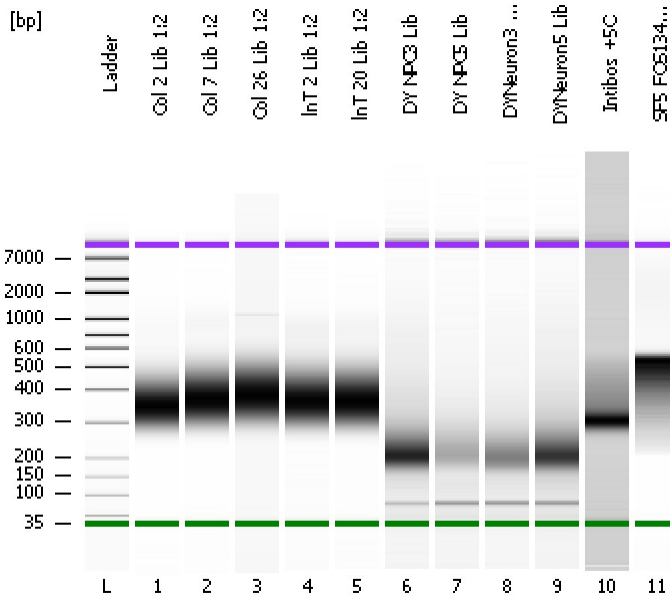


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-18\2012-05-18_002.xad

Created: 5/18/2012 4:34:36 PM
Modified: 5/18/2012 5:20:30 PM

Electrophoresis File Run Summary



Instrument Information:

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

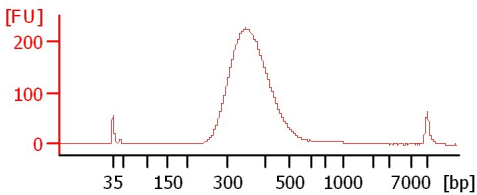
Assay Information:

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

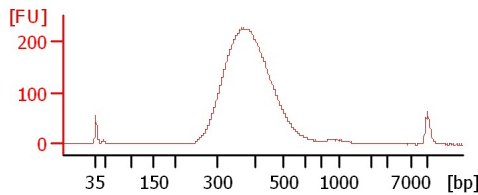
Chip Information:

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

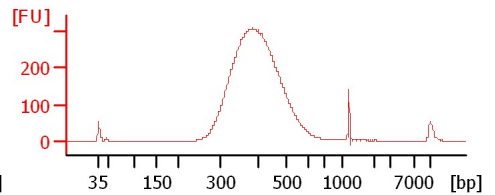
Col 2 Lib 1:2



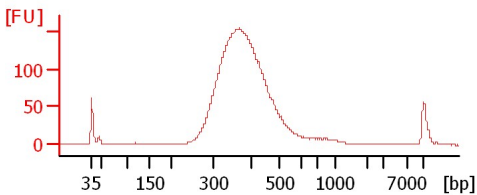
Col 7 Lib 1:2



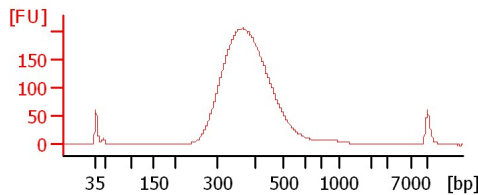
Col 26 Lib 1:2



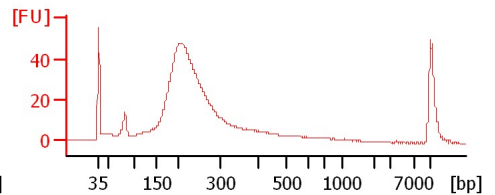
InT 2 Lib 1:2



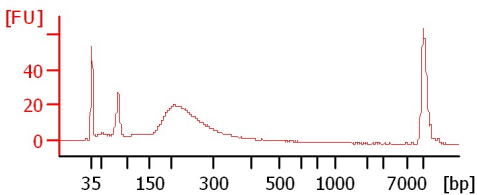
InT 20 Lib 1:2



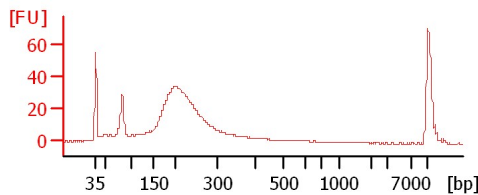
DY NPC3 Lib



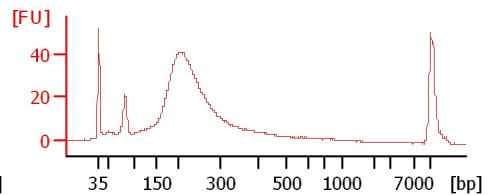
DY NPC5 Lib



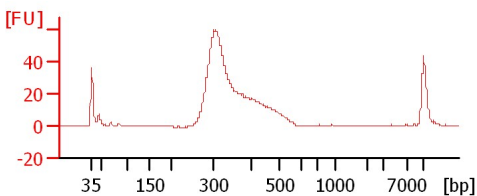
DYNeuron3 Lib



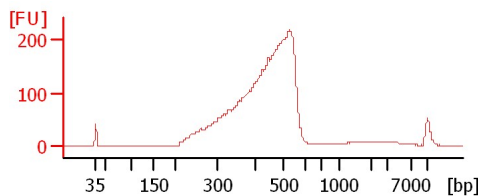
DYNeuron5 Lib



Intibos +5C



SF5 FOS134678



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-18\2012-05-18_002.xad

Created: 5/18/2012 4:34:36 PM
 Modified: 5/18/2012 5:20:30 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Col 2 Lib 1:2		<input type="checkbox"/>	✓			
Col 7 Lib 1:2		<input type="checkbox"/>	✓			
Col 26 Lib 1:2		<input type="checkbox"/>	✓			
InT 2 Lib 1:2		<input type="checkbox"/>	✓			
InT 20 Lib 1:2		<input type="checkbox"/>	✓			
DY NPC3 Lib		<input type="checkbox"/>	✓			
DY NPC5 Lib		<input type="checkbox"/>	✓			
DYNeuron3 Lib		<input type="checkbox"/>	✓			
DYNeuron5 Lib		<input type="checkbox"/>	✓			
Intibos +5C		<input type="checkbox"/>	✓			
SF5 FOS134678		<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\2012-05-18\2012-05-18_002.xad

Created: 5/18/2012 4:34:36 PM
Modified: 5/18/2012 5:20:30 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

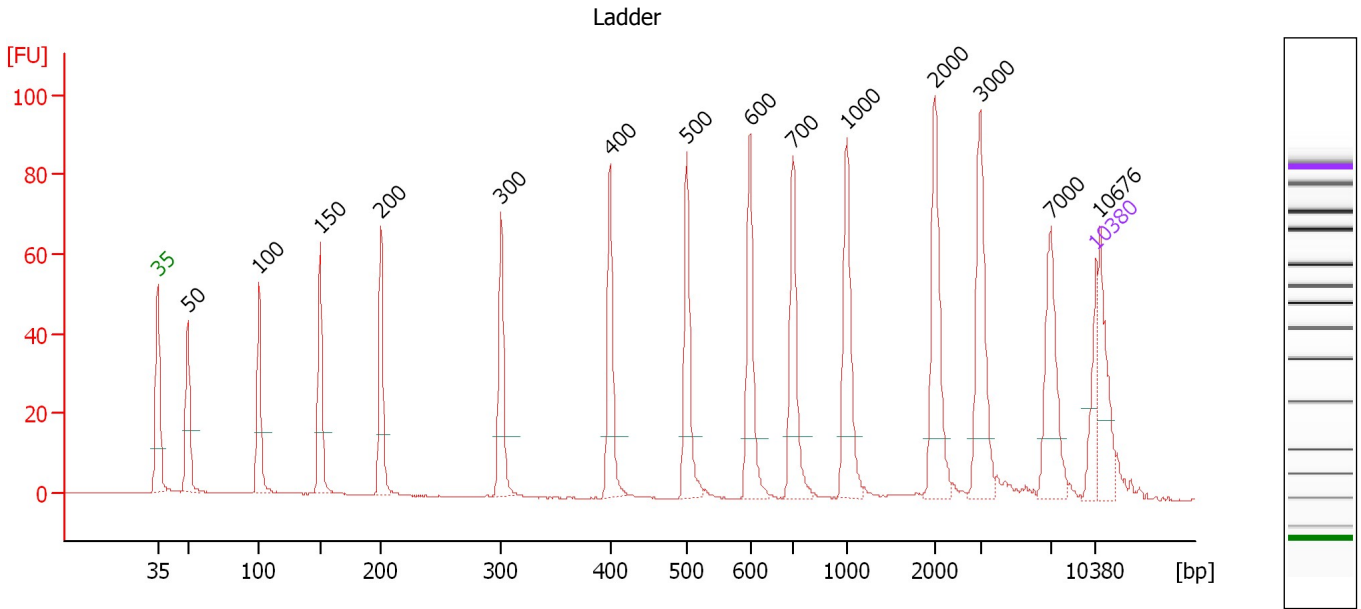
Ladder

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\2012-05-18\2012-05-18_002.xad

Created: 5/18/2012 4:34:36 PM
 Modified: 5/18/2012 5:20:30 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

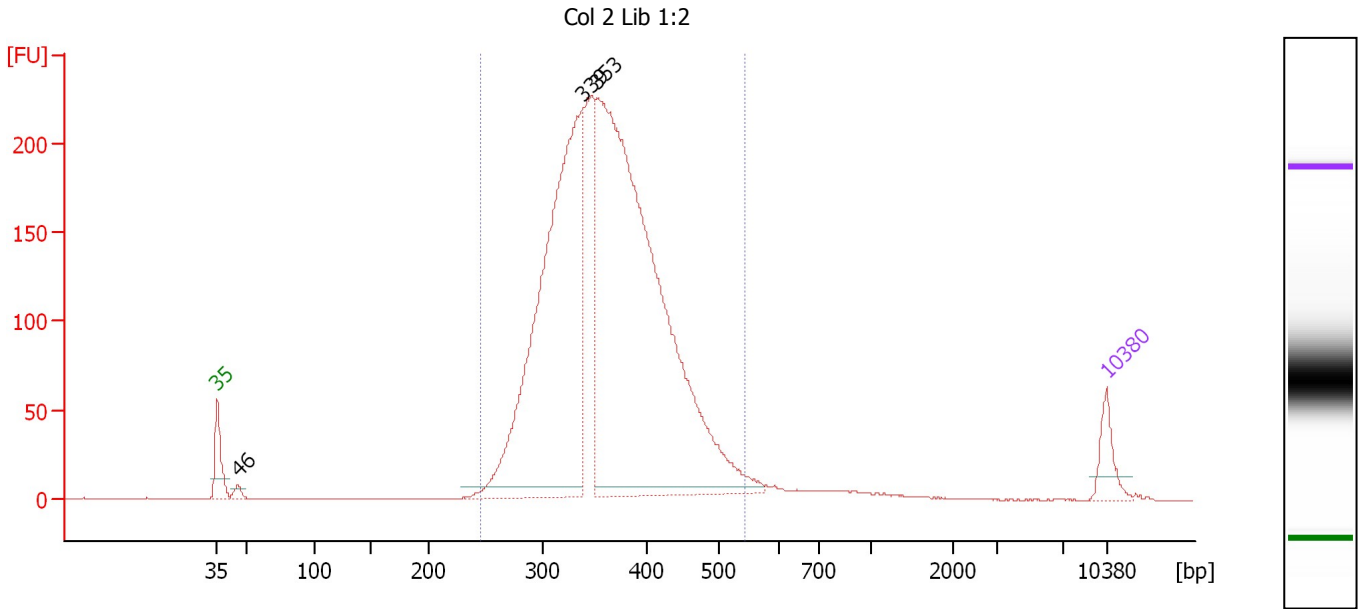
Peak table for Ladder

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	10,676	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-18\2012-05-18_002.xad

Created: 5/18/2012 4:34:36 PM
 Modified: 5/18/2012 5:20:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Col 2 Lib 1:2

Number of peaks found: 3 Corr. Area 1: 3,364.9
 Noise: 0.2

Peak table for sample 1 : Col 2 Lib 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	46	26.11	865.4	
3	339	2,098.96	9,385.9	
4	353	3,124.00	13,397.6	
5	10,380	75.00	10.9	Upper Marker

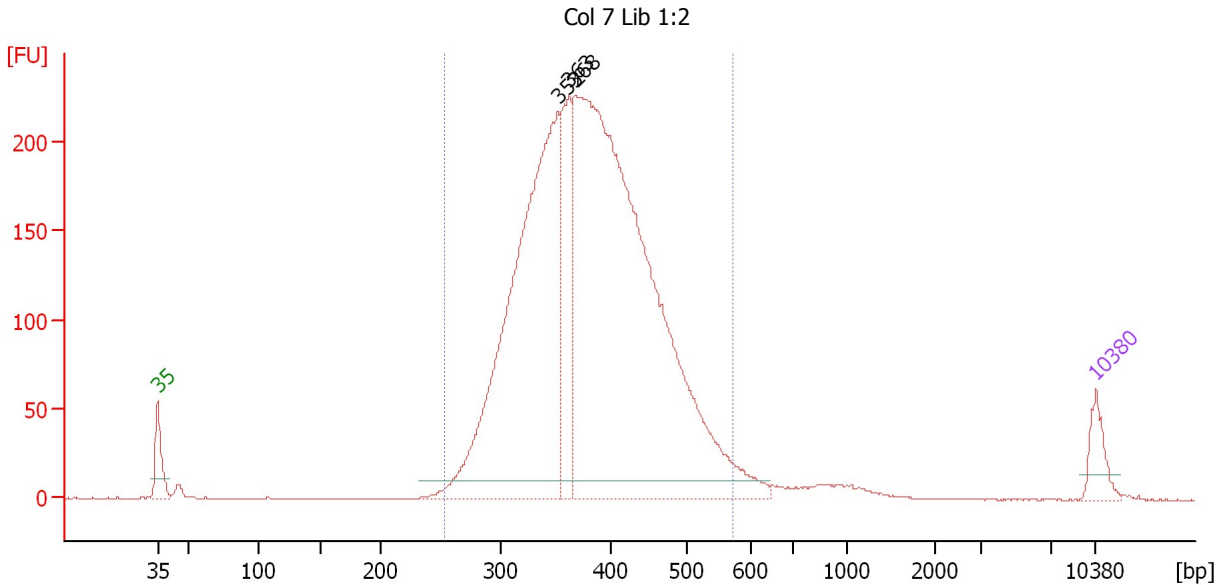
Region table for sample 1 : Col 2 Lib 1:2

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
246	24,491.7	364	5,728.11	545	3,364.9	97	14.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-18\2012-05-18_002.xad

Created: 5/18/2012 4:34:36 PM
 Modified: 5/18/2012 5:20:30 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 2 : Col 7 Lib 1:2

Height Threshold [FU] : 10

Overall Results for sample 2 : Col 7 Lib 1:2

Number of peaks found: 3 Corr. Area 1: 3,635.8
 Noise: 0.2

Peak table for sample 2 : Col 7 Lib 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	352	2,080.40	8,943.6	
3	363	486.68	2,034.1	
4	368	3,522.24	14,509.0	
5	10,380	75.00	10.9	Upper Marker

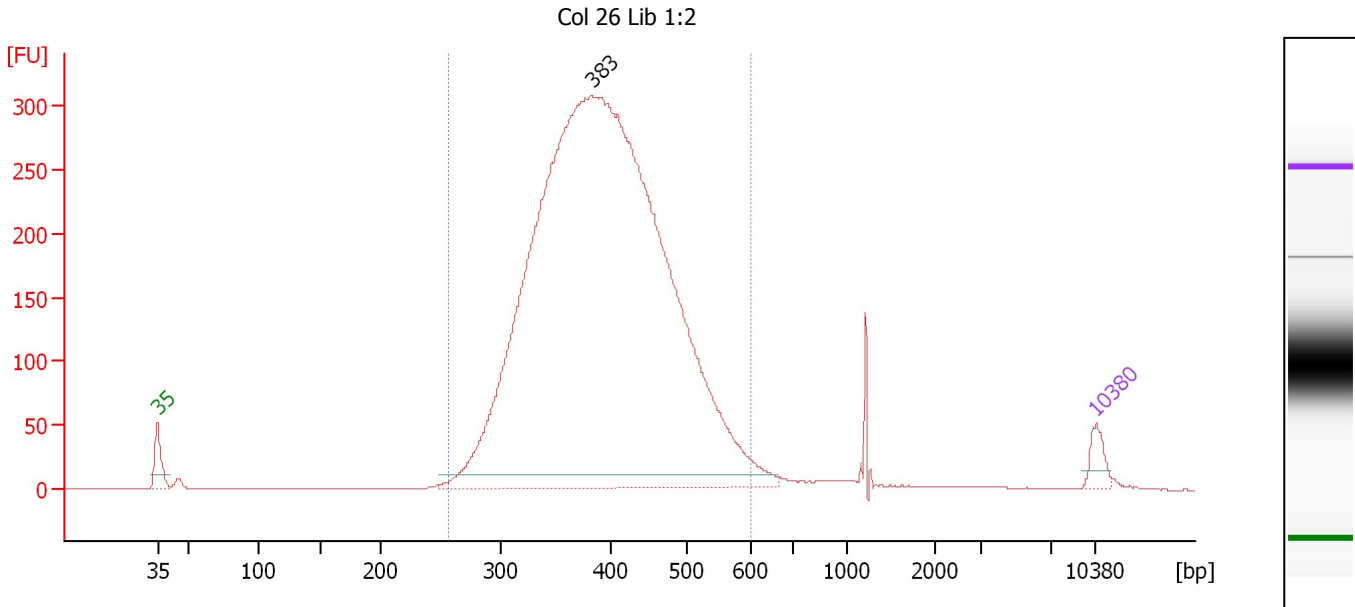
Region table for sample 2 : Col 7 Lib 1:2

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
254	23,915.1	386	5,890.47	574	3,635.8	96	16.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-18\2012-05-18_002.xad

Created: 5/18/2012 4:34:36 PM
 Modified: 5/18/2012 5:20:30 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 3 : Col 26 Lib 1:2

Height Threshold [FU] : 10

Overall Results for sample 3 : Col 26 Lib 1:2

Number of peaks found: 1 Corr. Area 1: 5,026.8
 Noise: 0.2

Peak table for sample 3 : Col 26 Lib 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	383	9,876.58	39,023.2	
3	10,380	75.00	10.9	Upper Marker

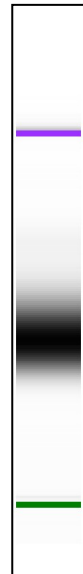
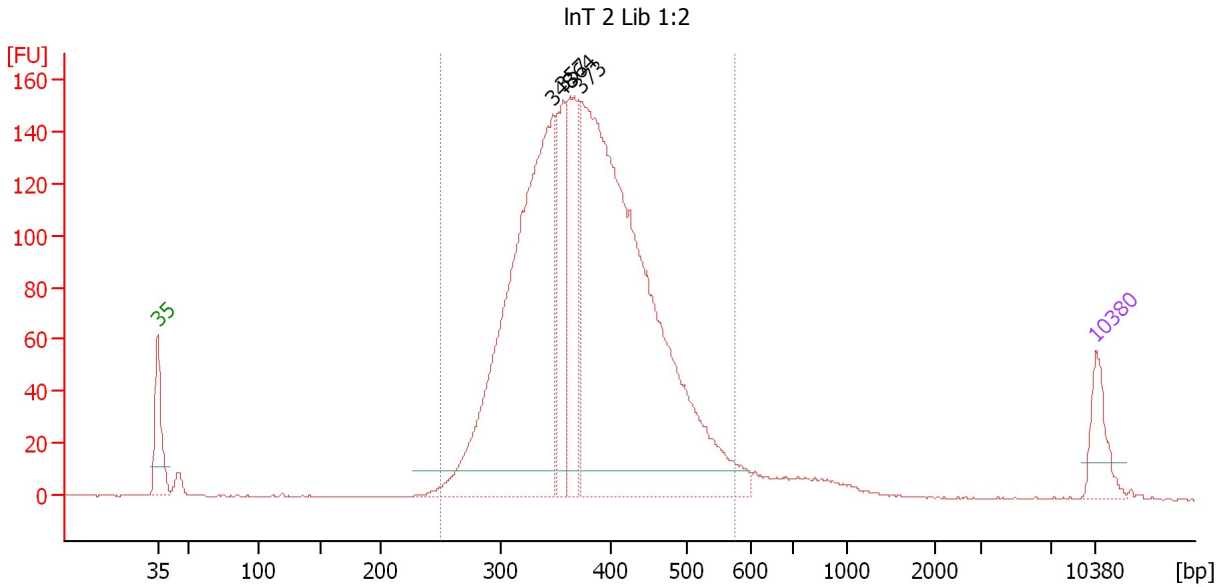
Region table for sample 3 : Col 26 Lib 1:2

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
256	38,879.6	401	9,925.70	603	5,026.8	96	16.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-18\2012-05-18_002.xad

Created: 5/18/2012 4:34:36 PM
 Modified: 5/18/2012 5:20:30 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 4 : InT 2 Lib 1:2

Height Threshold [FU] : 10

Overall Results for sample 4 : InT 2 Lib 1:2

Number of peaks found: 4 Corr. Area 1: 2,416.4
 Noise: 0.2

Peak table for sample 4 : InT 2 Lib 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	348	1,416.88	6,173.6	
3	357	277.59	1,177.0	
4	364	312.48	1,302.3	
5	373	2,052.76	8,334.7	
6	10,380	75.00	10.9	Upper Marker

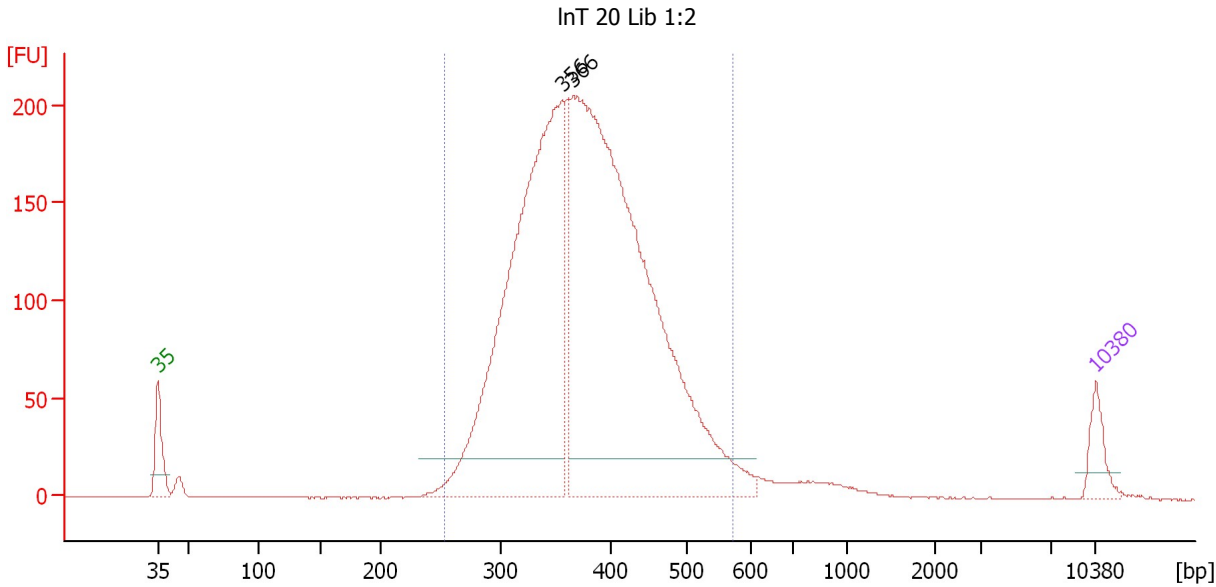
Region table for sample 4 : InT 2 Lib 1:2

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
250	16,567.6	382	4,040.28	575	2,416.4	95	16.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-18\2012-05-18_002.xad

Created: 5/18/2012 4:34:36 PM
 Modified: 5/18/2012 5:20:30 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 5 : InT 20 Lib 1:2

Height Threshold [FU] : 20

Overall Results for sample 5 : InT 20 Lib 1:2

Number of peaks found: 2 Corr. Area 1: 3,279.2
 Noise: 0.1

Peak table for sample 5 : InT 20 Lib 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	356	2,318.36	9,868.8	
3	366	3,290.66	13,609.4	
4	10,380	75.00	10.9	Upper Marker

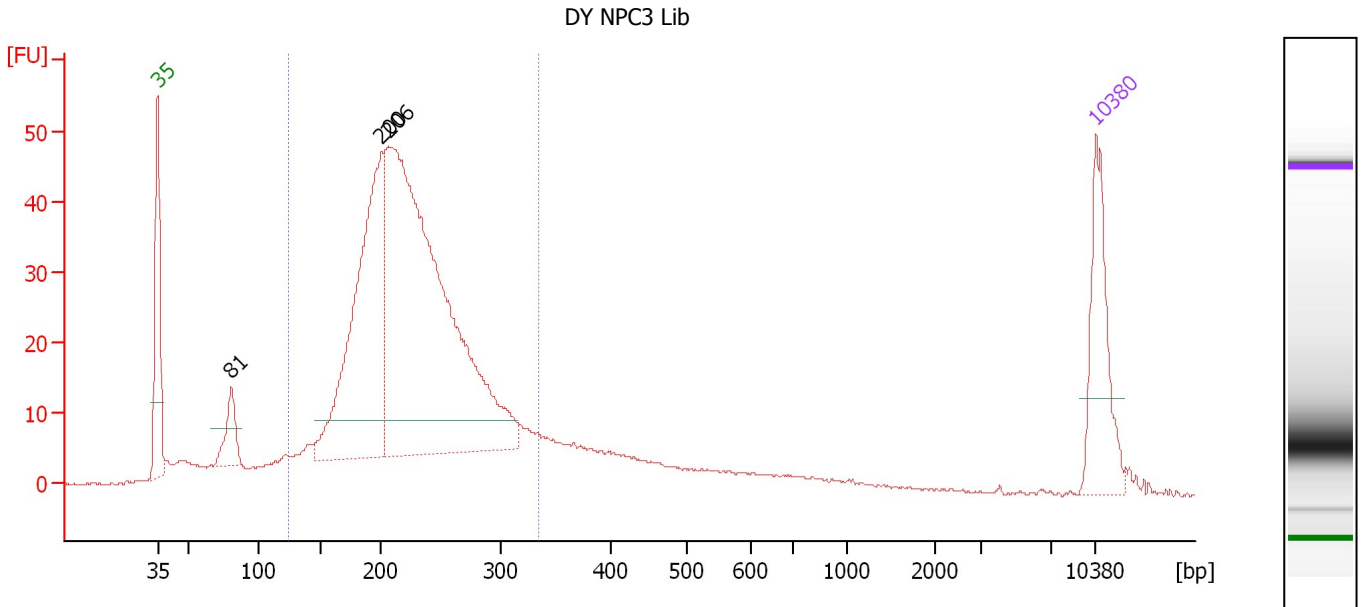
Region table for sample 5 : InT 20 Lib 1:2

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
253	23,161.3	382	5,642.18	573	3,279.2	96	16.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-18\2012-05-18_002.xad

Created: 5/18/2012 4:34:36 PM
 Modified: 5/18/2012 5:20:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : DY NPC3 Lib

Number of peaks found: 3 Corr. Area 1: 698.1
 Noise: 0.2

Peak table for sample 6 : DY NPC3 Lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	81	47.00	883.2	
3	200	376.56	2,853.6	
4	206	773.64	5,679.7	
5	10,380	75.00	10.9	Upper Marker

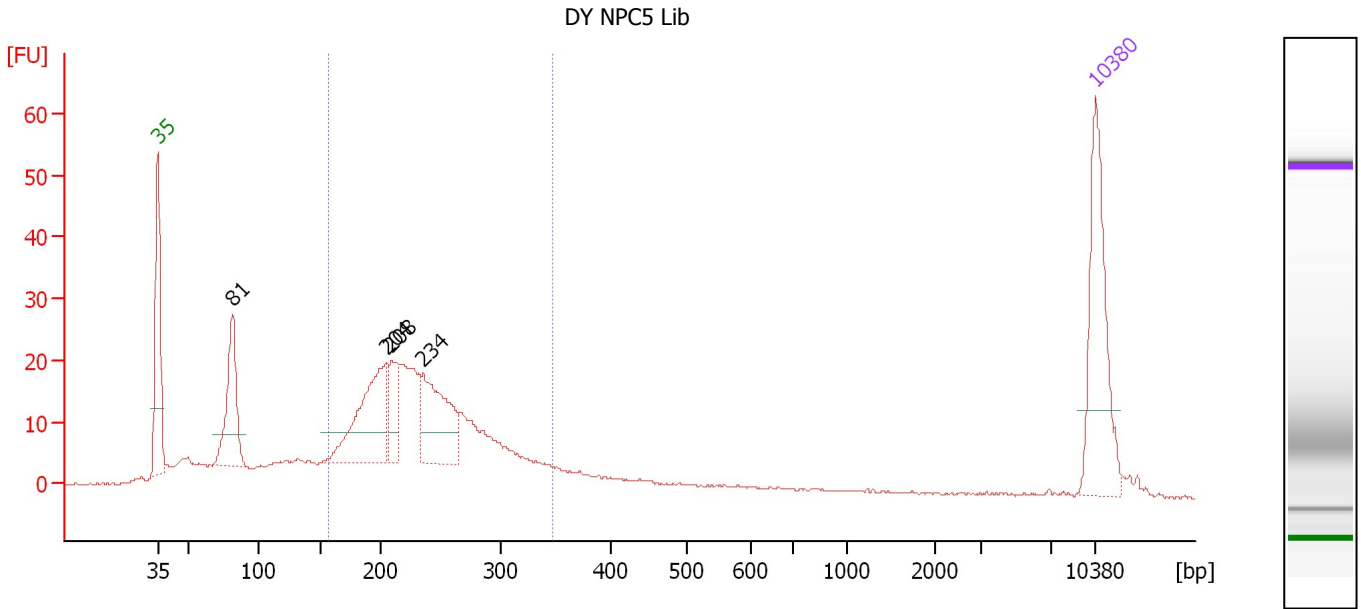
Region table for sample 6 : DY NPC3 Lib

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
125	10,001.6	225	1,420.64	335	698.1	77	19.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-18\2012-05-18_002.xad

Created: 5/18/2012 4:34:36 PM
 Modified: 5/18/2012 5:20:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : DY NPC5 Lib

Number of peaks found: 4 Corr. Area 1: 325.4
 Noise: 0.2

Peak table for sample 7 : DY NPC5 Lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	81	86.10	1,607.2	
3	204	108.20	803.5	
4	208	33.82	245.9	
5	234	83.42	539.2	
6	10,380	75.00	10.9	Upper Marker

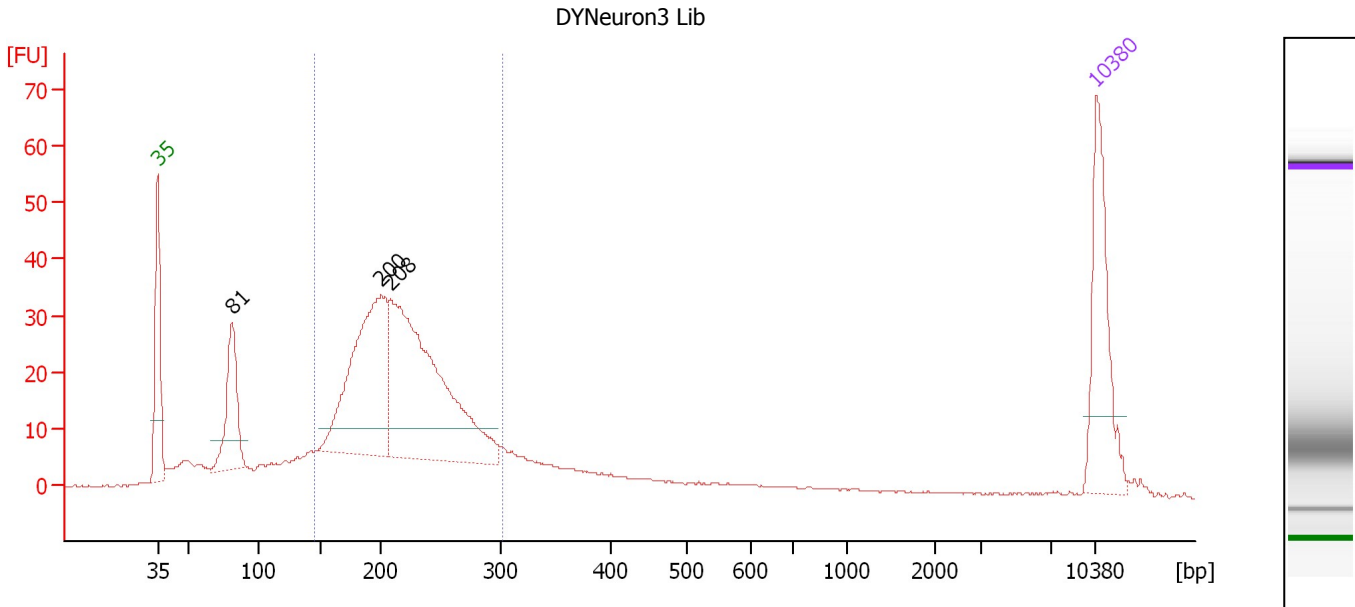
Region table for sample 7 : DY NPC5 Lib

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
156	3,564.5	236	533.73	348	325.4	63	18.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-18\2012-05-18_002.xad

Created: 5/18/2012 4:34:36 PM
 Modified: 5/18/2012 5:20:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : DYNeuron3 Lib

Number of peaks found: 3 Corr. Area 1: 475.4
 Noise: 0.2

Peak table for sample 8 : DYNeuron3 Lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	81	95.64	1,788.1	
3	200	230.43	1,747.5	
4	208	319.05	2,324.4	
5	10,380	75.00	10.9	Upper Marker

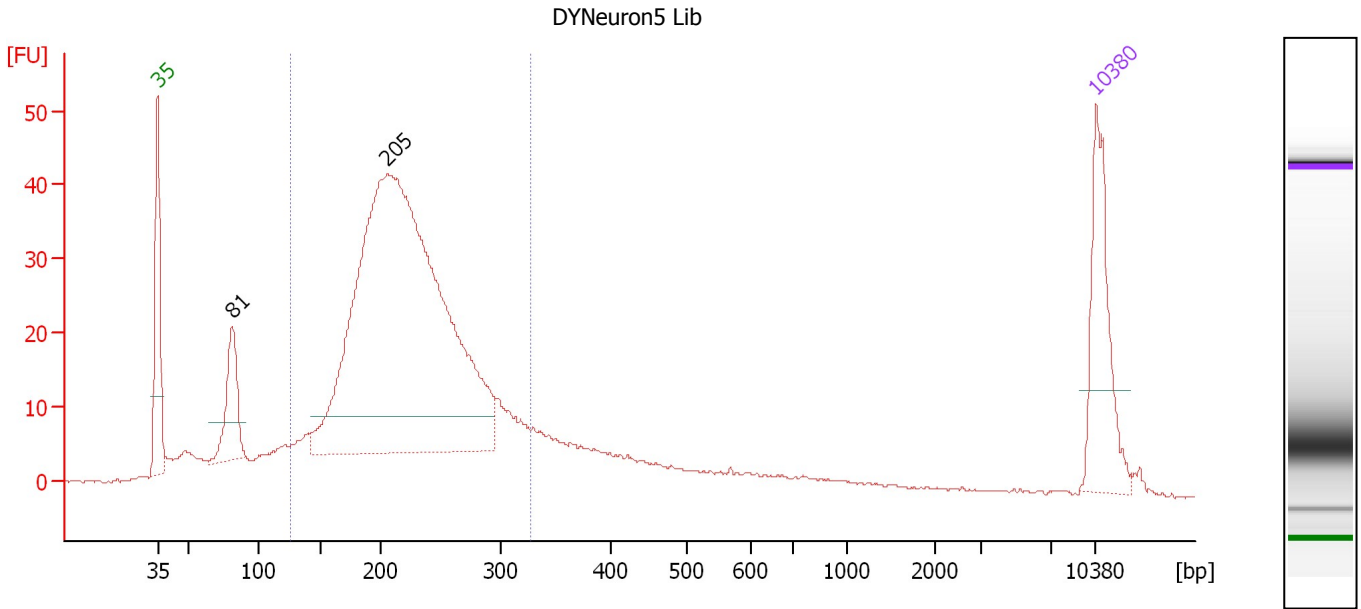
Region table for sample 8 : DYNeuron3 Lib

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
145	5,396.9	218	752.63	303	475.4	66	16.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-18\2012-05-18_002.xad

Created: 5/18/2012 4:34:36 PM
 Modified: 5/18/2012 5:20:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : DYNeuron5 Lib

Number of peaks found: 2 Corr. Area 1: 628.1
 Noise: 0.2

Peak table for sample 9 : DYNeuron5 Lib

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	81	82.60	1,541.6	
3	205	922.35	6,809.3	
4	10,380	75.00	10.9	Upper Marker

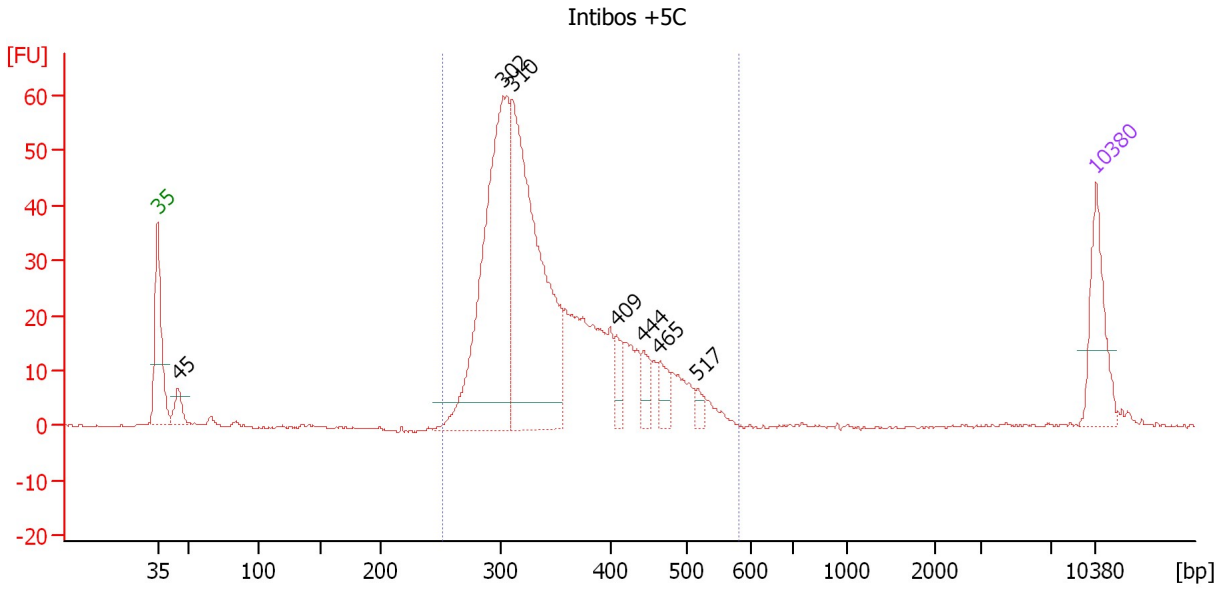
Region table for sample 9 : DYNeuron5 Lib

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
126	8,494.0	223	1,191.38	327	628.1	74	19.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-18\2012-05-18_002.xad

Created: 5/18/2012 4:34:36 PM
 Modified: 5/18/2012 5:20:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Intibos +5C

Number of peaks found: 7 Corr. Area 1: 599.5
 Noise: 0.2

Peak table for sample 10 : Intibos +5C

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	45	35.24	1,179.4	
3	302	527.35	2,647.9	
4	310	551.48	2,693.2	
5	409	31.57	117.0	
6	444	30.93	105.6	
7	465	28.47	92.8	
8	517	14.42	42.3	
9	10,380	75.00	10.9	Upper Marker

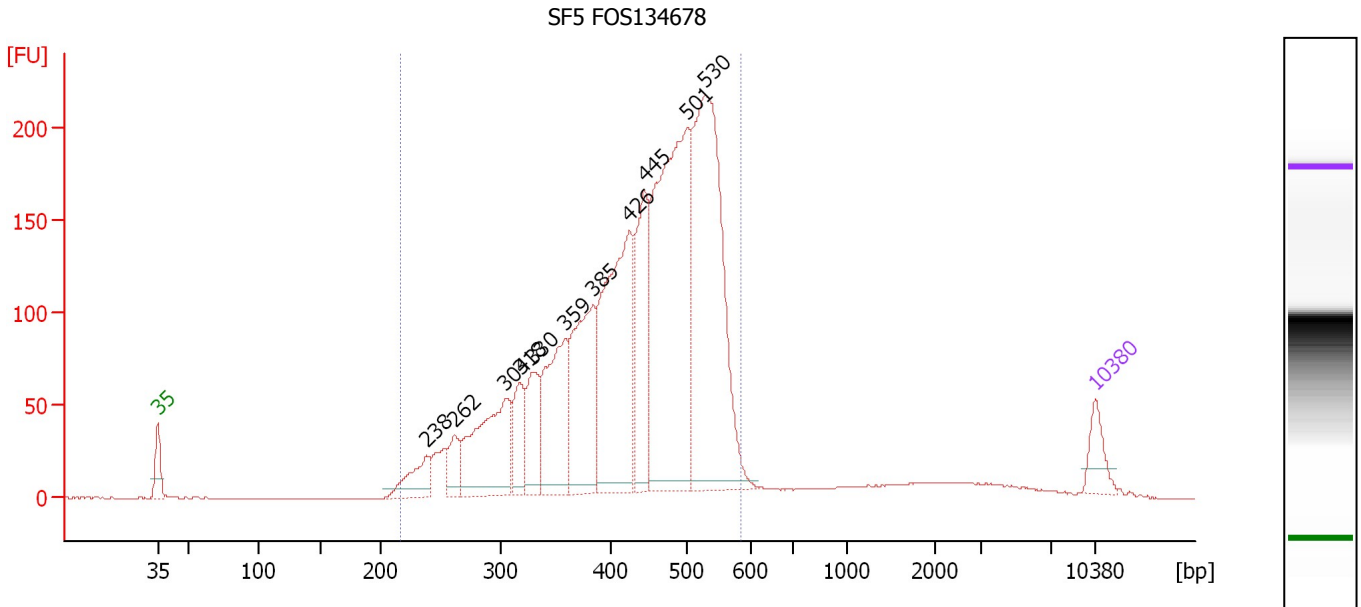
Region table for sample 10 : Intibos +5C

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
251	6,751.4	351	1,504.83	582	599.5	92	18.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-18\2012-05-18_002.xad

Created: 5/18/2012 4:34:36 PM
 Modified: 5/18/2012 5:20:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : SF5 FOS134678

Number of peaks found: 11 Corr. Area 1: 3,127.1
 Noise: 0.2

Peak table for sample 11 : SF5 FOS134678

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	238	153.07	973.9	
3	262	110.94	642.7	
4	304	482.33	2,402.1	
5	318	174.84	833.9	
6	330	207.75	954.1	
7	359	423.40	1,785.6	
8	385	524.86	2,065.8	
9	426	832.11	2,962.8	
10	445	427.43	1,456.6	
11	501	1,296.67	3,919.4	
12	530	1,228.31	3,513.3	
13	10,380	75.00	10.9	Upper Marker

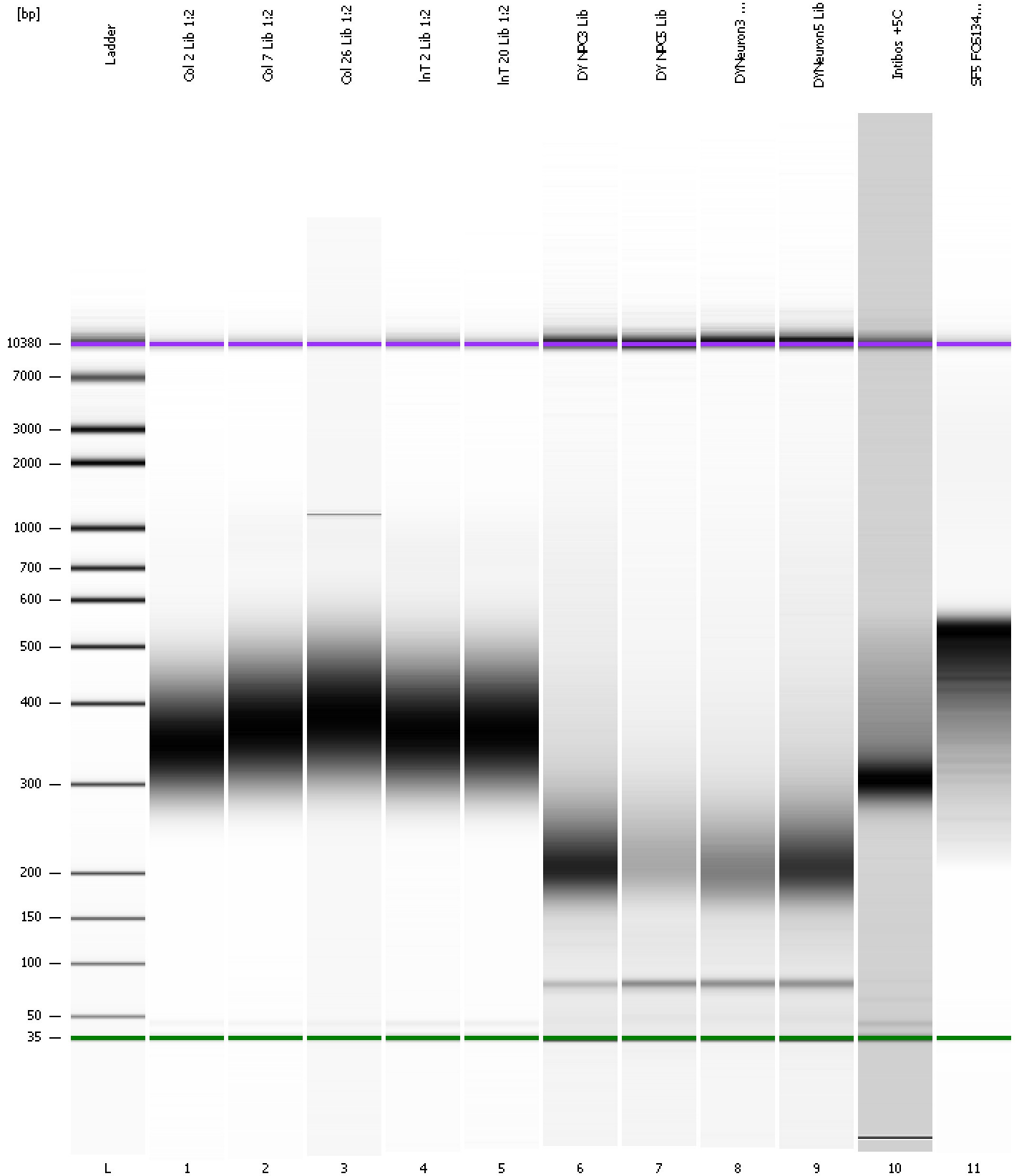
Region table for sample 11 : SF5 FOS134678

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
216	23,531.8	432	6,237.90	587	3,127.1	94	20.1	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-18\2012-05-18_002.xad

Created: 5/18/2012 4:34:36 PM
Modified: 5/18/2012 5:20:30 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-05-18\2012-05-18_002.xad

Created: 5/18/2012 4:34:36 PM
 Modified: 5/18/2012 5:20:30 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		5/18/2012 5:15:55 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-05-18\2012-05-18_002.xad)		Instrument	Run		5/18/2012 4:34:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		5/18/2012 4:34:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/18/2012 4:34:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/18/2012 4:34:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		5/18/2012 4:34:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/18/2012 4:34:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/18/2012 4:34:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1