

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...015-10-08\2015-10-08\_002\_HiSeq114\_SizeSelectedLibraries.xad

Created: 10/8/2015 4:54:35 PM  
Modified: 10/12/2015 7:43:30 AM

**Electrophoresis File Run Summary**

Instrument Information:

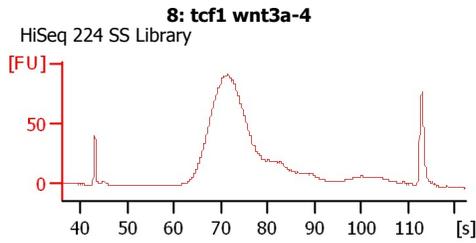
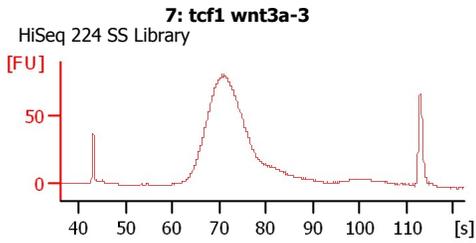
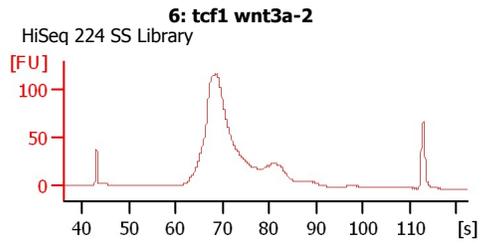
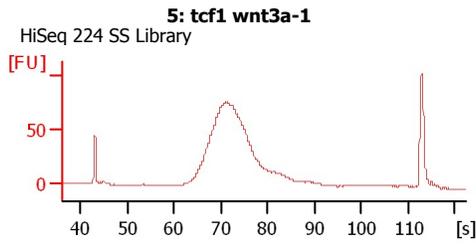
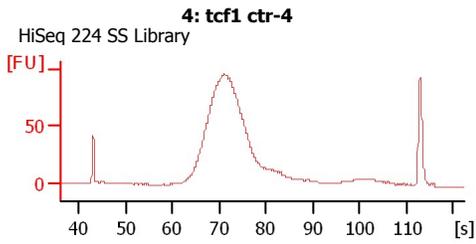
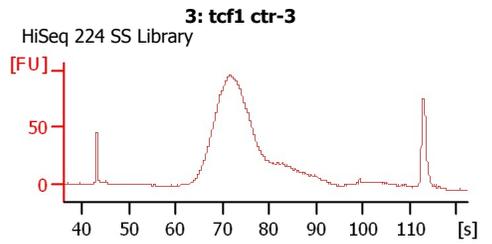
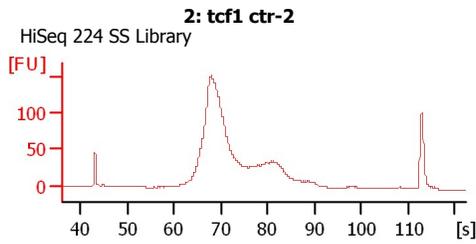
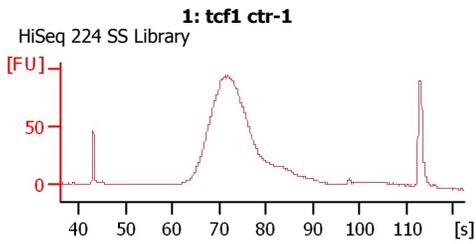
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

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:



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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
1: tcf1 ctr-1	HiSeq 224 SS Library	<input type="checkbox"/>	✓			
2: tcf1 ctr-2	HiSeq 224 SS Library	<input type="checkbox"/>	✓			
3: tcf1 ctr-3	HiSeq 224 SS Library	<input type="checkbox"/>	✓			
4: tcf1 ctr-4	HiSeq 224 SS Library	<input type="checkbox"/>	✓			
5: tcf1 wnt3a-1	HiSeq 224 SS Library	<input type="checkbox"/>	✓			
6: tcf1 wnt3a-2	HiSeq 224 SS Library	<input type="checkbox"/>	✓			
7: tcf1 wnt3a-3	HiSeq 224 SS Library	<input type="checkbox"/>	✓			
8: tcf1 wnt3a-4	HiSeq 224 SS 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/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

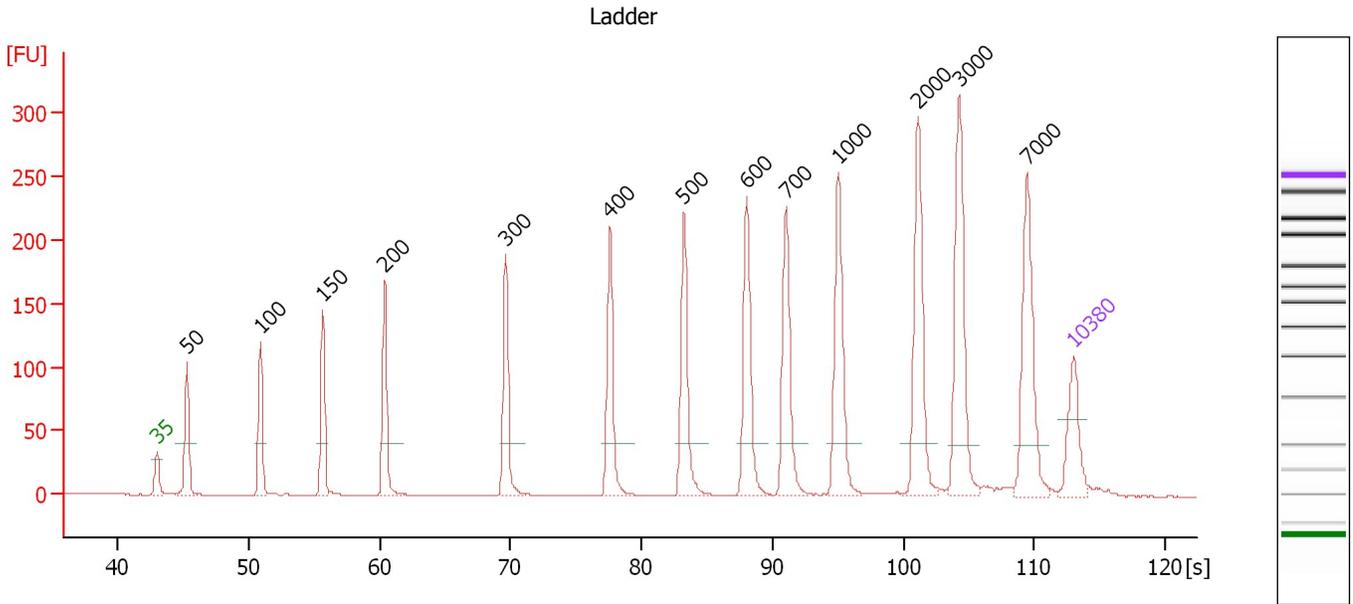
**Ladder**

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

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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

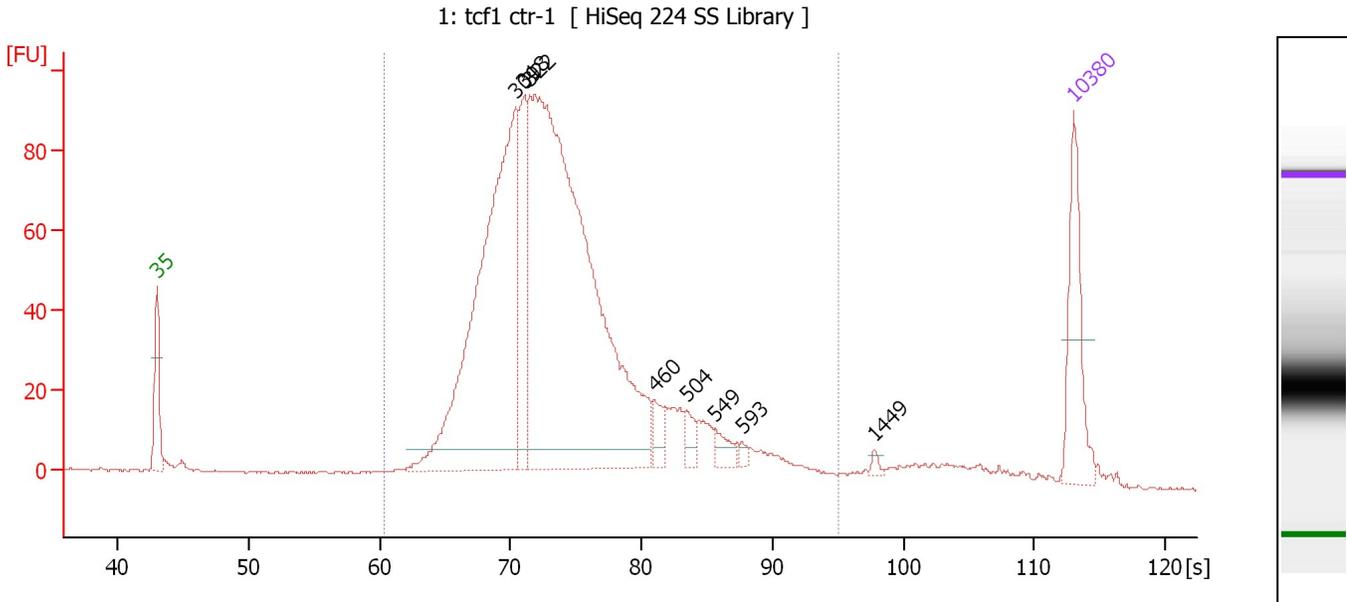
**Peak table for Ladder**

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	45.28
3	100	150.00	2,272.7	Ladder Peak	50.91
4	150	150.00	1,515.2	Ladder Peak	55.65
5	200	150.00	1,136.4	Ladder Peak	60.39
6	300	150.00	757.6	Ladder Peak	69.64
7	400	150.00	568.2	Ladder Peak	77.60
8	500	150.00	454.5	Ladder Peak	83.23
9	600	150.00	378.8	Ladder Peak	88.01
10	700	150.00	324.7	Ladder Peak	91.05
11	1,000	150.00	227.3	Ladder Peak	95.03
12	2,000	150.00	113.6	Ladder Peak	101.11
13	3,000	150.00	75.8	Ladder Peak	104.24
14	7,000	150.00	32.5	Ladder Peak	109.42
15	10,380	75.00	10.9	Upper Marker	113.00

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 1: tcf1 ctr-1**

Number of peaks found: 8                      Corr. Area 1: 1,547.5  
 Noise: 0.2

**Peak table for sample 4 : 1: tcf1 ctr-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	309	599.01	2,934.6		70.38
3	318	109.56	522.5		71.05
4	322	978.81	4,598.8		71.43
5	460	22.74	74.9		80.99
6	504	16.21	48.7		83.42
7	549	16.95	46.8		85.57
8	593	4.60	11.8		87.68
9	1,449	3.93	4.1		97.76
10	10,380	75.00	10.9	Upper Marker	113.00

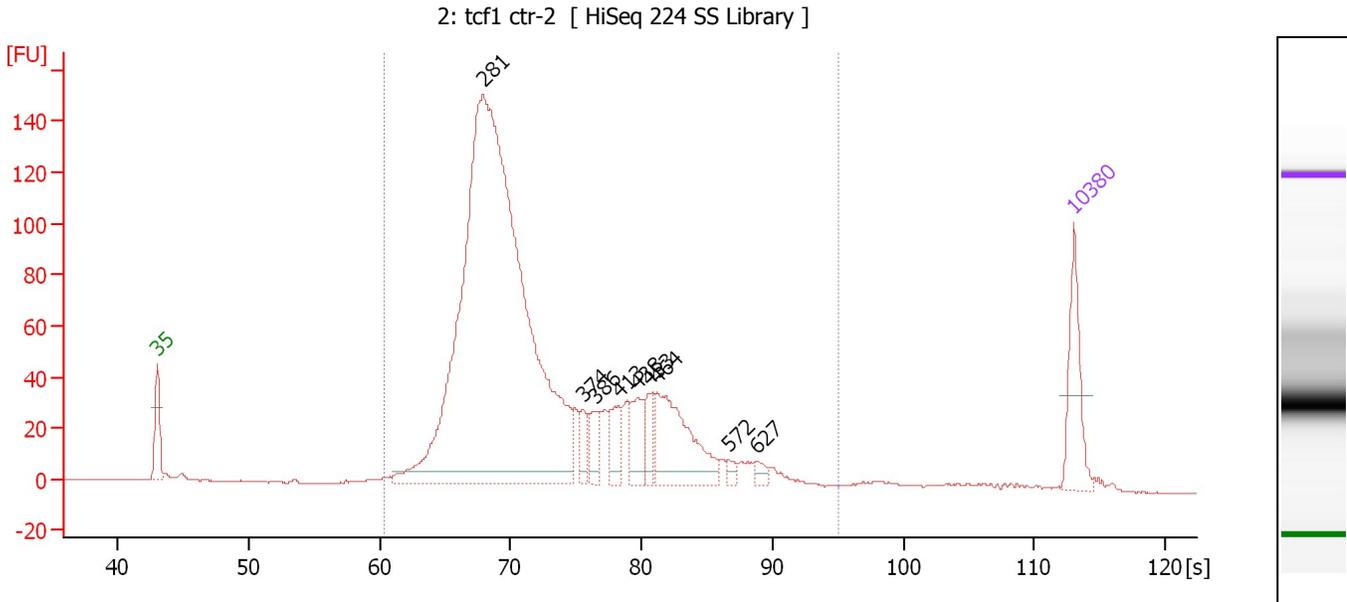
**Region table for sample 4 : 1: tcf1 ctr-1**

From [s]	To [s]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
60.39	95.03	367	1,547.5	8,638.2	1,940.86	92	27.9

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



**Overall Results for sample 5 : 2: tcf1 ctr-2**

Number of peaks found: 9                      Corr. Area 1: 1,779.5  
 Noise: 0.2

**Peak table for sample 5 : 2: tcf1 ctr-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	281	1,803.16	9,706.0		67.93
3	374	30.46	123.5		75.51
4	386	38.53	151.3		76.48
5	413	43.92	161.2		78.31
6	438	57.67	199.7		79.71
7	453	34.05	113.9		80.58
8	464	169.10	552.0		81.21
9	572	10.23	27.1		86.67
10	627	12.09	29.2		88.85
11	10,380	75.00	10.9	Upper Marker	113.00

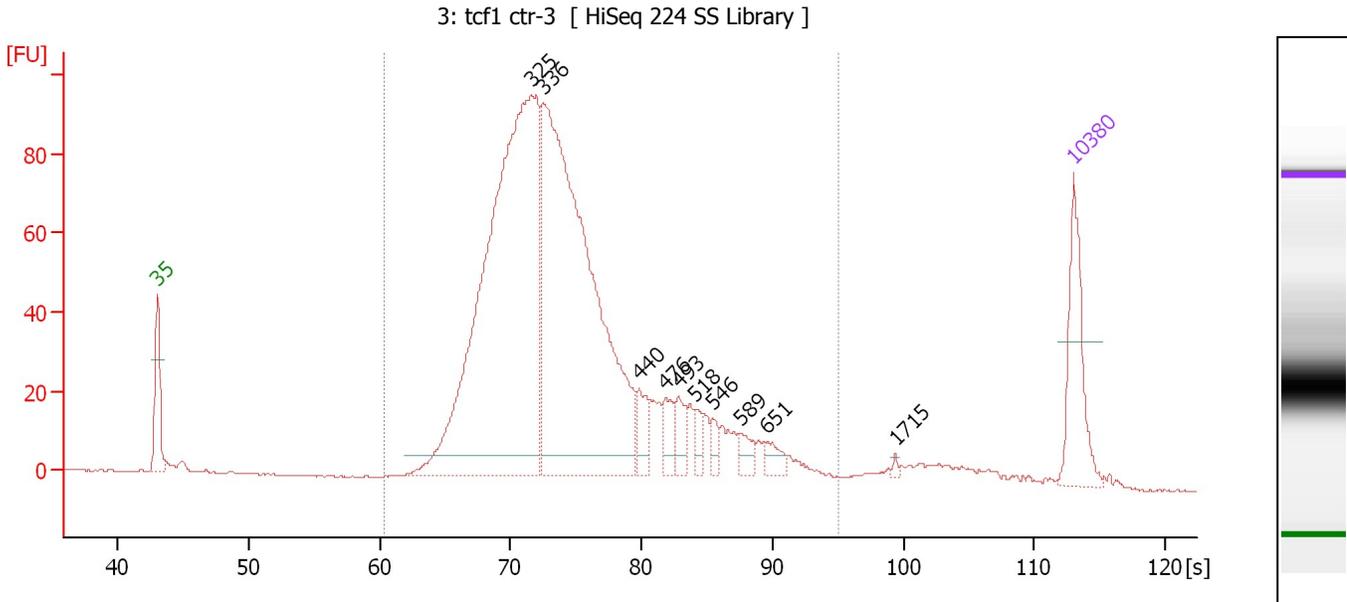
**Region table for sample 5 : 2: tcf1 ctr-2**

From [s]	To [s]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
60.39	95.03	348	1,779.5	11,150.0	2,342.31	96	29.1

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...015-10-08\2015-10-08\_002\_HiSeq114\_SizeSelectedLibraries.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 3: tcf1 ctr-3**

Number of peaks found: 10                      Corr. Area 1: 1,523.9  
 Noise: 0.2

**Peak table for sample 6 : 3: tcf1 ctr-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	325	899.34	4,197.1		71.60
3	336	794.37	3,579.2		72.53
4	440	34.29	118.2		79.82
5	476	27.96	89.0		81.87
6	493	27.38	84.1		82.84
7	518	16.89	49.4		84.10
8	546	12.61	35.0		85.42
9	589	16.19	41.6		87.51
10	651	17.23	40.1		89.55
11	1,715	2.34	2.1		99.38
12	10,380	75.00	10.9	Upper Marker	113.00

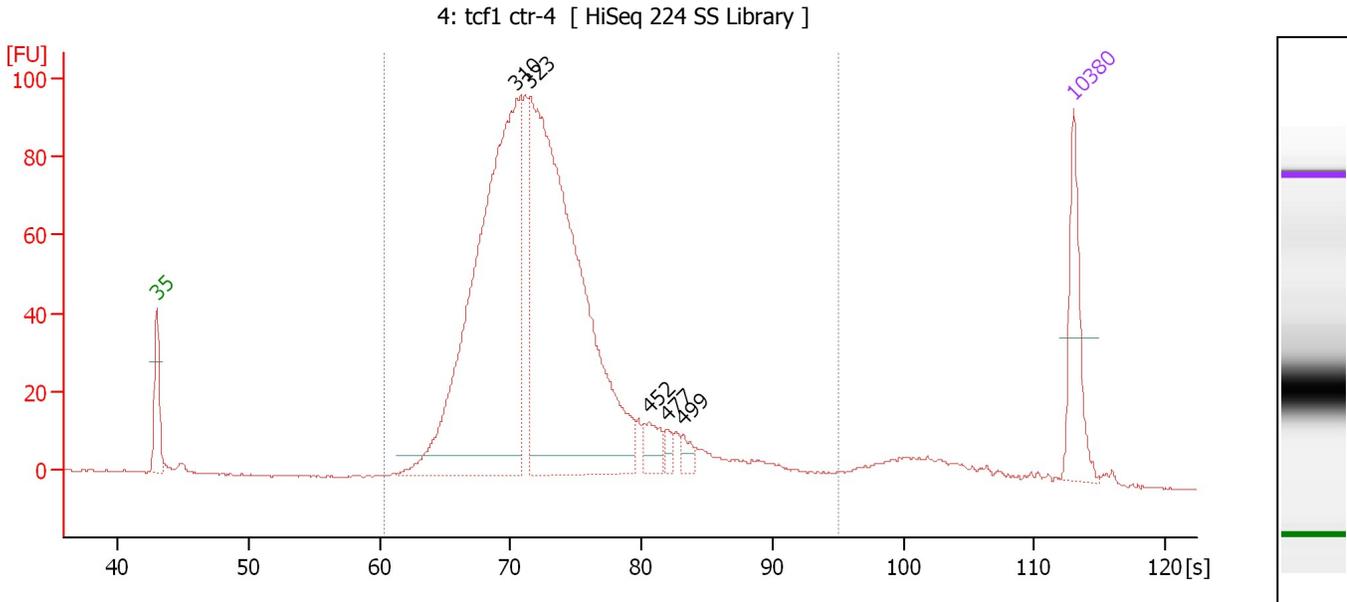
**Region table for sample 6 : 3: tcf1 ctr-3**

From [s]	To [s]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
60.39	95.03	374	1,523.9	8,975.7	2,045.59	94	28.2

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 4: tcf1 ctr-4**

Number of peaks found: 5                      Corr. Area 1: 1,422.6  
 Noise: 0.2

**Peak table for sample 7 : 4: tcf1 ctr-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	310	809.94	3,956.7		70.45
3	323	876.74	4,110.9		71.48
4	452	33.19	111.2		80.53
5	477	11.43	36.3		81.96
6	499	15.20	46.1		83.19
7	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 7 : 4: tcf1 ctr-4**

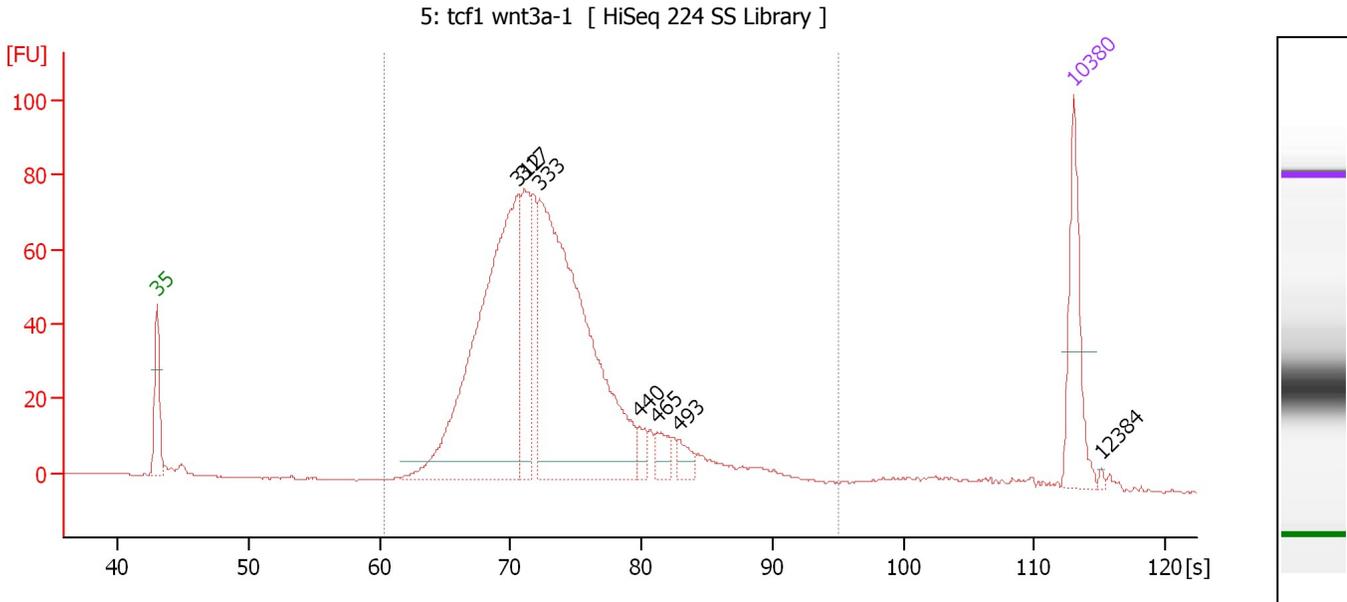
From [s]	To [s]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
60.39	95.03	351	1,422.6	9,248.6	2,007.17	93	27.2



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...015-10-08\2015-10-08\_002\_HiSeq114\_SizeSelectedLibraries.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 5: tcf1 wnt3a-1**

Number of peaks found: 7                      Corr. Area 1: 1,159.3  
 Noise: 0.2

**Peak table for sample 8 : 5: tcf1 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	312	532.18	2,583.4		70.61
3	317	121.74	581.7		71.00
4	333	581.14	2,647.6		72.23
5	440	17.34	59.8		79.82
6	465	22.11	72.0		81.25
7	493	17.15	52.7		82.83
8	10,380	75.00	10.9	Upper Marker	113.00
9	12,384	0.00	0.0		115.12

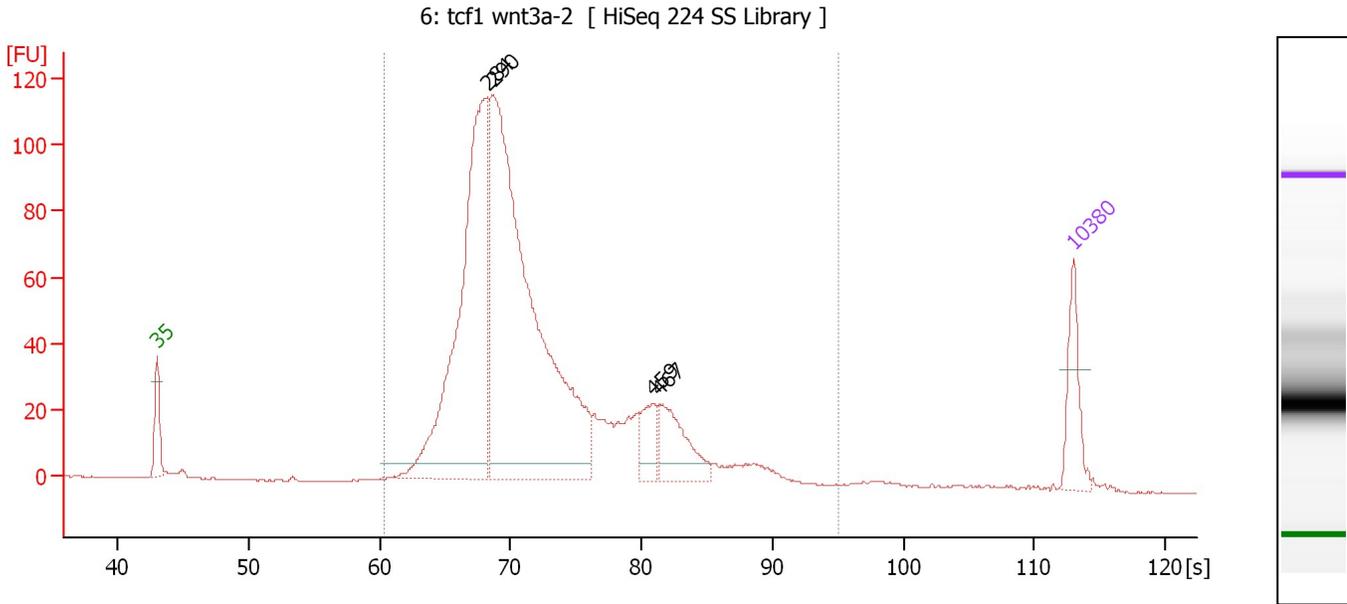
**Region table for sample 8 : 5: tcf1 wnt3a-1**

From [s]	To [s]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
60.39	95.03	354	1,159.3	6,667.6	1,467.15	95	24.9

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 Data Path: C:\...015-10-08\2015-10-08\_002\_HiSeq114\_SizeSelectedLibraries.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 6: tcf1 wnt3a-2**

Number of peaks found: 4                      Corr. Area 1: 1,386.0  
 Noise: 0.1

**Peak table for sample 9 : 6: tcf1 wnt3a-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	284	871.01	4,642.3		68.19
3	290	1,273.24	6,649.4		68.73
4	459	62.60	206.6		80.93
5	467	123.67	401.2		81.37
6	10,380	75.00	10.9	Upper Marker	113.00

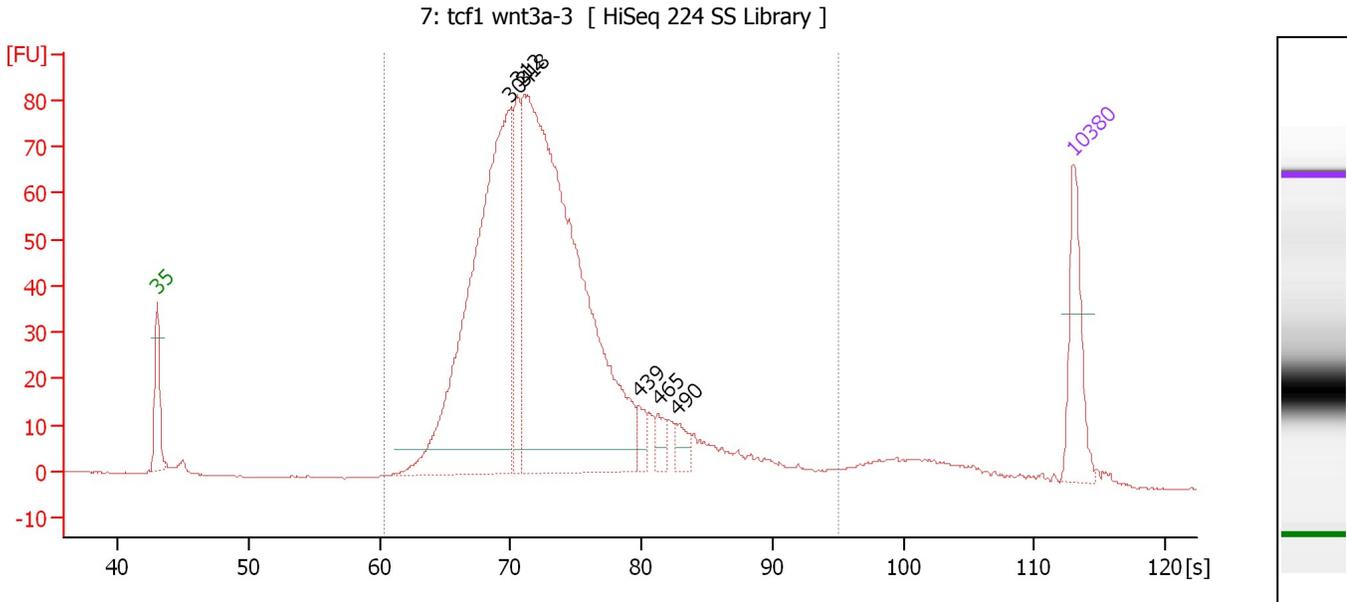
**Region table for sample 9 : 6: tcf1 wnt3a-2**

From [s]	To [s]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
60.39	95.03	339	1,386.0	12,720.4	2,638.29	97	27.6

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



**Overall Results for sample 10 : 7: tcf1 wnt3a-3**

Number of peaks found: 6                      Corr. Area 1: 1,258.5  
 Noise: 0.2

**Peak table for sample 10 : 7: tcf1 wnt3a-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	304	699.63	3,485.6		69.97
3	312	130.28	633.5		70.56
4	318	1,019.19	4,858.7		71.06
5	439	17.44	60.2		79.78
6	465	21.59	70.3		81.27
7	490	20.26	62.7		82.66
8	10,380	75.00	10.9	Upper Marker	113.00

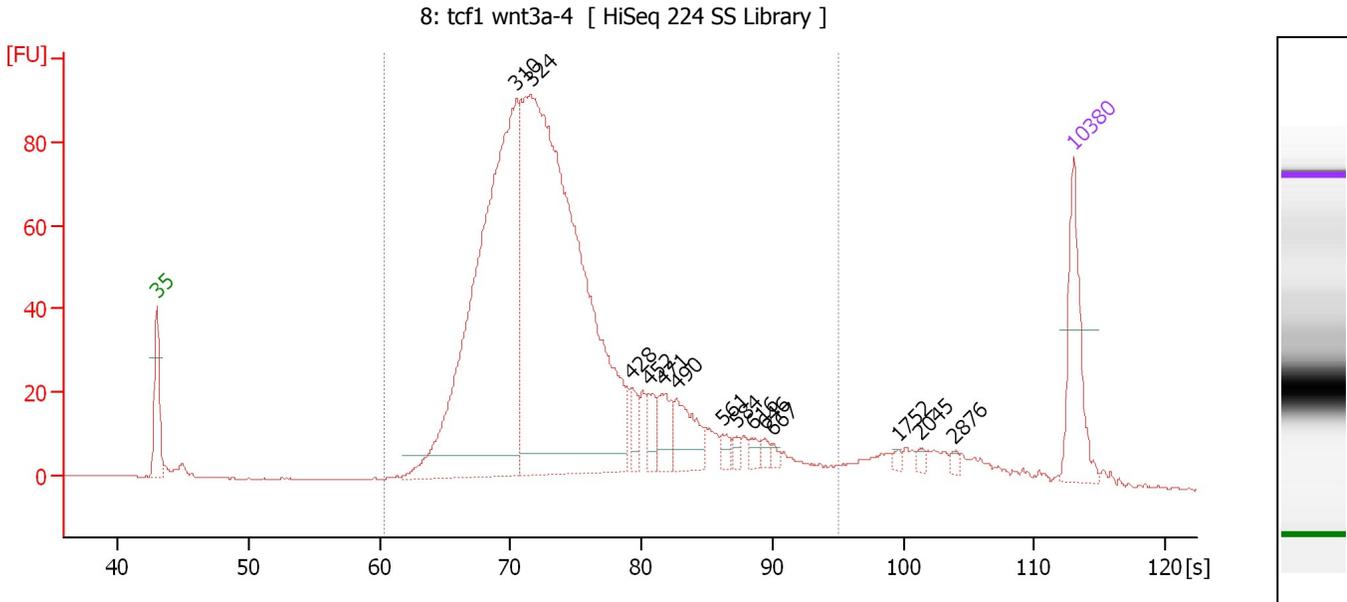
**Region table for sample 10 : 7: tcf1 wnt3a-3**

From [s]	To [s]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
60.39	95.03	356	1,258.5	9,669.6	2,110.48	93	28.4

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**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 8: tcf1 wnt3a-4**

Number of peaks found: 14      Corr. Area 1: 1,468.7  
 Noise: 0.1

**Peak table for sample 11 : 8: tcf1 wnt3a-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	310	763.52	3,729.8		70.45
3	324	1,028.29	4,808.8		71.55
4	428	22.35	79.0		79.20
5	452	24.19	81.0		80.55
6	471	35.31	113.6		81.60
7	490	55.73	172.4		82.65
8	561	9.96	26.9		86.15
9	584	7.34	19.0		87.25
10	616	9.21	22.7		88.50
11	646	7.20	16.9		89.40
12	667	4.70	10.7		90.05
13	1,752	3.97	3.4		99.60
14	2,045	4.47	3.3		101.25
15	2,876	3.94	2.1		103.85
16	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 11 : 8: tcf1 wnt3a-4**

From [s]	To [s]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
60.39	95.03	371	1,468.7	9,704.6	2,175.96	91	30.6

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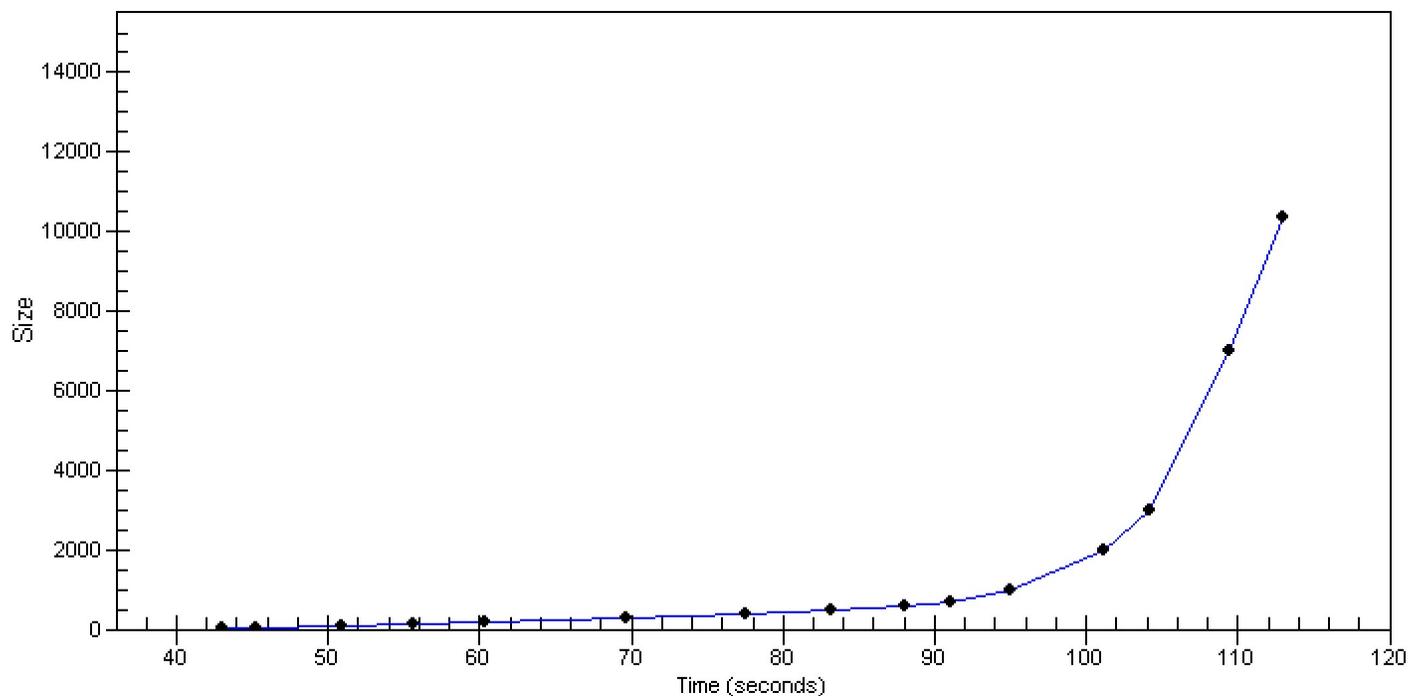
**Gel Image**

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**Curves**

**Standard Curve**



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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		10/8/2015 5:35:51 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyser\2015-10-08\2015-10-08_002.xad)		Instrument	Run		10/8/2015 4:54:40 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/8/2015 4:54:40 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/8/2015 4:54:40 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/8/2015 4:54:40 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/8/2015 4:54:40 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/8/2015 4:54:40 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/8/2015 4:54:40 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1