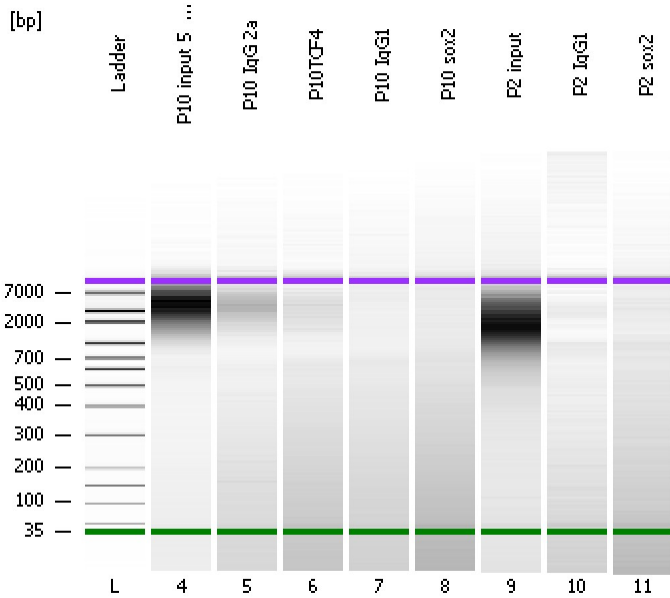


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...0 expert\data\2016-08-05\2016-08-05\_003\_CHIP\_Seq\_DNA\_QC.xad

Created: 8/5/2016 3:51:48 PM  
Modified: 8/5/2016 4:35:30 PM

**Electrophoresis File Run Summary**



Instrument Information:

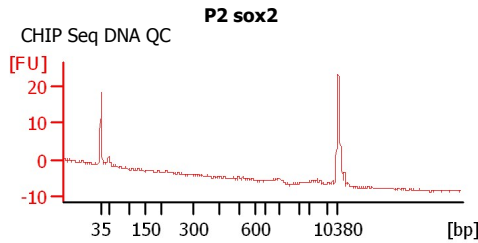
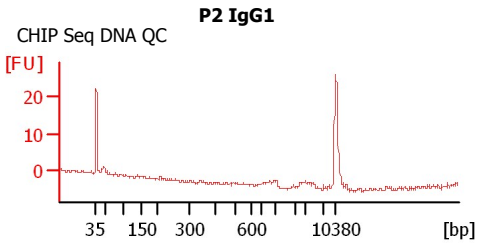
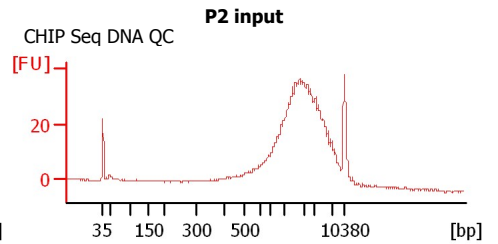
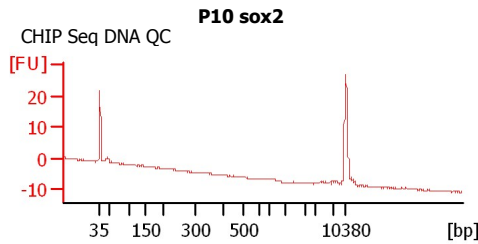
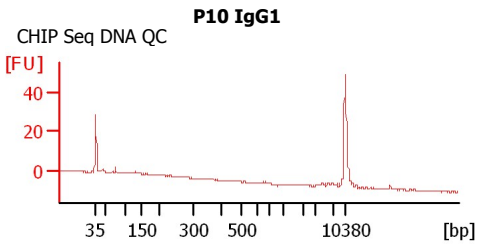
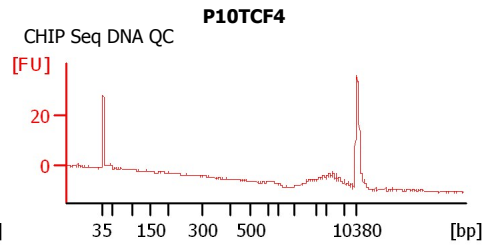
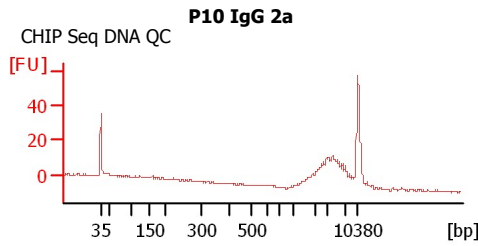
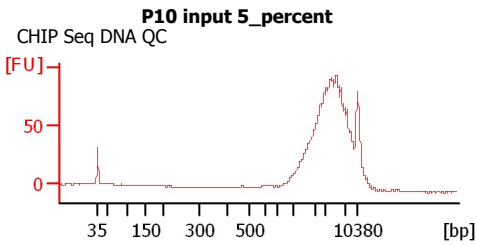
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...0 expert\data\2016-08-05\2016-08-05\_003\_CHIP\_Seq\_DNA\_QC.xad

Created: 8/5/2016 3:51:48 PM  
 Modified: 8/5/2016 4:35:30 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
P10 input 5_percent	CHIP Seq DNA QC	<input type="checkbox"/>		✓		
P10 IgG 2a	CHIP Seq DNA QC	<input type="checkbox"/>		✓		
P10TCF4	CHIP Seq DNA QC	<input type="checkbox"/>		✓		
P10 IgG1	CHIP Seq DNA QC	<input type="checkbox"/>		✓		
P10 sox2	CHIP Seq DNA QC	<input type="checkbox"/>		✓		
P2 input	CHIP Seq DNA QC	<input type="checkbox"/>		✓		
P2 IgG1	CHIP Seq DNA QC	<input type="checkbox"/>		✓		
P2 sox2	CHIP Seq DNA QC	<input type="checkbox"/>		✓		
Ladder		<input type="checkbox"/>		✓		

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...0 expert\data\2016-08-05\2016-08-05\_003\_CHIP\_Seq\_DNA\_QC.xad

Created: 8/5/2016 3:51:48 PM  
Modified: 8/5/2016 4:35:30 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

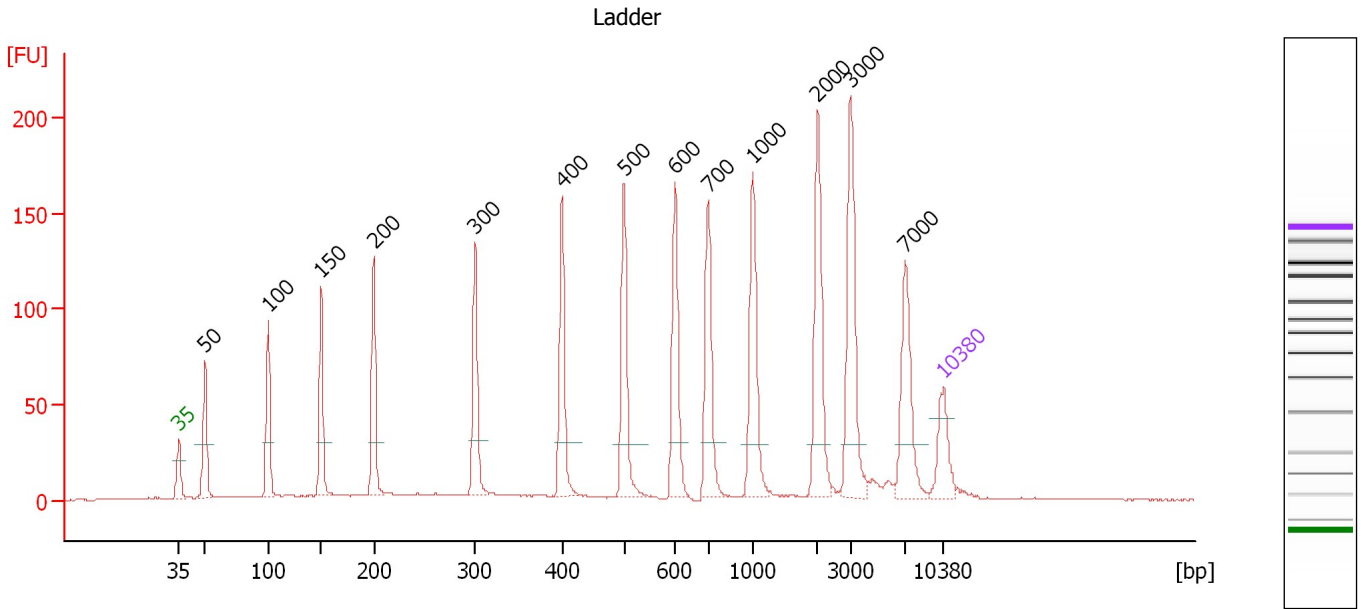
**Ladder**

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:\...0 expert\data\2016-08-05\2016-08-05\_003\_CHIP\_Seq\_DNA\_QC.xad

Created: 8/5/2016 3:51:48 PM  
 Modified: 8/5/2016 4:35:30 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.3

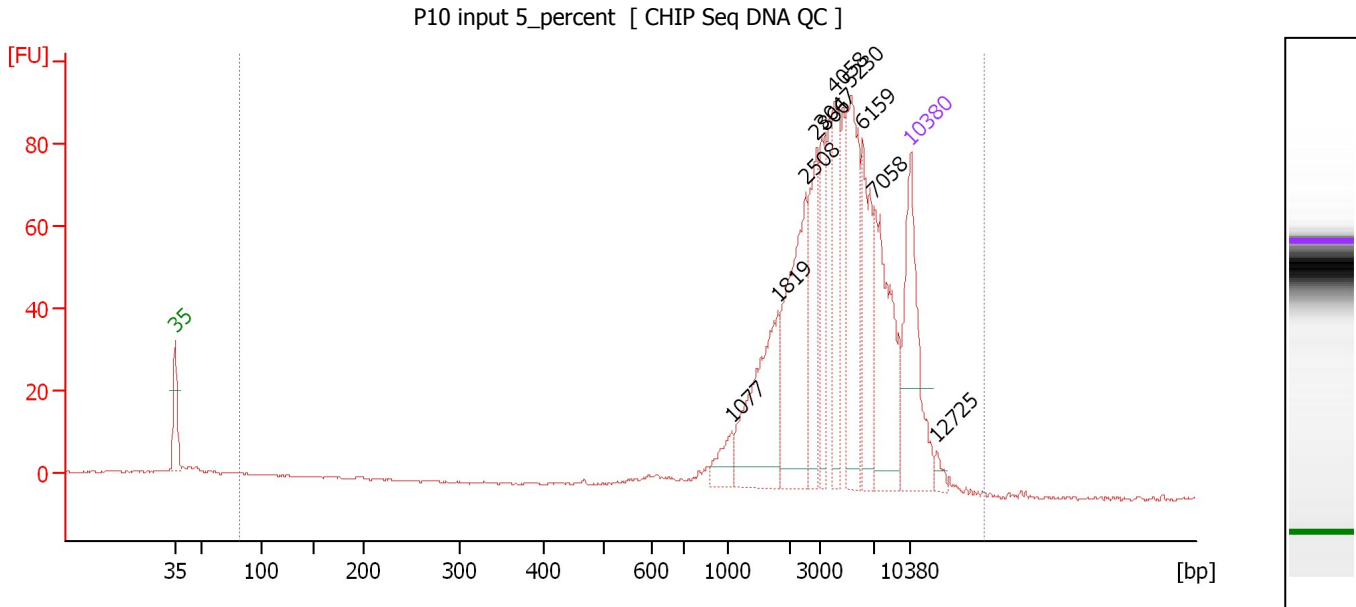
**Peak table for Ladder**

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	45.44
3	100	150.00	2,272.7	Ladder Peak	51.20
4	150	150.00	1,515.2	Ladder Peak	56.07
5	200	150.00	1,136.4	Ladder Peak	60.85
6	300	150.00	757.6	Ladder Peak	70.17
7	400	150.00	568.2	Ladder Peak	78.07
8	500	150.00	454.5	Ladder Peak	83.78
9	600	150.00	378.8	Ladder Peak	88.41
10	700	150.00	324.7	Ladder Peak	91.44
11	1,000	150.00	227.3	Ladder Peak	95.54
12	2,000	150.00	113.6	Ladder Peak	101.49
13	3,000	150.00	75.8	Ladder Peak	104.46
14	7,000	150.00	32.5	Ladder Peak	109.49
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...0 expert\data\2016-08-05\2016-08-05\_003\_CHIP\_Seq\_DNA\_QC.xad

Created: 8/5/2016 3:51:48 PM  
 Modified: 8/5/2016 4:35:30 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : P10 input 5 percent**

Number of peaks found: 10                      Corr. Area 1: 947.9  
 Noise: 0.3

**Peak table for sample 4 : P10 input 5 percent**

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	1,077	16.65	23.4		95.99
3	1,819	88.22	73.5		100.41
4	2,508	104.67	63.2		103.00
5	2,866	51.00	27.0		104.07
6	3,047	38.01	18.9		104.52
7	4,058	53.85	20.1		105.79
8	5,230	80.52	23.3		107.26
9	6,159	55.57	13.7		108.43
10	7,058	91.40	19.6		109.55
11	10,380	75.00	10.9	Upper Marker	113.00
12	12,725	0.00	0.0		115.44

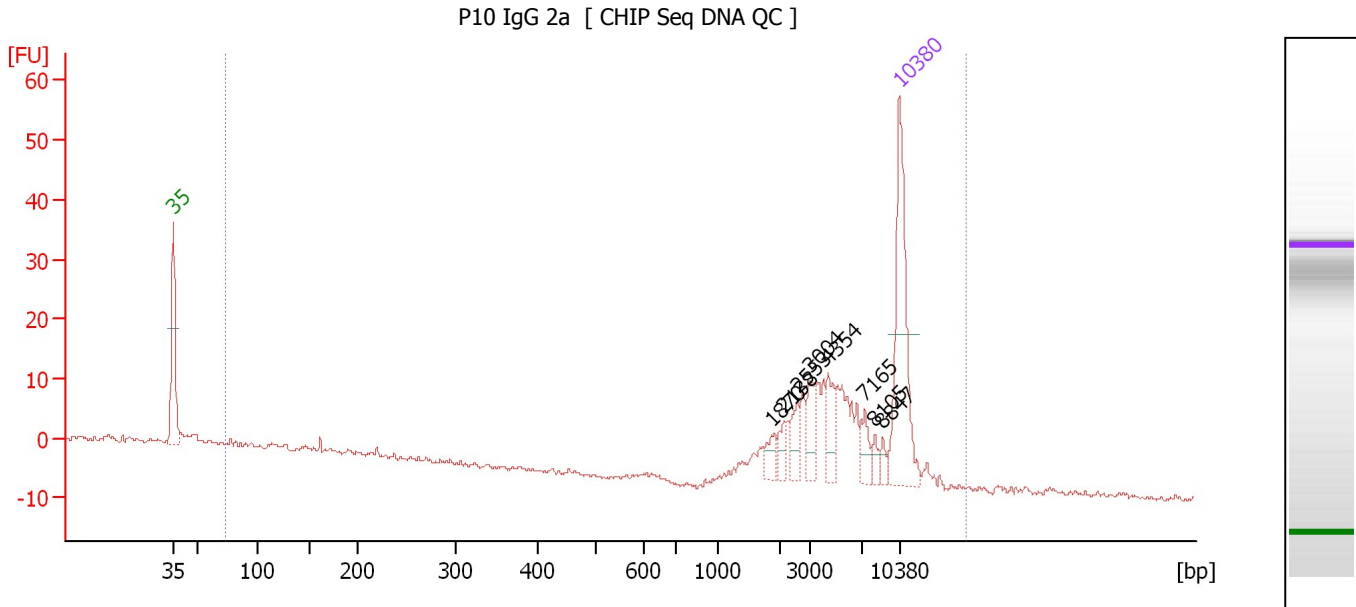
**Region table for sample 4 : P10 input 5 percent**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
82	17,136	4,944	947.9	495.2	693.08	97	62.3

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...0 expert\data\2016-08-05\2016-08-05\_003\_CHIP\_Seq\_DNA\_QC.xad

Created: 8/5/2016 3:51:48 PM  
 Modified: 8/5/2016 4:35:30 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : P10 IgG 2a**

Number of peaks found: 8                      Corr. Area 1: 144.4  
 Noise: 0.4

**Peak table for sample 5 : P10 IgG 2a**

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	1,870	9.73	7.9		100.72
3	2,138	9.44	6.7		101.90
4	2,553	13.02	7.7		103.13
5	3,004	16.57	8.4		104.47
6	4,354	17.34	6.0		106.16
7	7,165	10.54	2.2		109.66
8	8,105	5.60	1.0		110.64
9	8,847	4.59	0.8		111.41
10	10,380	75.00	10.9	Upper Marker	113.00

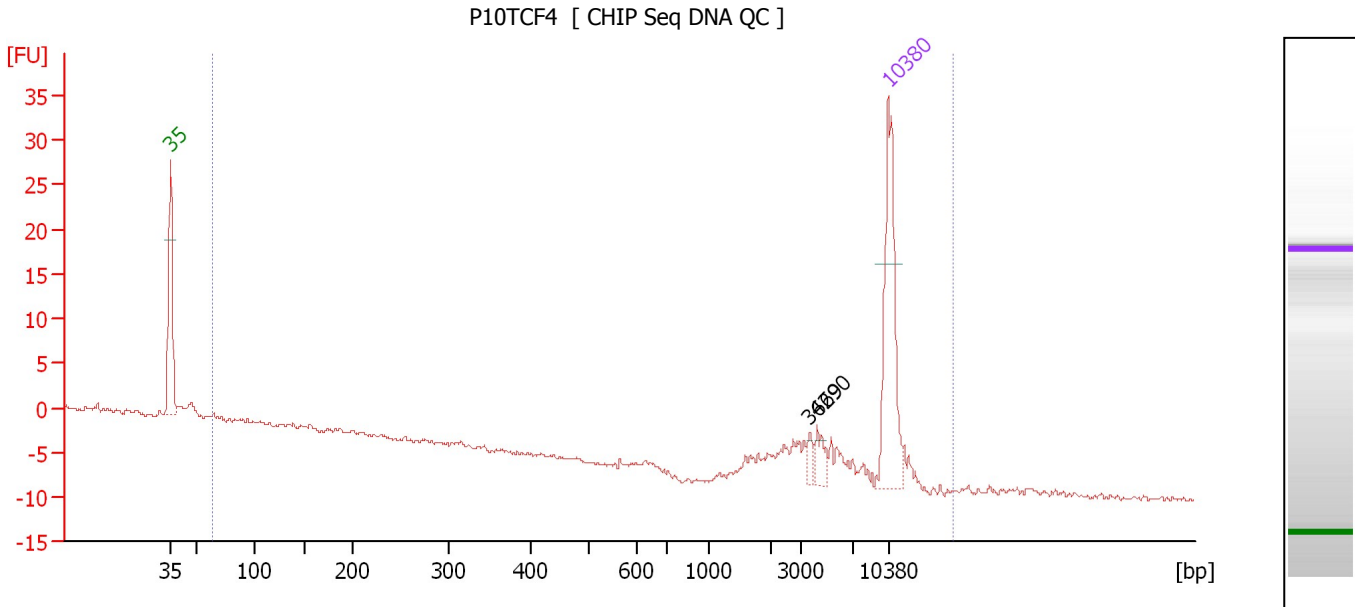
**Region table for sample 5 : P10 IgG 2a**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
72	16,497	6,420	144.4	336.6	181.64	91	55.9

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...0 expert\data\2016-08-05\2016-08-05\_003\_CHIP\_Seq\_DNA\_QC.xad

Created: 8/5/2016 3:51:48 PM  
 Modified: 8/5/2016 4:35:30 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : P10TCF4**

Number of peaks found: 2                      Corr. Area 1: 25.9  
 Noise: 0.3

**Peak table for sample 6 : P10TCF4**

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	3,669	5.77	2.4		105.30
3	4,290	11.02	3.9		106.08
4	10,380	75.00	10.9	Upper Marker	113.00

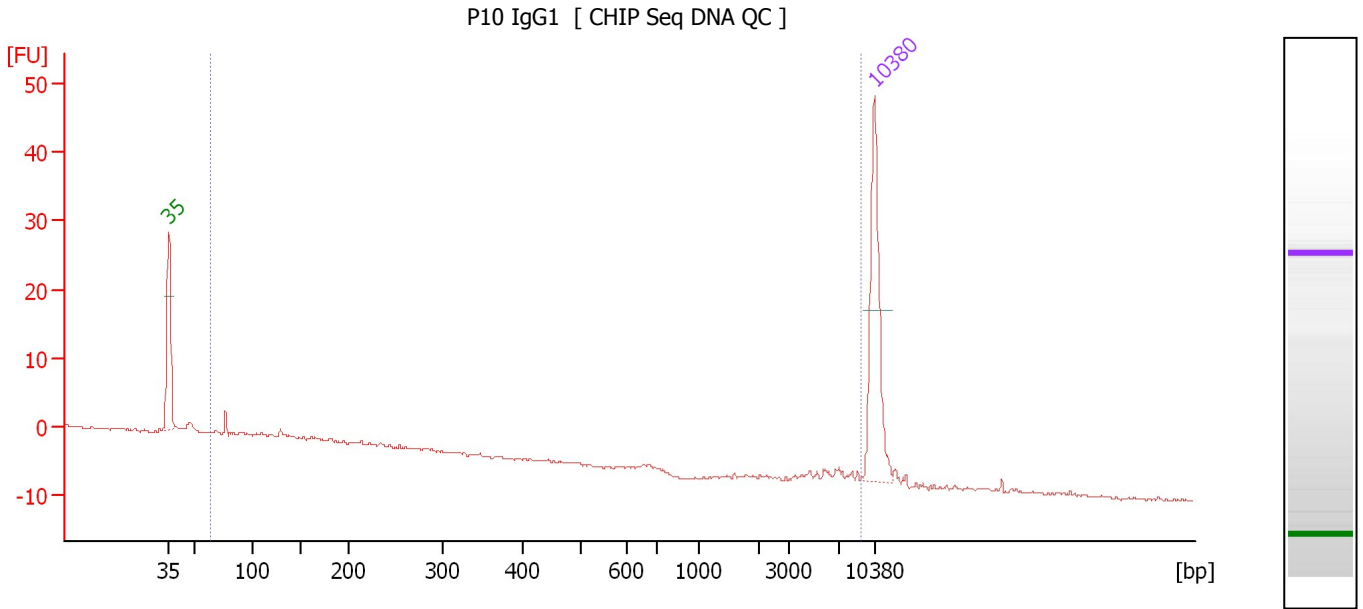
**Region table for sample 6 : P10TCF4**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
65	16,531	8,334	25.9	223.3	52.51	71	41.8

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...0 expert\data\2016-08-05\2016-08-05\_003\_CHIP\_Seq\_DNA\_QC.xad

Created: 8/5/2016 3:51:48 PM  
Modified: 8/5/2016 4:35:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : P10 IgG1

Number of peaks found: 0                      Corr. Area 1: 19.5  
Noise: 0.2

Peak table for sample 7 : P10 IgG1

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	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 7 : P10 IgG1

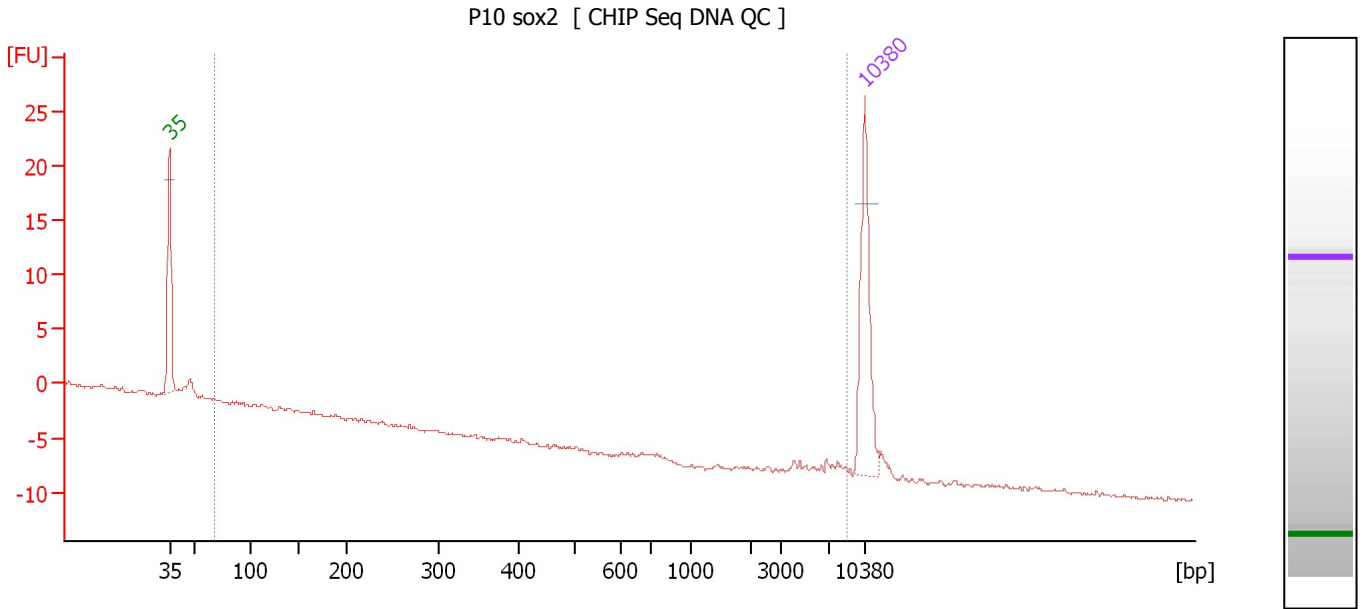
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
65	9,046	1,649	19.5	632.4	53.05	71	100.0



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...0 expert\data\2016-08-05\2016-08-05\_003\_CHIP\_Seq\_DNA\_QC.xad

Created: 8/5/2016 3:51:48 PM  
 Modified: 8/5/2016 4:35:30 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : P10 sox2**

Number of peaks found: 0                      Corr. Area 1: 0.1  
 Noise: 0.2

**Peak table for sample 8 : P10 sox2**

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	10,380	75.00	10.9	Upper Marker	113.00

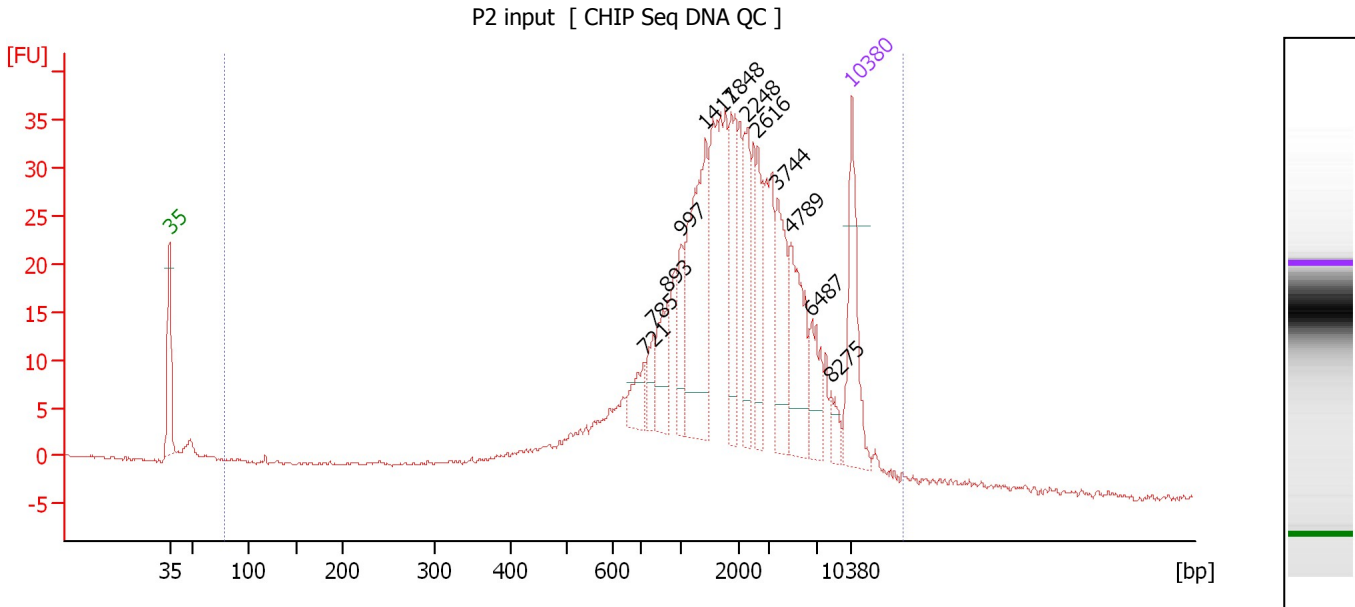
**Region table for sample 8 : P10 sox2**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
69	8,576	7,089	0.1	0.0	0.18	1	10.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...0 expert\data\2016-08-05\2016-08-05\_003\_CHIP\_Seq\_DNA\_QC.xad

Created: 8/5/2016 3:51:48 PM  
 Modified: 8/5/2016 4:35:30 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : P2 input**

Number of peaks found: 12                      Corr. Area 1: 594.1  
 Noise: 0.2

**Peak table for sample 9 : P2 input**

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	721	29.57	62.1		91.73
3	785	23.09	44.6		92.60
4	893	48.01	81.4		94.08
5	997	34.16	51.9		95.50
6	1,417	148.32	158.6		98.02
7	1,848	72.03	59.0		100.59
8	2,248	55.48	37.4		102.23
9	2,616	50.14	29.0		103.32
10	3,744	64.55	26.1		105.40
11	4,789	78.43	24.8		106.71
12	6,487	35.95	8.4		108.84
13	8,275	13.75	2.5		110.81
14	10,380	75.00	10.9	Upper Marker	113.00

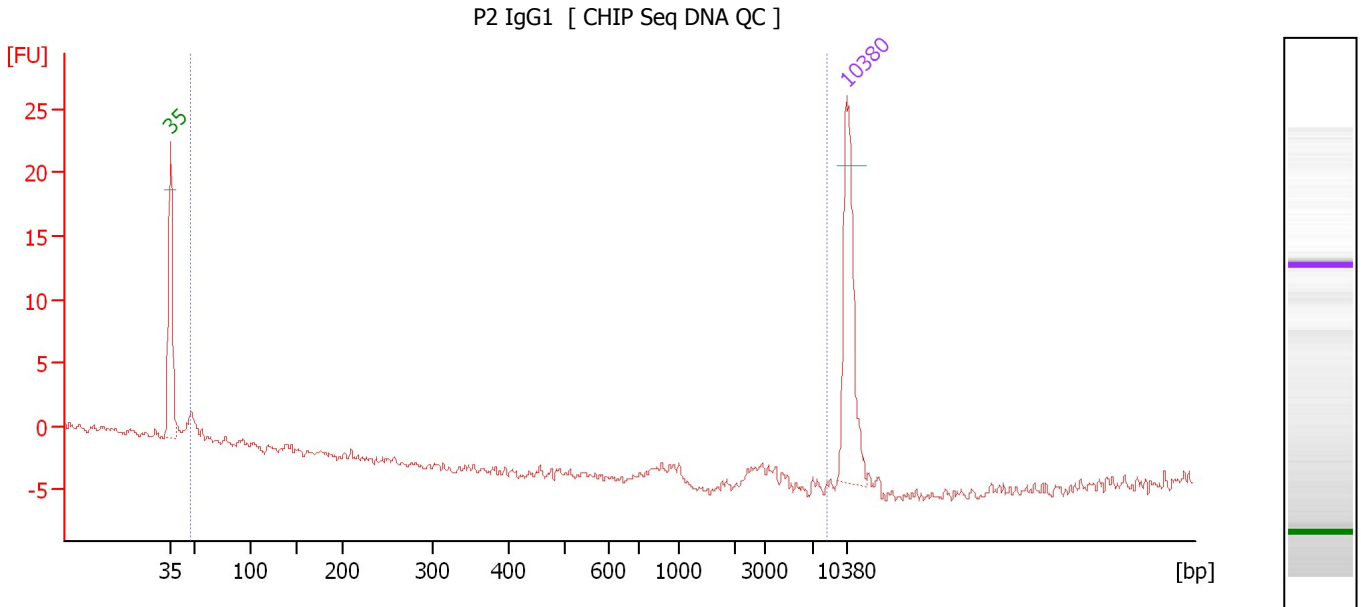
**Region table for sample 9 : P2 input**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
77	15,428	3,079	594.1	2,042.4	1,438.61	97	97.3

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...0 expert\data\2016-08-05\2016-08-05\_003\_CHIP\_Seq\_DNA\_QC.xad

Created: 8/5/2016 3:51:48 PM  
 Modified: 8/5/2016 4:35:30 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : P2 IgG1**

Number of peaks found: 0                      Corr. Area 1: 2.4  
 Noise: 0.3

**Peak table for sample 10 : P2 IgG1**

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	10,380	75.00	10.9	Upper Marker	113.00

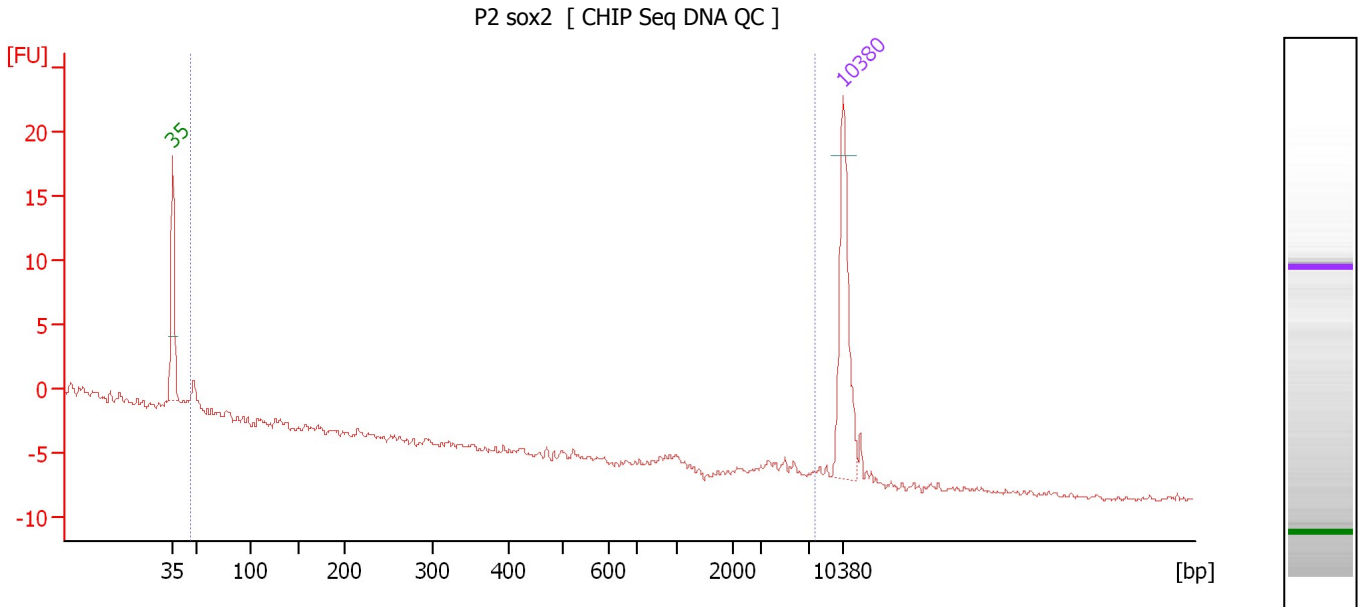
**Region table for sample 10 : P2 IgG1**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
47	8,439	50	2.4	354.9	11.62	48	5.2

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...0 expert\data\2016-08-05\2016-08-05\_003\_CHIP\_Seq\_DNA\_QC.xad

Created: 8/5/2016 3:51:48 PM  
 Modified: 8/5/2016 4:35:30 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : P2 sox2**

Number of peaks found: 0                      Corr. Area 1: 1.2  
 Noise: 0.2

**Peak table for sample 11 : P2 sox2**

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	10,380	75.00	10.9	Upper Marker	113.00

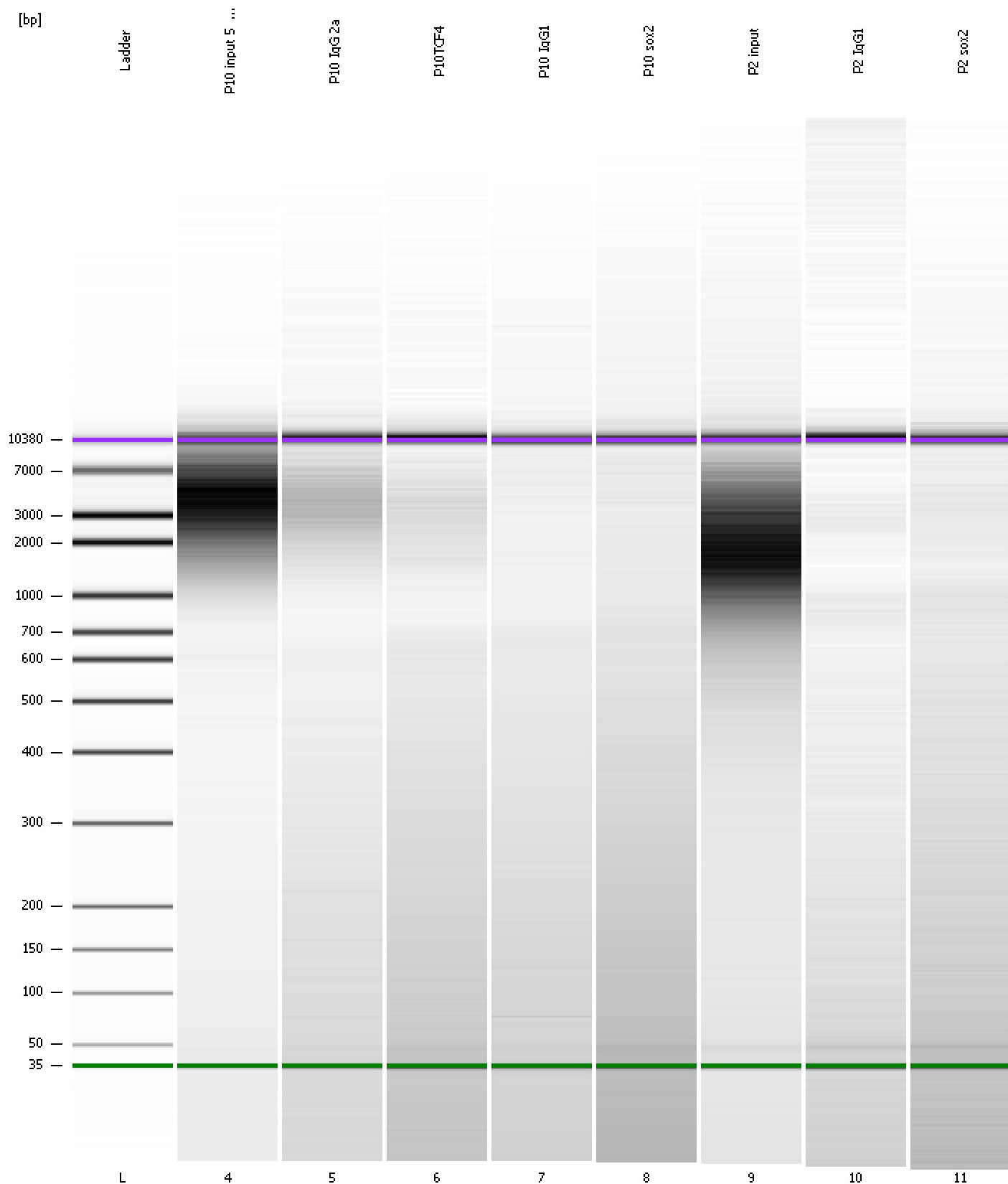
**Region table for sample 11 : P2 sox2**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
47	7,614	245	1.2	199.7	6.45	58	100.0

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...0 expert\data\2016-08-05\2016-08-05\_003\_CHIP\_Seq\_DNA\_QC.xad

Created: 8/5/2016 3:51:48 PM  
Modified: 8/5/2016 4:35:30 PM

**Gel Image**



Assay Class: High Sensitivity DNA Assay Created: 8/5/2016 3:51:48 PM  
 Data Path: C:\...0 expert\data\2016-08-05\2016-08-05\_003\_CHIP\_Seq\_DNA\_QC.xad Modified: 8/5/2016 4:35:30 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		8/5/2016 4:33:05 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\2016-08-05\2016-08-05_003.xad)		Instrument	Run		8/5/2016 3:51:53 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/5/2016 3:51:53 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/5/2016 3:51:53 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/5/2016 3:51:53 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/5/2016 3:51:53 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/5/2016 3:51:53 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/5/2016 3:51:53 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1