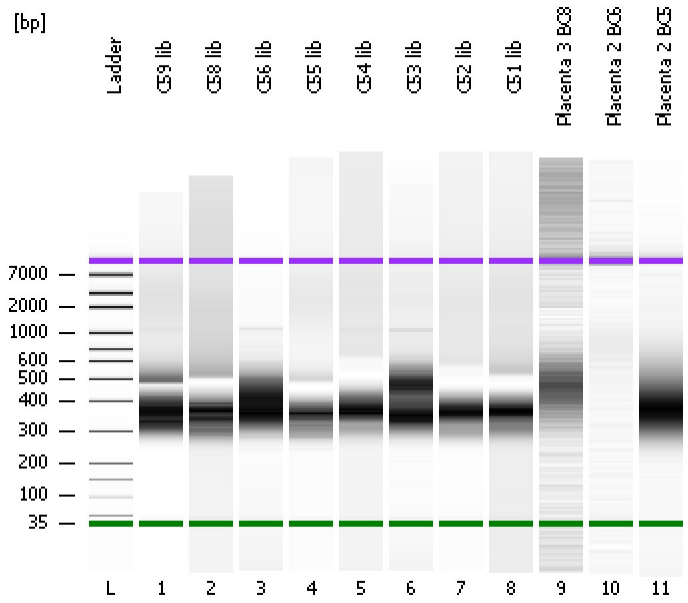
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-17\2012-02-17_002.xad

Created: 2/17/2012 10:14:54 AM
Modified: 2/17/2012 11:02:06 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

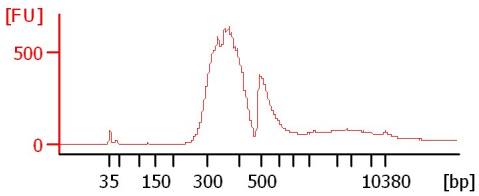
Chip Information:

Chip Lot #:

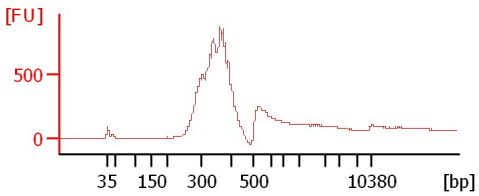
Reagent Kit Lot #:

Chip Comments:

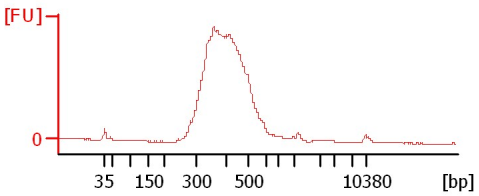
C59 lib



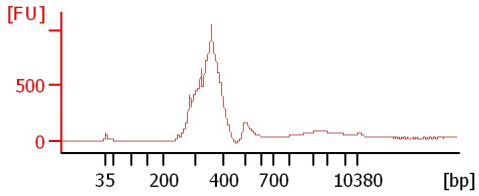
C58 lib



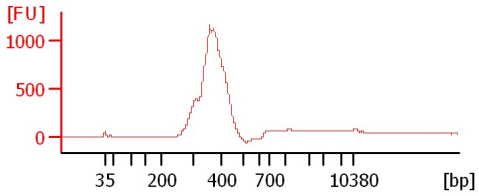
C56 lib



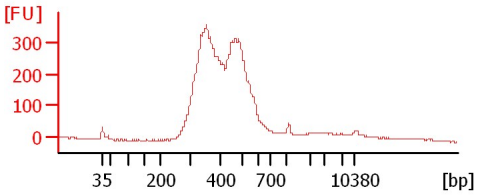
C55 lib



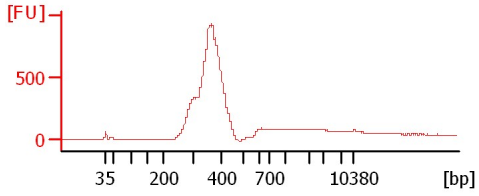
C54 lib



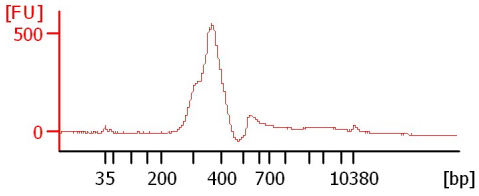
C53 lib



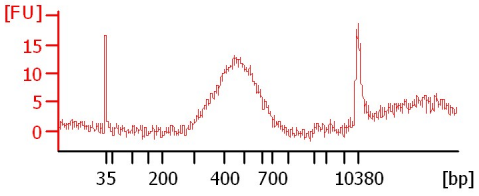
C52 lib



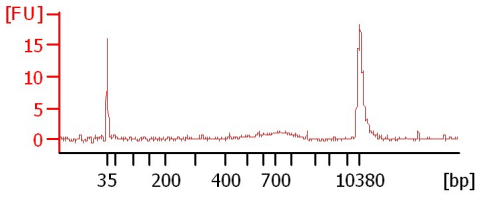
C51 lib



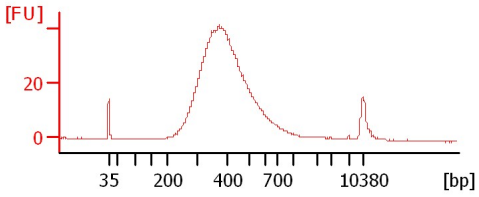
Placenta 3 BC8



Placenta 2 BC6



Placenta 2 BC5



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-17\2012-02-17_002.xad

Created: 2/17/2012 10:14:54 AM
Modified: 2/17/2012 11:02:06 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
C59 lib		☐	✔			
C58 lib		☐	✔			
C56 lib		☐	✔			
C55 lib		☐	✔			
C54 lib		☐	✔			
C53 lib		☐	✔			
C52 lib		☐	✔			
C51 lib		☐	✔			
Placenta 3 BC8		☐	✔			
Placenta 2 BC6		☐	✔			
Placenta 2 BC5		☐	✔			
Ladder		☐	✔			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-17\2012-02-17_002.xad

Created: 2/17/2012 10:14:54 AM
Modified: 2/17/2012 11:02:06 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

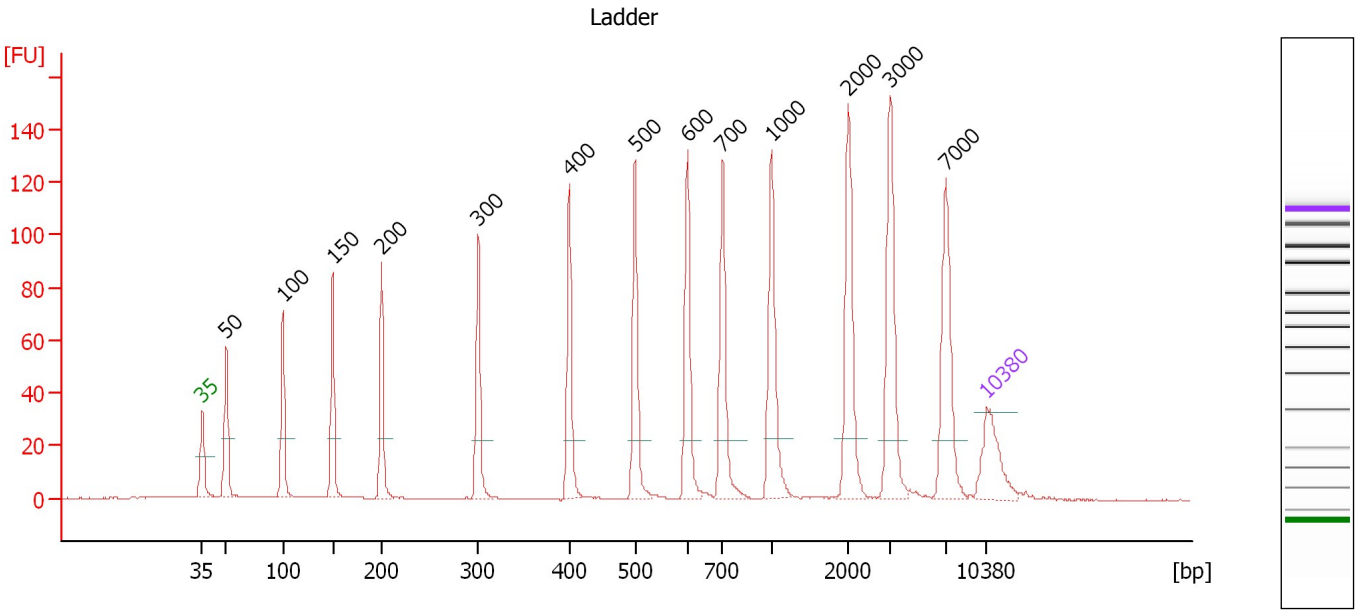
Ladder

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\2012-02-17\2012-02-17_002.xad

Created: 2/17/2012 10:14:54 AM
Modified: 2/17/2012 11:02:06 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

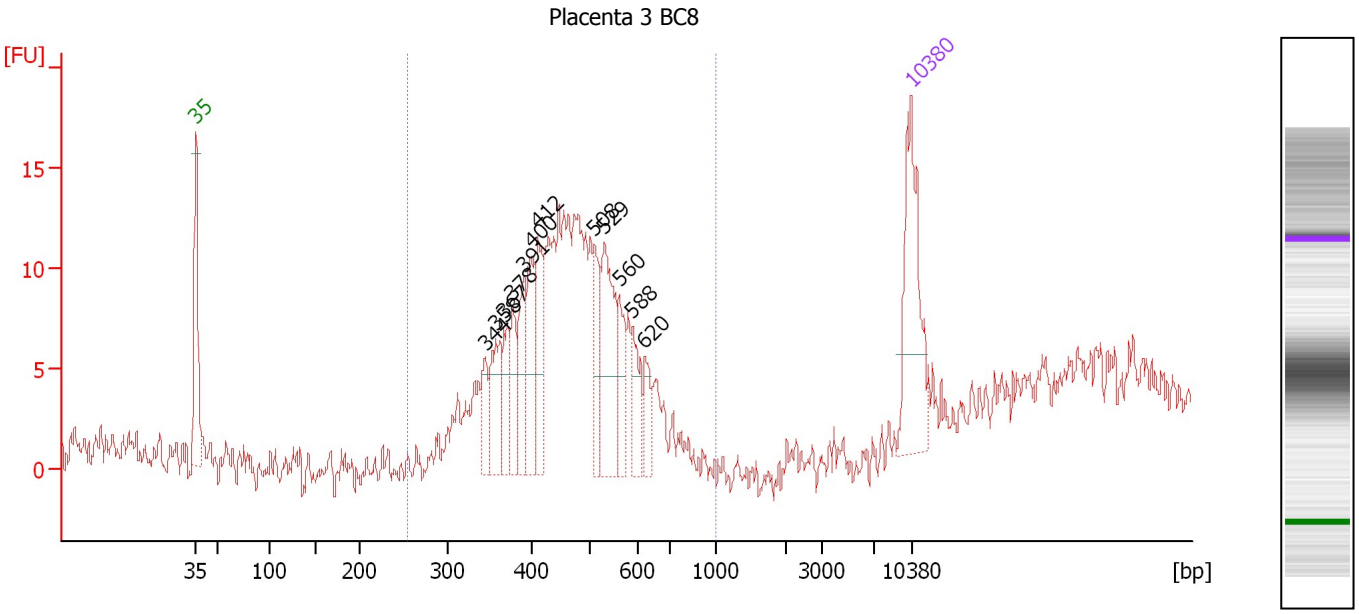
Peak table for Ladder

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

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-17\2012-02-17_002.xad

Created: 2/17/2012 10:14:54 AM
Modified: 2/17/2012 11:02:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Placenta 3 BC8

Number of peaks found:	12	Corr. Area 1:	134.4
Noise:	1.0		

Peak table for sample 9 : Placenta 3 BC8

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		344	24.74	108.8	
3		358	43.17	182.8	
4		367	31.36	129.3	
5		378	31.49	126.3	
6		391	37.76	146.3	
7		400	48.89	185.1	
8		412	55.35	203.6	
9		508	36.23	108.0	
10		529	80.01	229.0	
11		560	29.41	79.6	
12		588	29.45	75.9	
13		620	18.93	46.3	
14	▶	10,380	75.00	10.9	Upper Marker

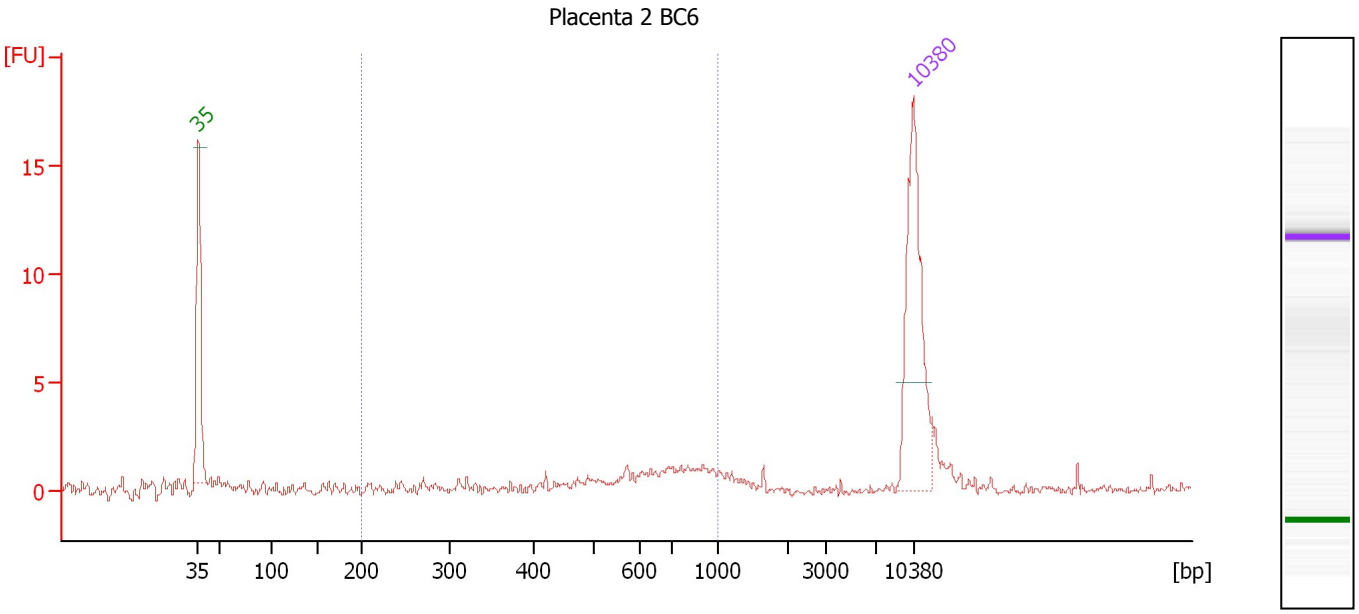
Region table for sample 9 : Placenta 3 BC8

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
255	1,913.3	465	567.71	1,000	134.4	87	15.9	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-17\2012-02-17_002.xad

Created: 2/17/2012 10:14:54 AM
Modified: 2/17/2012 11:02:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Placenta 2 BC6

Number of peaks found:	0	Corr. Area 1:	12.5
Noise:	0.2		

Peak table for sample 10 : Placenta 2 BC6

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

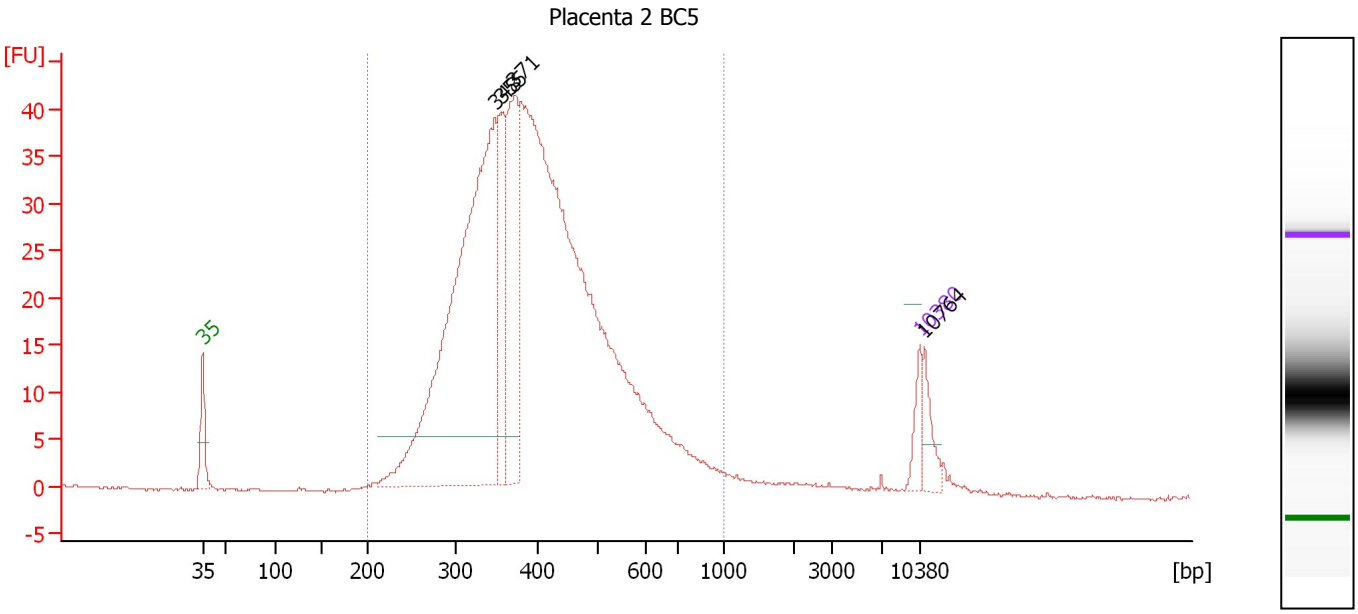
Region table for sample 10 : Placenta 2 BC6

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	138.6	640	48.76	1,000	12.5	53	29.8	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-17\2012-02-17_002.xad

Created: 2/17/2012 10:14:54 AM
Modified: 2/17/2012 11:02:06 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Placenta 2 BC5

Number of peaks found:	4	Corr. Area 1:	774.8
Noise:	0.2		

Peak table for sample 11 : Placenta 2 BC5

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1		35	125.00	5,411.3	Lower Marker
2		348	2,582.29	11,249.3	
3		355	452.91	1,933.9	
4		371	648.89	2,646.6	
5		10,380	75.00	10.9	Upper Marker
6		10,764	0.00	0.0	

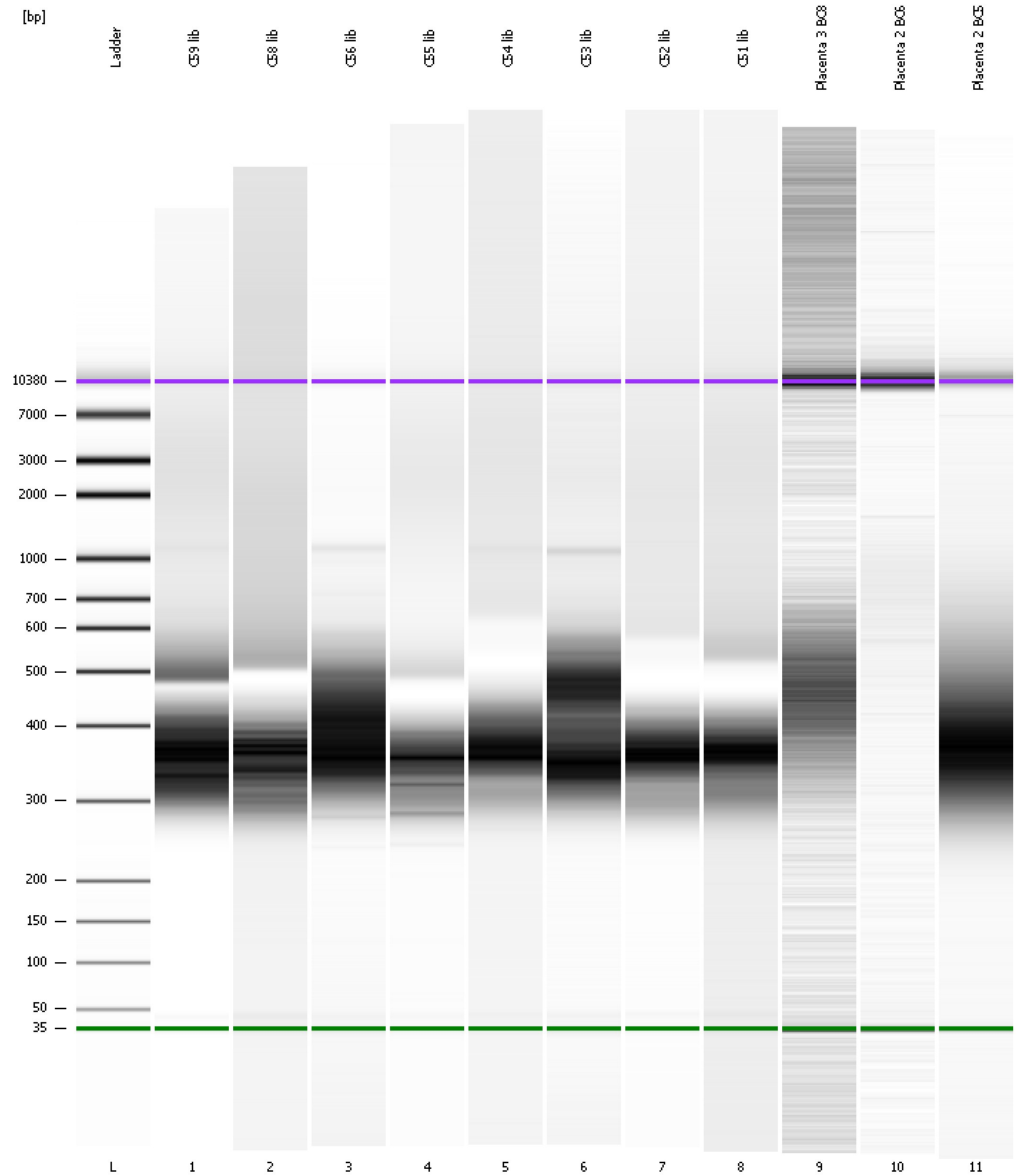
Region table for sample 11 : Placenta 2 BC5

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	32,308.4	411	8,068.78	1,000	774.8	96	27.2	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-17\2012-02-17_002.xad

Created: 2/17/2012 10:14:54 AM
Modified: 2/17/2012 11:02:06 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-17\2012-02-17_002.xad

Created: 2/17/2012 10:14:54 AM
Modified: 2/17/2012 11:02:06 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		2/17/2012 10:56:12 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-02-17\2012-02-17_002.xad)		Instrument	Run		2/17/2012 10:15:00 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/17/2012 10:15:00 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/17/2012 10:15:00 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/17/2012 10:15:00 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/17/2012 10:15:00 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/17/2012 10:15:00 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/17/2012 10:15:00 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1