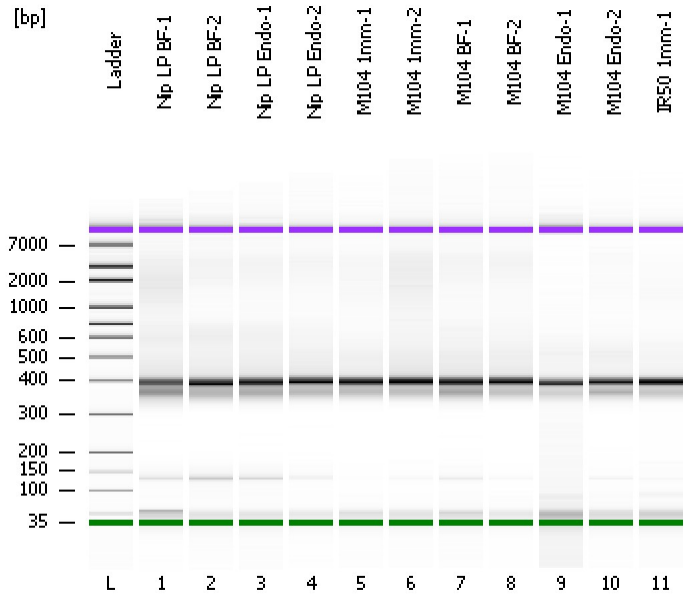
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-09\2012-11-09_003.xad

Created: 11/9/2012 9:49:41 AM
Modified: 11/9/2012 10:36:37 AM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

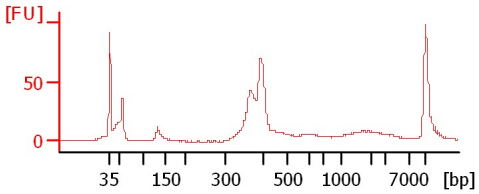
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy

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

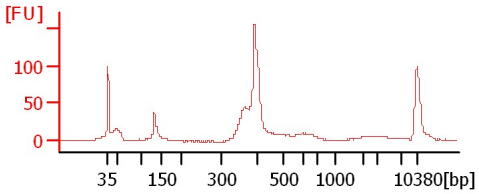
Chip Information:

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

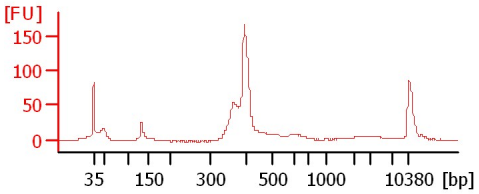
Nip LP BF-1



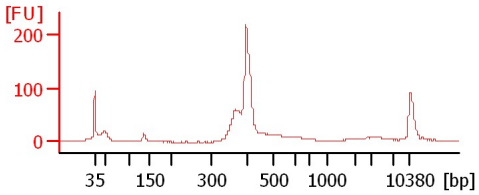
Nip LP BF-2



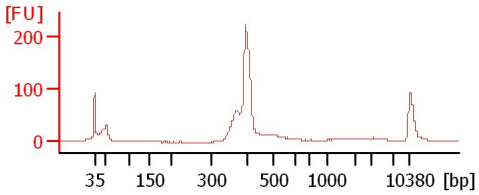
Nip LP Endo-1



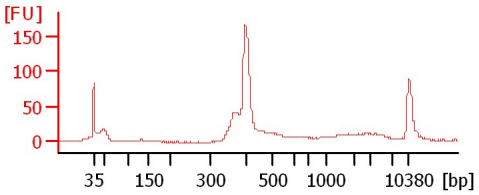
Nip LP Endo-2



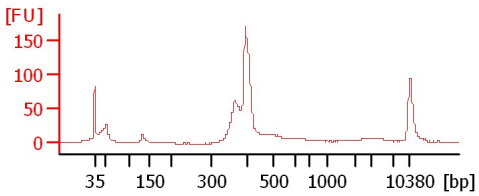
M104 1mm-1



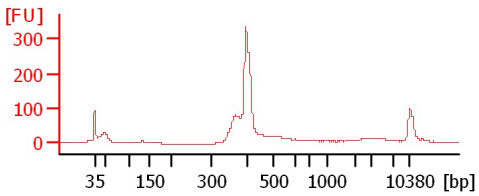
M104 1mm-2



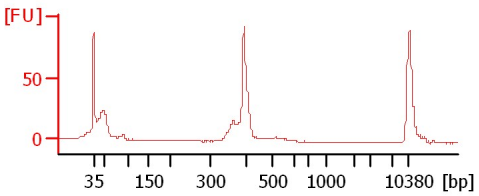
M104 BF-1



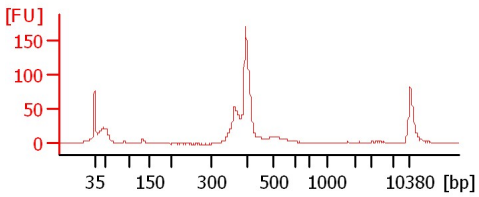
M104 BF-2



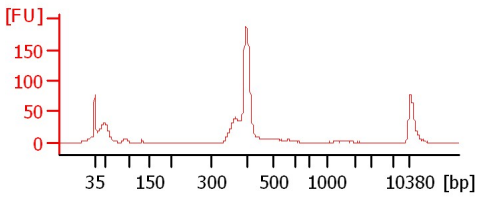
M104 Endo-1



M104 Endo-2



IR50 1mm-1



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-09\2012-11-09_003.xad

Created: 11/9/2012 9:49:41 AM
Modified: 11/9/2012 10:36:37 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Nip LP BF-1		☐	✔			
Nip LP BF-2		☐	✔			
Nip LP Endo-1		☐	✔			
Nip LP Endo-2		☐	✔			
M104 1mm-1		☐	✔			
M104 1mm-2		☐	✔			
M104 BF-1		☐	✔			
M104 BF-2		☐	✔			
M104 Endo-1		☐	✔			
M104 Endo-2		☐	✔			
IR50 1mm-1		☐	✔			
Ladder		☐	✔			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-09\2012-11-09_003.xad

Created: 11/9/2012 9:49:41 AM
Modified: 11/9/2012 10:36:37 AM

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

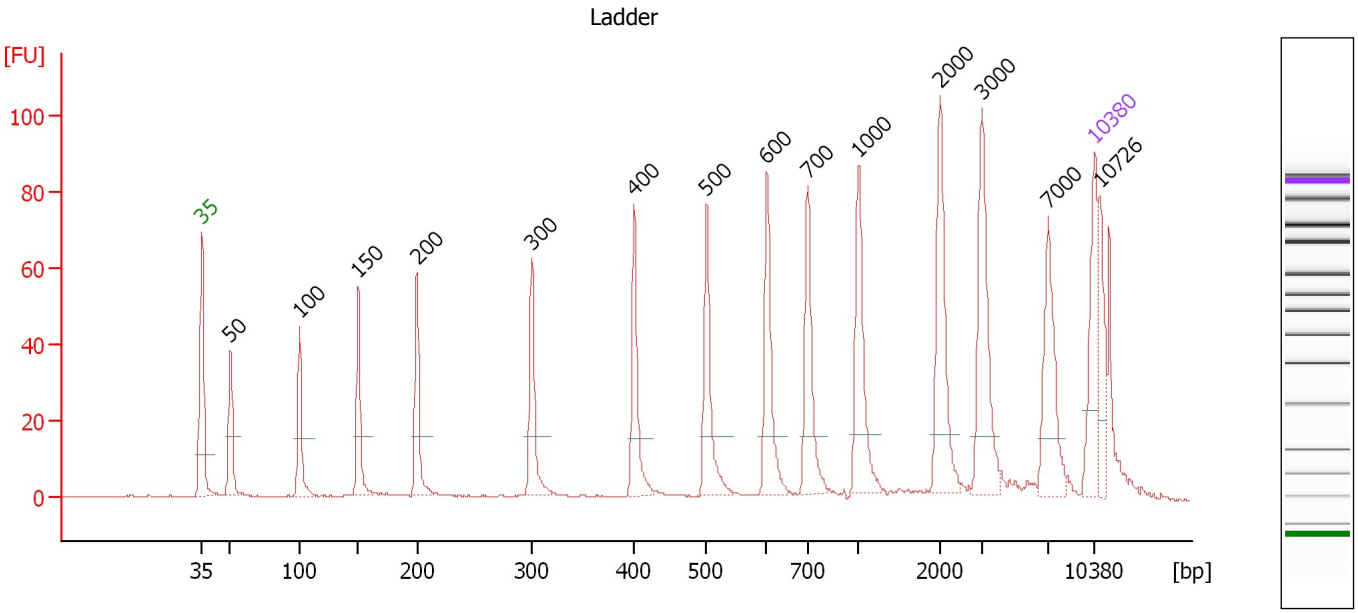
Ladder

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\2012-11-09\2012-11-09_003.xad

Created: 11/9/2012 9:49:41 AM
Modified: 11/9/2012 10:36:37 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

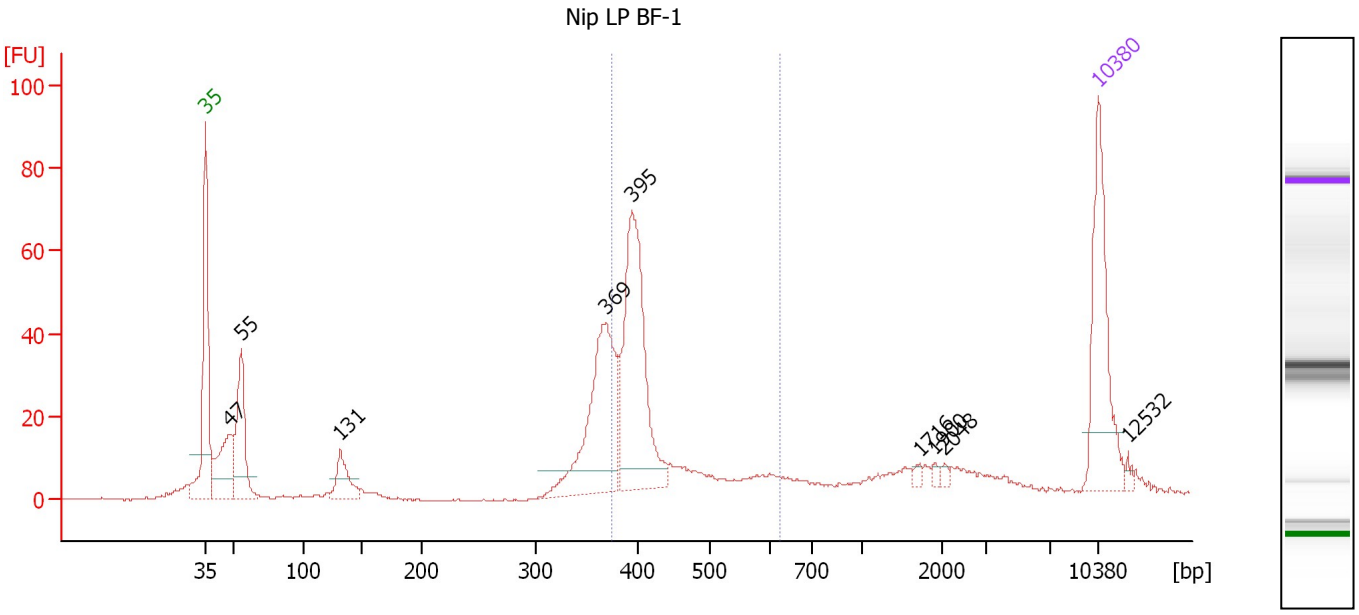
Peak table for Ladder

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
16		10,726	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-09\2012-11-09_003.xad

Created: 11/9/2012 9:49:41 AM
Modified: 11/9/2012 10:36:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Nip LP BF-1

Number of peaks found:	9	Corr. Area 1:	274.3
Noise:	0.2		

Peak table for sample 1 : Nip LP BF-1

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	74.63	2,382.6	
3	55	87.86	2,419.7	
4	131	34.58	398.7	
5	369	143.70	590.1	
6	395	167.62	643.8	
7	1,716	2.91	2.6	
8	1,900	2.66	2.1	
9	2,048	2.83	2.1	
10	10,380	75.00	10.9	Upper Marker
11	12,532	0.00	0.0	

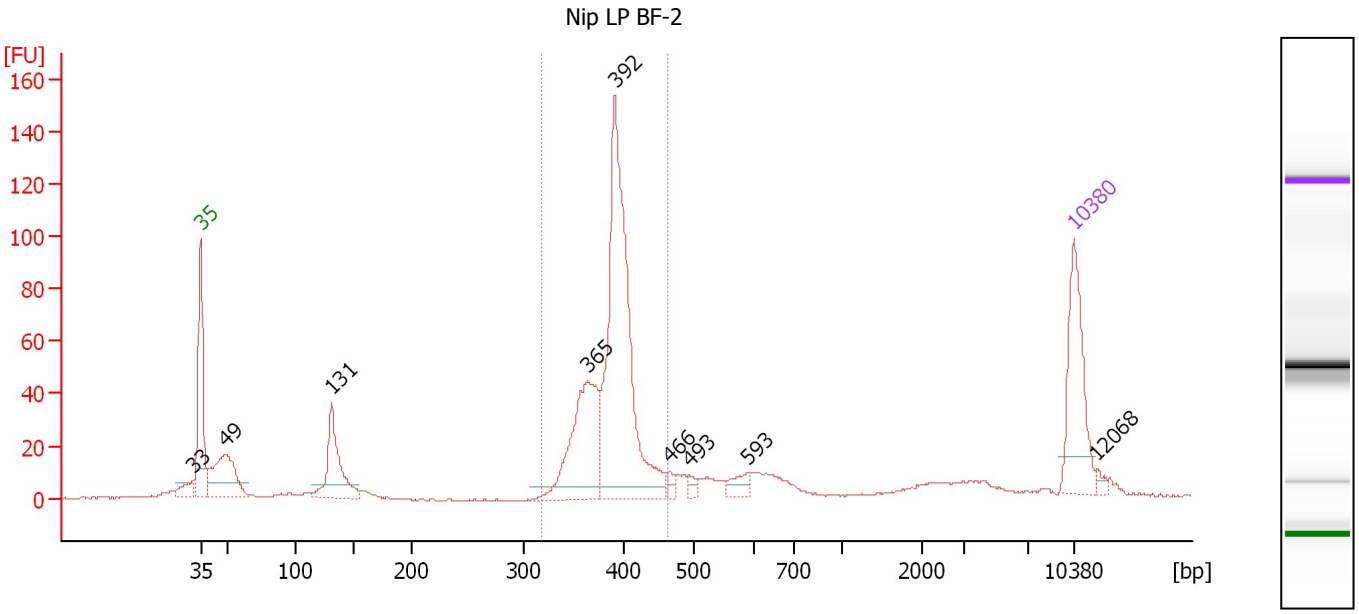
Region table for sample 1 : Nip LP BF-1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
375	625	424	961.6	264.04	274.3	41	13.6	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-09\2012-11-09_003.xad

Created: 11/9/2012 9:49:41 AM
Modified: 11/9/2012 10:36:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Nip LP BF-2

Number of peaks found:	9	Corr. Area 1:	544.1
Noise:	0.3		

Peak table for sample 2 : Nip LP BF-2

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1		33	0.00	0.0	
2	◀	35	125.00	5,411.3	Lower Marker
3		49	107.27	3,324.7	
4		131	96.48	1,115.1	
5		365	151.16	628.2	
6		392	348.61	1,348.5	
7		466	7.01	22.8	
8		493	7.30	22.4	
9		593	14.56	37.2	
10	▶	10,380	75.00	10.9	Upper Marker
11		12,068	0.00	0.0	

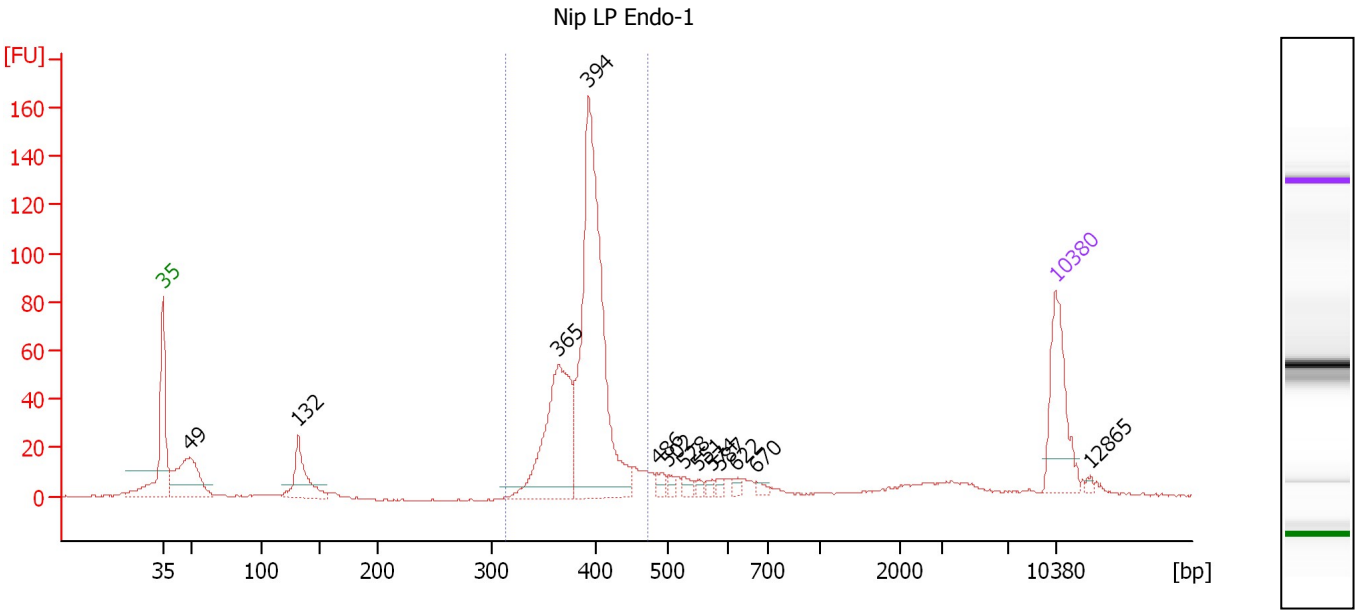
Region table for sample 2 : Nip LP BF-2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
319	464	389	1,898.2	485.74	544.1	58	6.2	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-09\2012-11-09_003.xad

Created: 11/9/2012 9:49:41 AM
Modified: 11/9/2012 10:36:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Nip LP Endo-1

Number of peaks found:	13	Corr. Area 1:	607.1
Noise:	0.2		

Peak table for sample 3 : Nip LP Endo-1

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		49	119.07	3,668.4	
3		132	71.68	822.2	
4		365	198.10	823.3	
5		394	420.08	1,615.6	
6		486	10.85	33.8	
7		502	6.73	20.3	
8		528	8.46	24.3	
9		551	5.39	14.8	
10		574	5.44	14.3	
11		587	5.15	13.3	
12		622	6.55	15.9	
13		670	5.55	12.6	
14	▶	10,380	75.00	10.9	Upper Marker
15		12,865	0.00	0.0	

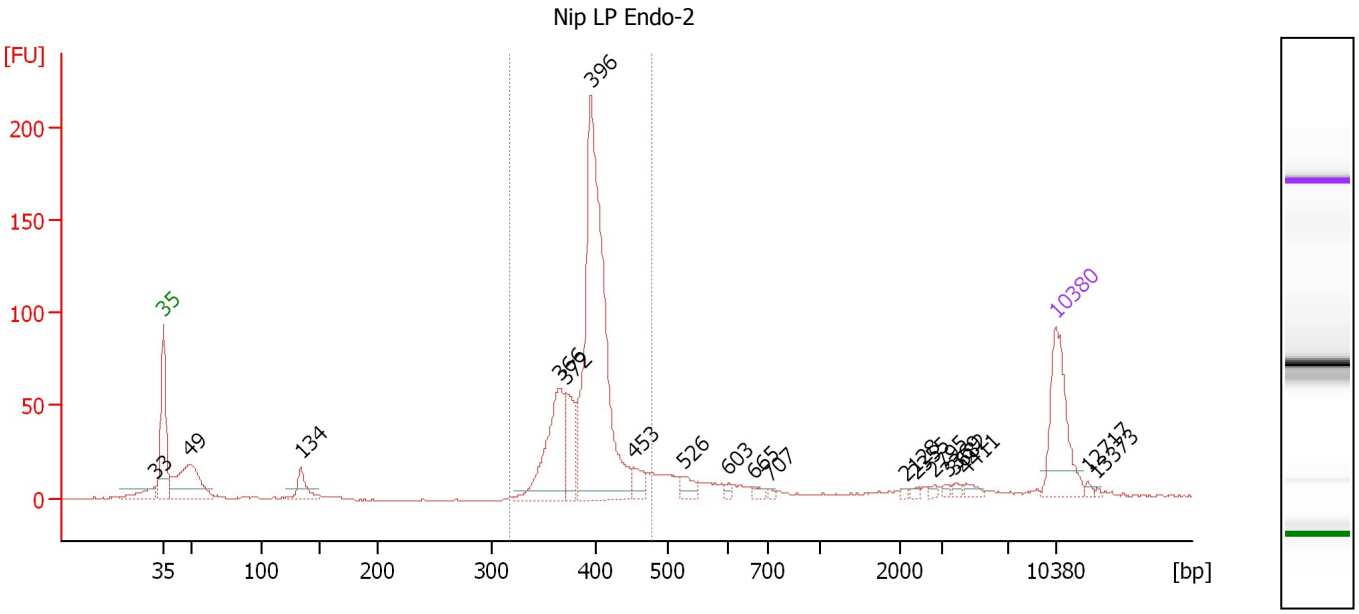
Region table for sample 3 : Nip LP Endo-1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
313	472	391	2,400.2	617.74	607.1	67	6.5	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-09\2012-11-09_003.xad

Created: 11/9/2012 9:49:41 AM
Modified: 11/9/2012 10:36:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Nip LP Endo-2

Number of peaks found:	19	Corr. Area 1:	743.6
Noise:	0.4		

Peak table for sample 4 : Nip LP Endo-2

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	33	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	49	117.24	3,610.4	
4	134	33.11	373.7	
5	366	124.97	517.0	
6	372	51.68	210.3	
7	396	435.53	1,665.3	
8	453	18.32	61.3	
9	526	14.73	42.4	
10	603	4.37	11.0	
11	665	6.12	13.9	
12	707	2.74	5.9	
13	2,128	2.03	1.4	
14	2,355	2.68	1.7	
15	2,795	3.03	1.6	
16	3,369	3.00	1.3	
17	3,682	3.82	1.6	
18	4,411	5.76	2.0	
19	10,380	75.00	10.9	Upper Marker
20	12,717	0.00	0.0	
21	13,373	0.00	0.0	

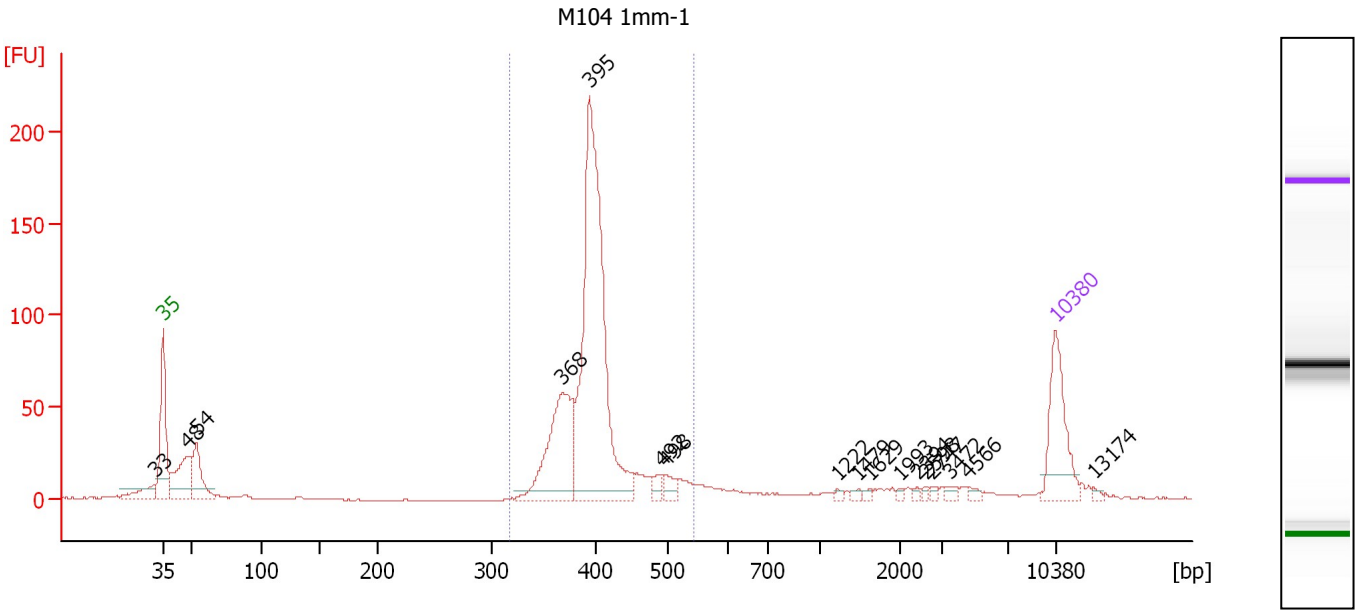
Region table for sample 4 : Nip LP Endo-2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
316	480	396	2,453.9	638.95	743.6	67	6.6	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-09\2012-11-09_003.xad

Created: 11/9/2012 9:49:41 AM
Modified: 11/9/2012 10:36:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : M104 1mm-1

Number of peaks found:	17	Corr. Area 1:	789.9
Noise:	0.3		

Peak table for sample 5 : M104 1mm-1

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	33	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	48	99.43	3,124.7	
4	54	72.56	2,042.2	
5	368	175.45	721.9	
6	395	488.75	1,875.5	
7	492	12.50	38.5	
8	498	15.53	47.3	
9	1,222	3.49	4.3	
10	1,479	3.43	3.5	
11	1,629	3.34	3.1	
12	1,993	2.64	2.0	
13	2,394	2.83	1.8	
14	2,598	2.74	1.6	
15	2,747	2.99	1.6	
16	3,472	5.25	2.3	
17	4,566	4.59	1.5	
18	10,380	75.00	10.9	Upper Marker
19	13,174	0.00	0.0	

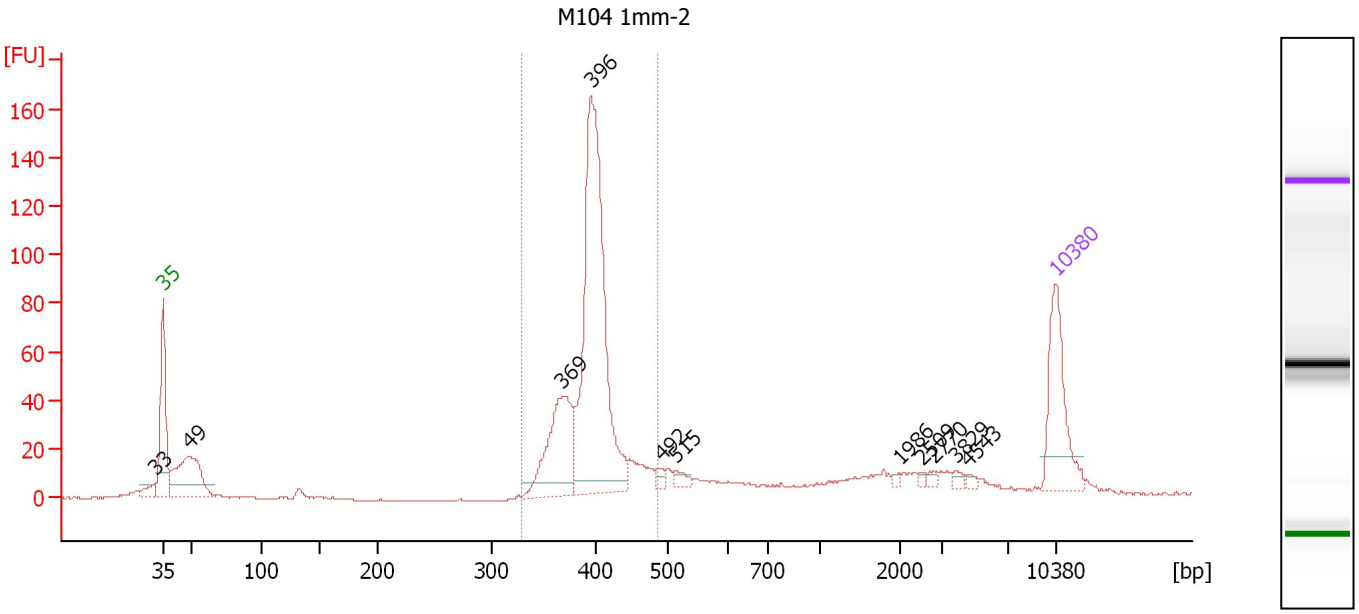
Region table for sample 5 : M104 1mm-1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
316	546	402	2,706.3	713.44	789.9	71	9.2	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-09\2012-11-09_003.xad

Created: 11/9/2012 9:49:41 AM
Modified: 11/9/2012 10:36:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : M104 1mm-2

Number of peaks found:	11	Corr. Area 1:	589.7
Noise:	0.2		

Peak table for sample 6 : M104 1mm-2

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	33	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	49	129.61	4,009.4	
4	369	129.05	530.5	
5	396	396.62	1,517.3	
6	492	7.57	23.3	
7	515	8.74	25.7	
8	1,986	2.55	1.9	
9	2,509	2.52	1.5	
10	2,770	4.00	2.2	
11	3,829	4.13	1.6	
12	4,543	3.47	1.2	
13	10,380	75.00	10.9	Upper Marker

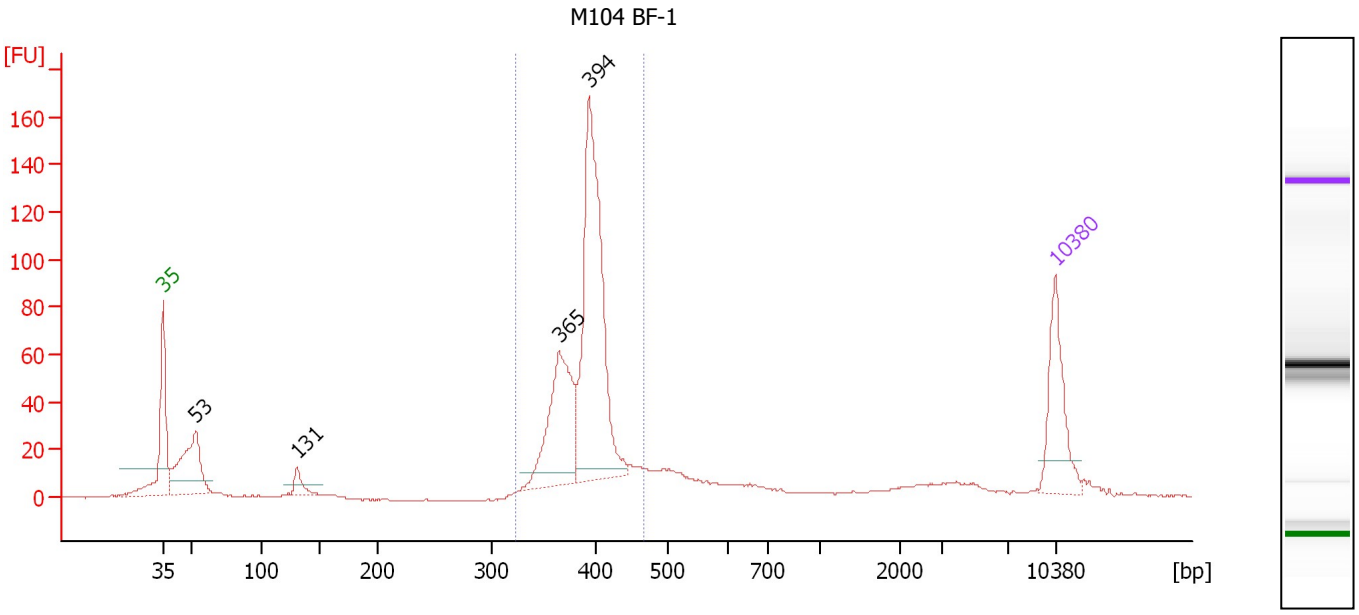
Region table for sample 6 : M104 1mm-2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
328	486	398	2,184.2	572.28	589.7	62	6.8	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-09\2012-11-09_003.xad

Created: 11/9/2012 9:49:41 AM
Modified: 11/9/2012 10:36:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : M104 BF-1

Number of peaks found:	4	Corr. Area 1:	626.6
Noise:	0.3		

Peak table for sample 7 : M104 BF-1

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	53	150.82	4,305.0	
3	131	25.90	298.9	
4	365	175.71	728.9	
5	394	363.15	1,396.1	
6	10,380	75.00	10.9	Upper Marker

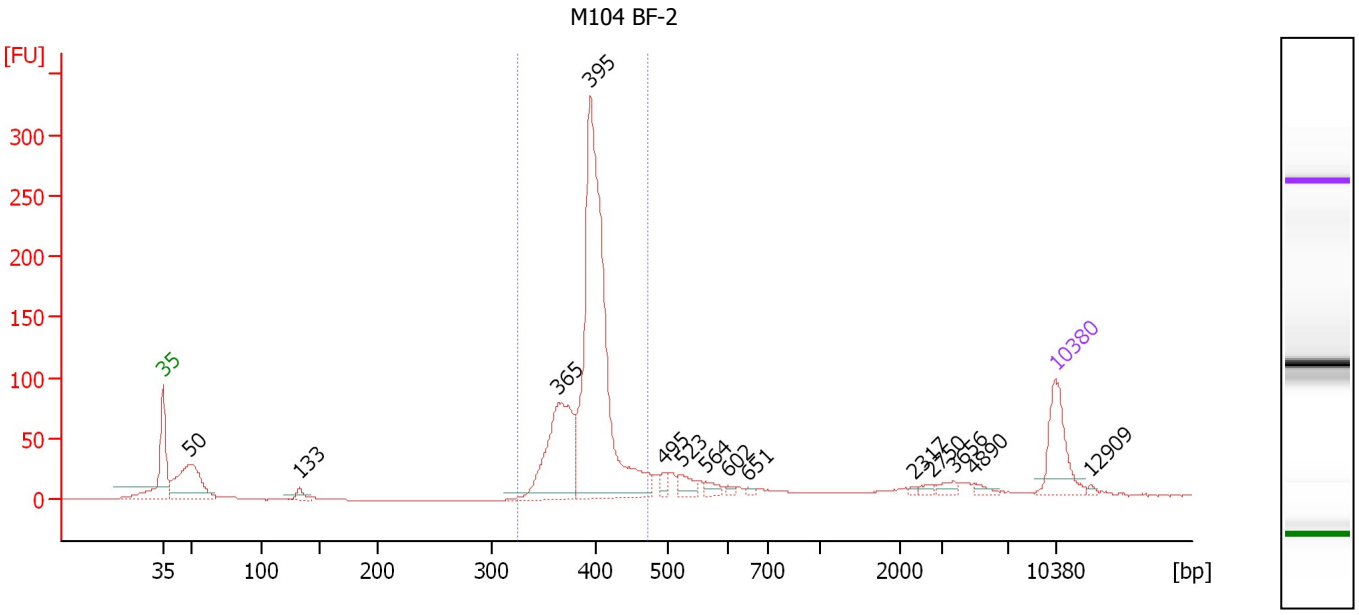
Region table for sample 7 : M104 BF-1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
322	468	392	2,440.2	629.00	626.6	65	6.3	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-09\2012-11-09_003.xad

Created: 11/9/2012 9:49:41 AM
Modified: 11/9/2012 10:36:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : M104 BF-2

Number of peaks found:	14	Corr. Area 1:	1,075.1
Noise:	0.3		

Peak table for sample 8 : M104 BF-2

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	176.10	5,387.2	
3	133	16.21	184.7	
4	365	229.17	952.2	
5	395	669.45	2,564.9	
6	495	11.76	36.0	
7	523	24.82	71.9	
8	564	12.87	34.6	
9	602	5.26	13.2	
10	651	3.92	9.1	
11	2,317	2.56	1.7	
12	2,750	5.40	3.0	
13	3,656	10.01	4.1	
14	4,890	6.98	2.2	
15	10,380	75.00	10.9	Upper Marker
16	12,909	0.00	0.0	

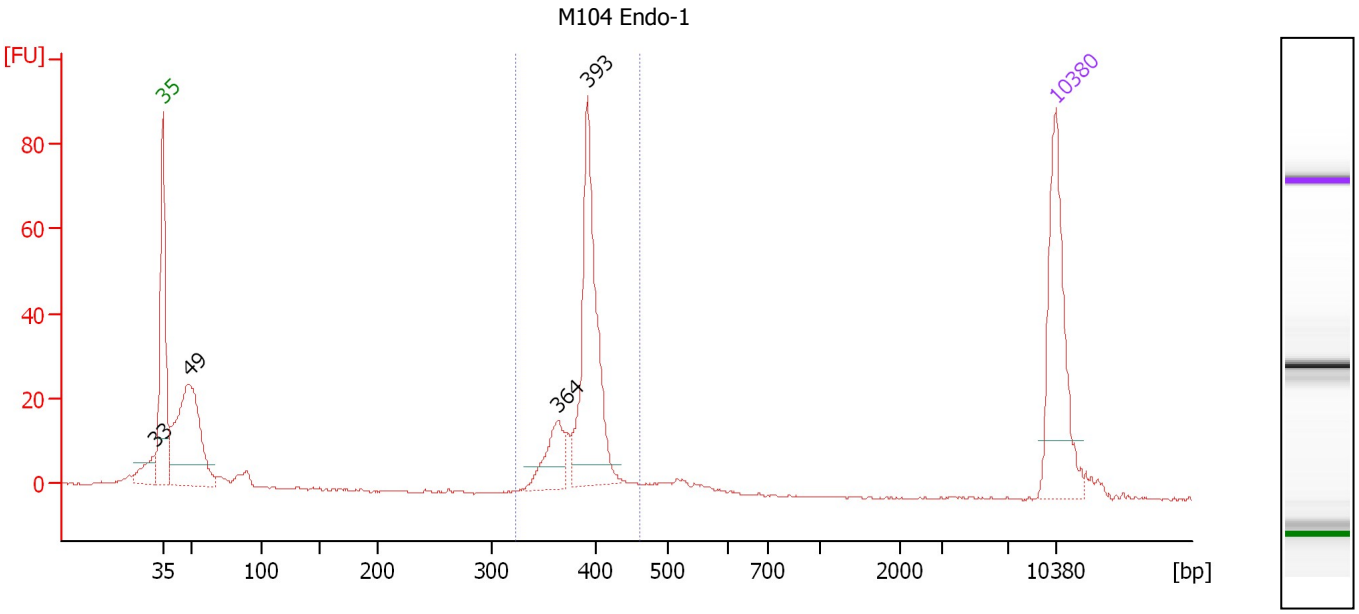
Region table for sample 8 : M104 BF-2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
325	474	396	3,389.0	882.93	1,075.1	68	6.2	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-09\2012-11-09_003.xad

Created: 11/9/2012 9:49:41 AM
Modified: 11/9/2012 10:36:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : M104 Endo-1

Number of peaks found:	4	Corr. Area 1:	213.0
Noise:	0.3		

Peak table for sample 9 : M104 Endo-1

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	33	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	49	162.24	5,057.1	
4	364	34.84	144.9	
5	393	142.91	551.2	
6	10,380	75.00	10.9	Upper Marker

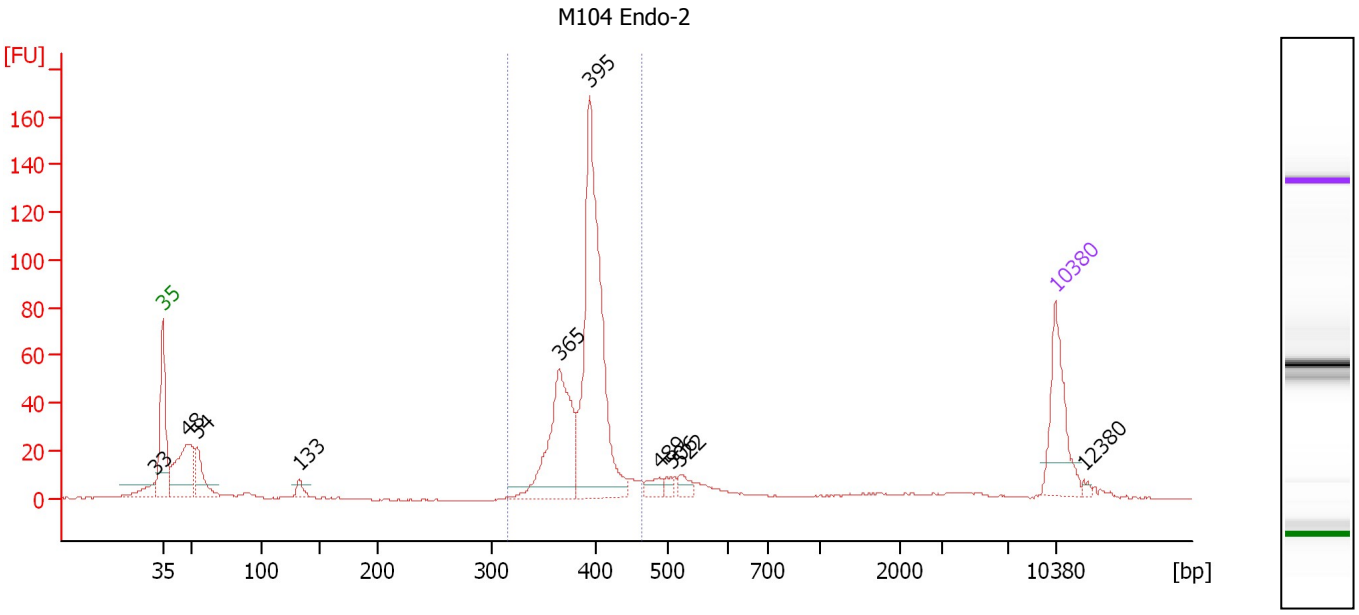
Region table for sample 9 : M104 Endo-1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
323	462	390	758.0	194.86	213.0	54	5.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-09\2012-11-09_003.xad

Created: 11/9/2012 9:49:41 AM
Modified: 11/9/2012 10:36:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : M104 Endo-2

Number of peaks found:	10	Corr. Area 1:	505.5
Noise:	0.2		

Peak table for sample 10 : M104 Endo-2

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	33	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	48	137.79	4,308.8	
4	54	60.50	1,697.7	
5	133	14.37	163.6	
6	365	189.26	784.7	
7	395	383.30	1,470.6	
8	489	15.05	46.6	
9	506	9.41	28.2	
10	522	14.29	41.5	
11	10,380	75.00	10.9	Upper Marker
12	12,380	0.00	0.0	

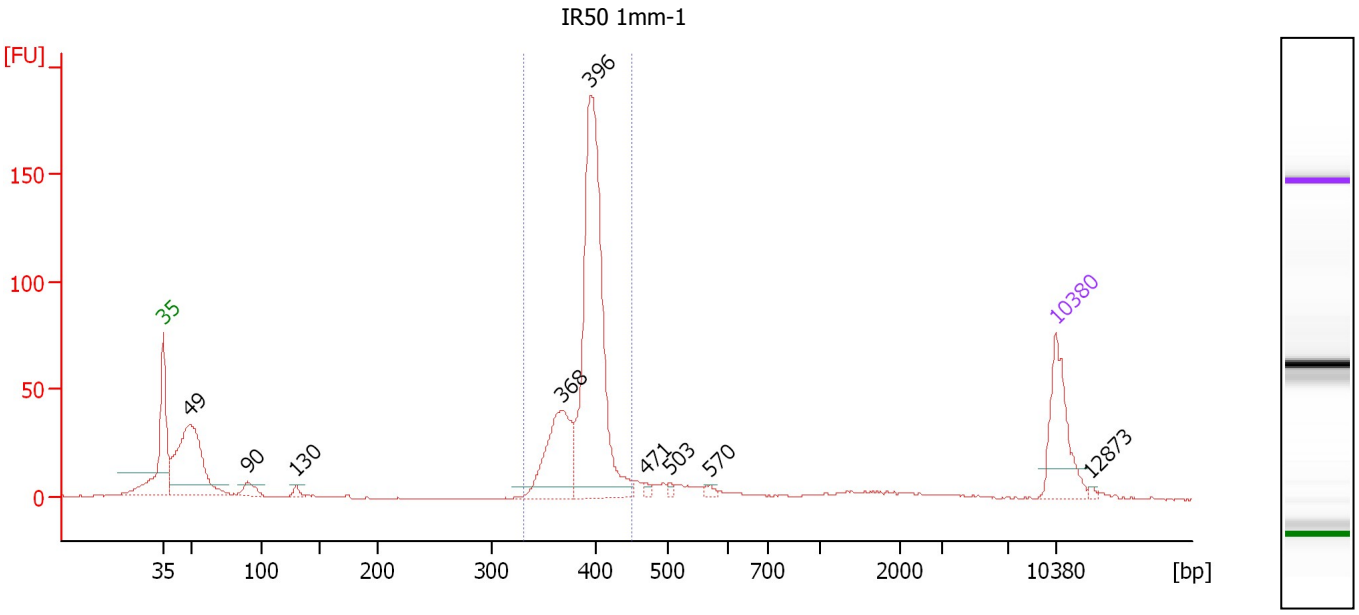
Region table for sample 10 : M104 Endo-2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
314	464	391	2,279.0	586.66	505.5	63	5.9	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-09\2012-11-09_003.xad

Created: 11/9/2012 9:49:41 AM
Modified: 11/9/2012 10:36:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : IR50 1mm-1

Number of peaks found:	9	Corr. Area 1:	561.1
Noise:	0.3		

Peak table for sample 11 : IR50 1mm-1

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		49	254.93	7,853.9	
3		90	19.82	331.8	
4		130	7.61	88.6	
5		368	141.20	581.7	
6		396	442.27	1,693.6	
7		471	4.90	15.8	
8		503	4.70	14.1	
9		570	5.02	13.3	
10	▶	10,380	75.00	10.9	Upper Marker
11		12,873	0.00	0.0	

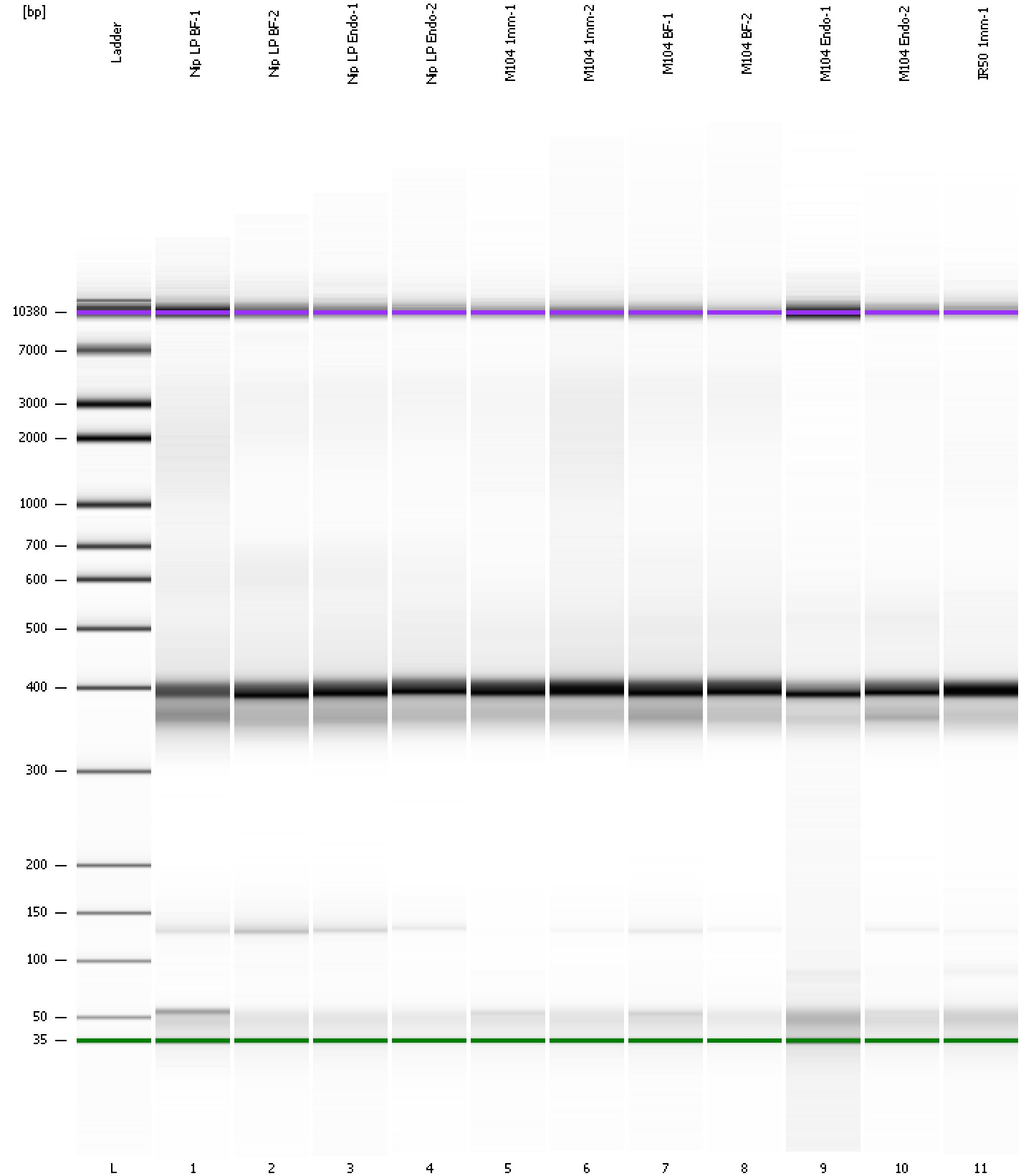
Region table for sample 11 : IR50 1mm-1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
330	451	392	2,250.0	581.29	561.1	63	5.1	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-09\2012-11-09_003.xad

Created: 11/9/2012 9:49:41 AM
Modified: 11/9/2012 10:36:37 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-09\2012-11-09_003.xad

Created: 11/9/2012 9:49:41 AM
Modified: 11/9/2012 10:36:37 AM

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		11/9/2012 10:31:01 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-11-09\2012-11-09_003.xad)		Instrument	Run		11/9/2012 9:49:46 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/9/2012 9:49:46 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/9/2012 9:49:46 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/9/2012 9:49:46 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/9/2012 9:49:46 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/9/2012 9:49:46 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/9/2012 9:49:46 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1