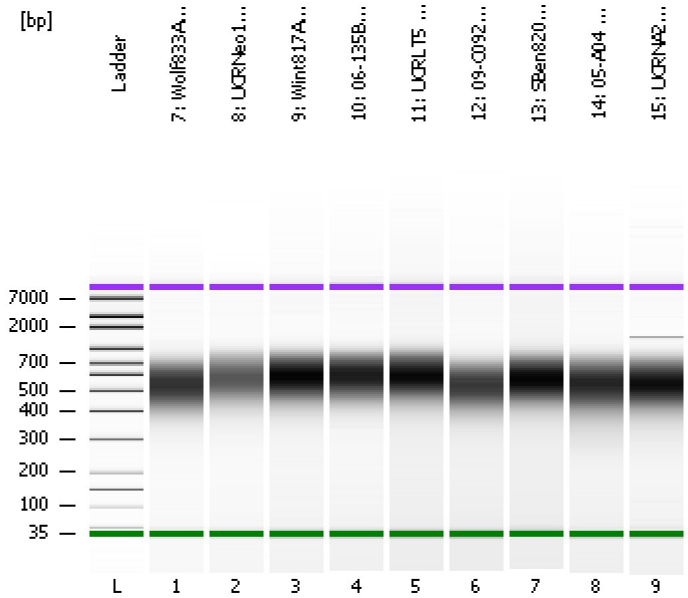
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...\data\2016-10-03\2016-10-03_004_HiSeq667_Libraries_7-15.xad

Created: 10/3/2016 2:57:23 PM
Modified: 10/3/2016 3:50:51 PM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

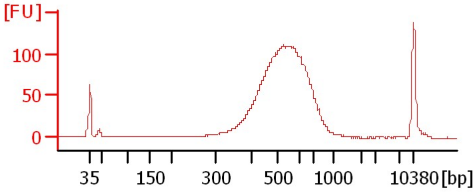
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy

Assay Class: High Sensitivity DNA Assay
Version: 1.03
Assay Comments: Copyright © 2003-2010 Agilent Technologies

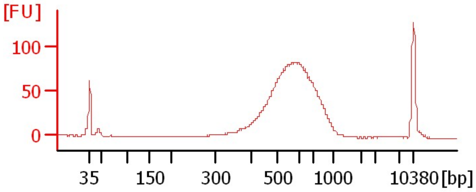
Chip Information:

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

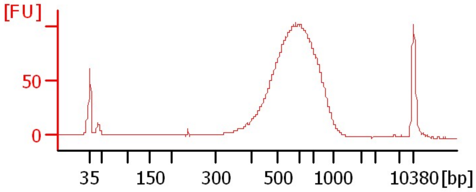
7: Wolf833A Library (1:3)
HiSeq_667



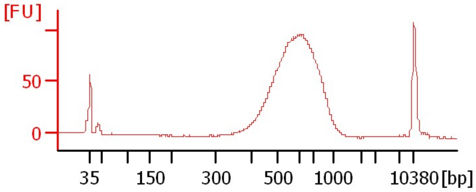
8: UCRNeo1A Library (1:3)
HiSeq_667



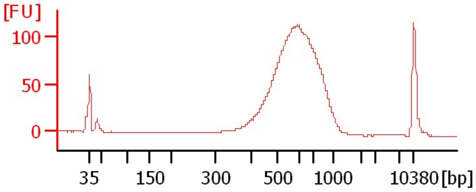
9: Wint817A Library (1:3)
HiSeq_667



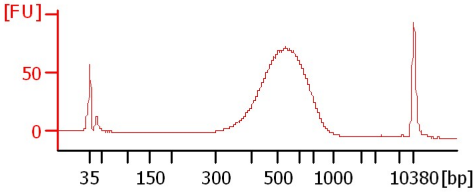
10: 06-135B Library (1:3)
HiSeq_667



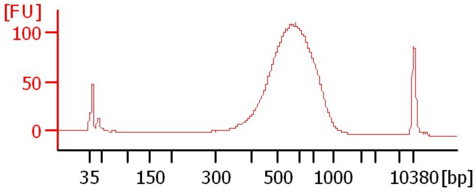
11: UCRLT5 Library (1:3)
HiSeq_667



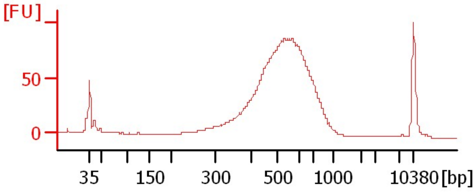
12: 09-C092 Library (1:2)
HiSeq_667



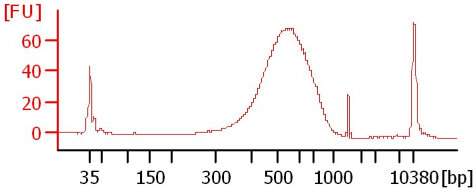
13: SBen820 Library (1:3)
HiSeq_667



14: 05-A04 Library (1:3)
HiSeq_667



15: UCRNA2 Library (1:3)
HiSeq_667



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...\data\2016-10-03\2016-10-03_004_HiSeq667_Libraries_7-15.xad

Created: 10/3/2016 2:57:23 PM
Modified: 10/3/2016 3:50:51 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
7: Wolf833A Library (1:3)	HiSeq_667	☐	✓			
8: UCRNeo1A Library (1:3)	HiSeq_667	☐	✓			
9: Wint817A Library (1:3)	HiSeq_667	☐	✓			
10: 06-135B Library (1:3)	HiSeq_667	☐	✓			
11: UCRLT5 Library (1:3)	HiSeq_667	☐	✓			
12: 09-C092 Library (1:2)	HiSeq_667	☐	✓			
13: SBen820 Library (1:3)	HiSeq_667	☐	✓			
14: 05-A04 Library (1:3)	HiSeq_667	☐	✓			
15: UCRNA2 Library (1:3)	HiSeq_667	☐	✓			
Ladder		☐	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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

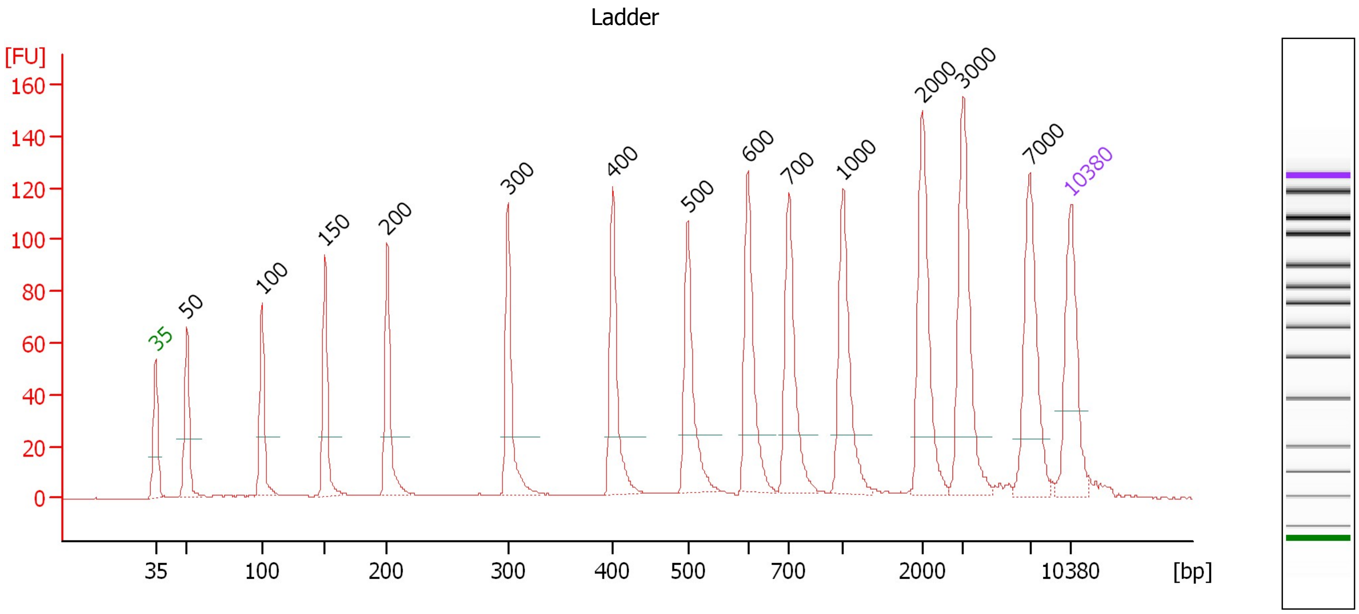
Ladder

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	Created:	10/3/2016 2:57:23 PM
Data Path:	C:\...\data\2016-10-03\2016-10-03_004_HiSeq667_Libraries_7-15.xad	Modified:	10/3/2016 3:50:51 PM

Electropherogram Summary

Ladder



Overall Results for Ladder

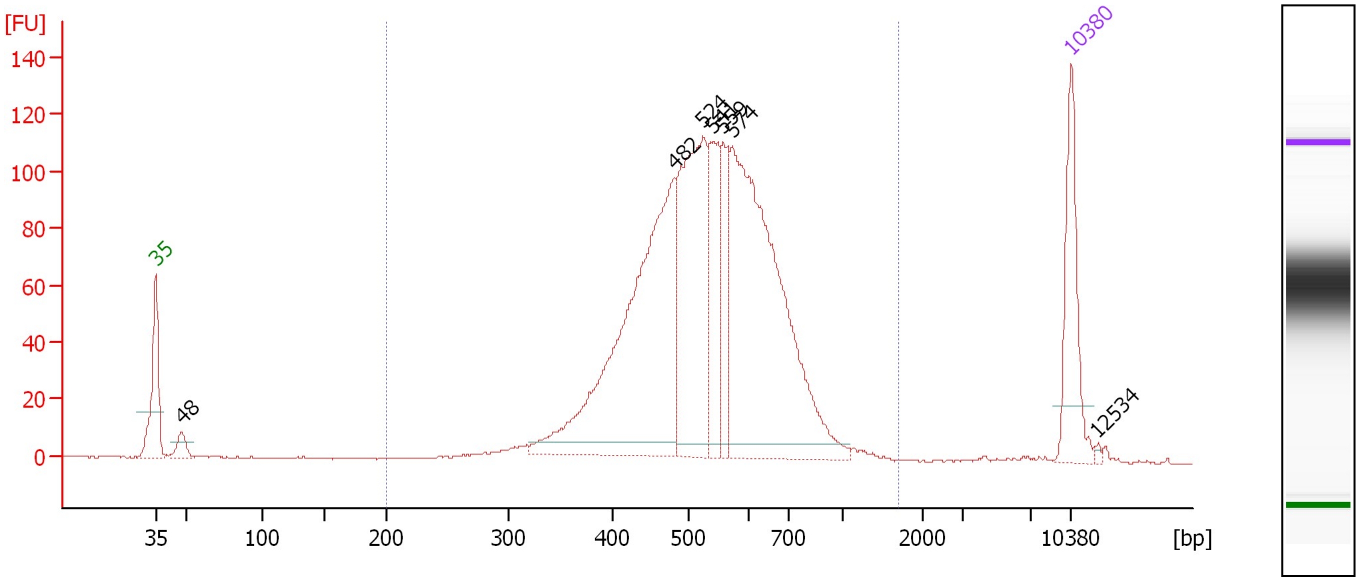
Noise: 0.2

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	L	50	150.00	4,545.5	Ladder Peak	45.40
3	L	100	150.00	2,272.7	Ladder Peak	51.10
4	L	150	150.00	1,515.2	Ladder Peak	55.95
5	L	200	150.00	1,136.4	Ladder Peak	60.70
6	L	300	150.00	757.6	Ladder Peak	69.95
7	L	400	150.00	568.2	Ladder Peak	77.95
8	L	500	150.00	454.5	Ladder Peak	83.70
9	L	600	150.00	378.8	Ladder Peak	88.30
10	L	700	150.00	324.7	Ladder Peak	91.45
11	L	1,000	150.00	227.3	Ladder Peak	95.55
12	L	2,000	150.00	113.6	Ladder Peak	101.60
13	L	3,000	150.00	75.8	Ladder Peak	104.75
14	L	7,000	150.00	32.5	Ladder Peak	109.85
15	▶	10,380	75.00	10.9	Upper Marker	113.00

Electropherogram Summary Continued ...

7: Wolf833A Library (1:3) [HiSeq_667]



Overall Results for sample 1 : **7: Wolf833A Library (1:3)**

Number of peaks found:	7	Corr. Area 1:	1,681.6
Noise:	0.2		

Peak table for sample 1 : **7: Wolf833A Library (1:3)**

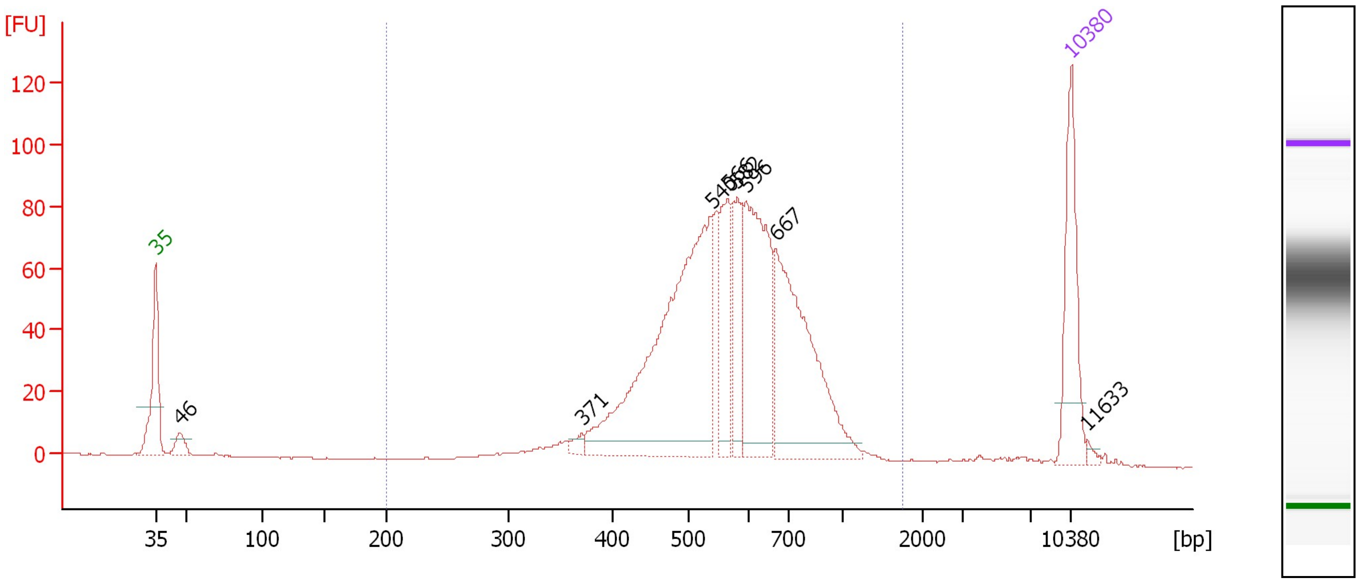
Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	◀	35	125.00	5,411.3	Lower Marker	43.00
2		48	19.49	621.1		45.01
3		482	440.20	1,382.4		82.69
4		524	250.58	724.7		84.80
5		541	100.27	280.6		85.60
6		559	66.33	179.8		86.41
7		574	437.57	1,154.9		87.11
8	▶	10,380	75.00	10.9	Upper Marker	113.00
9		12,534	0.00	0.0		115.01

Region table for sample 1 : **7: Wolf833A Library (1:3)**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color	Conc. [pg/µl]	% of Total	Size distribution in CV [%]
200	1,699	544	1,681.6	4,117.7	🟦	1,380.93	97	24.4

Electropherogram Summary Continued ...

8: UCRNeo1A Library (1:3) [HiSeq_667]



Overall Results for sample 2 : <u>8: UCRNeo1A Library (1:3)</u>

Number of peaks found:	8	Corr. Area 1:	1,164.0
Noise:	0.2		

Peak table for sample 2 : <u>8: UCRNeo1A Library (1:3)</u>

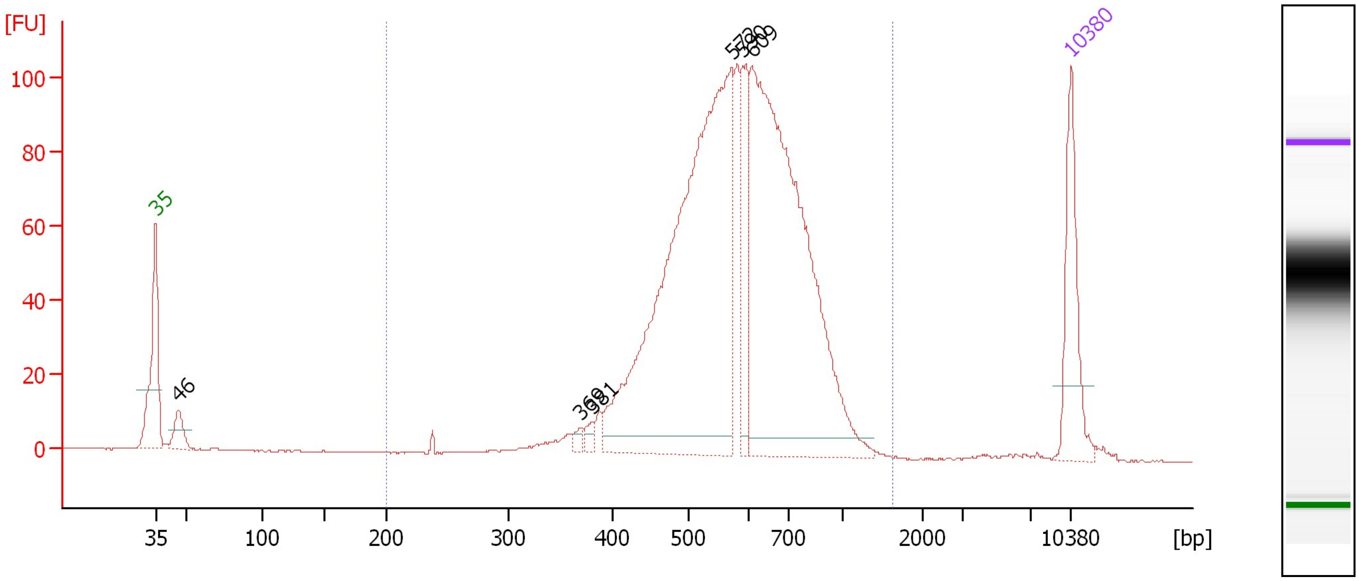
Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	◀	35	125.00	5,411.3	Lower Marker	43.00
2		46	19.75	644.7		44.83
3		371	8.18	33.4		75.64
4		540	380.67	1,068.2		85.54
5		566	76.33	204.2		86.76
6		582	62.88	163.7		87.47
7		596	175.58	446.2		88.13
8		667	215.64	489.8		90.41
9	▶	10,380	75.00	10.9	Upper Marker	113.00
10		11,633	0.00	0.0		114.17

Region table for sample 2 : <u>8: UCRNeo1A Library (1:3)</u>

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color	Conc. [pg/µl]	% of Total	Size distribution in CV [%]
200	1,758	591	1,164.0	2,888.6	🟦	1,049.14	97	25.0

Electropherogram Summary Continued ...

9: Wint817A Library (1:3) [HiSeq_667]



Overall Results for sample 3 : **9: Wint817A Library (1:3)**

Number of peaks found:	6	Corr. Area 1:	1,411.4
Noise:	0.2		

Peak table for sample 3 : **9: Wint817A Library (1:3)**

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		46	31.37	1,034.0		44.76
3		369	7.17	29.4		75.47
4		381	8.44	33.6		76.40
5		572	642.96	1,701.7		87.03
6		590	81.38	208.8		87.86
7		609	569.78	1,417.6		88.58
8	▶	10,380	75.00	10.9	Upper Marker	113.00

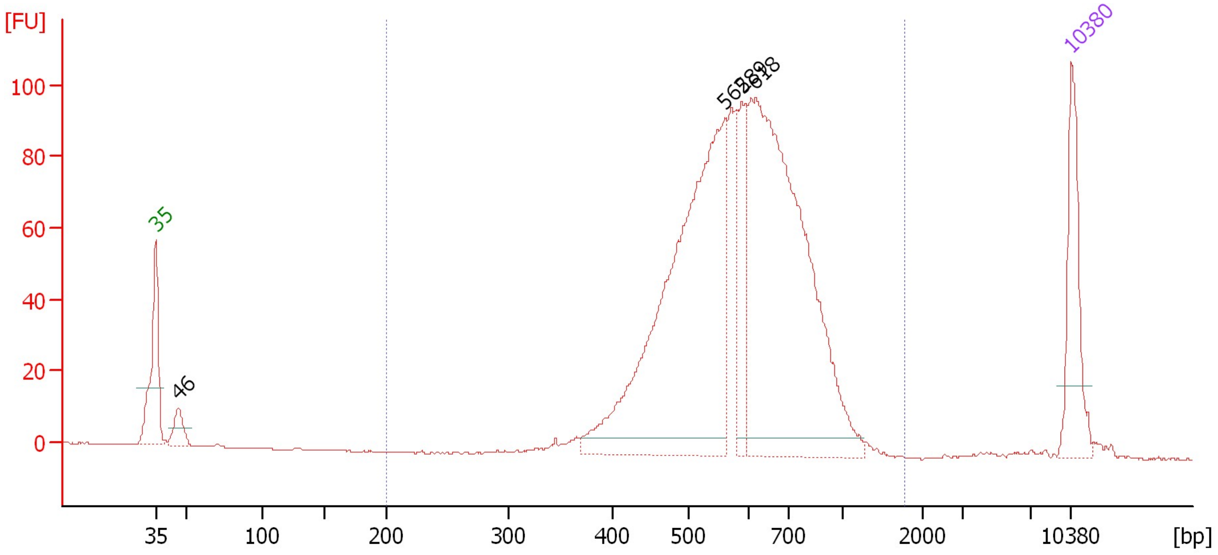
Region table for sample 3 : **9: Wint817A Library (1:3)**

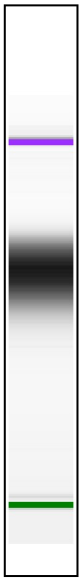
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color	Conc. [pg/µl]	% of Total	Size distribution in CV [%]
200	1,639	602	1,411.4	4,061.5	🟦	1,501.29	96	24.5

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...\data\2016-10-03\2016-10-03_004_HiSeq667_Libraries_7-15.xad
Created: 10/3/2016 2:57:23 PM
Modified: 10/3/2016 3:50:51 PM

Electropherogram Summary Continued ...

10: 06-135B Library (1:3) [HiSeq_667]





Overall Results for sample 4 : **10: 06-135B Library (1:3)**

Number of peaks found:	4	Corr. Area 1:	1,276.4
Noise:	0.2		

Peak table for sample 4 : **10: 06-135B Library (1:3)**

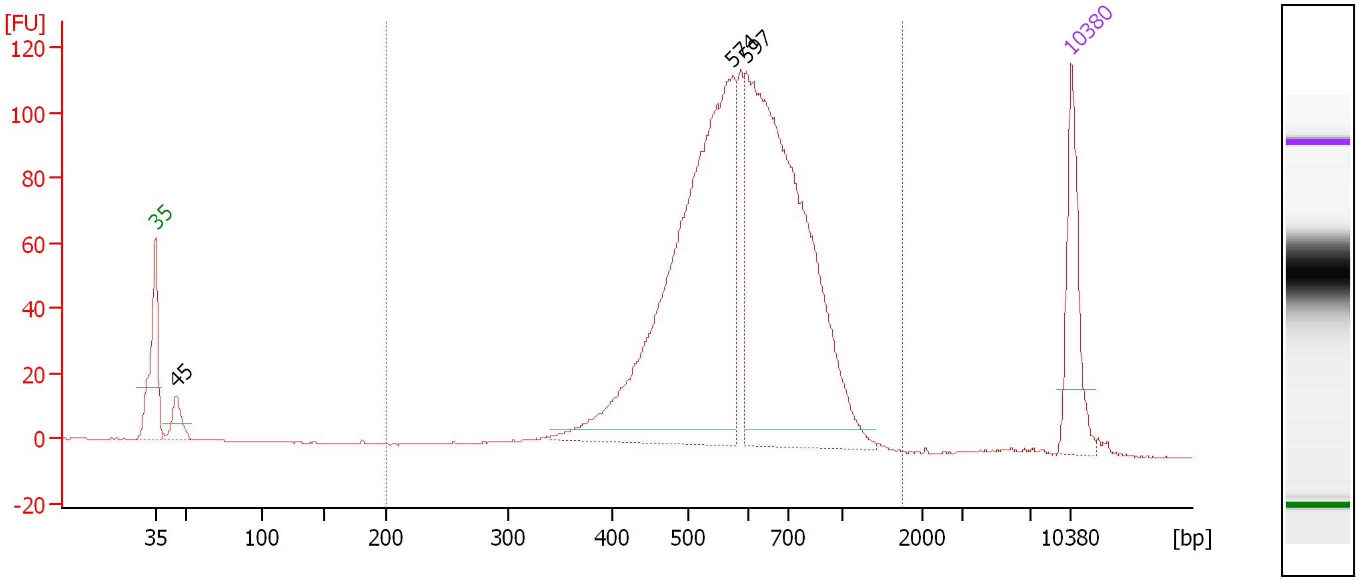
Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	◀	35	125.00	5,411.3	Lower Marker	43.00
2		46	30.43	1,005.6		44.74
3		562	540.01	1,456.2		86.55
4		589	78.81	202.6		87.81
5		618	543.15	1,332.1		88.86
6	▶	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 4 : **10: 06-135B Library (1:3)**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color	Conc. [pg/µl]	% of Total	Size distribution in CV [%]
200	1,780	611	1,276.4	3,350.1	🟦	1,272.79	97	23.1

Electropherogram Summary Continued ...

11: UCRLT5 Library (1:3) [HiSeq_667]



Overall Results for sample 5 : **11: UCRLT5 Library (1:3)**

Number of peaks found:	3	Corr. Area 1:	1,526.2
Noise:	0.2		

Peak table for sample 5 : **11: UCRLT5 Library (1:3)**

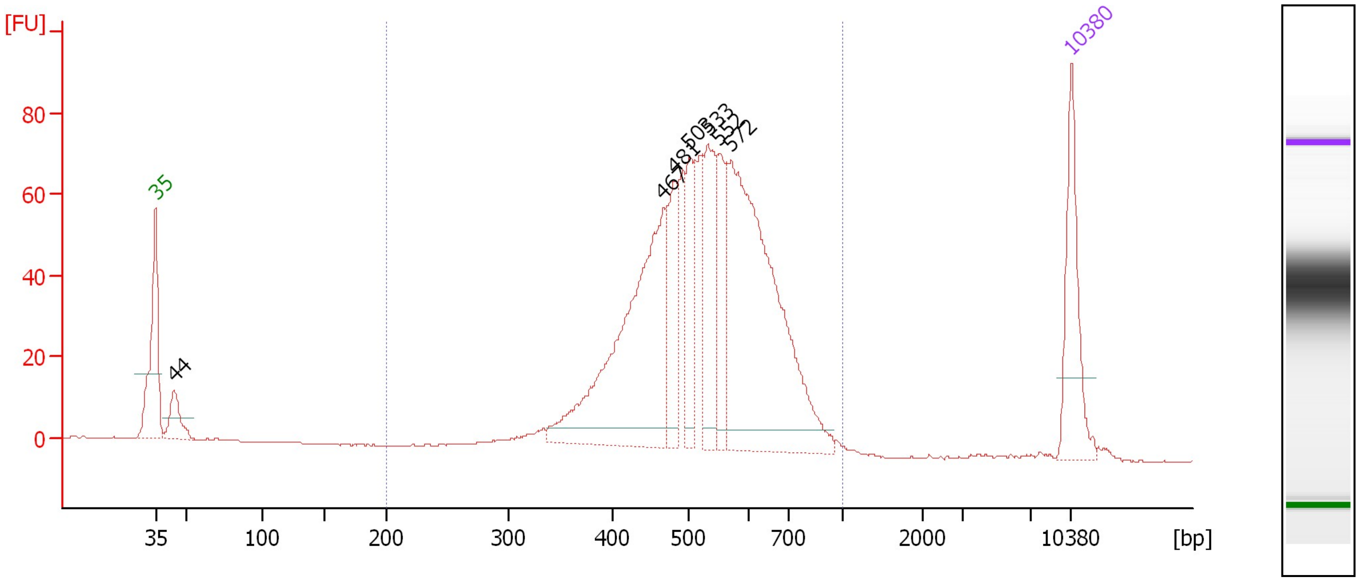
Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	◀	35	125.00	5,411.3	Lower Marker	43.00
2		45	36.75	1,237.0		44.60
3		574	616.60	1,627.6		87.10
4		597	603.01	1,529.9		88.17
5	▶	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 5 : **11: UCRLT5 Library (1:3)**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color	Conc. [pg/µl]	% of Total	Size distribution in CV [%]
200	1,749	615	1,526.2	3,730.6	🟦	1,400.62	96	26.0

Electropherogram Summary Continued ...

12: 09-C092 Library (1:2) [HiSeq_667]



Overall Results for sample 6 : 12: 09-C092 Library (1:2)

Number of peaks found:	7	Corr. Area 1:	1,021.8
Noise:	0.2		

Peak table for sample 6 : 12: 09-C092 Library (1:2)

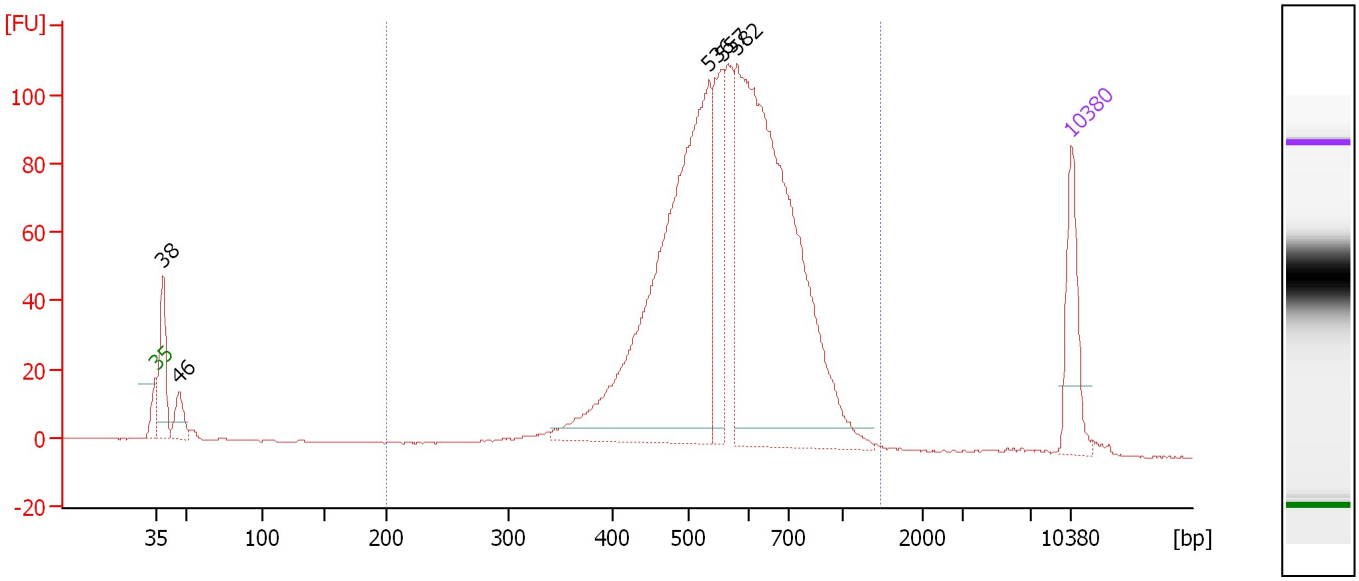
Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	◀	35	125.00	5,411.3	Lower Marker	43.00
2		44	43.34	1,487.7		44.46
3		467	326.74	1,059.5		81.82
4		481	78.21	246.2		82.63
5		503	69.34	209.0		83.82
6		533	106.24	301.9		85.23
7		552	70.91	194.6		86.09
8		572	382.93	1,014.3		87.01
9	▶	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 6 : 12: 09-C092 Library (1:2)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color	Conc. [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	533	1,021.8	3,570.1	🟦	1,193.20	97	19.7

Electropherogram Summary Continued ...

13: SBen820 Library (1:3) [HiSeq_667]



Overall Results for sample 7 : **13: SBen820 Library (1:3)**

Number of peaks found:	5	Corr. Area 1:	1,510.6
Noise:	0.2		

Peak table for sample 7 : **13: SBen820 Library (1:3)**

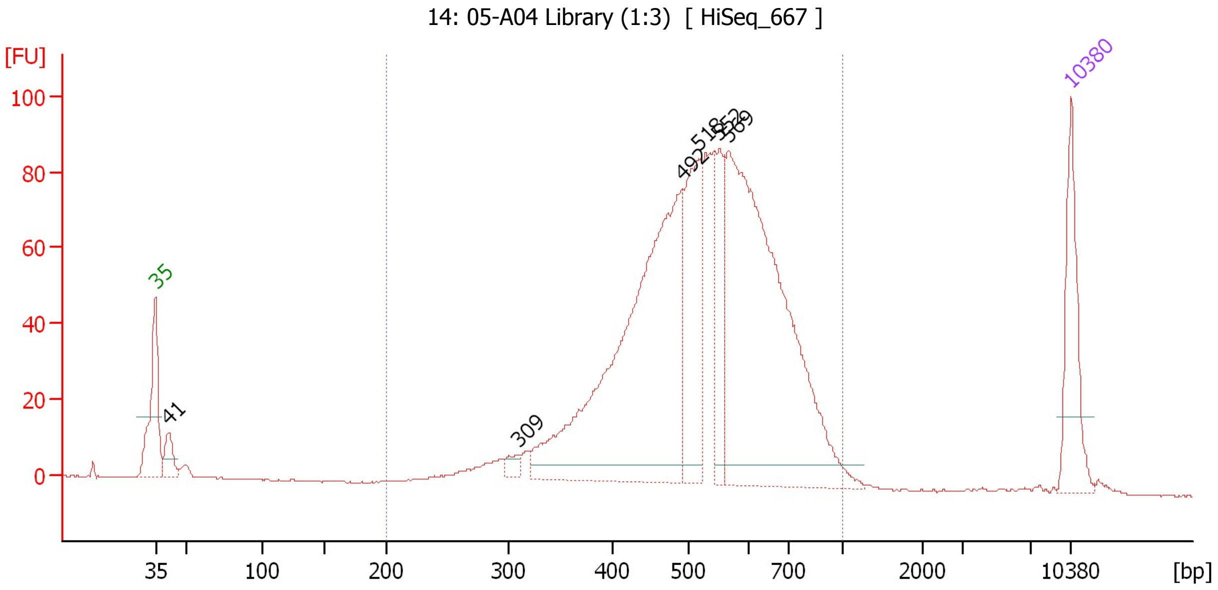
Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	◀	35	125.00	5,411.3	Lower Marker	43.00
2		38	116.53	4,595.3		43.55
3		46	45.97	1,504.4		44.81
4		536	716.75	2,027.5		85.34
5		557	132.86	361.4		86.33
6		582	784.36	2,041.7		87.48
7	▶	10,380	75.00	10.9	Upper Marker	113.00

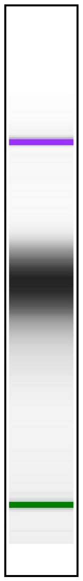
Region table for sample 7 : **13: SBen820 Library (1:3)**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color	Conc. [pg/µl]	% of Total	Size distribution in CV [%]
200	1,482	583	1,510.6	5,338.0	■	1,902.83	91	24.5

Electropherogram Summary Continued ...

14: 05-A04 Library (1:3) [HiSeq_667]





Overall Results for sample 8 : **14: 05-A04 Library (1:3)**

Number of peaks found:	6	Corr. Area 1:	1,353.4
Noise:	0.2		

Peak table for sample 8 : **14: 05-A04 Library (1:3)**

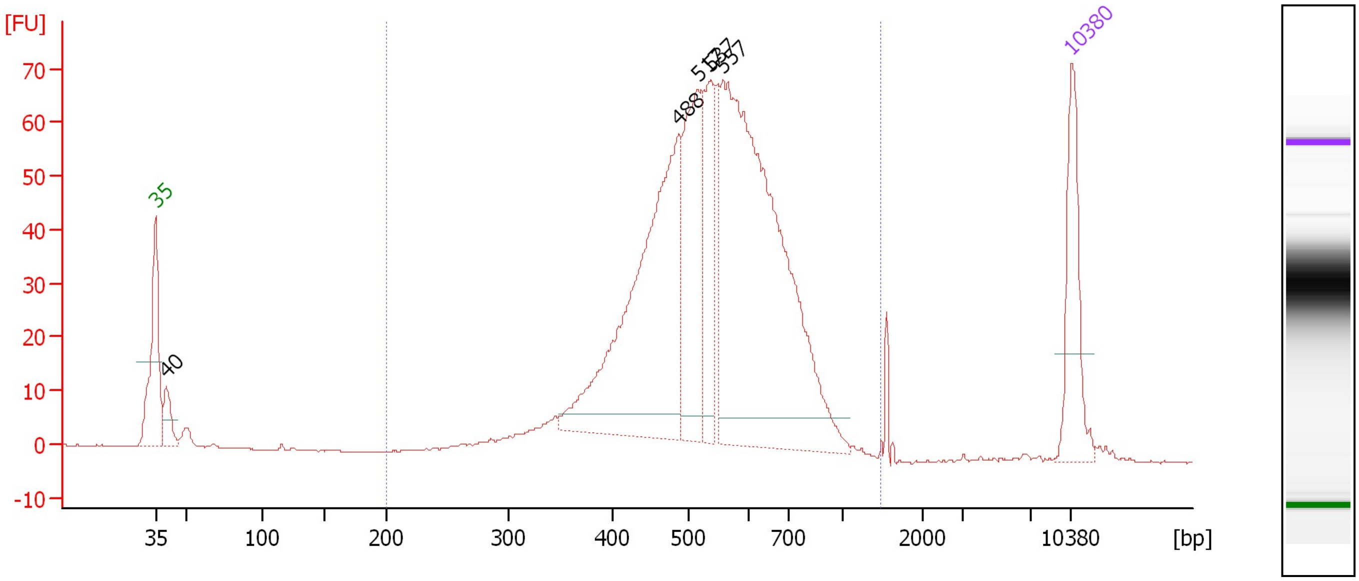
Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	◀	35	125.00	5,411.3	Lower Marker	43.00
2		41	33.44	1,226.8		44.01
3		309	11.80	57.8		70.70
4		492	560.55	1,726.8		83.23
5		518	151.93	444.6		84.52
6		552	79.77	219.0		86.09
7		569	548.76	1,461.5		86.87
8	▶	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 8 : **14: 05-A04 Library (1:3)**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color	Conc. [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	535	1,353.4	4,781.9	🟦	1,560.07	97	23.3

Electropherogram Summary Continued ...

15: UCRNA2 Library (1:3) [HiSeq_667]



Overall Results for sample 9 : 15: UCRNA2 Library (1:3)

Number of peaks found:	5	Corr. Area 1:	961.5
Noise:	0.1		

Peak table for sample 9 : 15: UCRNA2 Library (1:3)

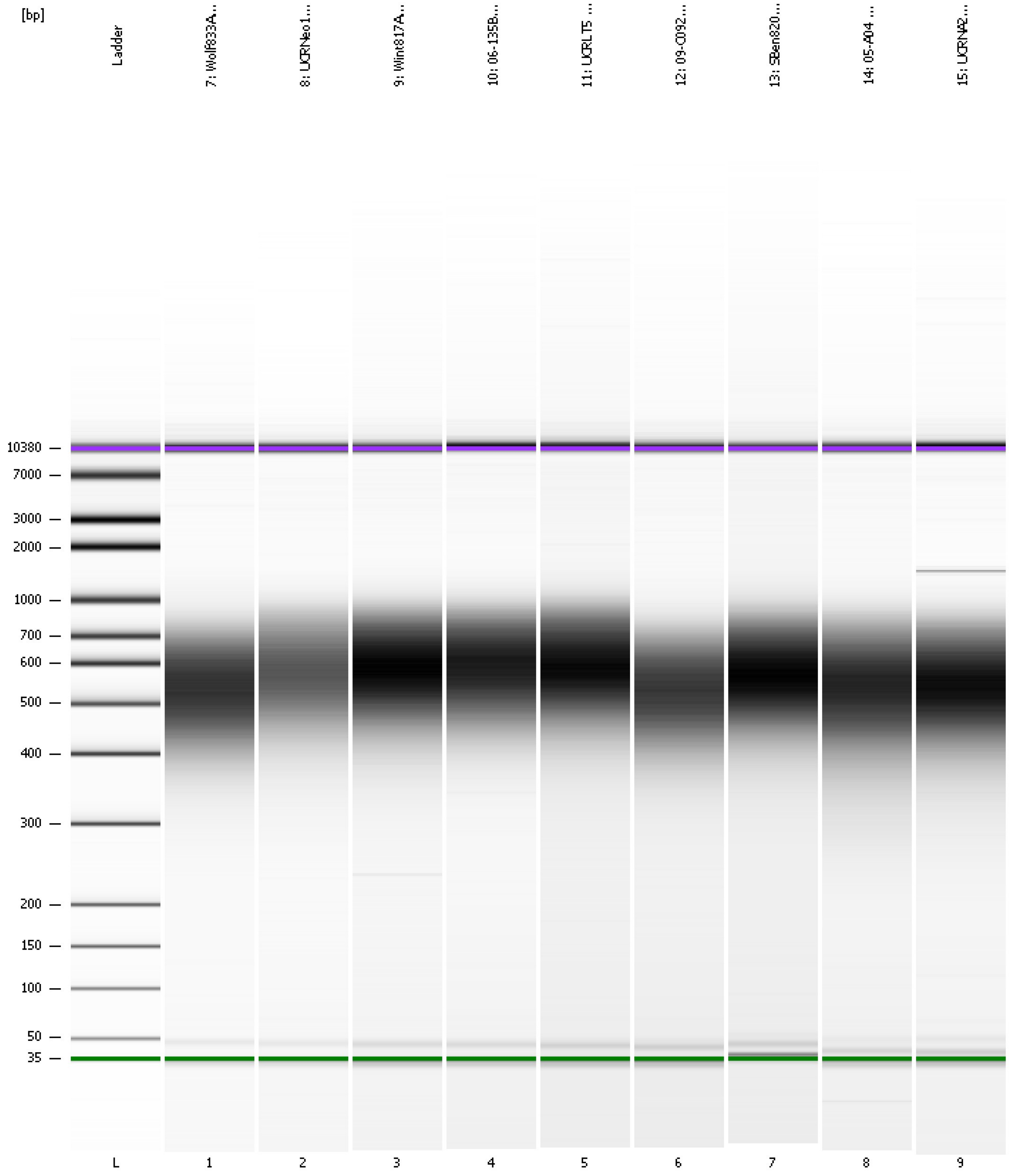
Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	◀	35	125.00	5,411.3	Lower Marker	43.00
2		40	35.33	1,328.4		43.85
3		488	404.81	1,255.9		83.03
4		517	167.59	490.7		84.50
5		537	105.40	297.3		85.41
6		557	575.39	1,565.8		86.31
7	▶	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 9 : 15: UCRNA2 Library (1:3)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color	Conc. [pg/µl]	% of Total	Size distribution in CV [%]
200	1,480	548	961.5	4,217.5	■	1,425.72	96	22.6

Assay Class:	High Sensitivity DNA Assay	Created:	10/3/2016 2:57:23 PM
Data Path:	C:\...\data\2016-10-03\2016-10-03_004_HiSeq667_Libraries_7-15.xad	Modified:	10/3/2016 3:50:51 PM

Gel Image



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		10/3/2016 3:38:40 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\2016-10-03\2016-10-03_004.xad)		Instrument	Run		10/3/2016 2:57:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/3/2016 2:57:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/3/2016 2:57:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/3/2016 2:57:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/3/2016 2:57:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/3/2016 2:57:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/3/2016 2:57:28 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1