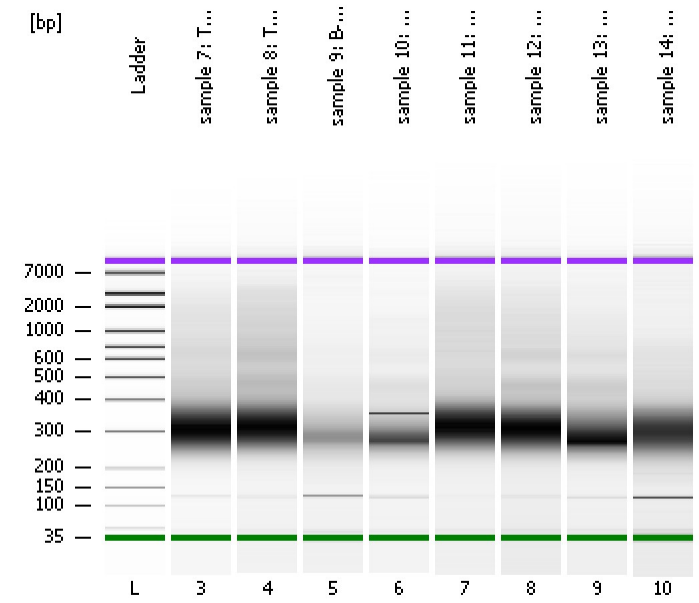
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...lyzer\2015-10-05\2015-10-05_002_HiSeq224_Libraries_7-14.xad

Created: 10/5/2015 2:23:41 PM
Modified: 10/5/2015 3:10:53 PM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

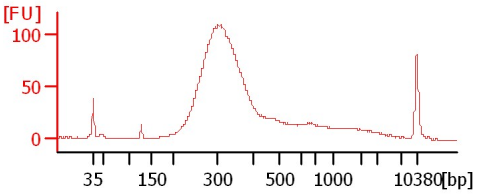
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy

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

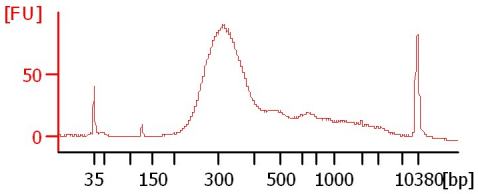
Chip Information:

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

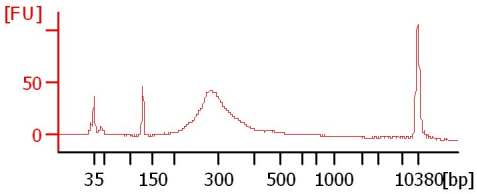
sample 7: Tcf1_Wnts3a-3
HiSeq 224 library



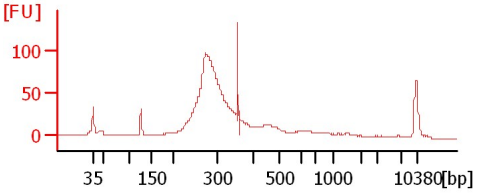
sample 8: Tcf1_Wnts3a-4
HiSeq 224 library



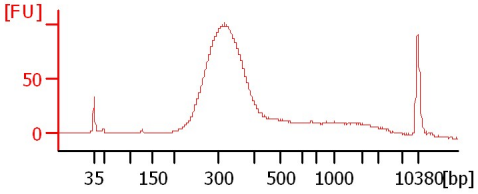
sample 9: B-Cat_Ctrl-1
HiSeq 224 library



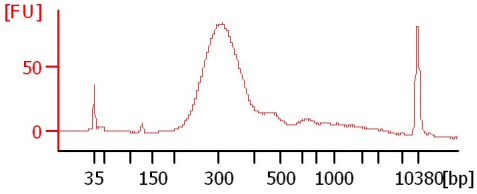
sample 10: B-Cat_Ctrl-2
HiSeq 224 library



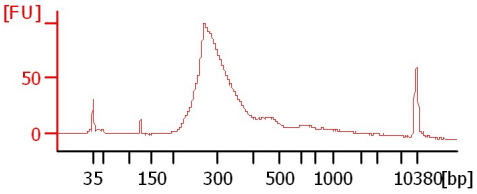
sample 11: B-Cat_Ctrl-3
HiSeq 224 library



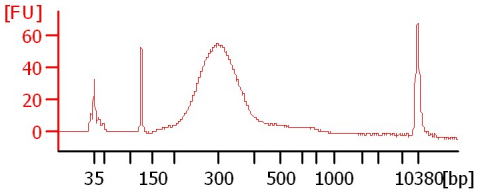
sample 12: B-Cat_Ctrl-4
HiSeq 224 library



sample 13: B-Cat_Wnt3a-1
HiSeq 224 library



sample 14: B-Cat_Wnt3a-2
HiSeq 224 library



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...lyzer\2015-10-05\2015-10-05_002_HiSeq224_Libraries_7-14.xad

Created: 10/5/2015 2:23:41 PM
Modified: 10/5/2015 3:10:53 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 7: Tcf1_Wnts3a-3	HiSeq 224 library	☐	✔			
sample 8: Tcf1_Wnts3a-4	HiSeq 224 library	☐	✔			
sample 9: B-Cat_Ctrl-1	HiSeq 224 library	☐	✔			
sample 10: B-Cat_Ctrl-2	HiSeq 224 library	☐	✔			
sample 11: B-Cat_Ctrl-3	HiSeq 224 library	☐	✔			
sample 12: B-Cat_Ctrl-4	HiSeq 224 library	☐	✔			
sample 13: B-Cat_Wnt3a-1	HiSeq 224 library	☐	✔			
sample 14: B-Cat_Wnt3a-2	HiSeq 224 library	☐	✔			
Ladder		☐	✔			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...lyzer\2015-10-05\2015-10-05_002_HiSeq224_Libraries_7-14.xad

Created: 10/5/2015 2:23:41 PM
Modified: 10/5/2015 3:10:53 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

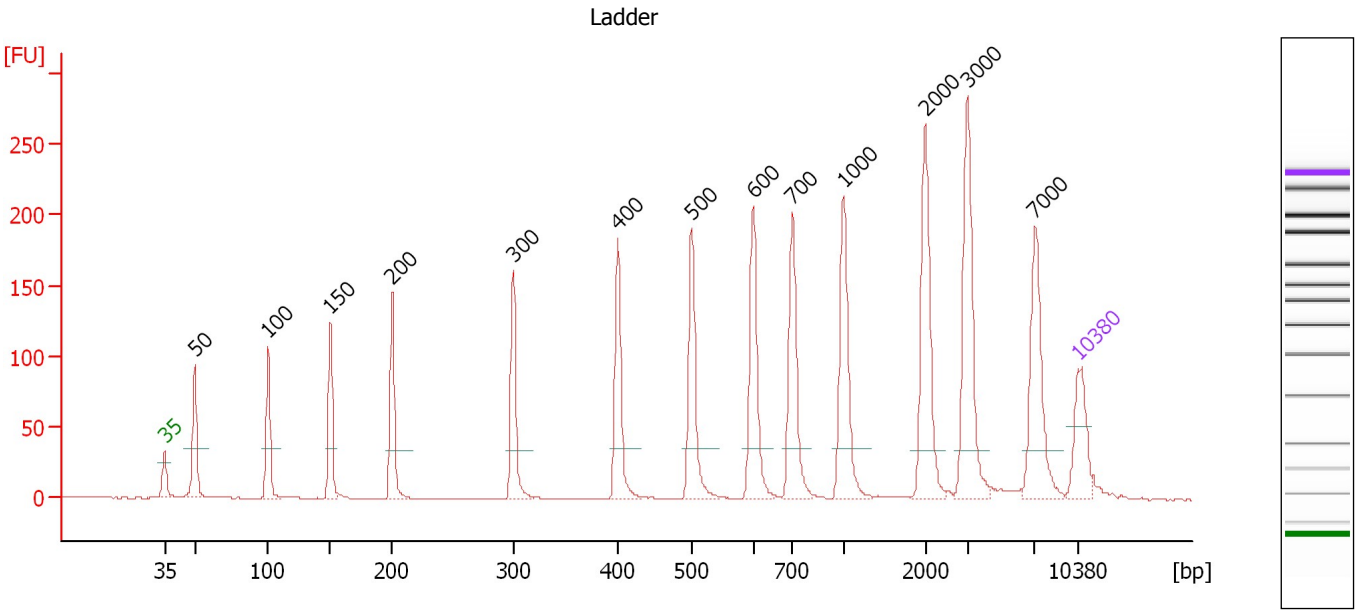
Ladder

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:\...lyzer\2015-10-05\2015-10-05_002_HiSeq224_Libraries_7-14.xad

Created: 10/5/2015 2:23:41 PM
Modified: 10/5/2015 3:10:53 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

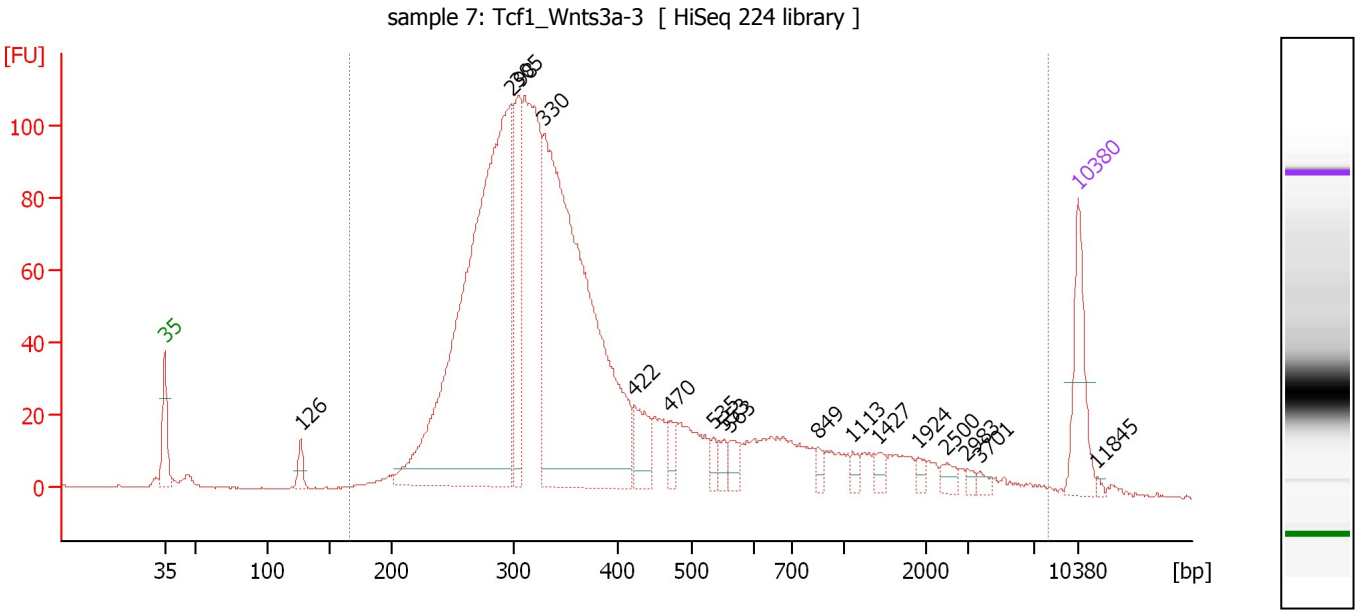
Peak table for Ladder

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	45.30
3		100	150.00	2,272.7	Ladder Peak	50.96
4		150	150.00	1,515.2	Ladder Peak	55.70
5		200	150.00	1,136.4	Ladder Peak	60.44
6		300	150.00	757.6	Ladder Peak	69.74
7		400	150.00	568.2	Ladder Peak	77.75
8		500	150.00	454.5	Ladder Peak	83.41
9		600	150.00	378.8	Ladder Peak	88.10
10		700	150.00	324.7	Ladder Peak	91.09
11		1,000	150.00	227.3	Ladder Peak	95.01
12		2,000	150.00	113.6	Ladder Peak	101.26
13		3,000	150.00	75.8	Ladder Peak	104.53
14		7,000	150.00	32.5	Ladder Peak	109.69
15		10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...lyzer\2015-10-05\2015-10-05_002_HiSeq224_Libraries_7-14.xad

Created: 10/5/2015 2:23:41 PM
Modified: 10/5/2015 3:10:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 7: Tcf1_Wnts3a-3

Number of peaks found:	17	Corr. Area 1:	2,074.9
Noise:	0.2		

Peak table for sample 3 : sample 7: Tcf1_Wnts3a-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	126	24.35	292.6		53.44
3	298	1,090.89	5,552.1		69.53
4	305	166.40	827.9		70.10
5	330	926.70	4,259.7		72.11
6	422	57.66	206.9		79.01
7	470	21.92	70.6		81.73
8	535	15.26	43.2		85.04
9	553	16.61	45.5		85.90
10	563	19.50	52.5		86.38
11	849	11.73	20.9		93.03
12	1,113	11.36	15.5		95.72
13	1,427	13.52	14.3		97.68
14	1,924	9.26	7.3		100.79
15	2,500	12.31	7.5		102.90
16	2,983	6.38	3.2		104.48
17	3,701	6.59	2.7		105.44
18	10,380	75.00	10.9	Upper Marker	113.00
19	11,845	0.00	0.0		114.44

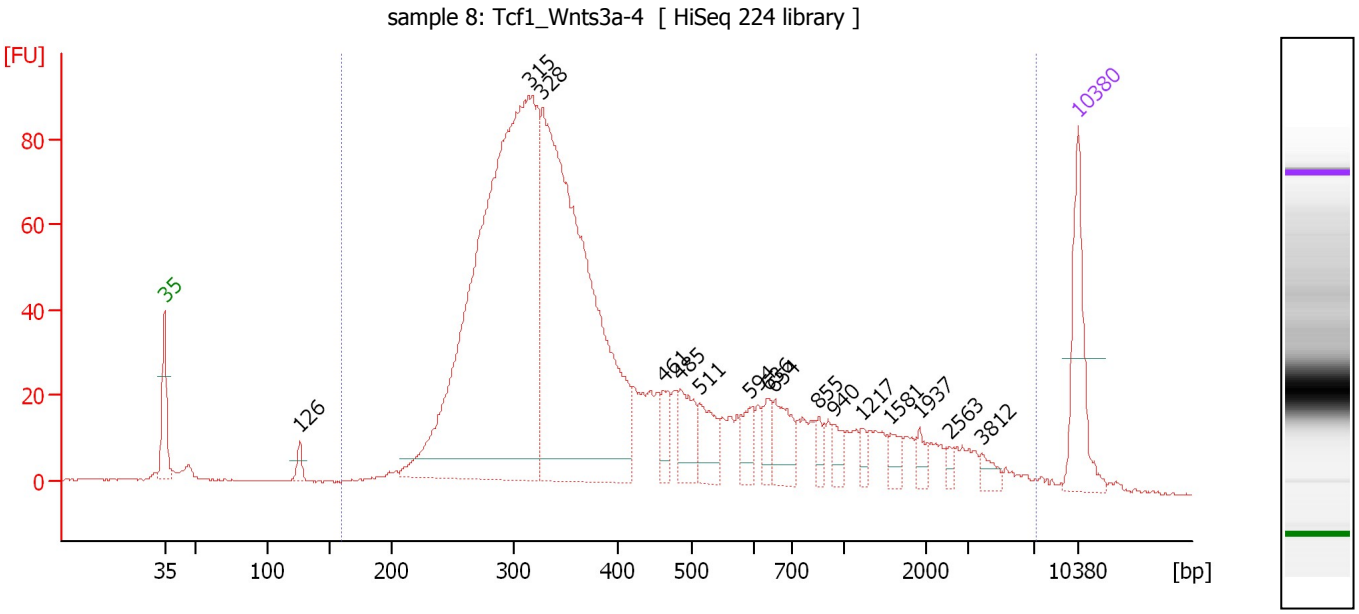
Region table for sample 3 : sample 7: Tcf1_Wnts3a-3

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
166	8,037	544	2,074.9	14,763.3	3,282.87	98	100.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...lyzer\2015-10-05\2015-10-05_002_HiSeq224_Libraries_7-14.xad

Created: 10/5/2015 2:23:41 PM
Modified: 10/5/2015 3:10:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 8: Tcf1_Wnts3a-4

Number of peaks found:	16	Corr. Area 1:	1,850.3
Noise:	0.2		

Peak table for sample 4 : sample 8: Tcf1_Wnts3a-4

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	126	16.50	199.2		53.38
3	315	1,096.97	5,276.1		70.94
4	328	785.04	3,629.2		71.96
5	461	28.88	94.8		81.23
6	485	52.23	163.3		82.54
7	511	46.45	137.6		83.94
8	594	27.16	69.3		87.82
9	636	20.77	49.5		89.18
10	654	46.66	108.1		89.72
11	855	12.97	23.0		93.11
12	940	14.47	23.3		94.23
13	1,217	10.05	12.5		96.36
14	1,581	15.80	15.1		98.64
15	1,937	11.33	8.9		100.87
16	2,563	6.26	3.7		103.10
17	3,812	10.84	4.3		105.58
18	10,380	75.00	10.9	Upper Marker	113.00

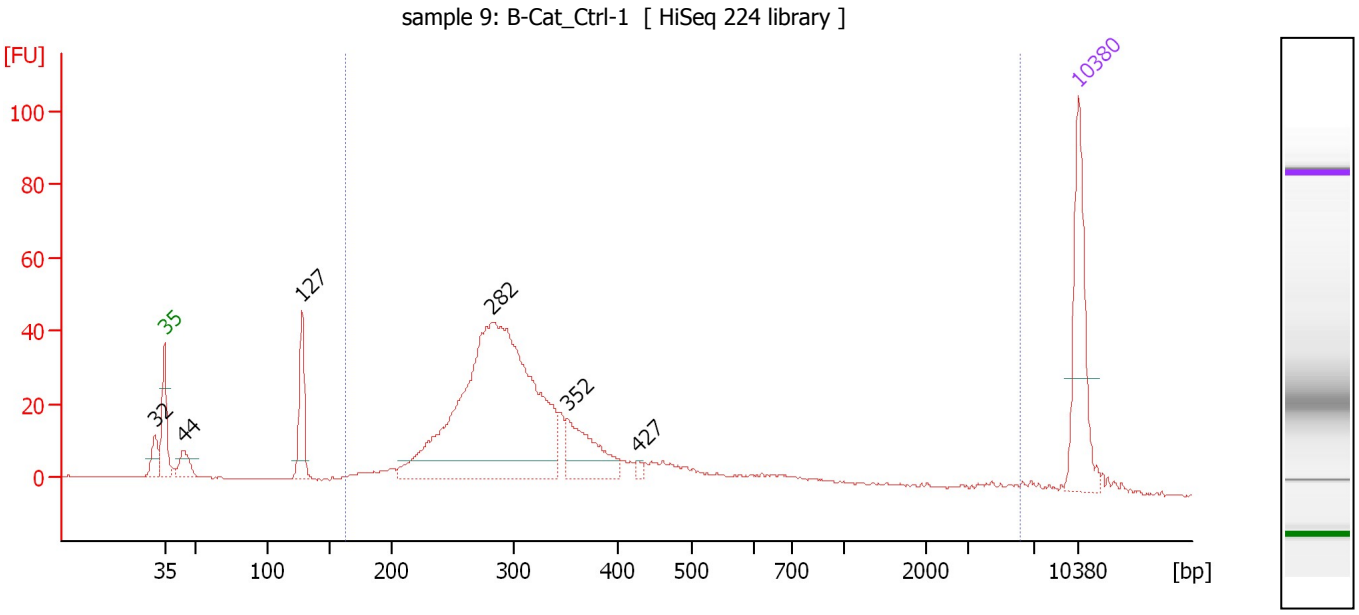
Region table for sample 4 : sample 8: Tcf1_Wnts3a-4

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
159	7,034	616	1,850.3	11,245.8	2,644.65	97	100.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...lyzer\2015-10-05\2015-10-05_002_HiSeq224_Libraries_7-14.xad

Created: 10/5/2015 2:23:41 PM
Modified: 10/5/2015 3:10:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 9: B-Cat_Ctrl-1

Number of peaks found:	6	Corr. Area 1:	700.7
Noise:	0.1		

Peak table for sample 5 : sample 9: B-Cat_Ctrl-1

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.26
2	35	125.00	5,411.3	Lower Marker	43.00
3	44	26.62	911.2		44.42
4	127	64.28	765.7		53.54
5	282	557.95	2,999.7		68.05
6	352	69.83	300.8		73.88
7	427	4.36	15.5		79.27
8	10,380	75.00	10.9	Upper Marker	113.00

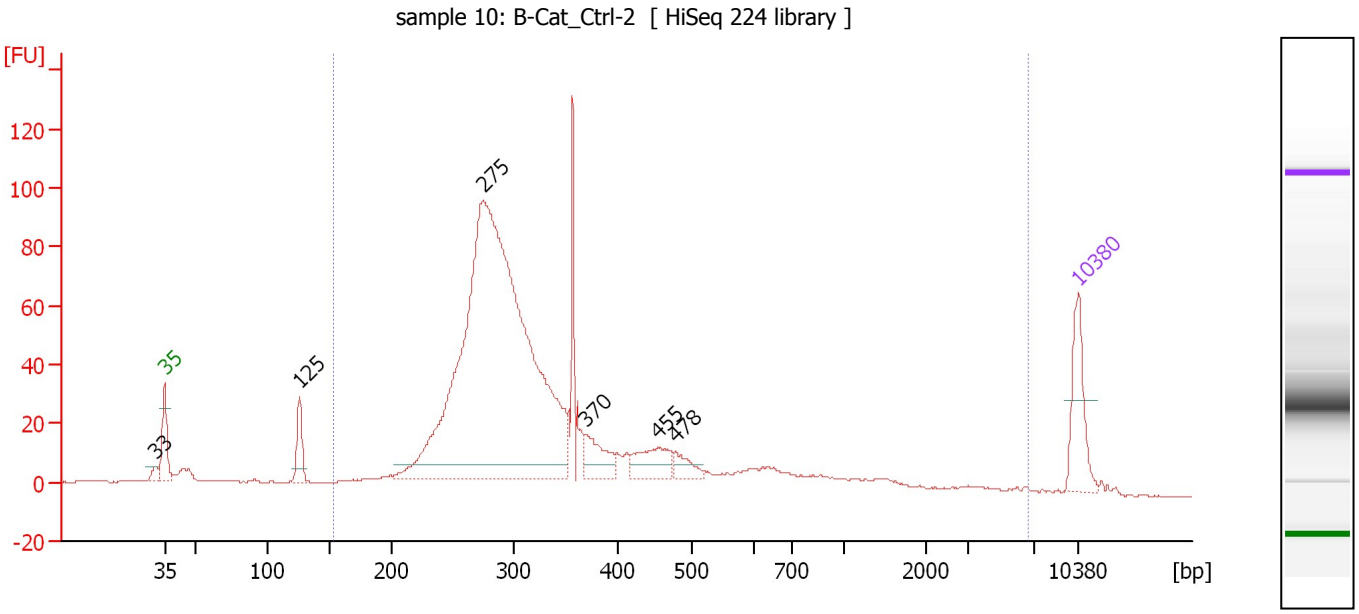
Region table for sample 5 : sample 9: B-Cat_Ctrl-1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
162	6,168	481	700.7	4,151.5	848.66	85	100.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...lyzer\2015-10-05\2015-10-05_002_HiSeq224_Libraries_7-14.xad

Created: 10/5/2015 2:23:41 PM
Modified: 10/5/2015 3:10:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : sample 10: B-Cat_Ctrl-2

Number of peaks found:	6	Corr. Area 1:	1,253.2
Noise:	0.2		

Peak table for sample 6 : sample 10: B-Cat_Ctrl-2

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.31
2	35	125.00	5,411.3	Lower Marker	43.00
3	125	60.20	729.4		53.34
4	275	1,636.67	9,017.0		67.42
5	370	62.31	255.2		75.34
6	455	65.78	219.1		80.86
7	478	29.74	94.4		82.14
8	10,380	75.00	10.9	Upper Marker	113.00

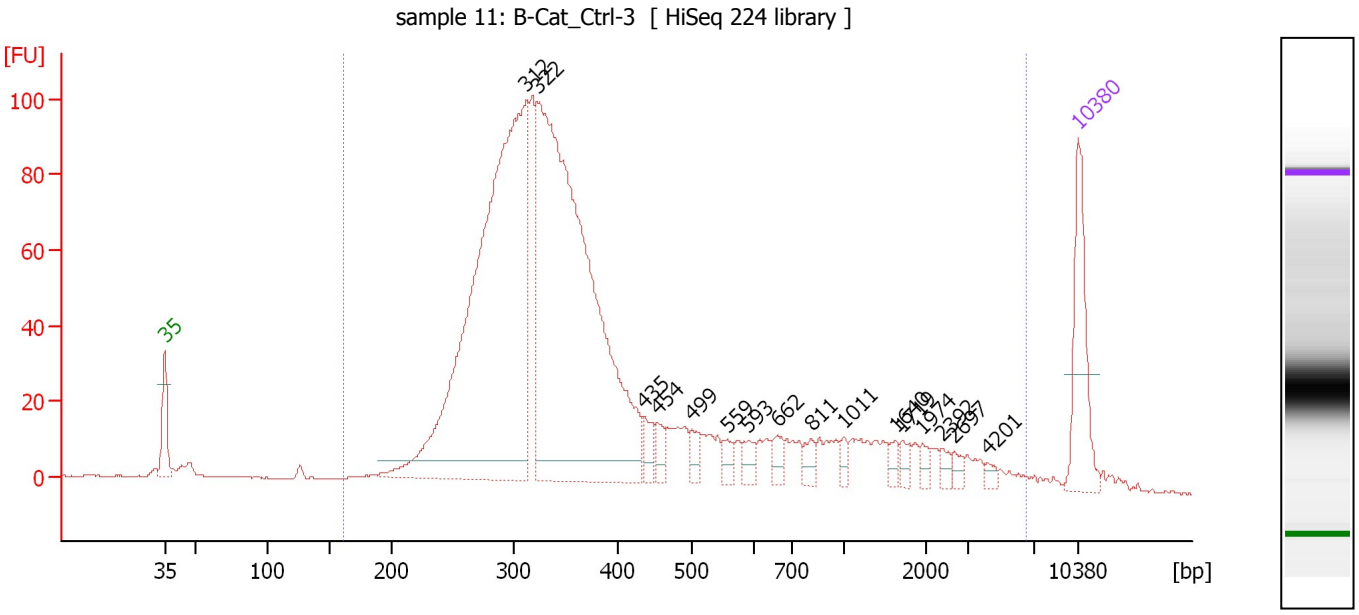
Region table for sample 6 : sample 10: B-Cat_Ctrl-2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
153	6,628	446	1,253.2	11,238.4	2,305.51	93	100.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...lyzer\2015-10-05\2015-10-05_002_HiSeq224_Libraries_7-14.xad

Created: 10/5/2015 2:23:41 PM
Modified: 10/5/2015 3:10:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 11: B-Cat_Ctrl-3

Number of peaks found:	16	Corr. Area 1:	1,872.4
Noise:	0.2		

Peak table for sample 7 : sample 11: B-Cat_Ctrl-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	312	885.10	4,292.9		70.73
3	322	901.95	4,239.6		71.53
4	435	21.73	75.6		79.74
5	454	18.76	62.6		80.79
6	499	17.34	52.6		83.38
7	559	13.08	35.5		86.17
8	593	15.37	39.3		87.76
9	662	14.57	33.4		89.95
10	811	14.08	26.3		92.54
11	1,011	9.49	14.2		95.08
12	1,640	9.25	8.5		99.01
13	1,719	9.04	8.0		99.51
14	1,974	8.61	6.6		101.10
15	2,392	8.53	5.4		102.54
16	2,697	7.23	4.1		103.54
17	4,201	5.90	2.1		106.08
18	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 7 : sample 11: B-Cat_Ctrl-3

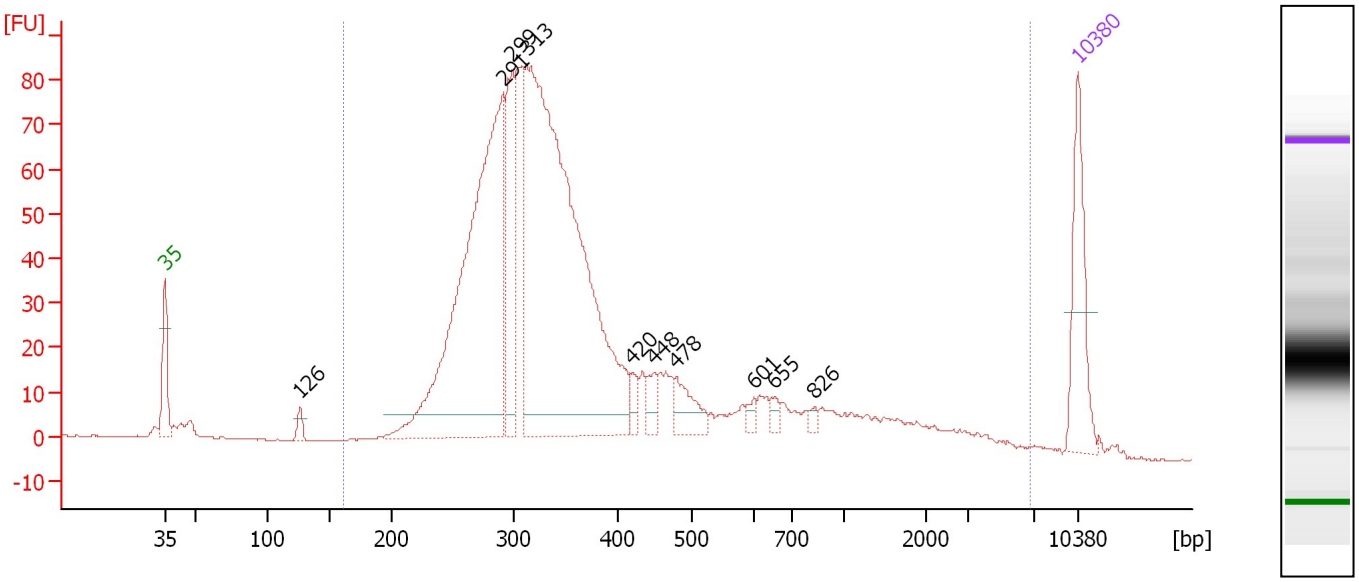
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
161	6,520	585	1,872.4	10,542.2	2,411.92	96	100.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...lyzer\2015-10-05\2015-10-05_002_HiSeq224_Libraries_7-14.xad

Created: 10/5/2015 2:23:41 PM
Modified: 10/5/2015 3:10:53 PM

Electropherogram Summary Continued ...

sample 12: B-Cat_Ctrl-4 [HiSeq 224 library]



Overall Results for sample 8 : sample 12: B-Cat_Ctrl-4

Number of peaks found:	10	Corr. Area 1:	1,504.8
Noise:	0.2		

Peak table for sample 8 : sample 12: B-Cat_Ctrl-4

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	126	13.18	158.7		53.41
3	291	613.20	3,190.9		68.92
4	299	148.19	750.3		69.67
5	313	881.98	4,271.2		70.77
6	420	15.92	57.4		78.88
7	448	19.04	64.4		80.48
8	478	37.49	118.8		82.18
9	601	8.12	20.5		88.13
10	655	8.48	19.6		89.73
11	826	5.39	9.9		92.74
12	10,380	75.00	10.9	Upper Marker	113.00

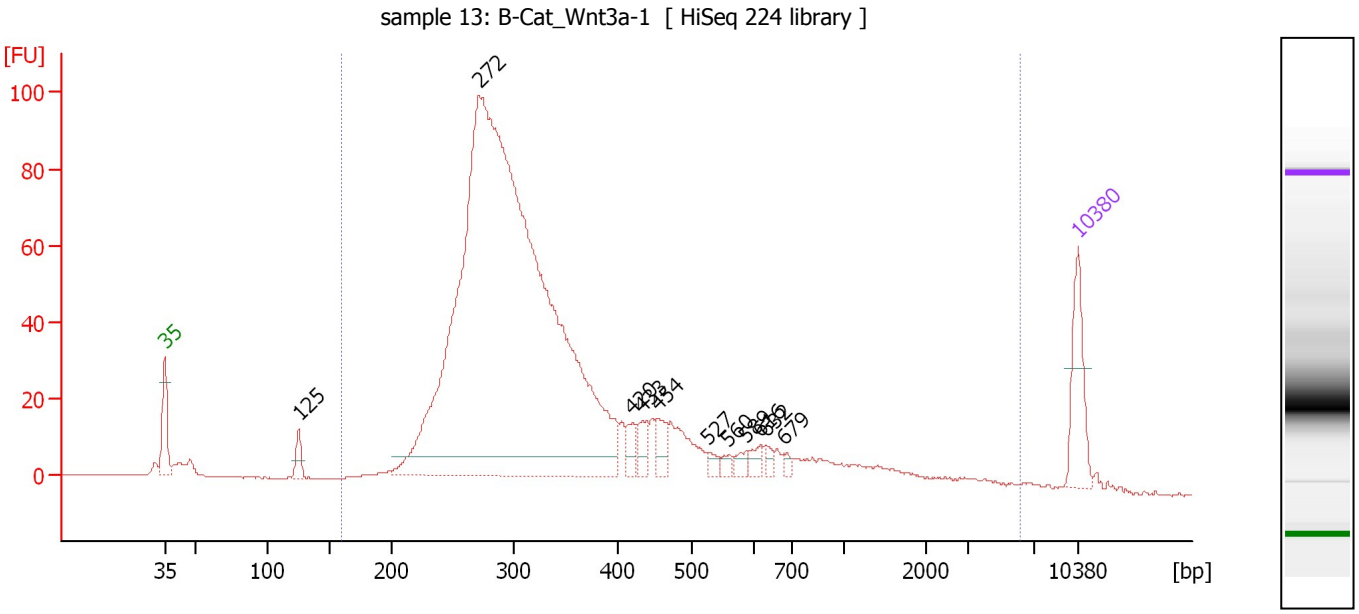
Region table for sample 8 : sample 12: B-Cat_Ctrl-4

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/µl]	% of Total	Size distribution in CV [%]
161	6,737	525	1,504.8	10,082.8	2,239.91	97	100.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...lyzer\2015-10-05\2015-10-05_002_HiSeq224_Libraries_7-14.xad

Created: 10/5/2015 2:23:41 PM
Modified: 10/5/2015 3:10:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : sample 13: B-Cat_Wnt3a-1

Number of peaks found:	11	Corr. Area 1:	1,460.7
Noise:	0.2		

Peak table for sample 9 : sample 13: B-Cat_Wnt3a-1

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	125	32.06	389.9		53.29
3	272	2,658.28	14,826.8		67.10
4	420	24.79	89.5		78.85
5	433	27.22	95.3		79.61
6	454	35.09	117.1		80.81
7	527	12.19	35.0		84.68
8	560	11.13	30.1		86.24
9	589	13.28	34.2		87.59
10	616	15.61	38.4		88.60
11	632	11.52	27.6		89.05
12	679	8.46	18.9		90.45
13	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 9 : sample 13: B-Cat_Wnt3a-1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
160	6,125	452	1,460.7	15,124.2	3,167.55	96	100.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...lyzer\2015-10-05\2015-10-05_002_HiSeq224_Libraries_7-14.xad

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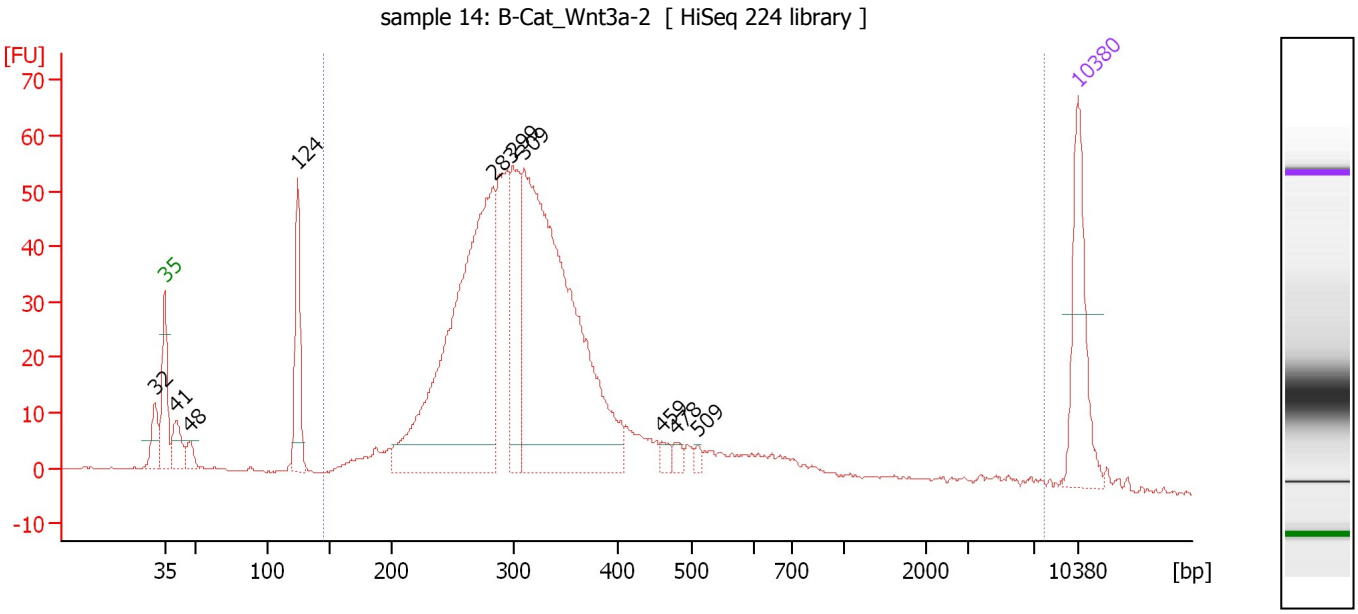
Modified: 10/5/2015 3:10:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : sample 14: B-Cat_Wnt3a-2

Number of peaks found:	10	Corr. Area 1:	995.5
Noise:	0.2		

Peak table for sample 10 : sample 14: B-Cat_Wnt3a-2

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	32	0.00	0.0		42.24
2	35	125.00	5,411.3	Lower Marker	43.00
3	41	37.35	1,382.6		43.91
4	48	14.78	468.2		44.97
5	124	98.70	1,208.8		53.21
6	283	509.81	2,728.3		68.17
7	299	116.66	590.3		69.69
8	309	599.40	2,934.9		70.49
9	459	8.50	28.0		81.11
10	478	8.09	25.6		82.17
11	509	5.23	15.6		83.84
12	10,380	75.00	10.9	Upper Marker	113.00

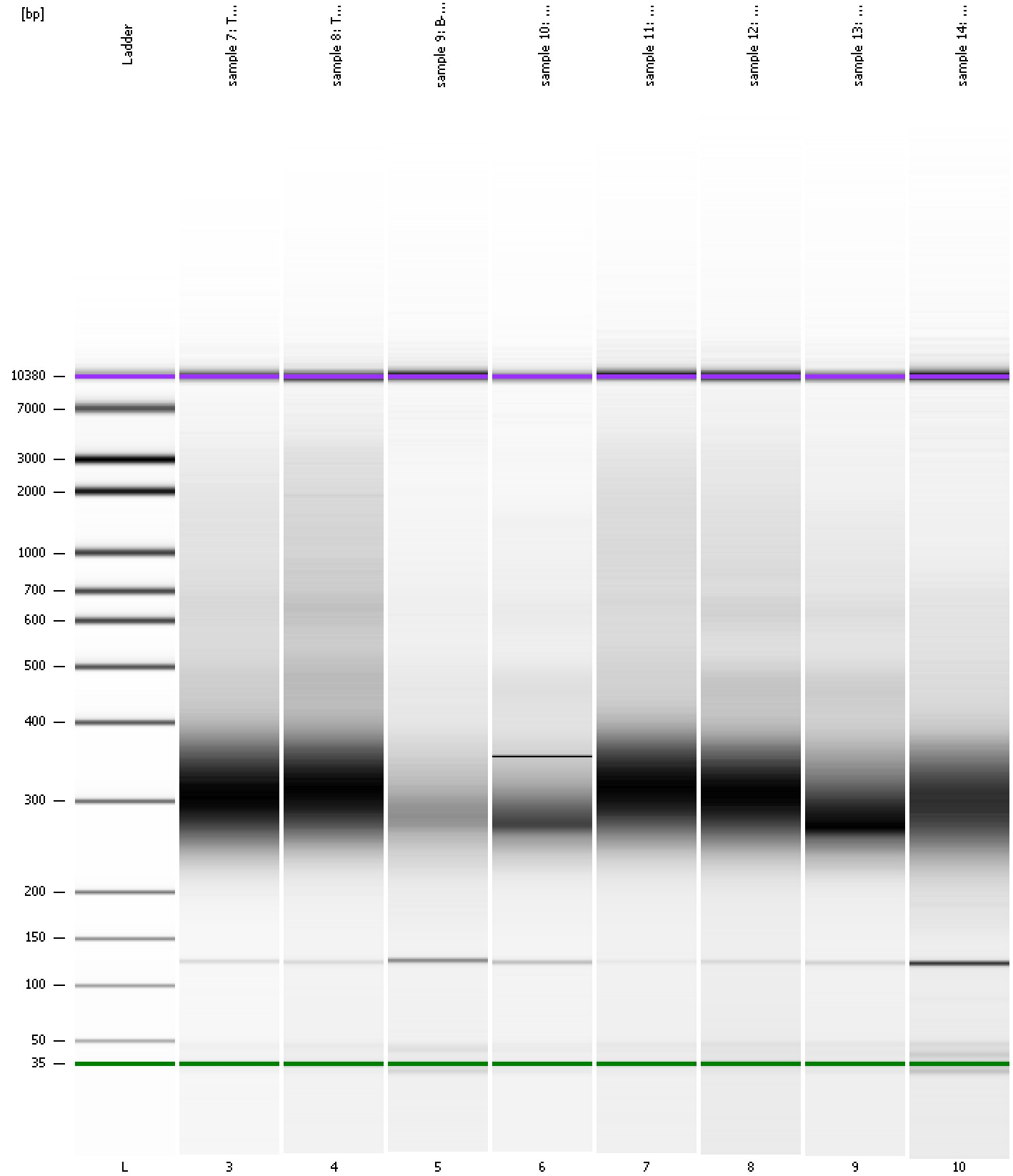
Region table for sample 10 : sample 14: B-Cat_Wnt3a-2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
145	7,676	454	995.5	8,159.2	1,661.10	90	100.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...lyzer\2015-10-05\2015-10-05_002_HiSeq224_Libraries_7-14.xad

Created: 10/5/2015 2:23:41 PM
Modified: 10/5/2015 3:10:53 PM

Gel Image

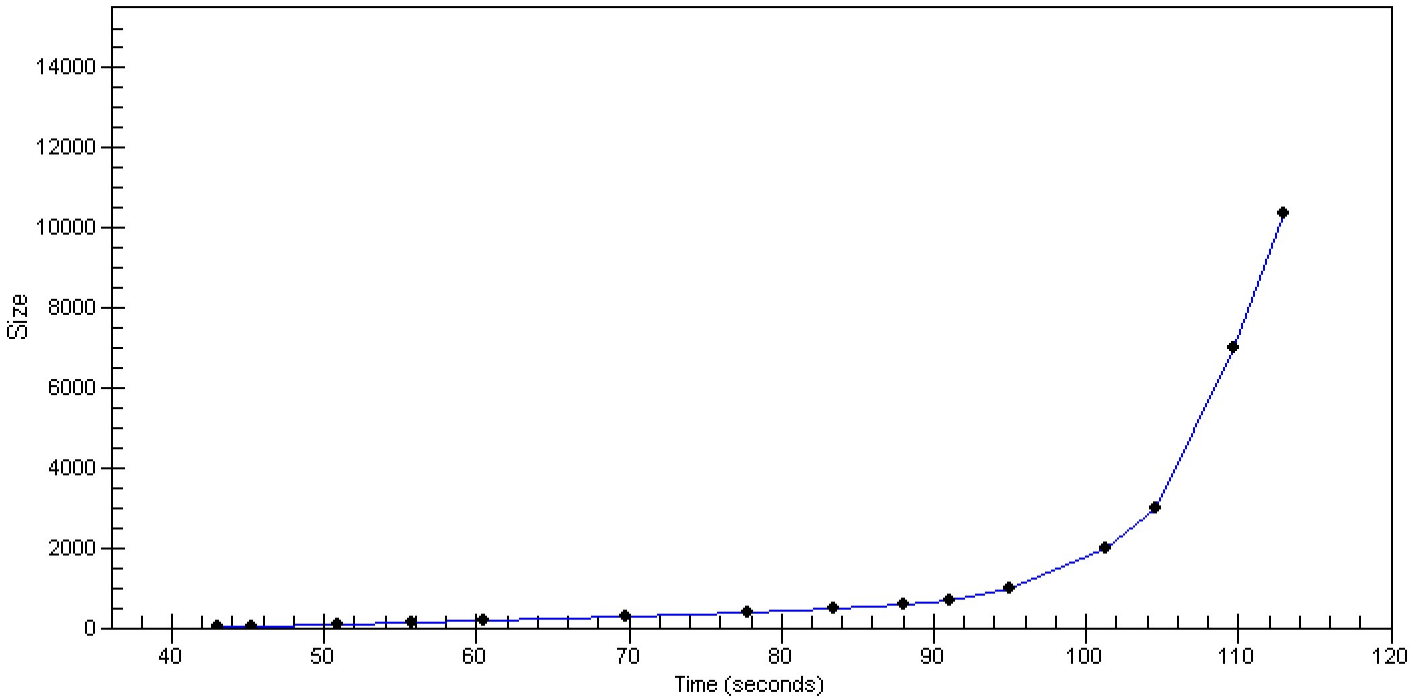


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...lyzer\2015-10-05\2015-10-05_002_HiSeq224_Libraries_7-14.xad

Created: 10/5/2015 2:23:41 PM
Modified: 10/5/2015 3:10:53 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...lyzer\2015-10-05\2015-10-05_002_HiSeq224_Libraries_7-14.xad

Created: 10/5/2015 2:23:41 PM
Modified: 10/5/2015 3:10:53 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		10/5/2015 3:04:03 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-10-05\2015-10-05_002.xad)		Instrument	Run		10/5/2015 2:23:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/5/2015 2:23:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/5/2015 2:23:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/5/2015 2:23:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/5/2015 2:23:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/5/2015 2:23:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/5/2015 2:23:41 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1