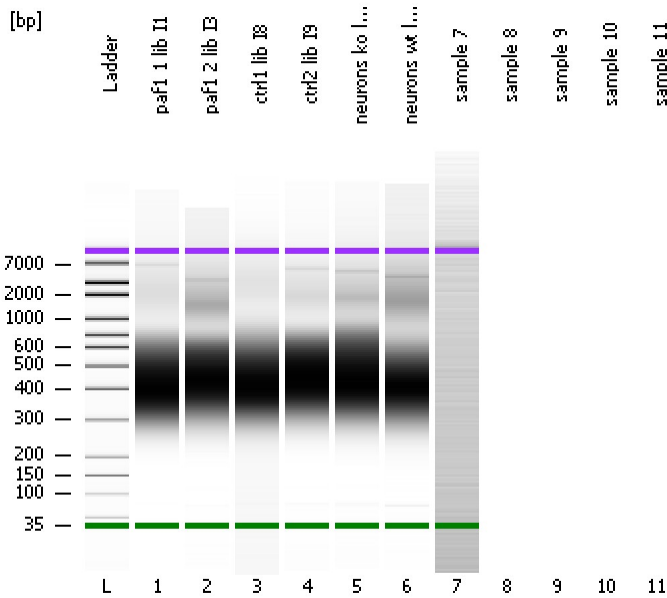


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-28\2016-01-28_001.xad

Created: 1/28/2016 1:58:01 PM
Modified: 1/28/2016 2:27:55 PM

Electrophoresis File Run Summary



Instrument Information:

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

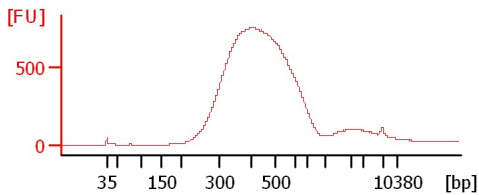
Assay Information:

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

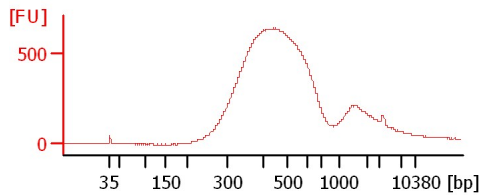
Chip Information:

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

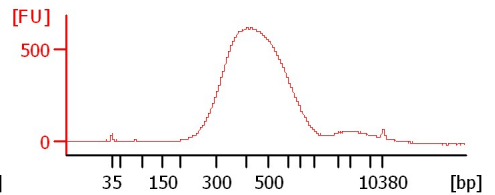
paf1 1 lib I1



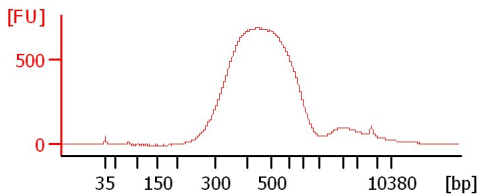
paf1 2 lib I3



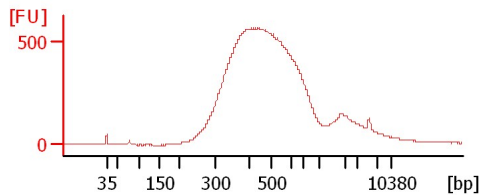
ctrl1 lib I8



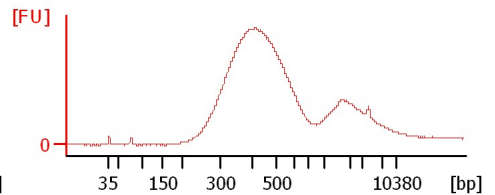
ctrl2 lib I9



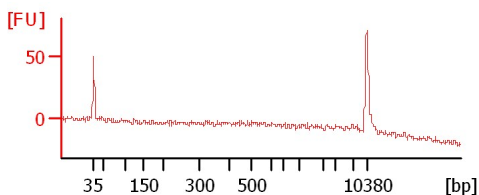
neurons ko lib I10



neurons wt lib I11



sample 7



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-28\2016-01-28_001.xad

Created: 1/28/2016 1:58:01 PM
Modified: 1/28/2016 2:27:55 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
paf1 1 lib I1		<input type="checkbox"/>	✓			
paf1 2 lib I3		<input type="checkbox"/>	✓			
ctrl1 lib I8		<input type="checkbox"/>	✓			
ctrl2 lib I9		<input type="checkbox"/>	✓			
neurons ko lib I10		<input type="checkbox"/>	✓			
neurons wt lib I11		<input type="checkbox"/>	✓			
sample 7		<input type="checkbox"/>	✓			
sample 8		<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\2016-01-28\2016-01-28_001.xad

Created: 1/28/2016 1:58:01 PM
Modified: 1/28/2016 2:27:55 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/ μ l] : 1950
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [pg/ μ l] : 125
Upper Marker Concentration [pg/ μ 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

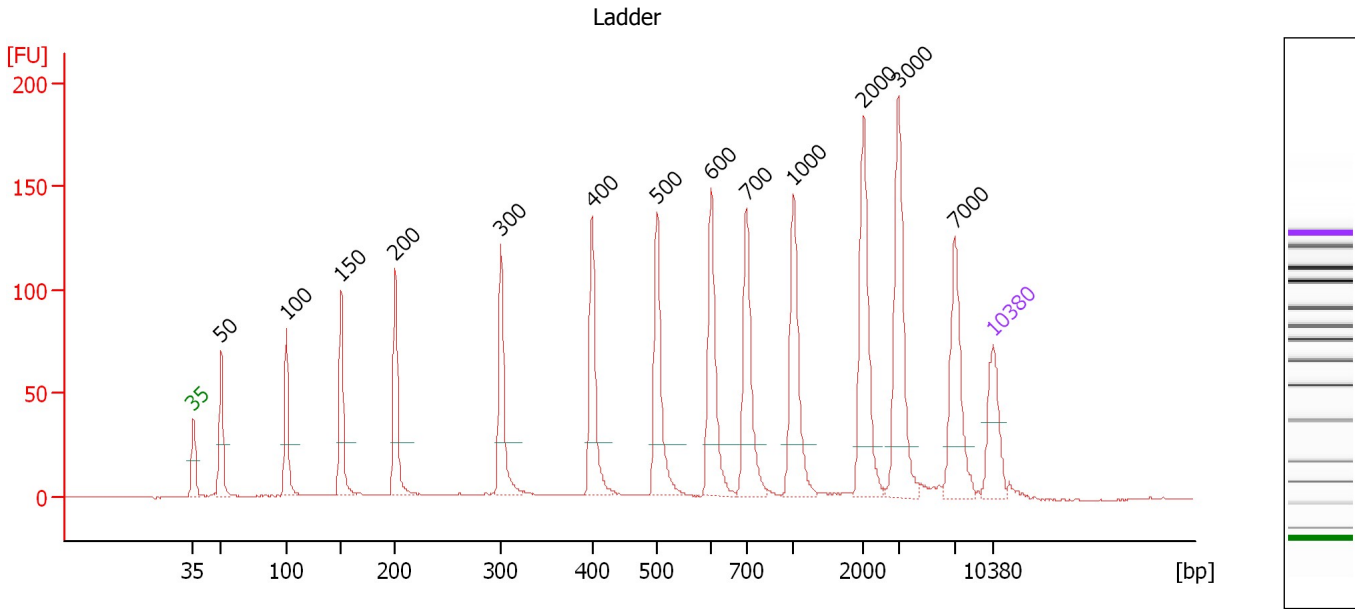
Ladder

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\2016-01-28\2016-01-28_001.xad

Created: 1/28/2016 1:58:01 PM
 Modified: 1/28/2016 2:27:55 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

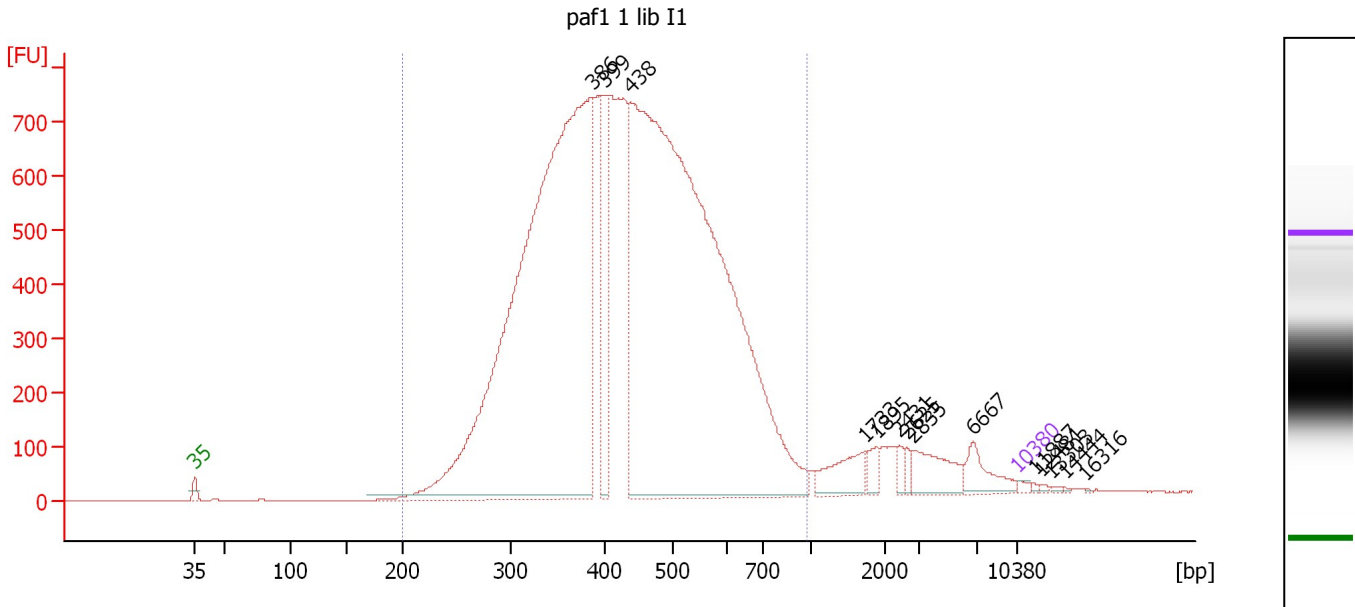
Peak table for Ladder

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	45.43
3	100	150.00	2,272.7	Ladder Peak	51.13
4	150	150.00	1,515.2	Ladder Peak	55.94
5	200	150.00	1,136.4	Ladder Peak	60.70
6	300	150.00	757.6	Ladder Peak	69.94
7	400	150.00	568.2	Ladder Peak	77.93
8	500	150.00	454.5	Ladder Peak	83.63
9	600	150.00	378.8	Ladder Peak	88.34
10	700	150.00	324.7	Ladder Peak	91.43
11	1,000	150.00	227.3	Ladder Peak	95.54
12	2,000	150.00	113.6	Ladder Peak	101.70
13	3,000	150.00	75.8	Ladder Peak	104.73
14	7,000	150.00	32.5	Ladder Peak	109.64
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-28\2016-01-28_001.xad

Created: 1/28/2016 1:58:01 PM
 Modified: 1/28/2016 2:27:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : paf1 1 lib I1

Number of peaks found: 14 Corr. Area 1: 18,167.3
 Noise: 0.2

Peak table for sample 1 : paf1 1 lib I1

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	386	31,517.82	123,596.7		76.84
3	399	2,953.63	11,203.2		77.89
4	438	36,696.92	126,855.2		80.11
5	1,733	905.95	792.0		100.05
6	1,895	321.72	257.2		101.05
7	2,431	196.40	122.4		103.01
8	2,625	173.82	100.3		103.60
9	2,835	941.71	503.3		104.23
10	6,667	689.35	156.7		109.23
11	10,380	75.00	10.9	Upper Marker	113.00
12	11,887	0.00	0.0		114.50
13	12,481	0.00	0.0		115.09
14	13,303	0.00	0.0		115.91
15	14,444	0.00	0.0		117.04
16	16,316	0.00	0.0		118.91

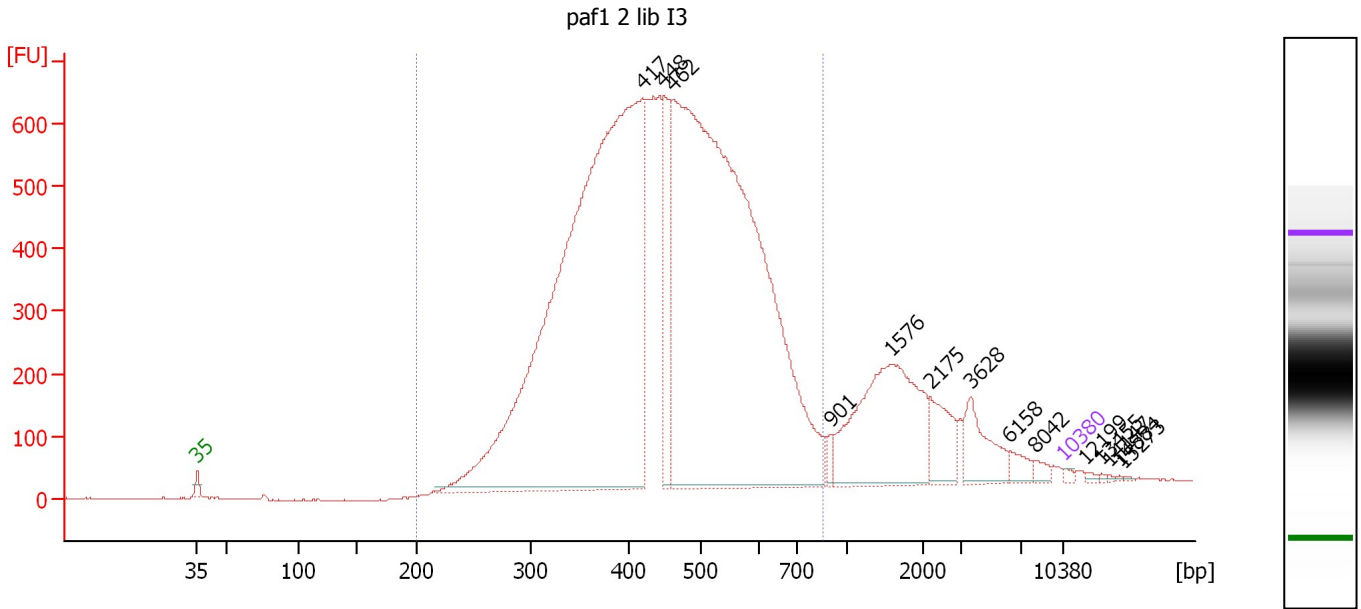
Region table for sample 1 : paf1 1 lib I1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
199	975	443	18,167.2	304,587.5	81,195.67	94	26.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-28\2016-01-28_001.xad

Created: 1/28/2016 1:58:01 PM
 Modified: 1/28/2016 2:27:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : paf1 2 lib I3

Number of peaks found: 14 Corr. Area 1: 14,821.0
 Noise: 1.2

Peak table for sample 2 : paf1 2 lib I3

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	417	39,890.98	144,773.3		78.93
3	448	3,673.20	12,409.4		80.69
4	462	39,033.63	127,985.7		81.47
5	901	288.45	485.2		94.18
6	1,576	5,780.87	5,557.3		99.09
7	2,175	1,304.75	908.9		102.23
8	3,628	1,409.75	588.7		105.50
9	6,158	372.55	91.7		108.61
10	8,042	205.71	38.8		110.67
11	10,380	75.00	10.9	Upper Marker	113.00
12	12,199	0.00	0.0		114.81
13	13,455	0.00	0.0		116.06
14	14,147	0.00	0.0		116.75
15	14,884	0.00	0.0		117.48
16	15,273	0.00	0.0		117.87

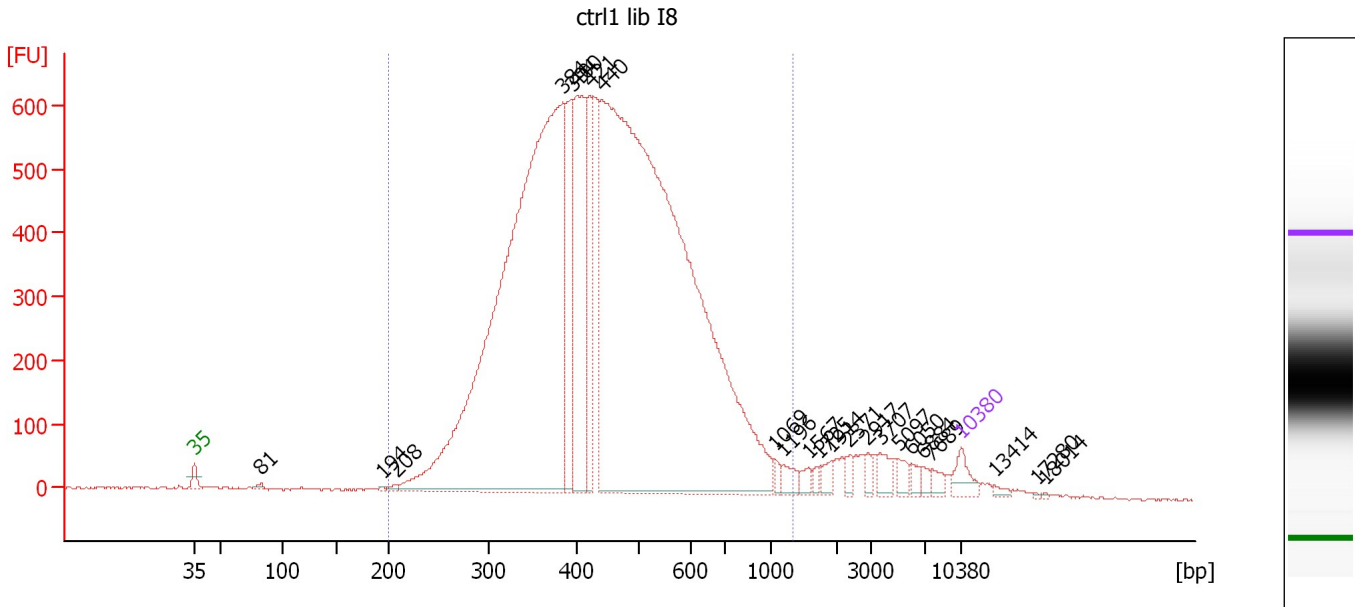
Region table for sample 2 : paf1 2 lib I3

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	856	455	14,821.0	330,410.4	91,415.22	87	24.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-28\2016-01-28_001.xad

Created: 1/28/2016 1:58:01 PM
 Modified: 1/28/2016 2:27:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : ctrl1 lib I8

Number of peaks found: 23 Corr. Area 1: 14,813.5
 Noise: 1.8

Peak table for sample 3 : ctrl1 lib I8

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	81	18.75	349.8		48.99
3	194	7.49	58.5		60.13
4	208	18.60	135.4		61.45
5	384	5,335.34	21,062.2		76.64
6	394	545.44	2,096.6		77.46
7	400	931.83	3,526.4		77.95
8	421	497.24	1,790.0		79.12
9	440	7,092.21	24,440.0		80.19
10	1,069	28.27	40.1		95.96
11	1,196	57.45	72.8		96.74
12	1,567	34.05	32.9		99.03
13	1,725	23.09	20.3		100.00
14	1,914	43.72	34.6		101.17
15	2,371	35.10	22.4		102.83
16	2,917	29.58	15.4		104.48
17	3,707	63.22	25.8		105.60
18	5,097	43.62	13.0		107.30
19	6,050	31.74	8.0		108.47
20	6,884	27.62	6.1		109.50
21	7,689	36.94	7.3		110.32
22	10,380	75.00	10.9	Upper Marker	113.00
23	13,414	0.00	0.0		116.02
24	17,280	0.00	0.0		119.86
25	18,014	0.00	0.0		120.59

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-28\2016-01-28_001.xad

Created: 1/28/2016 1:58:01 PM
Modified: 1/28/2016 2:27:55 PM

Electropherogram Summary Continued ...

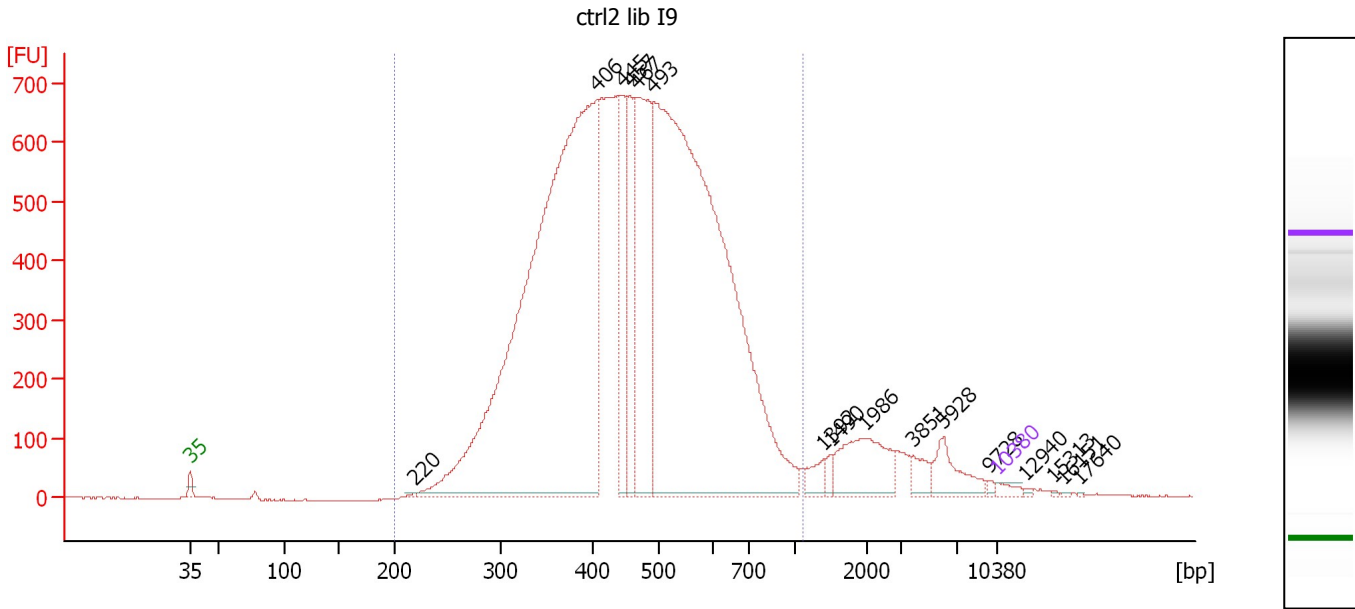
... Region table for sample 3 : ctrl1 lib I8

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,331	461	14,813.4	55,121.3	15,020.50	94	31.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-28\2016-01-28_001.xad

Created: 1/28/2016 1:58:01 PM
 Modified: 1/28/2016 2:27:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : ctrl2 lib I9

Number of peaks found: 16 Corr. Area 1: 16,252.9
 Noise: 1.2

Peak table for sample 4 : ctrl2 lib I9

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	220	16.63	114.6		62.54
3	406	15,682.84	58,511.6		78.28
4	445	1,430.75	4,870.2		80.50
5	457	1,313.87	4,353.2		81.19
6	467	3,285.86	10,659.6		81.75
7	493	15,302.71	47,024.9		83.23
8	1,392	192.45	209.4		97.95
9	1,490	90.26	91.8		98.56
10	1,986	894.79	682.7		101.61
11	3,851	186.14	73.2		105.78
12	5,928	448.40	114.6		108.32
13	9,728	31.18	4.9		112.35
14	10,380	75.00	10.9	Upper Marker	113.00
15	12,940	0.00	0.0		115.55
16	15,313	0.00	0.0		117.91
17	16,151	0.00	0.0		118.74
18	17,640	0.00	0.0		120.22

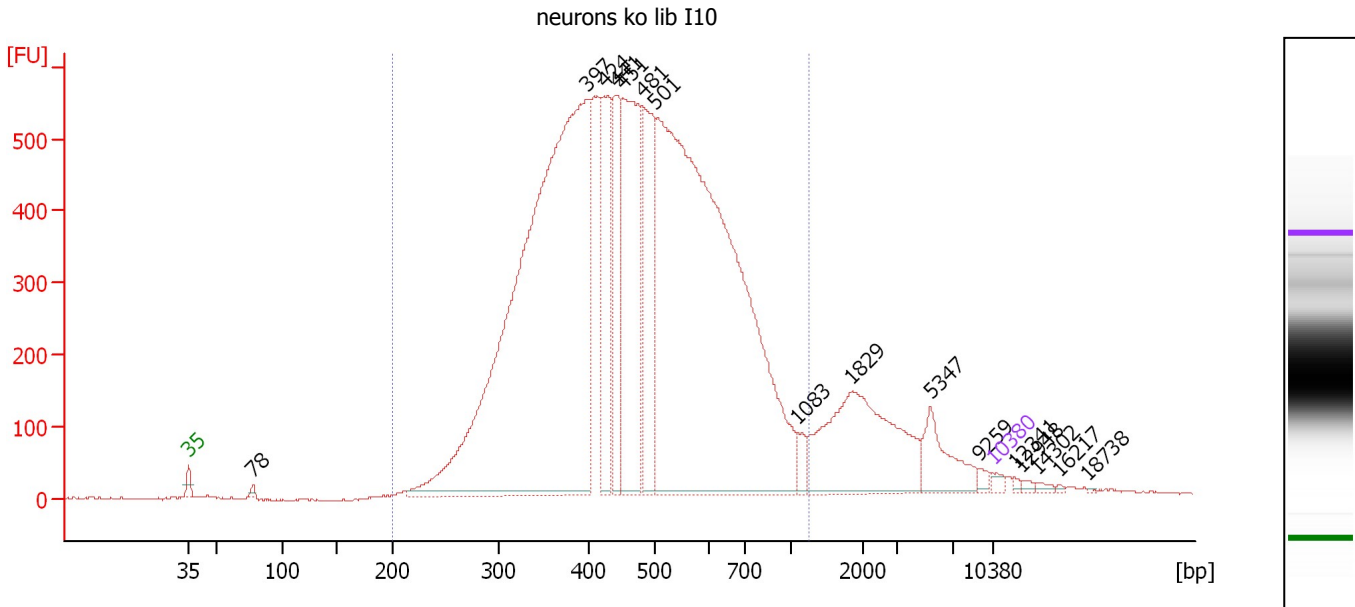
Region table for sample 4 : ctrl2 lib I9

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,100	471	16,252.9	147,191.8	41,659.83	93	26.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-28\2016-01-28_001.xad

Created: 1/28/2016 1:58:01 PM
 Modified: 1/28/2016 2:27:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : neurons ko lib I10

Number of peaks found: 16 Corr. Area 1: 14,428.8
 Noise: 1.3

Peak table for sample 5 : neurons ko lib I10

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	78	73.10	1,419.7		48.62
3	397	17,290.08	66,068.4		77.65
4	424	2,220.30	7,940.7		79.28
5	441	1,861.76	6,399.8		80.25
6	451	4,076.37	13,708.2		80.81
7	481	2,555.06	8,053.1		82.53
8	501	16,928.92	51,163.0		83.69
9	1,083	226.41	316.8		96.05
10	1,829	2,640.22	2,187.3		100.64
11	5,347	733.12	207.7		107.61
12	9,259	76.14	12.5		111.89
13	10,380	75.00	10.9	Upper Marker	113.00
14	12,341	0.00	0.0		114.95
15	12,948	0.00	0.0		115.55
16	14,302	0.00	0.0		116.90
17	16,217	0.00	0.0		118.81
18	18,738	0.00	0.0		121.31

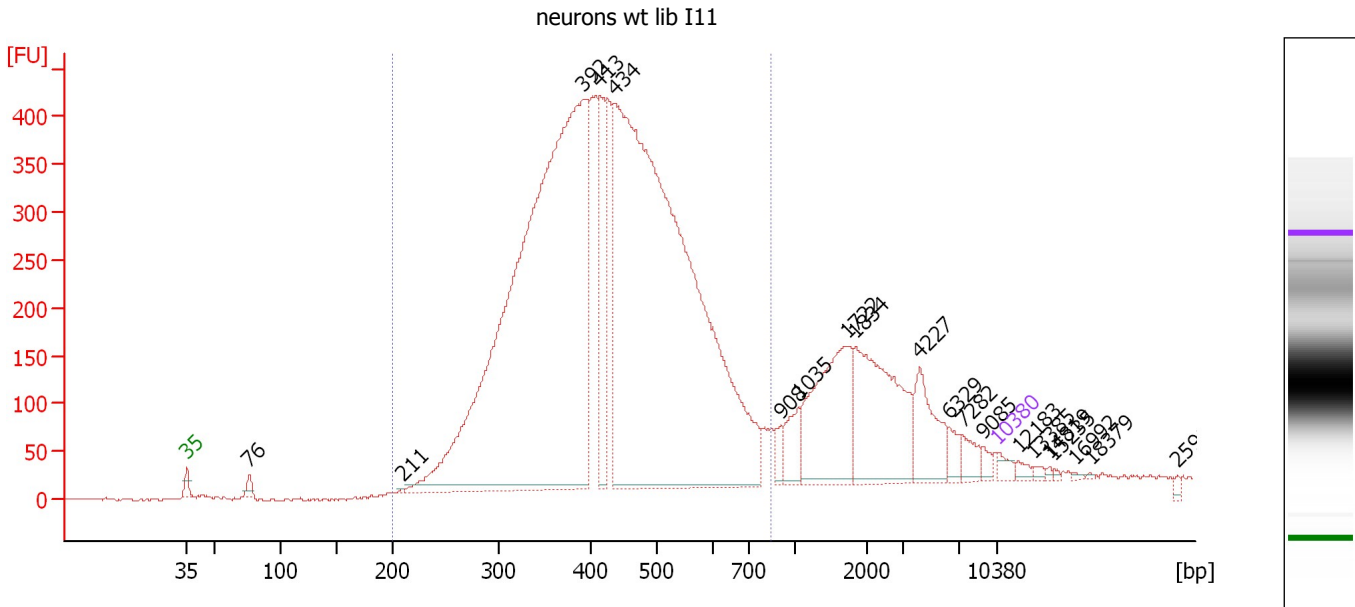
Region table for sample 5 : neurons ko lib I10

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,253	486	14,428.8	168,531.9	47,909.85	91	32.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-28\2016-01-28_001.xad

Created: 1/28/2016 1:58:01 PM
 Modified: 1/28/2016 2:27:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : neurons wt lib I11

Number of peaks found: 20 Corr. Area 1: 9,095.7
 Noise: 1.6

Peak table for sample 6 : neurons wt lib I11


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	76	108.36	2,151.2		48.43
3	211	17.63	126.9		61.67
4	392	13,072.24	50,570.2		77.26
5	413	1,143.66	4,200.5		78.64
6	434	12,926.17	45,092.8		79.89
7	908	112.98	188.4		94.28
8	1,035	320.51	469.0		95.75
9	1,722	1,399.24	1,231.3		99.98
10	1,834	1,550.19	1,280.9		100.67
11	4,227	580.44	208.0		106.24
12	6,329	131.95	31.6		108.81
13	7,282	175.81	36.6		109.92
14	9,085	72.54	12.1		111.71
15	10,380	75.00	10.9	Upper Marker	113.00
16	12,183	0.00	0.0		114.79
17	13,385	0.00	0.0		115.99
18	14,819	0.00	0.0		117.42
19	15,235	0.00	0.0		117.83
20	16,992	0.00	0.0		119.58
21	18,379	0.00	0.0		120.96
22	25,915	0.00	0.0		128.45

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-28\2016-01-28_001.xad

Created: 1/28/2016 1:58:01 PM
Modified: 1/28/2016 2:27:55 PM

Electropherogram Summary Continued ...

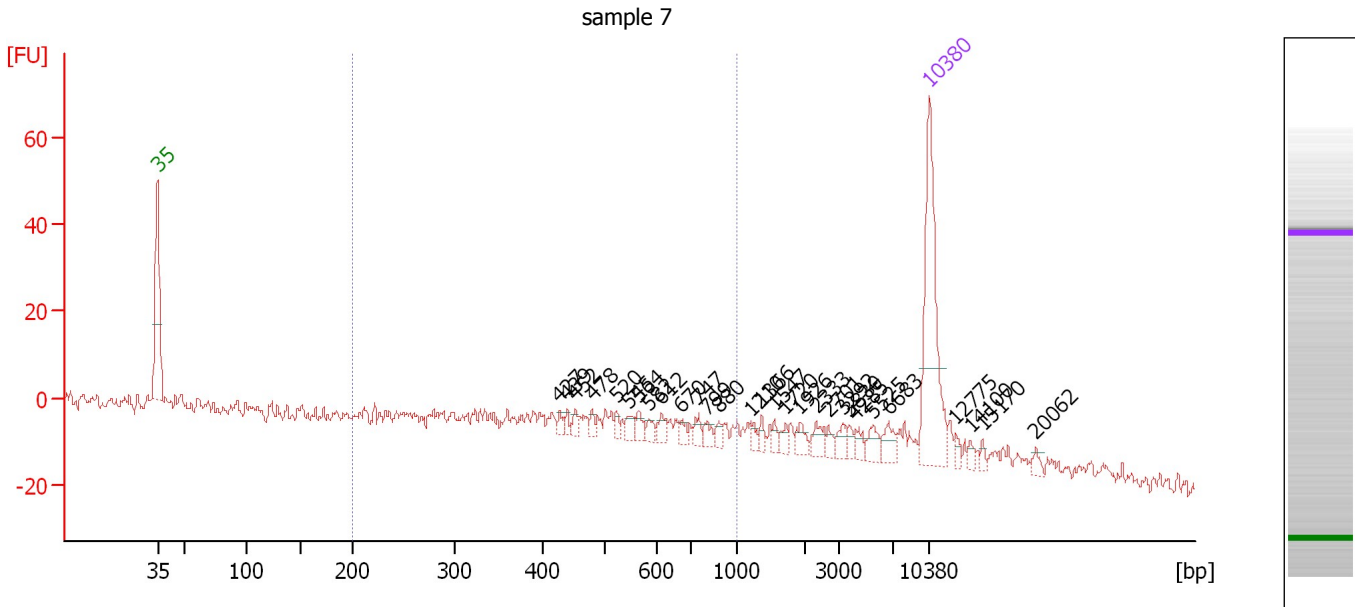
... Region table for sample 6 : neurons wt lib I11

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	846	434	9,095.7	115,613.5	 30,543.96	83	24.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-28\2016-01-28_001.xad

Created: 1/28/2016 1:58:01 PM
 Modified: 1/28/2016 2:27:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 7

Number of peaks found: 29 Corr. Area 1: 241.4
 Noise: 1.7

Peak table for sample 7 : sample 7

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	427	3.89	13.8		79.44
3	439	3.88	13.4		80.15
4	452	4.48	15.0		80.91
5	478	4.77	15.1		82.38
6	520	4.59	13.4		84.56
7	545	6.40	17.8		85.73
8	564	6.12	16.5		86.64
9	582	5.39	14.0		87.50
10	612	6.79	16.8		88.72
11	670	4.59	10.4		90.49
12	747	6.39	13.0		92.07
13	799	5.94	11.3		92.78
14	880	3.93	6.8		93.89
15	1,210	3.55	4.4		96.83
16	1,366	3.95	4.4		97.79
17	1,547	3.66	3.6		98.91
18	1,720	4.53	4.0		99.97
19	1,926	6.51	5.1		101.24
20	2,333	6.97	4.5		102.71
21	2,701	4.16	2.3		103.83
22	3,292	5.84	2.7		105.09
23	3,830	4.17	1.6		105.75
24	4,285	4.88	1.7		106.31
25	5,525	7.34	2.0		107.83

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-28\2016-01-28_001.xad

Created: 1/28/2016 1:58:01 PM
 Modified: 1/28/2016 2:27:55 PM

Electropherogram Summary Continued ...

... Peak table for sample 7 : sample 7

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	6,683	8.80	2.0		109.25
27	10,380	75.00	10.9	Upper Marker	113.00
28	12,775	0.00	0.0		115.38
29	14,100	0.00	0.0		116.70
30	15,170	0.00	0.0		117.76
31	20,062	0.00	0.0		122.63

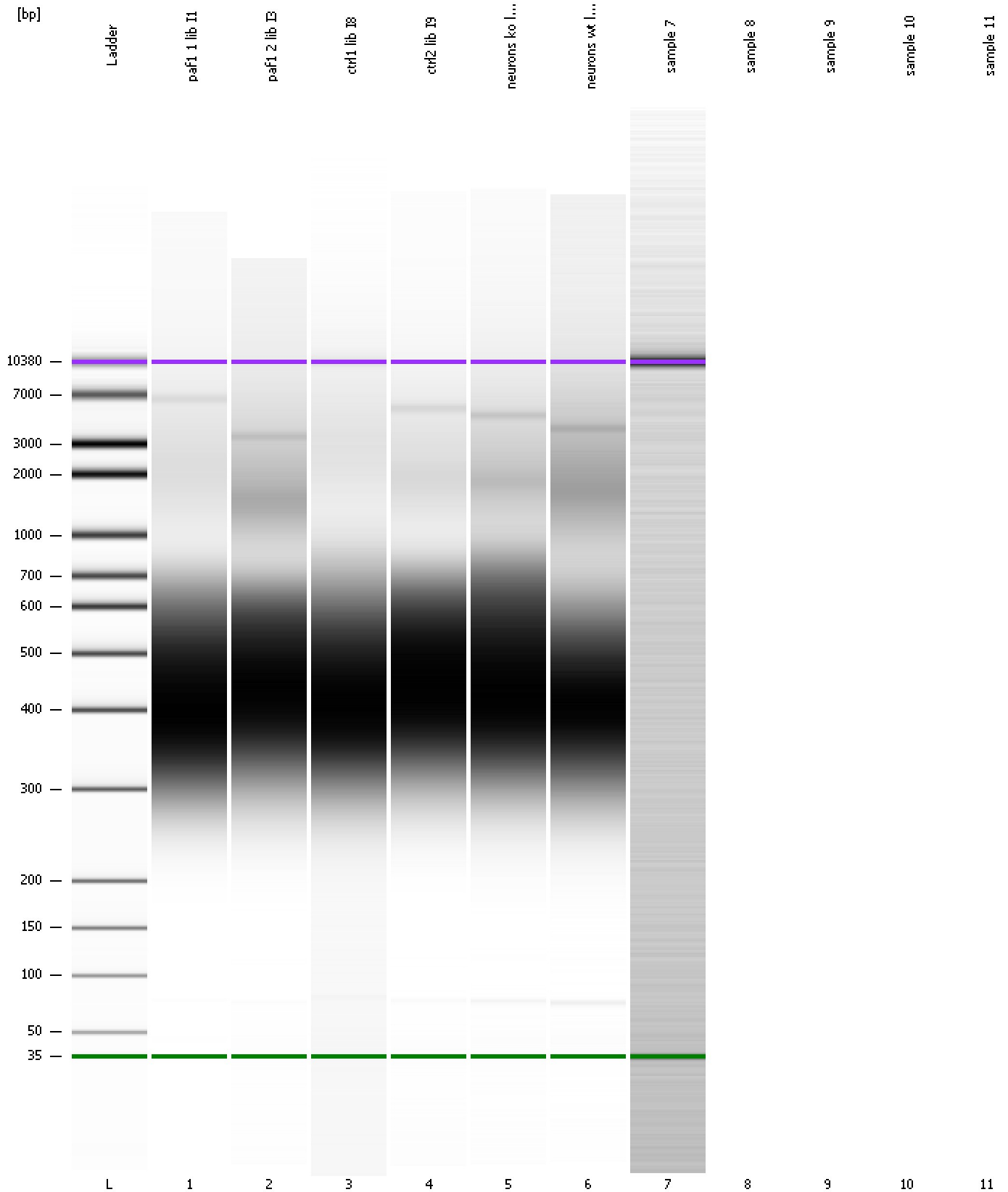
Region table for sample 7 : sample 7

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ μ l]	% of Total	Size distribution in CV [%]
200	1,000	487	241.4	1,192.4	303.97	42	39.8

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-28\2016-01-28_001.xad

Created: 1/28/2016 1:58:01 PM
Modified: 1/28/2016 2:27:55 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-28\2016-01-28_001.xad

Created: 1/28/2016 1:58:01 PM
Modified: 1/28/2016 2:27:55 PM

Invalid Samples

Sample 8 has not been run, no results available.

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.

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-28\2016-01-28_001.xad

Created: 1/28/2016 1:58:01 PM
 Modified: 1/28/2016 2:27:55 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 8)		Instrument	Run		1/28/2016 2:27:54 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2016-01-28\2016-01-28_001.xad)		Instrument	Run		1/28/2016 1:58:07 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/28/2016 1:58:07 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/28/2016 1:58:07 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/28/2016 1:58:07 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/28/2016 1:58:07 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/28/2016 1:58:07 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/28/2016 1:58:07 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1