

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-21\2014-11-21_004.xad

Created: 11/21/2014 3:57:12 PM
Modified: 11/21/2014 4:39:45 PM

Electrophoresis File Run Summary

Instrument Information:

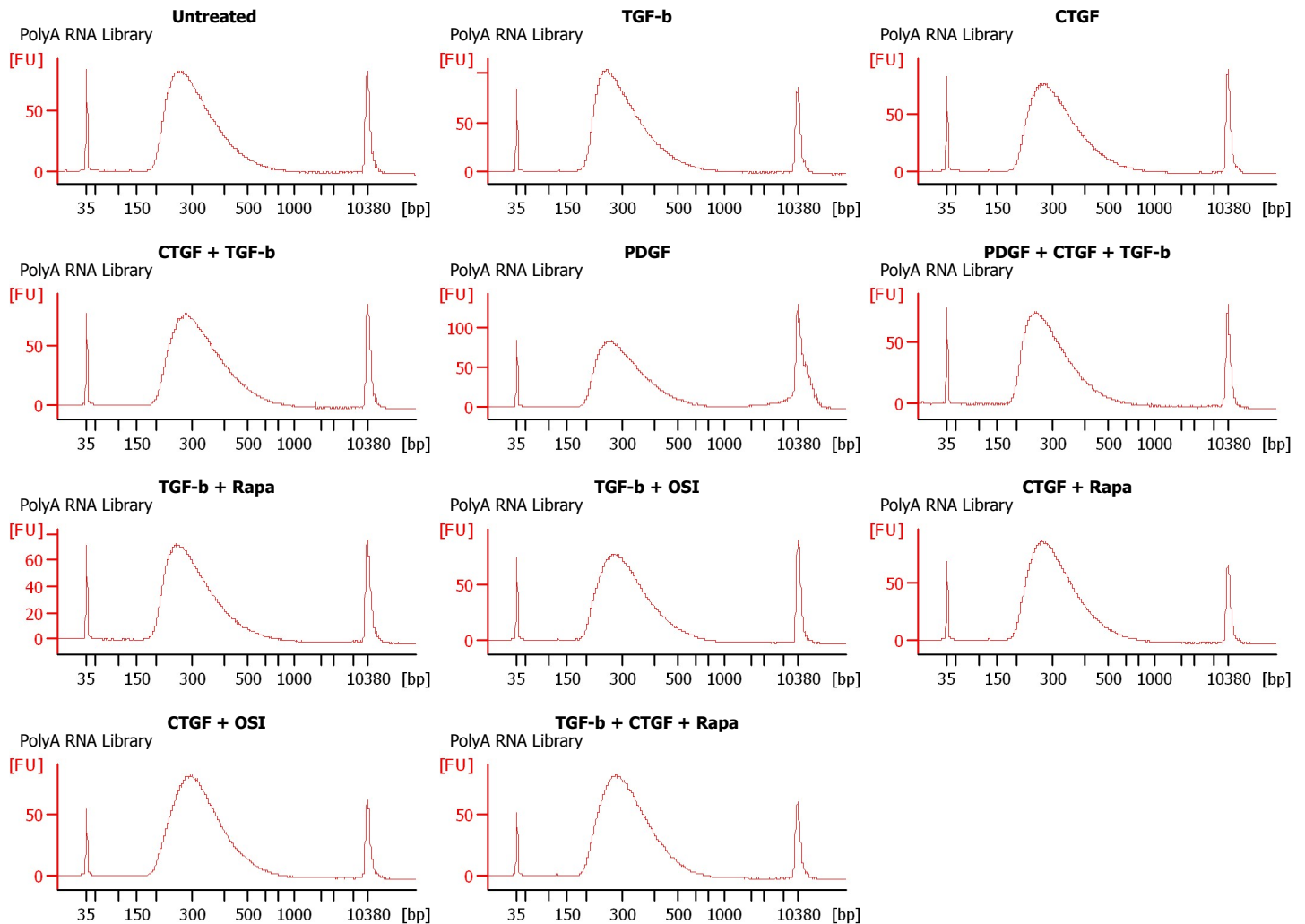
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Untreated	PolyA RNA Library	<input type="checkbox"/>	✓			
TGF-b	PolyA RNA Library	<input type="checkbox"/>	✓			
CTGF	PolyA RNA Library	<input type="checkbox"/>	✓			
CTGF + TGF-b	PolyA RNA Library	<input type="checkbox"/>	✓			
PDGF	PolyA RNA Library	<input type="checkbox"/>	✓			
PDGF + CTGF + TGF-b	PolyA RNA Library	<input type="checkbox"/>	✓			
TGF-b + Rapa	PolyA RNA Library	<input type="checkbox"/>	✓			
TGF-b + OSI	PolyA RNA Library	<input type="checkbox"/>	✓			
CTGF + Rapa	PolyA RNA Library	<input type="checkbox"/>	✓			
CTGF + OSI	PolyA RNA Library	<input type="checkbox"/>	✓			
TGF-b + CTGF + Rapa	PolyA RNA Library	<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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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

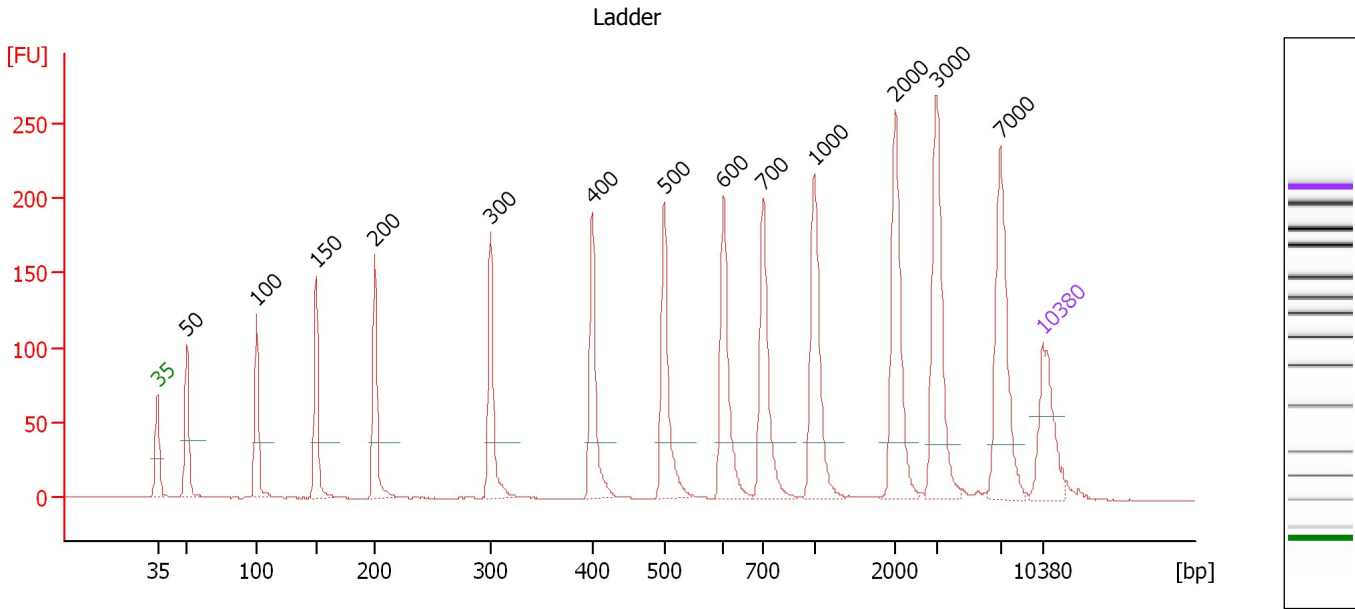
Ladder

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

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Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

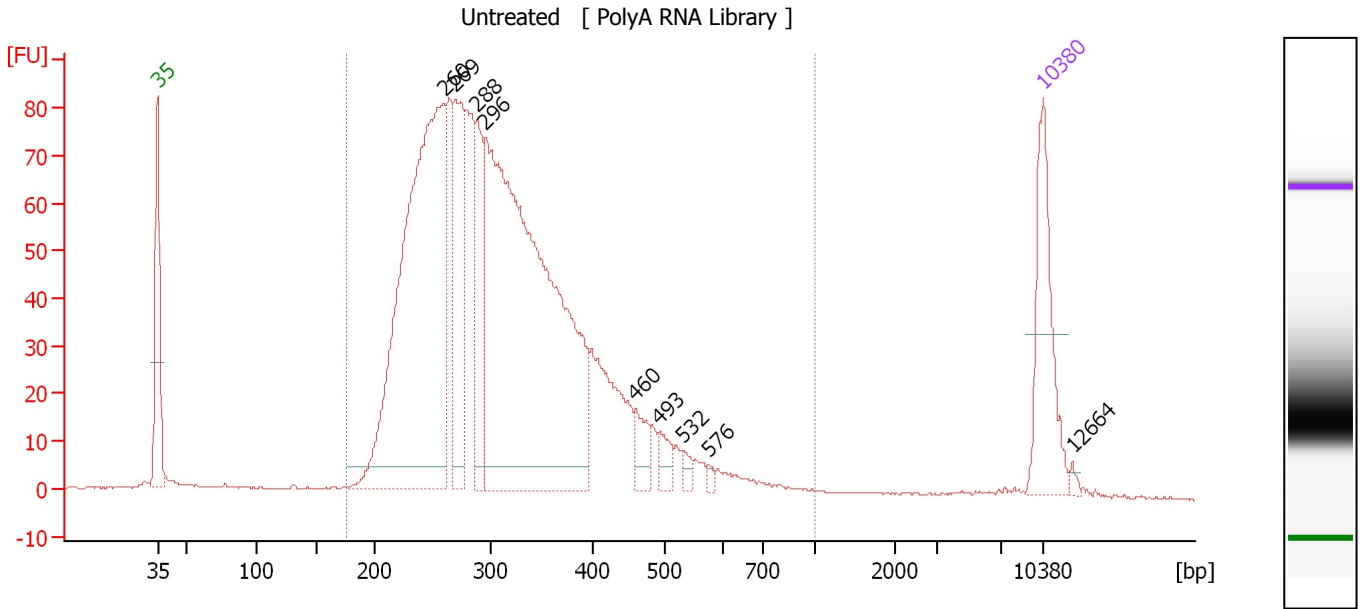
Peak table for Ladder

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

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Electropherogram Summary Continued ...



Overall Results for sample 1 : Untreated

Number of peaks found: 9 Corr. Area 1: 1,727.0
 Noise: 0.2

Peak table for sample 1 : Untreated

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	260	597.36	3,486.7	
3	269	129.91	730.5	
4	288	91.43	480.6	
5	296	742.14	3,803.7	
6	460	25.31	83.4	
7	493	16.70	51.3	
8	532	7.57	21.6	
9	576	3.66	9.6	
10	10,380	75.00	10.9	Upper Marker
11	12,664	0.00	0.0	

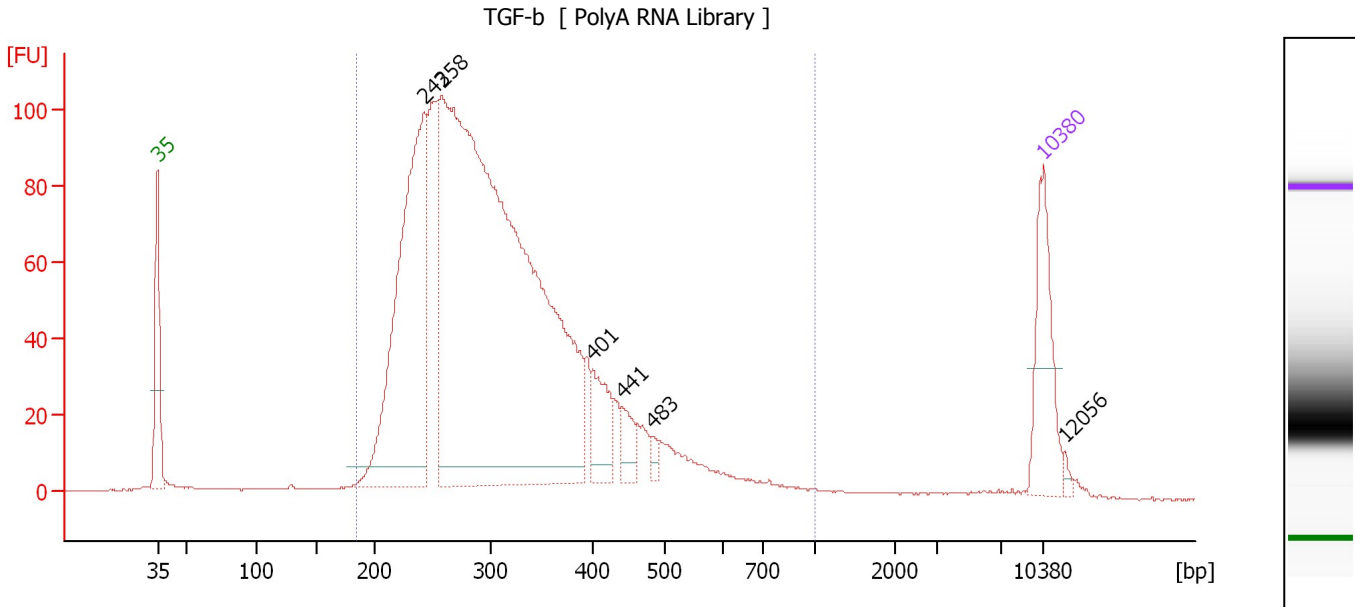
Region table for sample 1 : Untreated

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
177	321	1,000	1,727.0	97	28.9	1,982.85	10,195.7	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 2 : TGF-b

Number of peaks found: 6 Corr. Area 1: 2,055.9
 Noise: 0.2

Peak table for sample 2 : TGF-b

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	243	475.30	2,965.3	
3	258	1,415.73	8,319.4	
4	401	57.64	218.0	
5	441	25.22	86.6	
6	483	8.21	25.7	
7	10,380	75.00	10.9	Upper Marker
8	12,056	0.00	0.0	

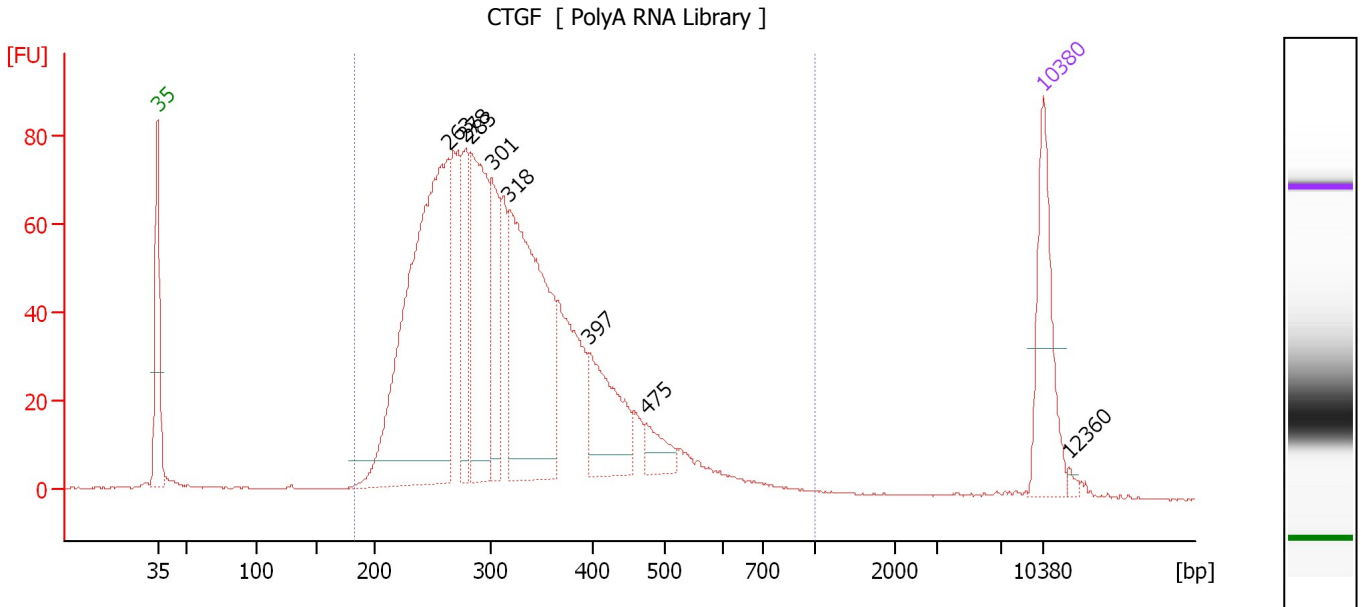
Region table for sample 2 : TGF-b

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
184	318	1,000	2,055.9	96	30.0	2,231.13	11,606.9	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 3 : CTGF

Number of peaks found: 8 Corr. Area 1: 1,616.7
 Noise: 0.2

Peak table for sample 3 : CTGF

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	263	504.31	2,900.6	
3	278	85.22	464.2	
4	283	195.66	1,048.6	
5	301	91.88	462.3	
6	318	308.39	1,469.9	
7	397	97.89	374.0	
8	475	25.65	81.8	
9	10,380	75.00	10.9	Upper Marker
10	12,360	0.00	0.0	

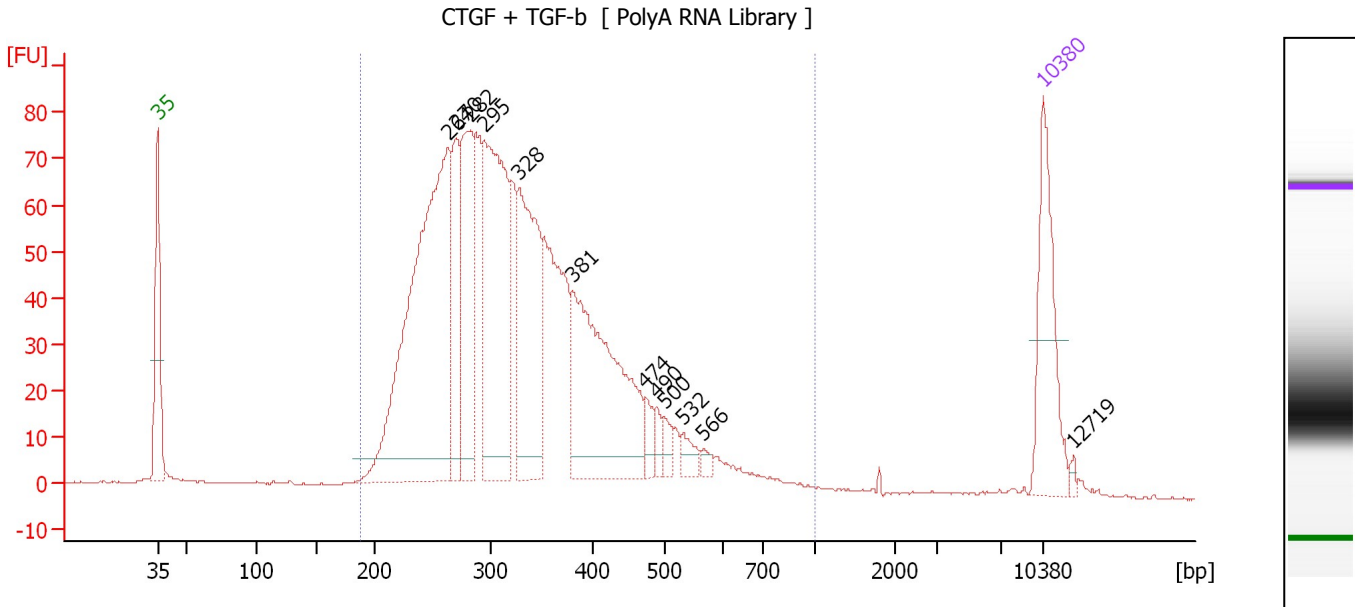
Region table for sample 3 : CTGF

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
182	327	1,000	1,616.7	97	28.6	1,790.93	9,045.3	Blue

Assay Class: High Sensitivity DNA Assay
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Electropherogram Summary Continued ...



Overall Results for sample 4 : CTGF + TGF-b

Number of peaks found: 12 Corr. Area 1: 1,663.5
 Noise: 0.2

Peak table for sample 4 : CTGF + TGF-b

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	264	462.57	2,655.9	
3	270	92.83	520.8	
4	282	147.98	793.8	
5	295	245.09	1,259.6	
6	328	183.31	846.3	
7	381	226.41	900.2	
8	474	15.27	48.8	
9	490	10.79	33.4	
10	500	13.27	40.2	
11	532	13.50	38.5	
12	566	6.09	16.3	
13	10,380	75.00	10.9	Upper Marker
14	12,719	0.00	0.0	

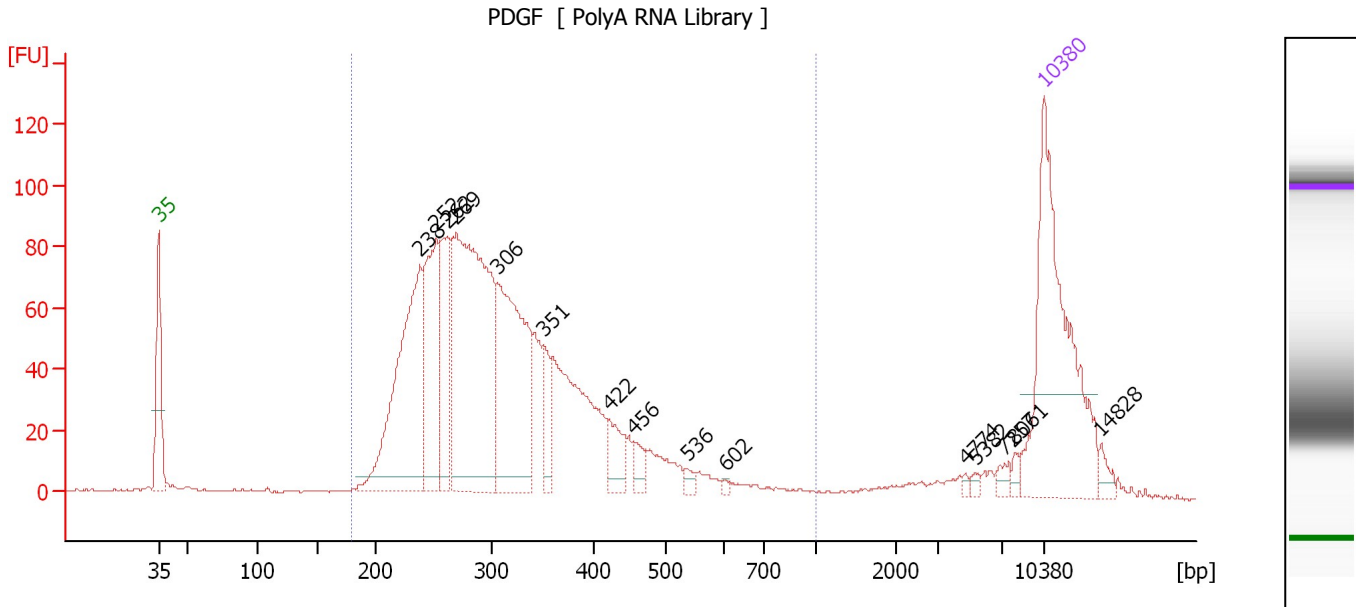
Region table for sample 4 : CTGF + TGF-b

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
187	337	1,000	1,663.5	96	29.4	1,849.94	9,099.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-21\2014-11-21_004.xad

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Electropherogram Summary Continued ...



Overall Results for sample 5 : PDGF

Number of peaks found: 15 Corr. Area 1: 1,712.7
 Noise: 0.4

Peak table for sample 5 : PDGF

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	238	113.45	721.9	
3	252	65.75	395.0	
4	262	45.39	262.9	
5	269	166.85	938.4	
6	306	97.95	485.7	
7	351	14.74	63.6	
8	422	13.79	49.5	
9	456	7.21	23.9	
10	536	2.65	7.5	
11	602	1.01	2.5	
12	4,774	1.08	0.3	
13	5,382	1.54	0.4	
14	7,257	2.96	0.6	
15	8,061	2.08	0.4	
16	10,380	75.00	10.9	Upper Marker
17	14,828	0.00	0.0	

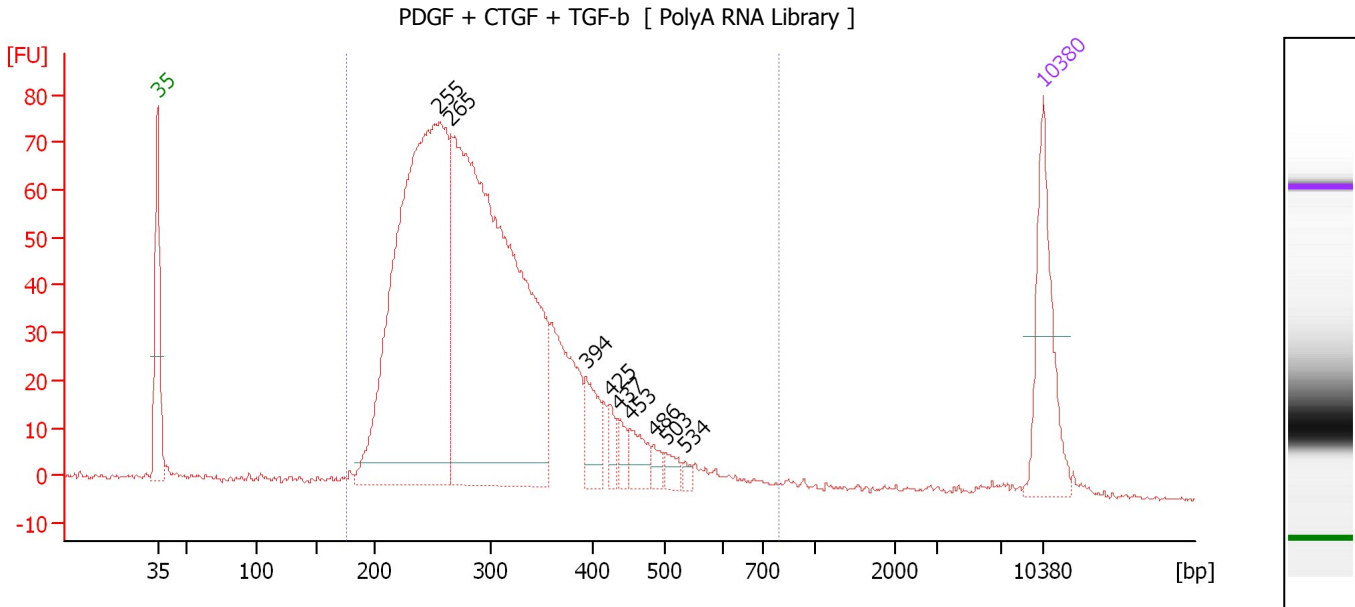
Region table for sample 5 : PDGF

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
180	321	1,000	1,712.7	92	30.0	674.82	3,474.5	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 6 : PDGF + CTGF + TGF-b

Number of peaks found: 9 Corr. Area 1: 1,458.0
 Noise: 0.2

Peak table for sample 6 : PDGF + CTGF + TGF-b

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	255	683.96	4,058.8	
3	265	791.24	4,519.9	
4	394	40.32	155.0	
5	425	15.40	54.9	
6	437	13.42	46.5	
7	453	24.84	83.1	
8	486	9.64	30.1	
9	503	11.41	34.4	
10	534	4.91	13.9	
11	10,380	75.00	10.9	Upper Marker

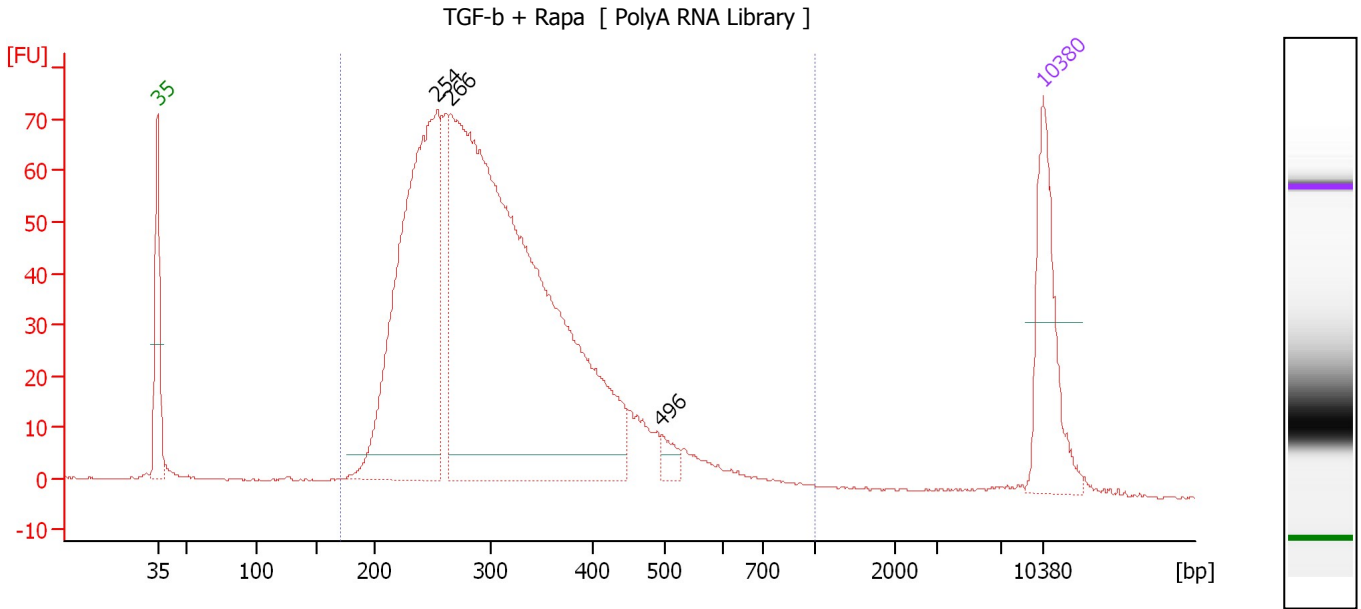
Region table for sample 6 : PDGF + CTGF + TGF-b

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
177	305	791	1,458.0	97	26.5	1,685.20	9,022.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-21\2014-11-21_004.xad

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Electropherogram Summary Continued ...



Overall Results for sample 7 : TGF-b + Rapa

Number of peaks found: 3 Corr. Area 1: 1,474.2
 Noise: 0.2

Peak table for sample 7 : TGF-b + Rapa

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	254	463.94	2,767.7	
3	266	971.68	5,543.8	
4	496	12.58	38.4	
5	10,380	75.00	10.9	Upper Marker

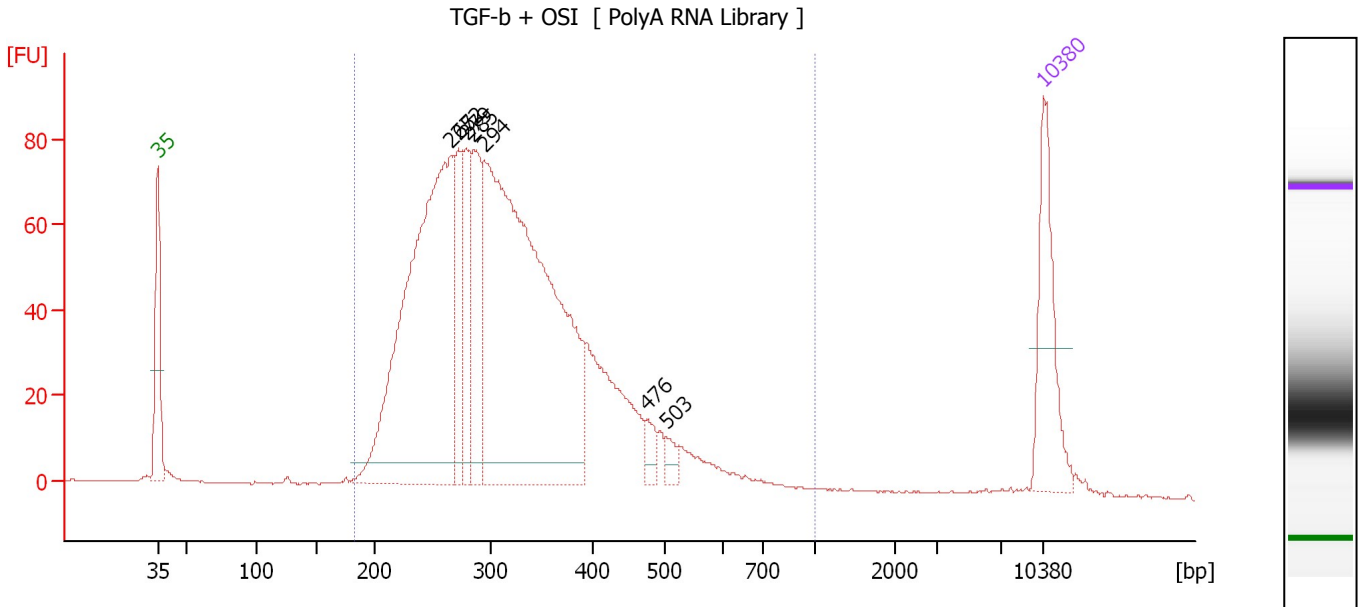
Region table for sample 7 : TGF-b + Rapa

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
171	317	1,000	1,474.2	97	29.8	1,539.11	8,034.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-21\2014-11-21_004.xad

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Electropherogram Summary Continued ...



Overall Results for sample 8 : TGF-b + OSI

Number of peaks found: 7 Corr. Area 1: 1,646.7
 Noise: 0.2

Peak table for sample 8 : TGF-b + OSI

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	265	547.83	3,130.0	
3	272	82.27	458.1	
4	279	81.44	442.2	
5	285	115.90	616.5	
6	294	704.08	3,623.4	
7	476	17.09	54.4	
8	503	11.59	34.9	
9	10,380	75.00	10.9	Upper Marker

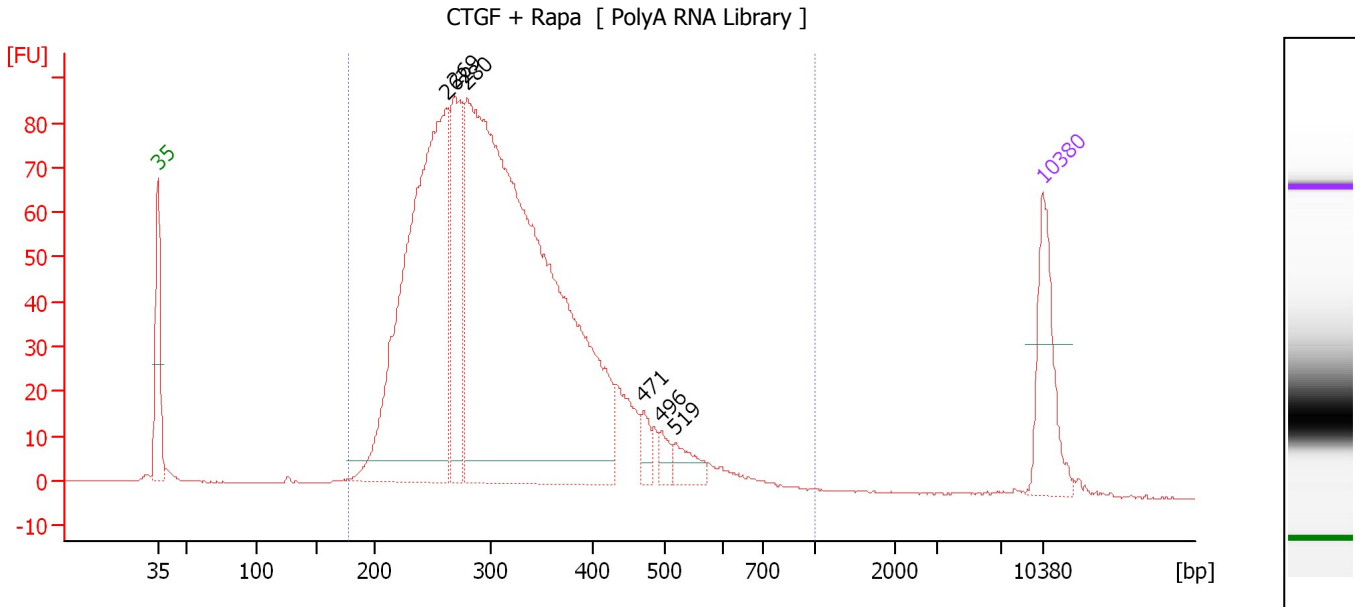
Region table for sample 8 : TGF-b + OSI

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
183	325	1,000	1,646.7	98	28.0	1,757.11	8,900.1	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 9 : CTGF + Rapa

Number of peaks found: 6 Corr. Area 1: 1,741.1
 Noise: 0.1

Peak table for sample 9 : CTGF + Rapa

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	262	700.32	4,055.6	
3	269	195.98	1,105.7	
4	280	1,338.71	7,250.5	
5	471	20.50	65.9	
6	496	17.37	53.0	
7	519	25.62	74.8	
8	10,380	75.00	10.9	Upper Marker

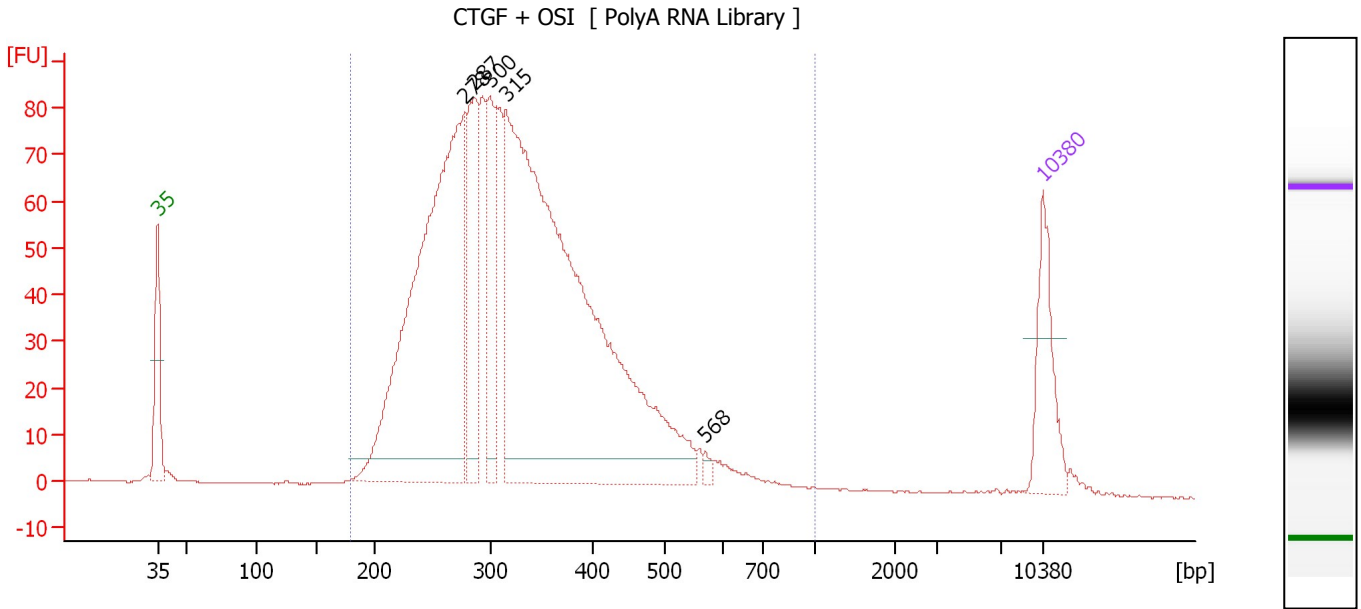
Region table for sample 9 : CTGF + Rapa

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
177	321	1,000	1,741.1	98	27.9	2,374.43	12,148.1	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 10 : CTGF + OSI

Number of peaks found: 5 Corr. Area 1: 1,724.6
 Noise: 0.1

Peak table for sample 10 : CTGF + OSI

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	278	796.46	4,345.7	
3	287	181.32	957.9	
4	300	132.39	669.4	
5	315	1,218.05	5,860.6	
6	568	6.76	18.0	
7	10,380	75.00	10.9	Upper Marker

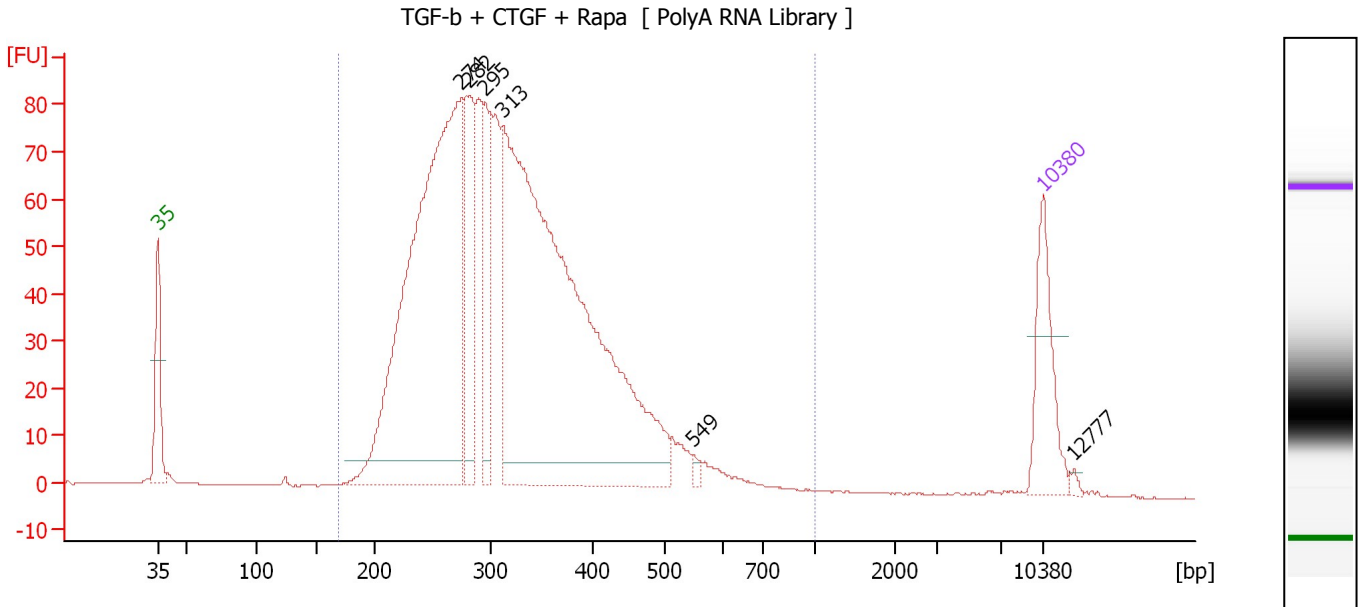
Region table for sample 10 : CTGF + OSI

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
179	334	1,000	1,724.6	98	27.3	2,594.21	12,785.2	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 11 : TGF-b + CTGF + Rapa

Number of peaks found: 6 Corr. Area 1: 1,700.1
 Noise: 0.1

Peak table for sample 11 : TGF-b + CTGF + Rapa

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	274	828.84	4,577.7	
3	282	142.30	764.9	
4	295	109.16	561.0	
5	313	1,067.86	5,176.9	
6	549	6.47	17.9	
7	10,380	75.00	10.9	Upper Marker
8	12,777	0.00	0.0	

Region table for sample 11 : TGF-b + CTGF + Rapa

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
169	325	1,000	1,700.1	98	26.3	2,480.86	12,502.6	Blue

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Gel Image

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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		11/21/2014 4:38:23 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-11-21\2014-11-21_004.xad)		Instrument	Run		11/21/2014 3:57:12 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/21/2014 3:57:12 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/21/2014 3:57:12 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/21/2014 3:57:12 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/21/2014 3:57:12 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/21/2014 3:57:12 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/21/2014 3:57:12 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1