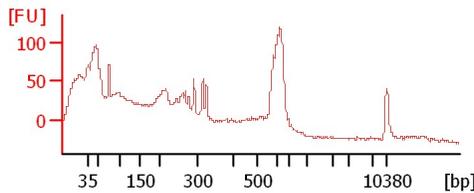
Chip Information:

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

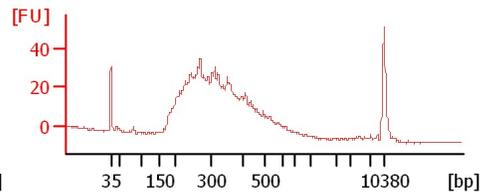
HindIII-HinP1I (1/2x)



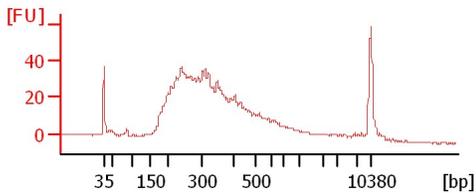
HindIII-HinP1I



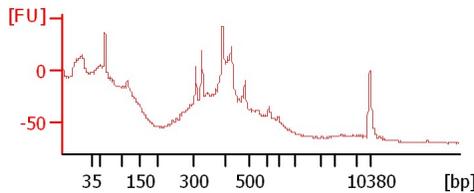
HindIII-MseI (1/2x)



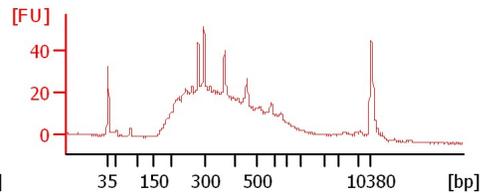
HindIII-MseI



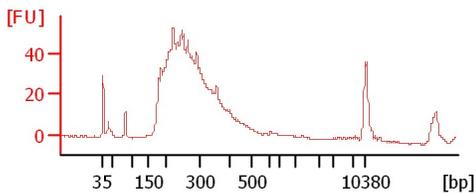
PstI-HinP1I (1/2x)



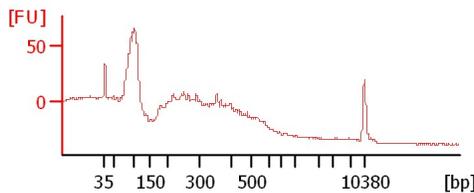
PstI-HinP1I



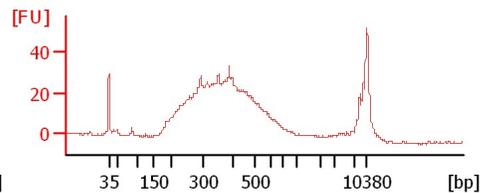
PstI-MseI (1/2x)



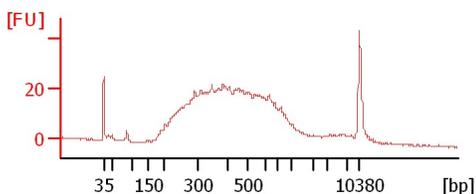
PstI-MseI



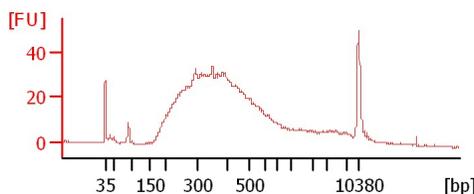
PstI-BfaI (Omega)



PstI-BfaI (Synergy)



PstI-BfaI (Sbeadex)



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-17\2017-03-17\_003.xad

Created: 3/17/2017 4:05:25 PM  
 Modified: 3/17/2017 4:53:26 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
HindIII-HinP1I (1/2x)		<input type="checkbox"/>	✓			
HindIII-HinP1I		<input type="checkbox"/>	✓			
HindIII-MseI (1/2x)		<input type="checkbox"/>	✓			
HindIII-MseI		<input type="checkbox"/>	✓			
PstI-HinP1I (1/2x)		<input type="checkbox"/>	✓			
PstI-HinP1I		<input type="checkbox"/>	✓			
PstI-MseI(1/2x)		<input type="checkbox"/>	✓			
PstI-MseI		<input type="checkbox"/>	✓			
PstI-BfaI (Omega)		<input type="checkbox"/>	✓			
PstI-BfaI (Synergy)		<input type="checkbox"/>	✓			
PstI-BfaI (Sbeadex)		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-17\2017-03-17\_003.xad

Created: 3/17/2017 4:05:25 PM  
Modified: 3/17/2017 4:53:26 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

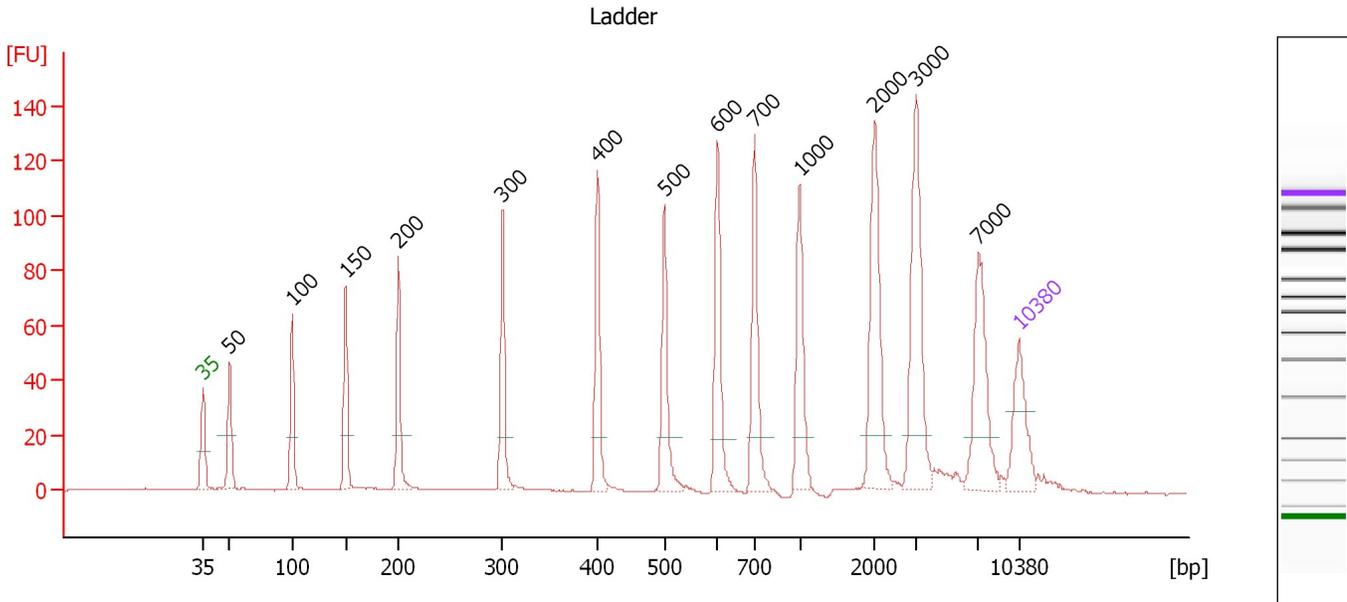
**Ladder**

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:\... bioanalyzer\2100 expert\data\2017-03-17\2017-03-17\_003.xad

Created: 3/17/2017 4:05:25 PM  
 Modified: 3/17/2017 4:53:26 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

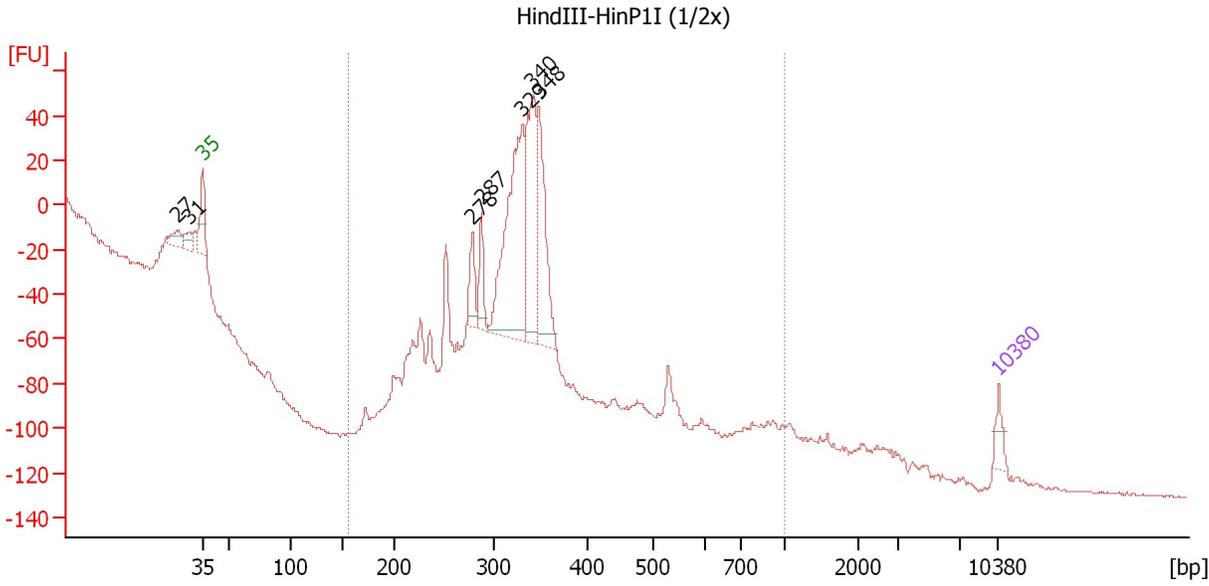
**Peak table for Ladder**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.28
3	100	150.00	2,272.7	Ladder Peak	50.65
4	150	150.00	1,515.2	Ladder Peak	55.25
5	200	150.00	1,136.4	Ladder Peak	59.76
6	300	150.00	757.6	Ladder Peak	68.69
7	400	150.00	568.2	Ladder Peak	76.84
8	500	150.00	454.5	Ladder Peak	82.58
9	600	150.00	378.8	Ladder Peak	87.18
10	700	150.00	324.7	Ladder Peak	90.32
11	1,000	150.00	227.3	Ladder Peak	94.19
12	2,000	150.00	113.6	Ladder Peak	100.61
13	3,000	150.00	75.8	Ladder Peak	104.21
14	7,000	150.00	32.5	Ladder Peak	109.54
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-17\2017-03-17\_003.xad

Created: 3/17/2017 4:05:25 PM  
 Modified: 3/17/2017 4:53:26 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : HindIII-HinP1I (1/2x)**

Number of peaks found: 7                      Corr. Area 1: 549.0  
 Noise: 0.5

**Peak table for sample 1 : HindIII-HinP1I (1/2x)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	27	0.00	0.0		40.81
2	31	0.00	0.0		41.79
3	35	125.00	5,411.3	Lower Marker	43.00
4	278	185.51	1,011.1		66.72
5	287	179.68	949.0		67.51
6	329	1,236.87	5,695.0		71.06
7	340	798.44	3,552.9		71.99
8	348	640.68	2,790.0		72.59
9	10,380	75.00	10.9	Upper Marker	113.00

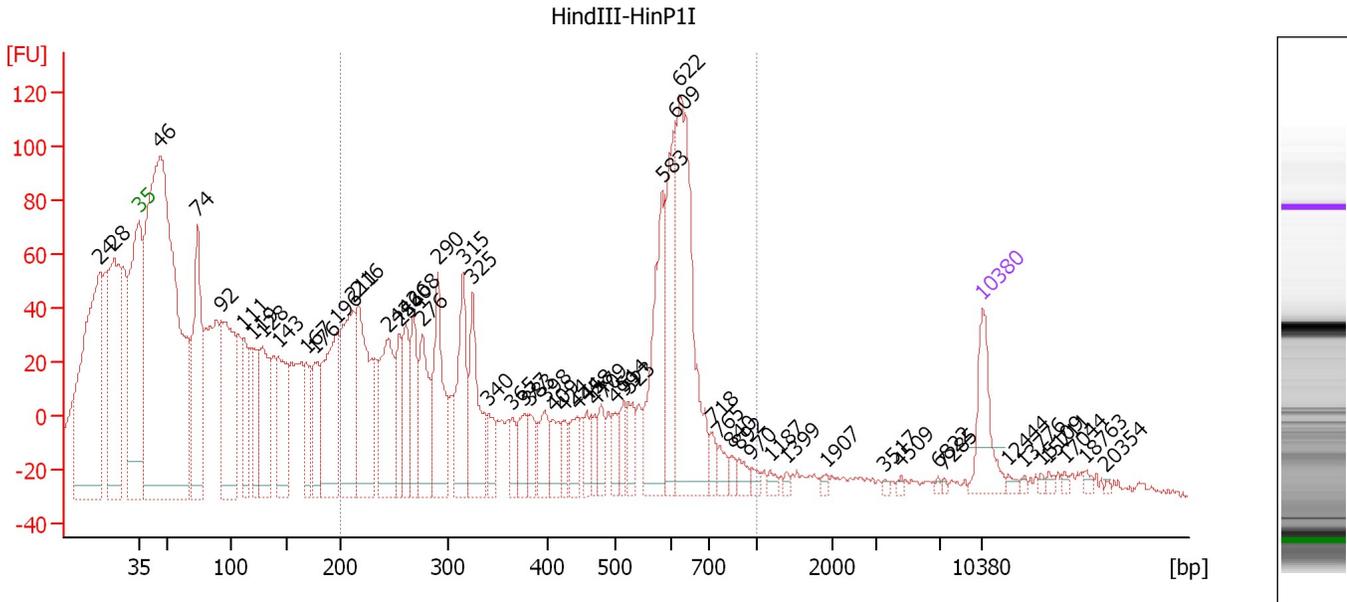
**Region table for sample 1 : HindIII-HinP1I (1/2x)**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
156	1,000	327	549.0	13,222.8	2,835.87	96	7.1

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-17\2017-03-17\_003.xad

Created: 3/17/2017 4:05:25 PM  
 Modified: 3/17/2017 4:53:26 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : HindIII-HinP1I**

Number of peaks found: 58                      Corr. Area 1: 1,293.9  
 Noise: 1.4

**Peak table for sample 2 : HindIII-HinP1I**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	24	0.00	0.0		39.74
2	28	0.00	0.0		40.93
3	35	125.00	5,411.3	Lower Marker	43.00
4	46	2,046.66	66,961.6		44.72
5	74	400.57	8,170.8		47.89
6	92	399.99	6,565.9		49.82
7	111	148.44	2,024.3		51.67
8	119	138.63	1,761.6		52.42
9	128	202.28	2,388.2		53.26
10	143	209.20	2,221.4		54.58
11	167	112.86	1,021.2		56.82
12	176	125.82	1,084.8		57.57
13	196	278.32	2,148.8		59.42
14	211	279.54	2,007.3		60.74
15	216	290.29	2,032.3		61.23
16	244	218.02	1,356.3		63.65
17	254	93.59	557.4		64.62
18	260	106.09	617.5		65.14
19	268	116.87	661.4		65.81
20	276	151.53	833.0		66.51
21	290	191.68	1,001.8		67.79
22	315	171.54	825.4		69.90
23	325	161.75	755.0		70.69
24	340	44.43	197.8		71.97
25	365	34.51	143.2		73.99

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-17\2017-03-17\_003.xad

Created: 3/17/2017 4:05:25 PM  
 Modified: 3/17/2017 4:53:26 PM

**Electropherogram Summary Continued ...**

**... Peak table for sample 2 : HindIII-HinP1I**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	377	51.09	205.3		74.96
27	383	45.16	178.7		75.45
28	398	61.39	233.7		76.68
29	409	47.94	177.4		77.38
30	424	32.90	117.5		78.22
31	444	52.52	179.2		79.36
32	458	32.20	106.6		80.16
33	470	31.66	102.0		80.86
34	479	38.82	122.9		81.35
35	499	34.08	103.4		82.53
36	514	35.93	105.8		83.24
37	523	44.22	128.1		83.64
38	583	212.27	551.4		86.41
39	609	163.02	405.5		87.47
40	622	377.00	918.7		87.86
41	718	23.27	49.1		90.55
42	765	22.61	44.8		91.16
43	840	12.64	22.8		92.13
44	892	17.93	30.5		92.79
45	970	10.43	16.3		93.81
46	1,187	8.99	11.5		95.39
47	1,399	5.33	5.8		96.75
48	1,907	5.73	4.6		100.01
49	3,517	3.56	1.5		104.90
50	4,509	3.99	1.3		106.22
51	6,822	3.31	0.7		109.30
52	7,285	2.90	0.6		109.83
53	10,380	75.00	10.9	Upper Marker	113.00
54	12,444	0.00	0.0		115.11
55	13,776	0.00	0.0		116.48
56	15,109	0.00	0.0		117.84
57	15,711	0.00	0.0		118.46
58	17,044	0.00	0.0		119.82
59	18,763	0.00	0.0		121.58
60	20,354	0.00	0.0		123.21

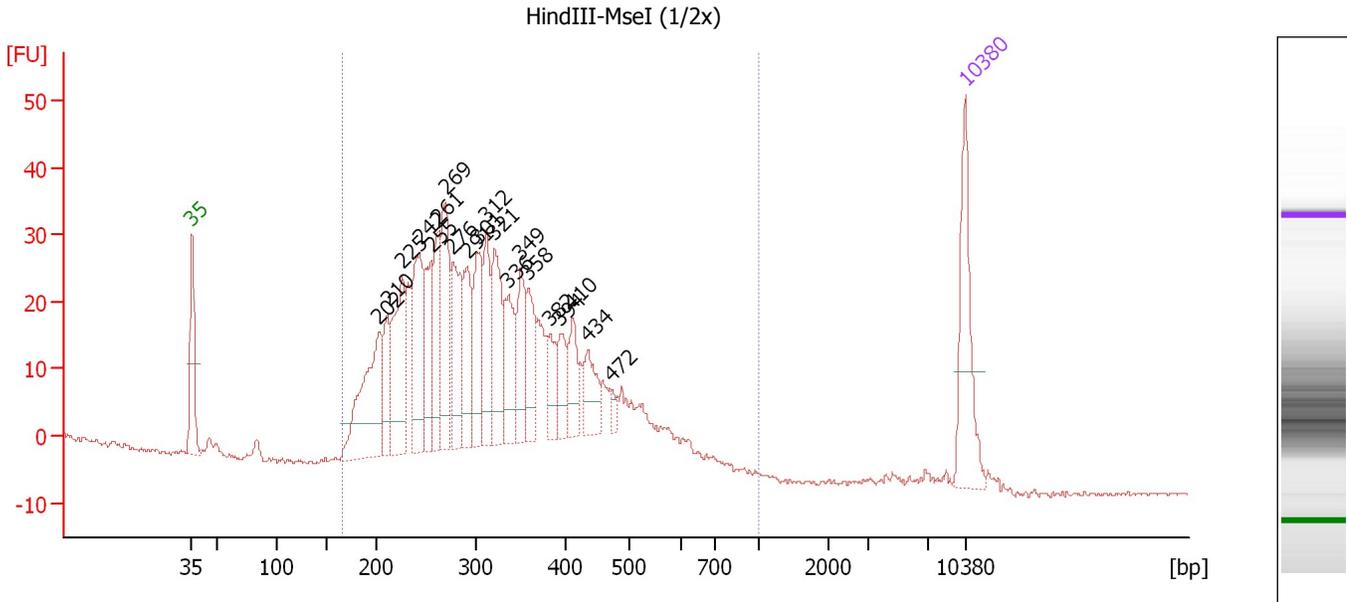
**Region table for sample 2 : HindIII-HinP1I**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	448	1,293.9	8,126.6	1,838.28	40	37.5

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-17\2017-03-17\_003.xad

Created: 3/17/2017 4:05:25 PM  
 Modified: 3/17/2017 4:53:26 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : HindIII-MseI (1/2x)**

Number of peaks found: 20                      Corr. Area 1: 852.8  
 Noise: 0.4

**Peak table for sample 3 : HindIII-MseI (1/2x)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	202	154.62	1,162.2		59.90
3	210	57.09	411.6		60.67
4	225	121.52	817.5		62.01
5	242	124.21	776.2		63.55
6	255	66.45	395.1		64.65
7	261	73.93	429.6		65.18
8	269	110.40	622.3		65.90
9	276	87.01	477.1		66.57
10	291	72.75	378.3		67.92
11	301	80.20	403.5		68.78
12	312	69.32	336.9		69.65
13	321	88.14	416.5		70.37
14	336	67.78	305.7		71.61
15	349	60.08	260.5		72.72
16	358	53.26	225.2		73.44
17	382	30.18	119.6		75.41
18	394	34.96	134.6		76.32
19	410	37.39	138.1		77.42
20	434	39.07	136.3		78.82
21	472	9.25	29.7		80.98
22	10,380	75.00	10.9	Upper Marker	113.00



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-17\2017-03-17\_003.xad

Created: 3/17/2017 4:05:25 PM  
Modified: 3/17/2017 4:53:26 PM

**Electropherogram Summary Continued ...**

... Region table for sample 3 :

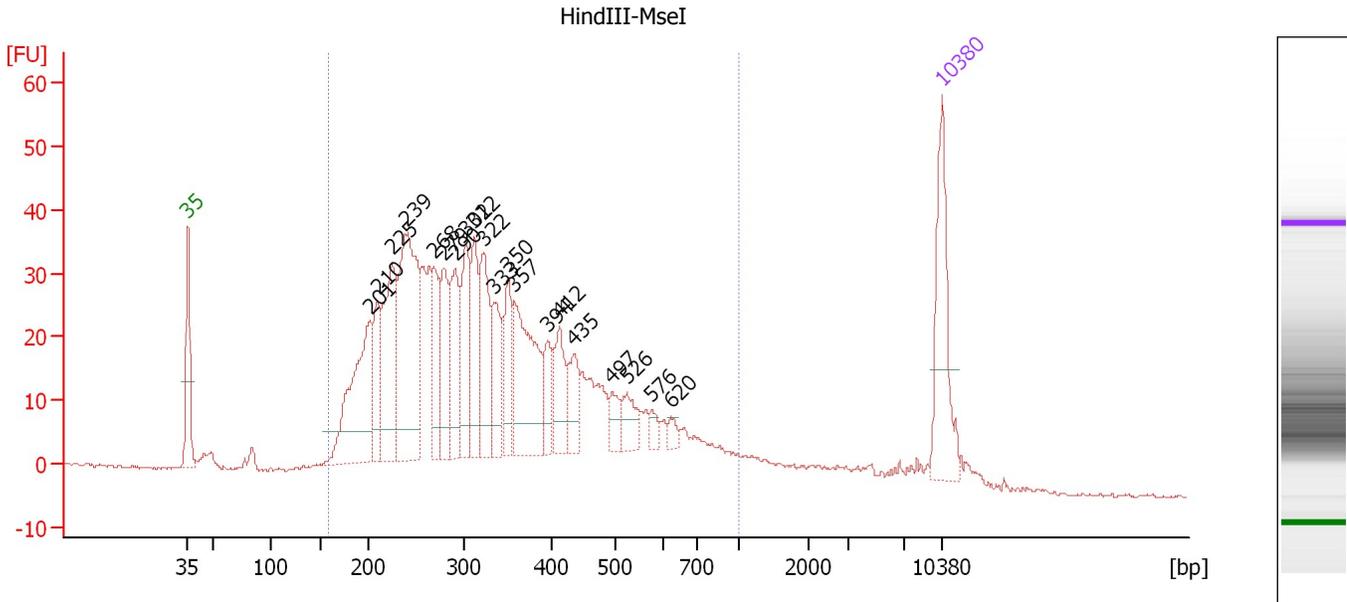
**HindIII-MseI (1/2x)**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
165	1,000	331	852.8	9,575.8	■ 1,849.98	99	31.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-17\2017-03-17\_003.xad

Created: 3/17/2017 4:05:25 PM  
 Modified: 3/17/2017 4:53:26 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : HindIII-MseI**

Number of peaks found: 20                      Corr. Area 1: 1,048.9  
 Noise: 0.2

**Peak table for sample 4 : HindIII-MseI**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	201	165.67	1,246.4		59.88
3	210	64.81	468.3		60.62
4	225	134.19	905.4		61.95
5	239	223.36	1,416.6		63.23
6	268	63.82	360.6		65.84
7	279	69.32	377.0		66.78
8	290	74.78	390.5		67.81
9	302	74.87	375.7		68.84
10	312	66.95	325.5		69.63
11	322	84.71	398.8		70.47
12	333	52.58	239.4		71.35
13	350	50.78	220.1		72.73
14	357	128.64	546.1		73.32
15	394	29.51	113.4		76.38
16	412	45.03	165.7		77.51
17	435	37.23	129.7		78.84
18	497	18.95	57.8		82.38
19	526	25.46	73.4		83.76
20	576	10.09	26.5		86.07
21	620	7.74	18.9		87.80
22	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-17\2017-03-17\_003.xad

Created: 3/17/2017 4:05:25 PM  
Modified: 3/17/2017 4:53:26 PM

**Electropherogram Summary Continued ...**

... Region table for sample 4 :

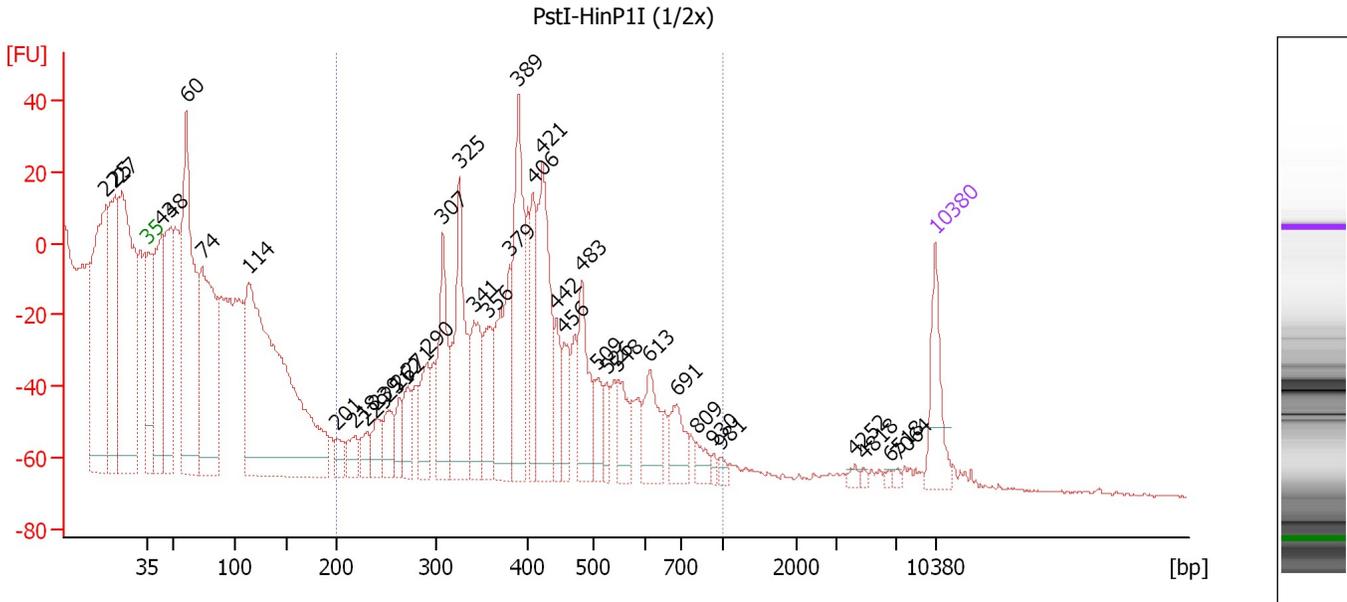
HindIII-MseI

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
160	1,000	352	1,048.9	9,994.2	■ 1,939.20	93	40.3

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-17\2017-03-17\_003.xad

Created: 3/17/2017 4:05:25 PM  
 Modified: 3/17/2017 4:53:26 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : PstI-HinP1I (1/2x)**

Number of peaks found: 39                      Corr. Area 1: 376.6  
 Noise: 0.4

**Peak table for sample 5 : PstI-HinP1I (1/2x)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	22	0.00	0.0		39.27
2	25	0.00	0.0		40.08
3	27	0.00	0.0		40.69
4	35	125.00	5,411.3	Lower Marker	43.00
5	43	325.61	11,452.4		44.23
6	48	310.85	9,739.0		45.03
7	60	669.97	16,803.3		46.40
8	74	510.88	10,520.4		47.81
9	114	1,148.22	15,295.9		51.92
10	201	33.31	251.2		59.84
11	218	43.75	303.6		61.40
12	229	37.32	247.0		62.34
13	239	53.50	338.5		63.28
14	251	61.88	373.4		64.32
15	262	43.73	252.7		65.31
16	271	65.17	364.2		66.11
17	290	92.91	485.1		67.81
18	307	164.77	814.2		69.23
19	325	243.84	1,138.3		70.69
20	341	126.82	563.9		72.01
21	356	100.89	428.9		73.28
22	379	185.43	741.4		75.12
23	389	242.95	946.8		75.92
24	406	108.55	404.8		77.20
25	421	248.91	895.7		78.05

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-17\2017-03-17\_003.xad

Created: 3/17/2017 4:05:25 PM  
 Modified: 3/17/2017 4:53:26 PM

**Electropherogram Summary Continued ...**

**... Peak table for sample 5 : PstI-HinP1I (1/2x)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	442	65.14	223.1		79.27
27	456	62.17	206.8		80.03
28	483	121.41	381.1		81.58
29	509	47.20	140.4		83.00
30	526	33.88	97.7		83.75
31	548	59.58	164.7		84.79
32	613	81.33	201.1		87.58
33	691	61.65	135.2		90.03
34	809	24.22	45.4		91.73
35	930	7.73	12.6		93.28
36	981	9.09	14.0		93.94
37	4,252	6.72	2.4		105.88
38	4,818	4.04	1.3		106.63
39	6,518	3.40	0.8		108.90
40	7,064	4.46	1.0		109.60
41	10,380	75.00	10.9	Upper Marker	113.00

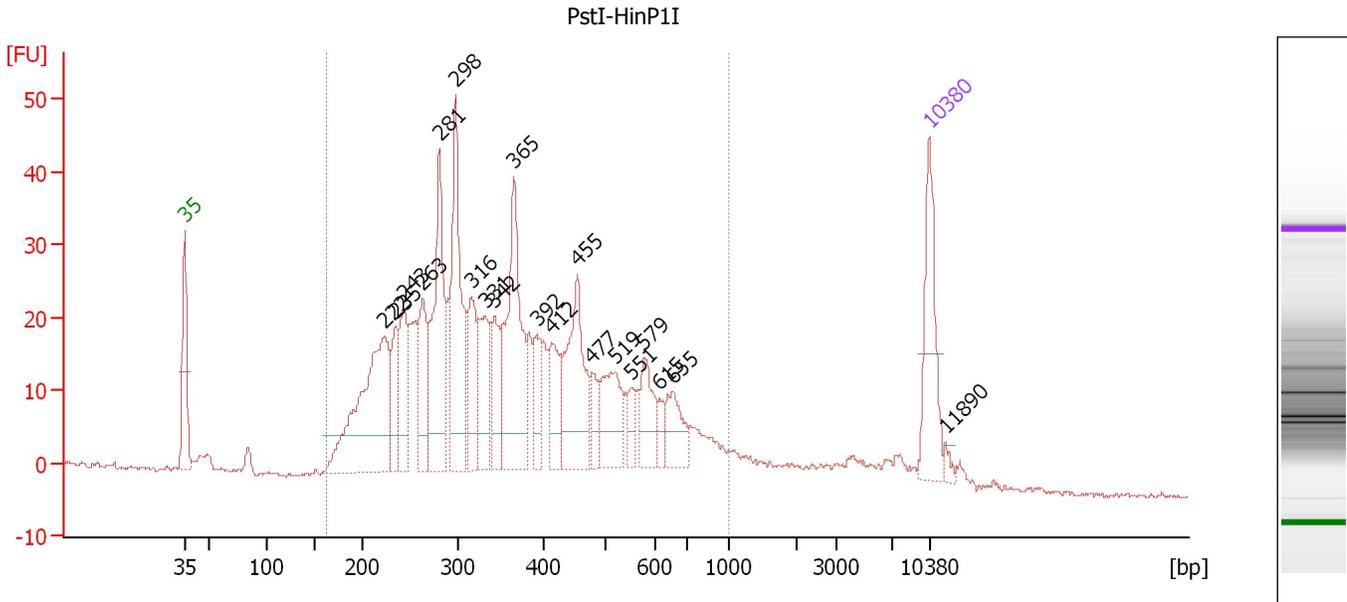
**Region table for sample 5 : PstI-HinP1I (1/2x)**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	397	376.6	2,441.4	631.71	49	11.5

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-17\2017-03-17\_003.xad

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 Modified: 3/17/2017 4:53:26 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : PstI-HinP1I**

Number of peaks found: 20                      Corr. Area 1: 864.0  
 Noise: 0.3

**Peak table for sample 6 : PstI-HinP1I**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	222	269.04	1,832.9		61.76
3	235	56.38	363.9		62.86
4	243	79.19	493.6		63.61
5	263	87.14	502.7		65.35
6	281	174.71	943.6		66.95
7	298	192.17	977.5		68.50
8	316	78.72	377.4		69.99
9	331	80.42	367.8		71.24
10	342	60.02	266.1		72.09
11	365	188.68	783.3		73.98
12	392	39.98	154.6		76.18
13	412	54.40	200.1		77.53
14	455	131.38	437.9		79.97
15	477	25.97	82.4		81.27
16	519	73.56	214.6		83.46
17	551	18.69	51.4		84.91
18	579	46.11	120.7		86.21
19	615	13.83	34.1		87.65
20	655	42.92	99.3		88.90
21	10,380	75.00	10.9	Upper Marker	113.00
22	11,890	0.00	0.0		114.55

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-17\2017-03-17\_003.xad

Created: 3/17/2017 4:05:25 PM  
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**Electropherogram Summary Continued ...**

... Region table for sample 6 :

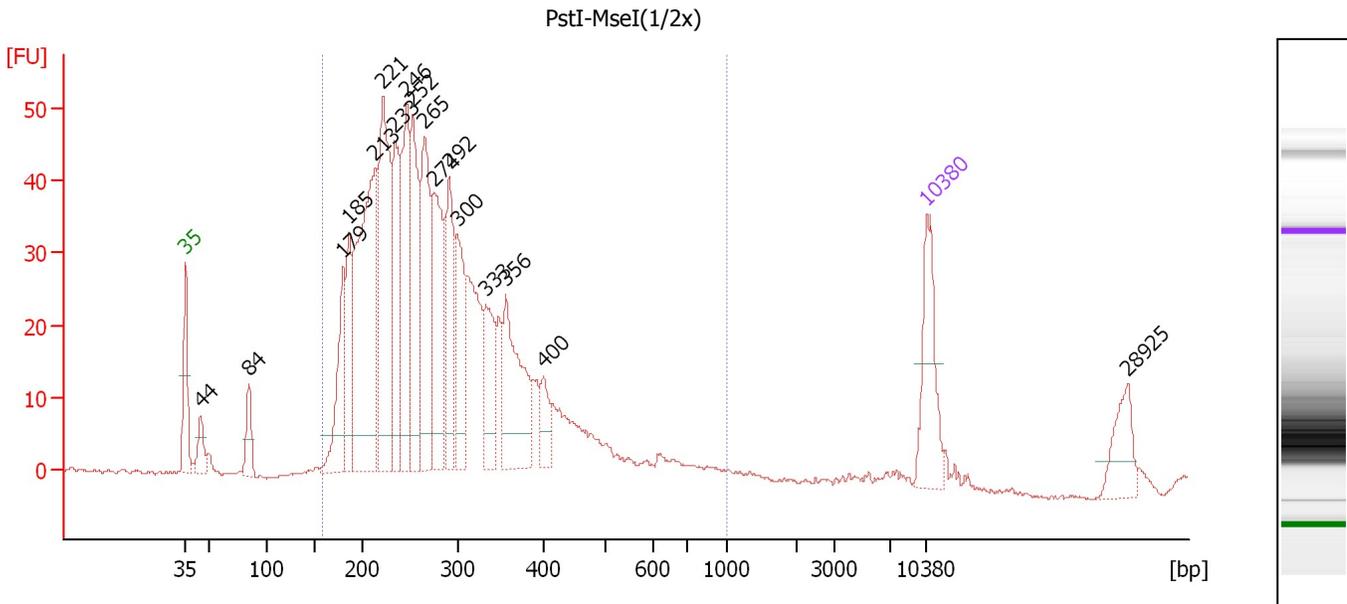
**PstI-HinP1I**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
163	1,000	385	864.0	9,881.7	 2,089.03	92	39.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-17\2017-03-17\_003.xad

Created: 3/17/2017 4:05:25 PM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : PstI-MseI(1/2x)**

Number of peaks found: 17                      Corr. Area 1: 1,003.5  
 Noise: 0.2

**Peak table for sample 7 : PstI-MseI(1/2x)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	44	37.65	1,289.3		44.40
3	84	46.23	831.0		48.96
4	179	121.48	1,027.3		57.88
5	185	99.13	813.1		58.38
6	213	380.35	2,710.1		60.89
7	221	279.48	1,915.6		61.64
8	233	153.77	998.2		62.74
9	246	169.14	1,040.4		63.89
10	252	166.07	996.6		64.45
11	265	178.14	1,017.0		65.60
12	274	181.50	1,002.2		66.40
13	292	124.23	645.1		67.95
14	300	117.54	594.3		68.65
15	333	81.32	370.2		71.36
16	356	145.08	617.2		73.26
17	400	32.60	123.5		76.82
18	10,380	75.00	10.9	Upper Marker	113.00
19	28,925	0.00	0.0		131.99

**Region table for sample 7 : PstI-MseI(1/2x)**

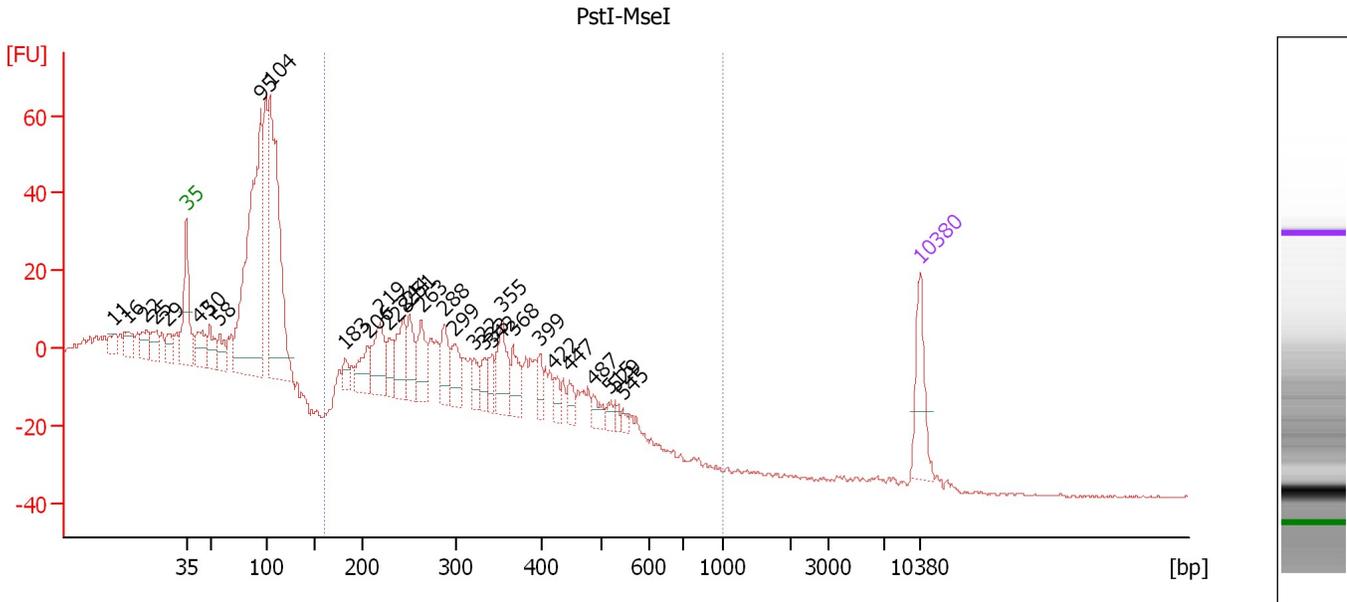
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
158	1,000	286	1,003.5	15,467.8	2,639.41	96	31.7



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-17\2017-03-17\_003.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : PstI-MseI**

Number of peaks found: 31                      Corr. Area 1: 413.9  
 Noise: 0.3

**Peak table for sample 8 : PstI-MseI**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	11	0.00	0.0		36.12
2	16	0.00	0.0		37.43
3	22	0.00	0.0		39.15
4	25	0.00	0.0		40.11
5	29	0.00	0.0		41.23
6	35	125.00	5,411.3	Lower Marker	43.00
7	43	72.40	2,571.0		44.16
8	50	61.14	1,865.1		45.23
9	58	48.14	1,247.2		46.19
10	95	706.47	11,298.2		50.09
11	104	574.64	8,391.2		51.00
12	183	25.67	213.1		58.18
13	206	65.52	481.5		60.31
14	219	106.48	736.0		61.47
15	228	50.44	334.8		62.28
16	244	88.94	551.9		63.70
17	251	75.69	457.0		64.31
18	263	73.46	422.5		65.42
19	288	66.02	347.5		67.60
20	299	57.05	289.0		68.61
21	322	33.60	158.1		70.48
22	333	29.84	135.7		71.39
23	342	34.10	151.1		72.10
24	355	87.62	374.0		73.17
25	368	53.59	220.6		74.23

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-17\2017-03-17\_003.xad

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**Electropherogram Summary Continued ...**

**... Peak table for sample 8 :**

**PstI-MseI**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	399	30.18	114.6		76.76
27	422	20.88	74.9		78.13
28	447	23.94	81.1		79.54
29	487	25.19	78.4		81.82
30	515	14.67	43.1		83.29
31	529	11.28	32.3		83.90
32	545	9.76	27.1		84.66
33	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 8 :**

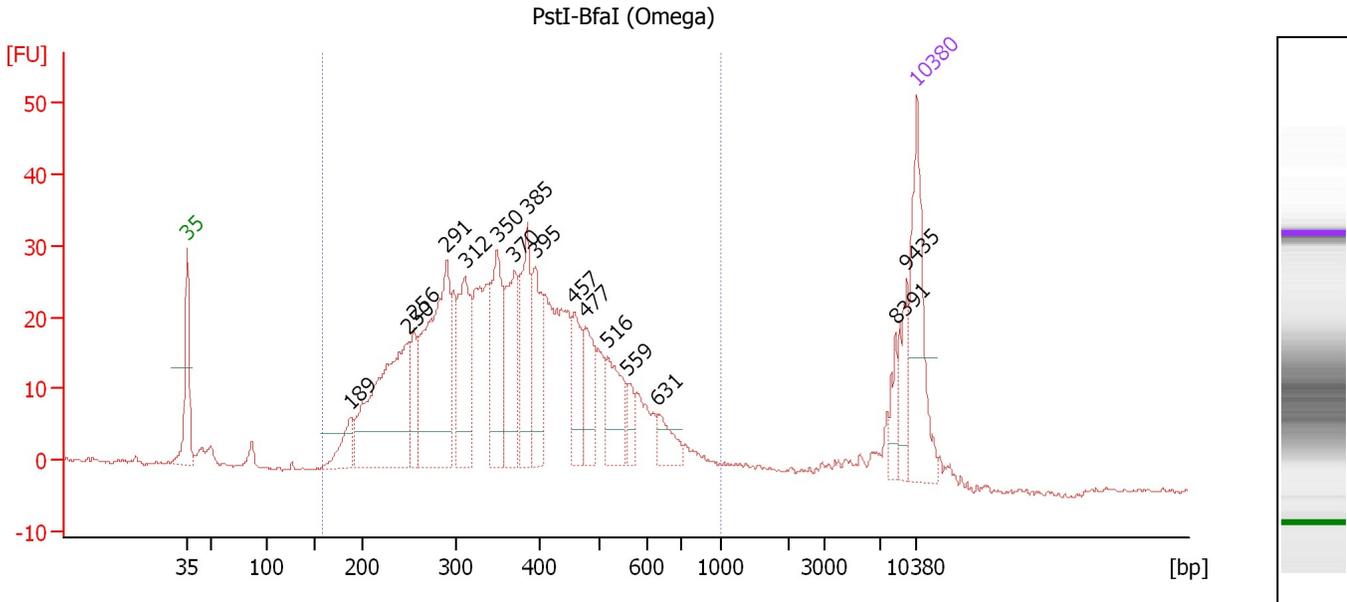
**PstI-MseI**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
161	1,000	320	413.9	5,692.2	1,088.27	41	26.8

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-17\2017-03-17\_003.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : PstI-BfaI (Omega)**

Number of peaks found: 16                      Corr. Area 1: 832.9  
 Noise: 0.3

**Peak table for sample 9 : PstI-BfaI (Omega)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	189	35.69	286.7		58.73
3	250	216.92	1,314.3		64.23
4	256	38.53	228.2		64.74
5	291	210.26	1,094.3		67.89
6	312	101.28	491.6		69.68
7	350	91.27	395.6		72.73
8	370	83.29	340.9		74.41
9	385	82.68	325.2		75.63
10	395	60.61	232.8		76.40
11	457	46.92	155.5		80.11
12	477	47.24	150.2		81.23
13	516	52.97	155.5		83.32
14	559	16.17	43.8		85.31
15	631	21.90	52.6		88.16
16	8,391	16.39	3.0		110.96
17	9,435	27.75	4.5		112.03
18	10,380	75.00	10.9	Upper Marker	113.00

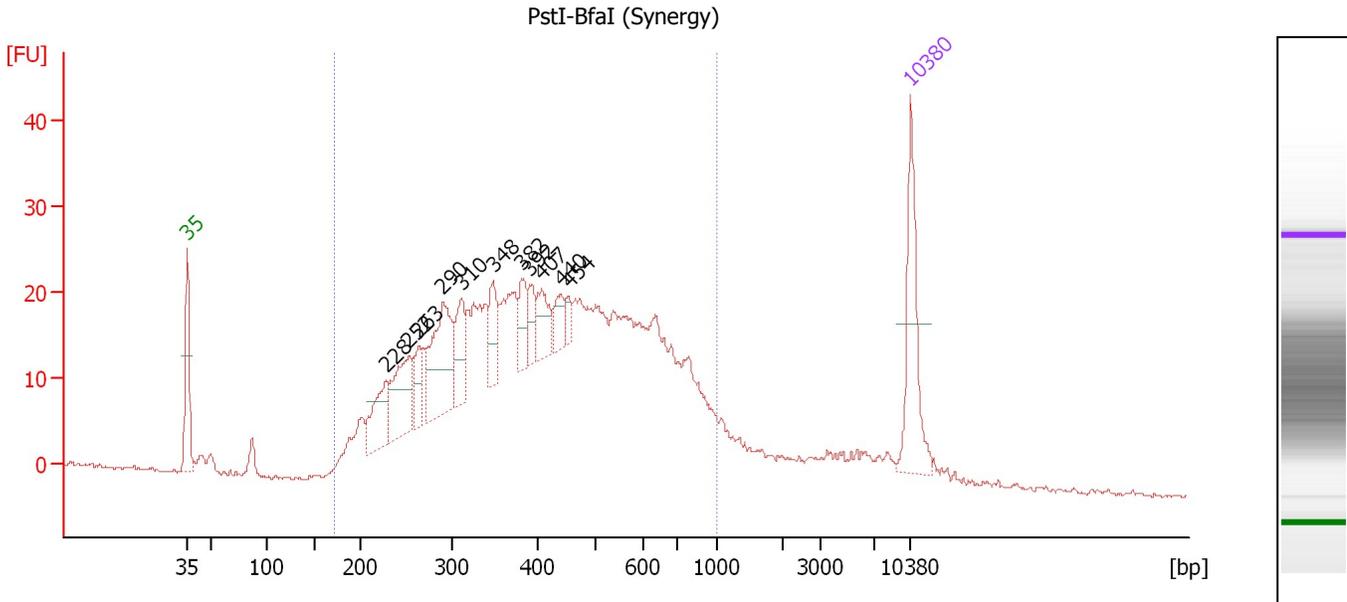
**Region table for sample 9 : PstI-BfaI (Omega)**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
158	1,000	383	832.9	7,236.7	1,580.05	90	33.4

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-17\2017-03-17\_003.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : PstI-BfaI (Synergy)**

Number of peaks found: 11                      Corr. Area 1: 753.2  
 Noise: 0.2

**Peak table for sample 10 : PstI-BfaI (Synergy)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	228	61.23	406.9		62.26
3	252	79.98	480.6		64.42
4	263	31.06	178.9		65.39
5	290	119.76	626.7		67.75
6	310	48.65	237.8		69.50
7	348	39.10	170.4		72.58
8	382	31.24	124.0		75.36
9	392	21.61	83.5		76.18
10	407	34.95	130.0		77.26
11	440	22.50	77.4		79.16
12	454	12.16	40.6		79.93
13	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 10 : PstI-BfaI (Synergy)**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
171	1,000	443	753.2	8,520.3	2,053.27	90	37.7



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-17\2017-03-17\_003.xad

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 Modified: 3/17/2017 4:53:26 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 11 : PstI-BfaI (Sbeadex)

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	4,889	4.93	1.5		106.73
27	10,380	75.00	10.9	Upper Marker	113.00

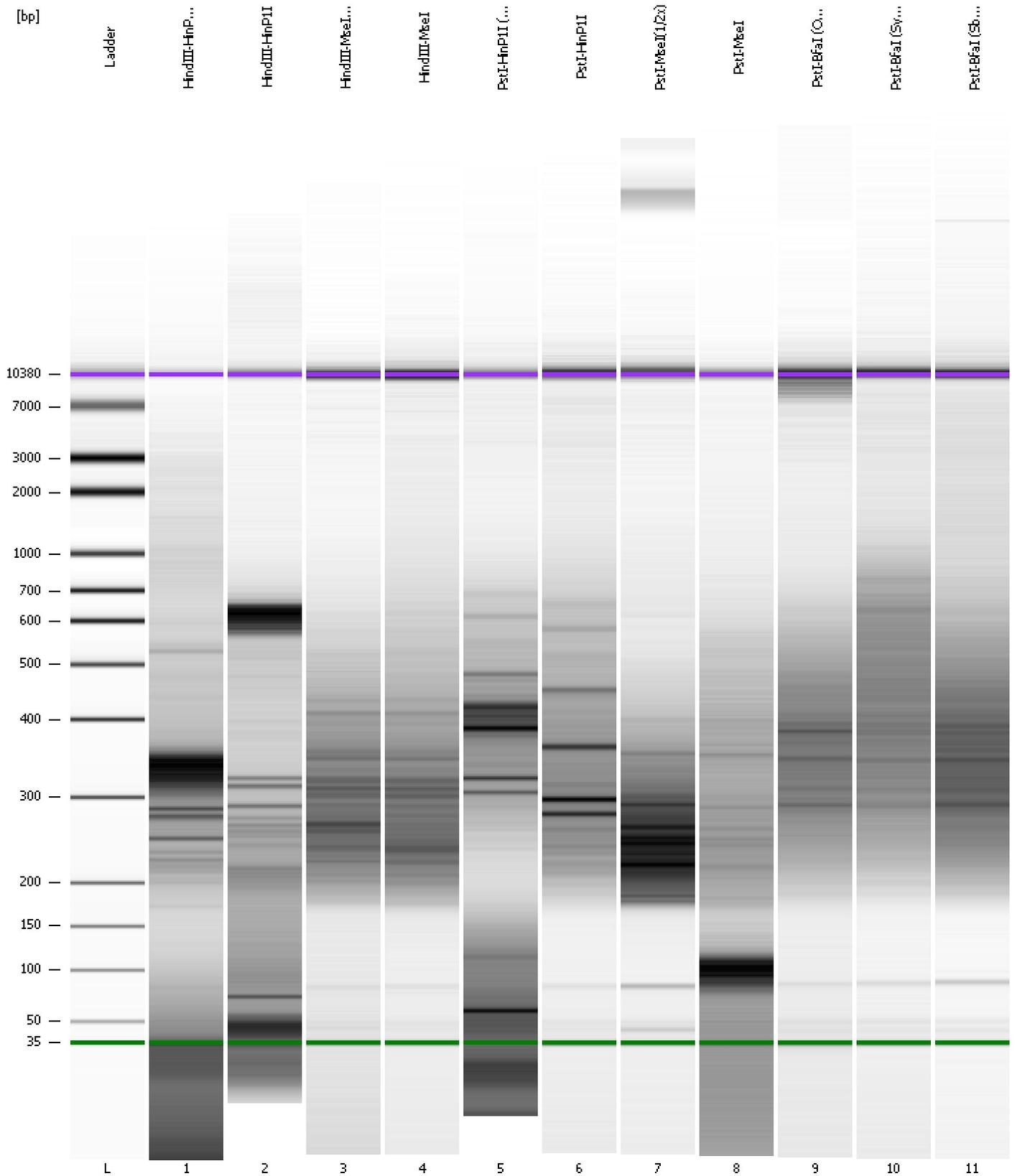
#### Region table for sample 11 : PstI-BfaI (Sbeadex)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ $\mu$ l]	% of Total	Size distribution in CV [%]
162	1,000	394	1,007.3	10,774.0	2,353.76	88	37.5

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-17\2017-03-17\_003.xad

Created: 3/17/2017 4:05:25 PM  
Modified: 3/17/2017 4:53:26 PM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-17\2017-03-17\_003.xad

Created: 3/17/2017 4:05:25 PM  
 Modified: 3/17/2017 4:53:26 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		3/17/2017 4:46:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2017-03-17\2017-03-17_003.xad)		Instrument	Run		3/17/2017 4:05:30 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/17/2017 4:05:30 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/17/2017 4:05:30 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/17/2017 4:05:30 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/17/2017 4:05:30 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/17/2017 4:05:30 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/17/2017 4:05:30 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1