

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...016-06-27\2016-06-27\_004\_HiSeq528\_TNSeqLibraries-2ndPCR.xad

Created: 6/27/2016 4:14:42 PM  
Modified: 6/27/2016 5:00:50 PM

**Electrophoresis File Run Summary**

Instrument Information:

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

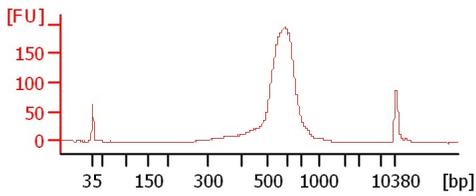
Assay Information:

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

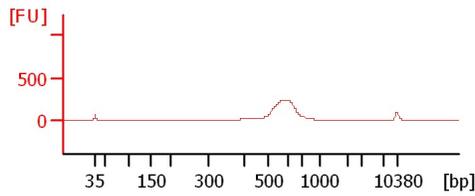
Chip Information:

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

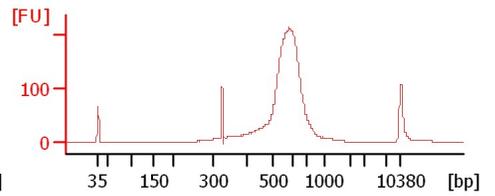
**KL1-3 2nd PCR**



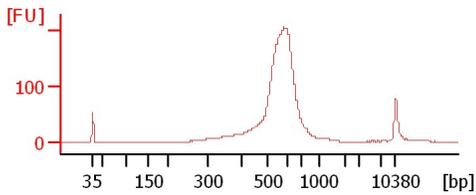
**KL2-3 2nd PCR**



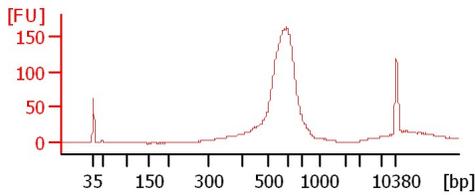
**KL3-3 2nd PCR**



**KL4-3 2nd PCR**



**KL5-3 2nd PCR**



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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
KL1-3 2nd PCR		<input type="checkbox"/>				
KL2-3 2nd PCR		<input type="checkbox"/>				
KL3-3 2nd PCR		<input type="checkbox"/>				
KL4-3 2nd PCR		<input type="checkbox"/>				
KL5-3 2nd PCR		<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

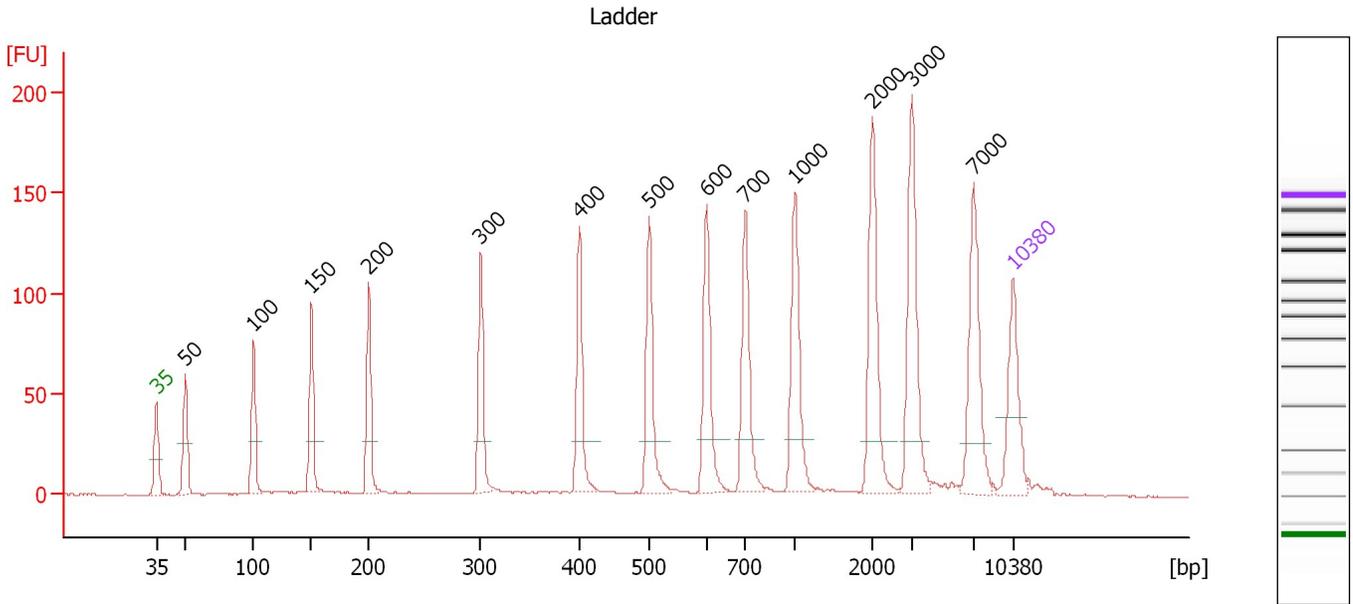
**Ladder**

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

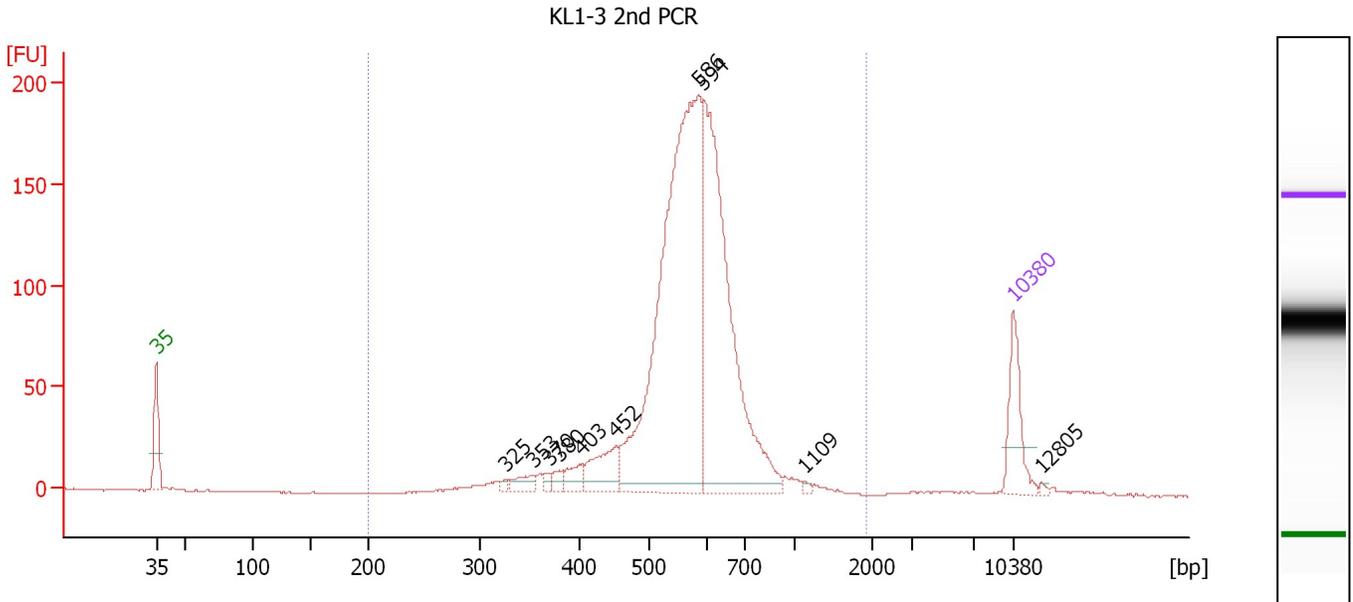
**Peak table for Ladder**

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	45.36
3	100	150.00	2,272.7	Ladder Peak	50.96
4	150	150.00	1,515.2	Ladder Peak	55.68
5	200	150.00	1,136.4	Ladder Peak	60.35
6	300	150.00	757.6	Ladder Peak	69.51
7	400	150.00	568.2	Ladder Peak	77.56
8	500	150.00	454.5	Ladder Peak	83.30
9	600	150.00	378.8	Ladder Peak	87.97
10	700	150.00	324.7	Ladder Peak	91.12
11	1,000	150.00	227.3	Ladder Peak	95.19
12	2,000	150.00	113.6	Ladder Peak	101.53
13	3,000	150.00	75.8	Ladder Peak	104.72
14	7,000	150.00	32.5	Ladder Peak	109.76
15	10,380	75.00	10.9	Upper Marker	113.00

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : KL1-3 2nd PCR**

Number of peaks found: 10                      Corr. Area 1: 1,642.0  
 Noise: 0.3

**Peak table for sample 3 : KL1-3 2nd PCR**

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	8.17	38.1		71.55
3	353	26.74	114.8		73.78
4	370	9.48	38.9		75.11
5	380	15.11	60.3		75.91
6	403	31.95	120.2		77.72
7	452	77.85	260.8		80.56
8	586	947.35	2,451.3		87.30
9	594	638.28	1,629.0		87.67
10	1,109	4.95	6.8		95.88
11	10,380	75.00	10.9	Upper Marker	113.00
12	12,805	0.00	0.0		115.32

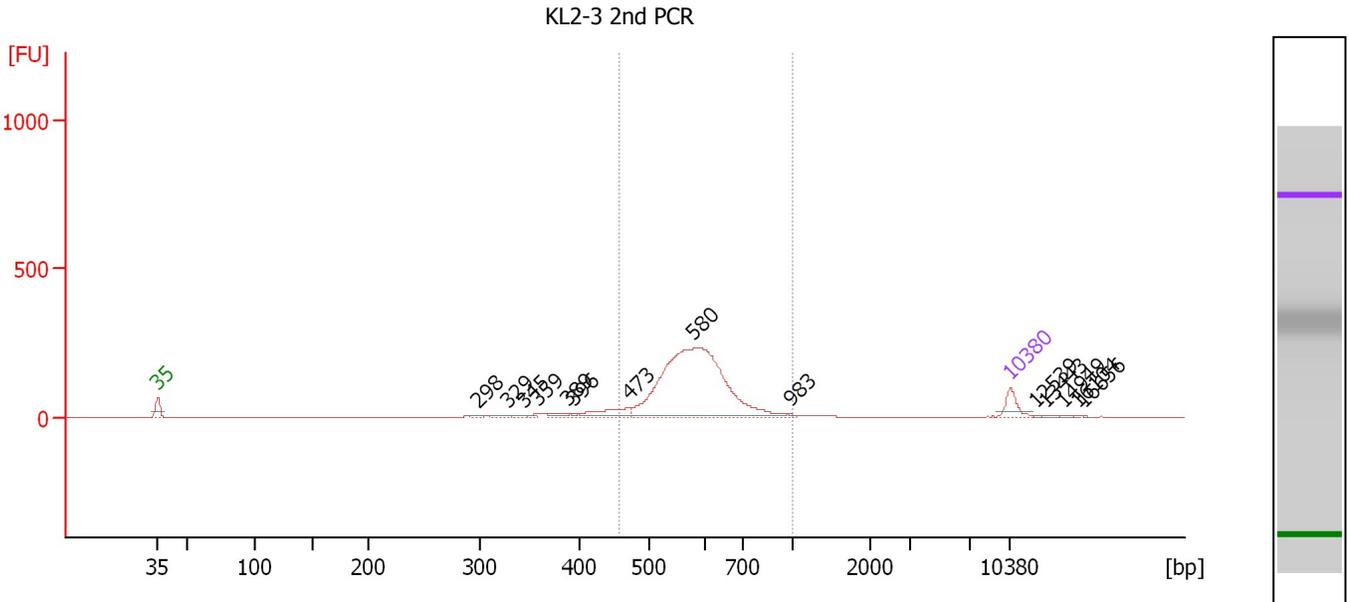
**Region table for sample 3 : KL1-3 2nd PCR**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,913	580	1,642.0	5,215.2	1,896.16	98	21.1

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : KL2-3 2nd PCR**

Number of peaks found: 14                      Corr. Area 1: 0.0  
 Noise: 0.5

**Peak table for sample 4 : KL2-3 2nd PCR**

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	298	10.53	53.5		69.32
3	329	22.09	101.8		71.82
4	345	19.58	86.0		73.12
5	359	14.22	60.1		74.22
6	389	36.62	142.6		76.68
7	396	13.59	52.0		77.21
8	473	133.53	428.1		81.73
9	580	1,617.78	4,228.5		87.02
10	983	7.70	11.9		94.96
11	10,380	75.00	10.9	Upper Marker	113.00
12	12,539	0.00	0.0		115.07
13	13,443	0.00	0.0		115.93
14	14,949	0.00	0.0		117.38
15	16,104	0.00	0.0		118.48
16	16,656	0.00	0.0		119.01

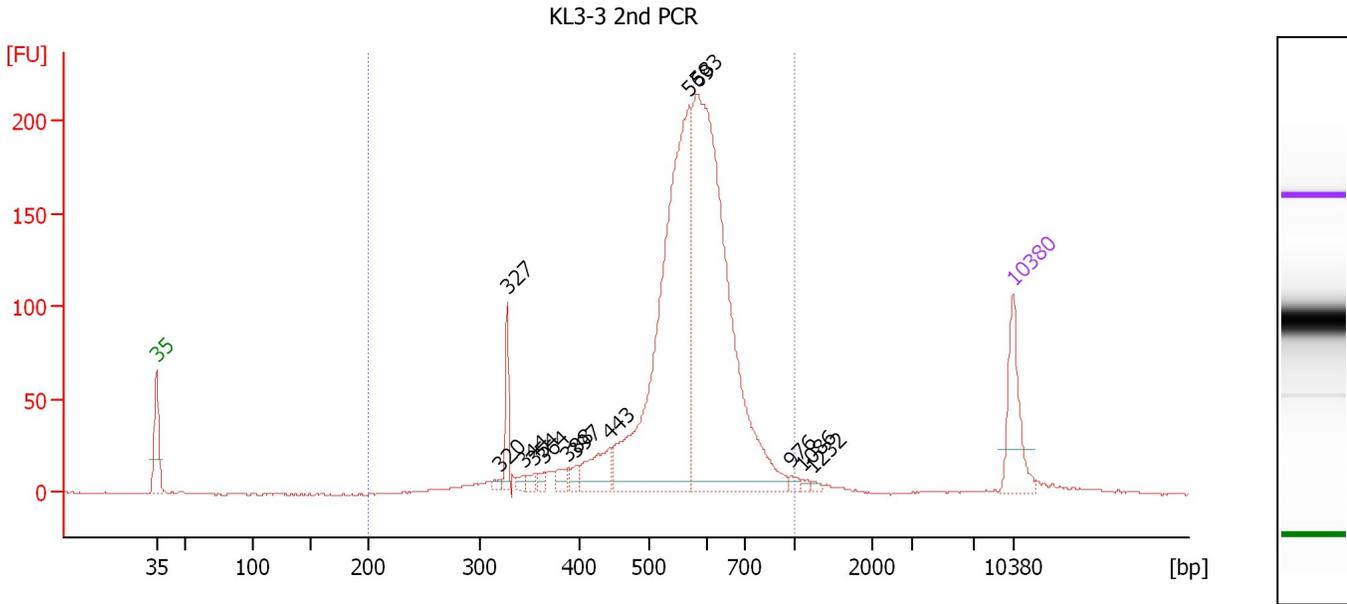
**Region table for sample 4 : KL2-3 2nd PCR**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
458	1,000	0	0.0	0.0	0.00	0	0.0

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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : KL3-3 2nd PCR**

Number of peaks found: 13                      Corr. Area 1: 1,827.1  
 Noise: 0.3

**Peak table for sample 5 : KL3-3 2nd PCR**

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	320	8.03	38.0		71.12
3	327	48.98	227.2		71.65
4	344	9.33	41.1		73.01
5	354	10.02	42.8		73.89
6	364	10.87	45.2		74.67
7	388	17.73	69.3		76.56
8	397	13.81	52.7		77.29
9	443	64.22	219.7		80.02
10	569	686.68	1,827.5		86.54
11	583	809.91	2,105.4		87.17
12	976	6.37	9.9		94.86
13	1,086	4.95	6.9		95.73
14	1,232	4.01	4.9		96.66
15	10,380	75.00	10.9	Upper Marker	113.00

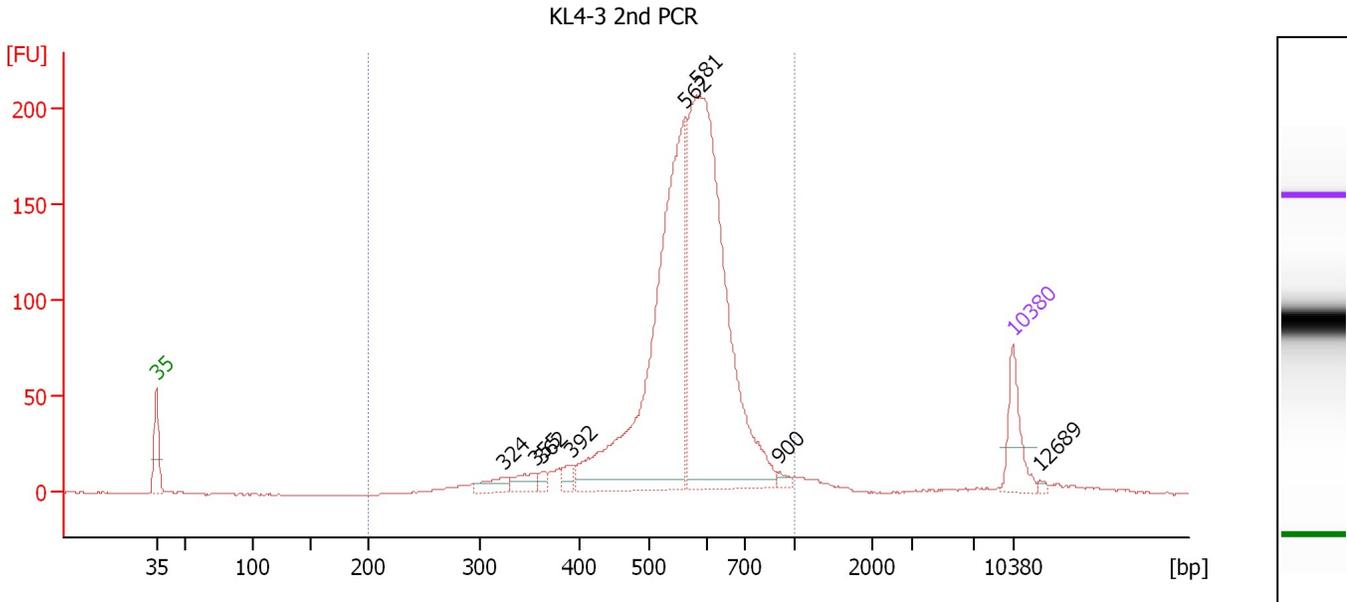
**Region table for sample 5 : KL3-3 2nd PCR**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	565	1,827.1	5,163.4	1,813.56	96	18.5

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : KL4-3 2nd PCR**

Number of peaks found: 8                      Corr. Area 1: 1,770.4  
 Noise: 0.3

**Peak table for sample 6 : KL4-3 2nd PCR**

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	324	37.14	173.6		71.46
3	355	38.50	164.4		73.92
4	362	13.61	56.9		74.51
5	392	24.22	93.6		76.92
6	562	896.63	2,416.0		86.21
7	581	1,065.19	2,776.6		87.09
8	900	9.67	16.3		93.83
9	10,380	75.00	10.9	Upper Marker	113.00
10	12,689	0.00	0.0		115.21

**Region table for sample 6 : KL4-3 2nd PCR**

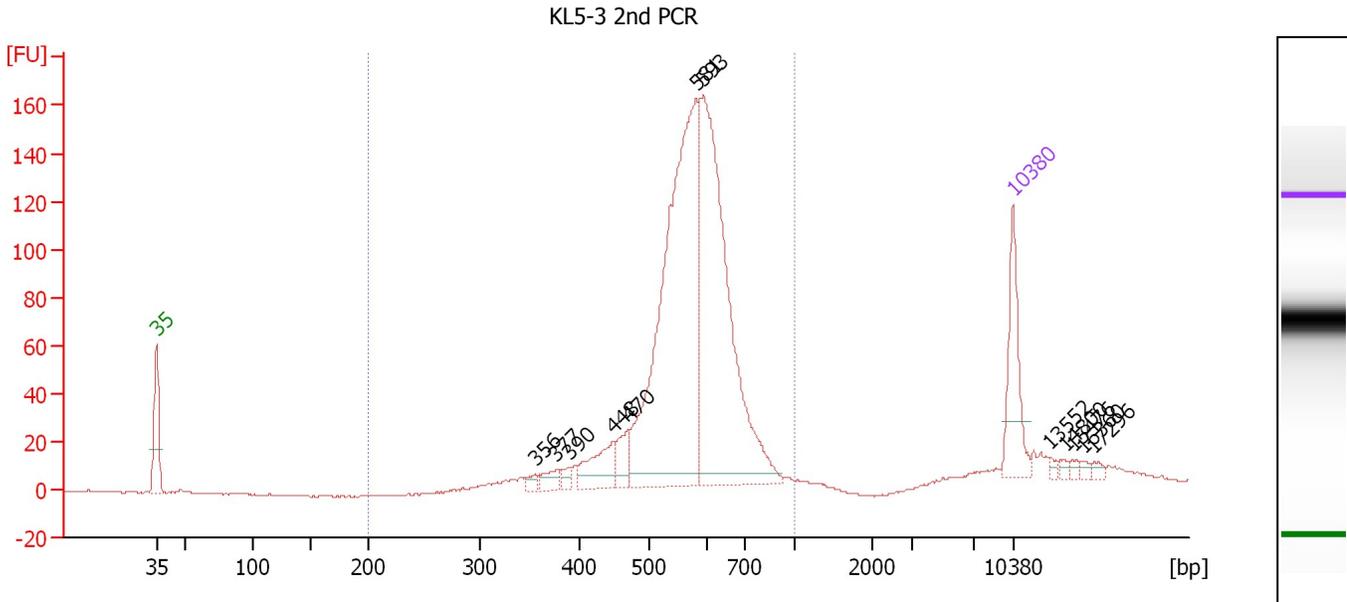
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	563	1,770.4	6,677.8	2,349.72	94	18.0



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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : KL5-3 2nd PCR**

Number of peaks found: 12                      Corr. Area 1: 1,253.8  
 Noise: 0.3

**Peak table for sample 7 : KL5-3 2nd PCR**

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	356	9.70	41.3		73.99
3	377	18.72	75.3		75.68
4	390	11.15	43.4		76.73
5	448	61.67	208.5		80.32
6	470	34.76	112.1		81.56
7	581	635.19	1,655.9		87.09
8	593	510.83	1,305.3		87.64
9	10,380	75.00	10.9	Upper Marker	113.00
10	13,552	0.00	0.0		116.04
11	14,800	0.00	0.0		117.23
12	15,476	0.00	0.0		117.88
13	16,360	0.00	0.0		118.73
14	17,296	0.00	0.0		119.63

**Region table for sample 7 : KL5-3 2nd PCR**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	574	1,253.8	3,692.4	1,352.62	92	15.1

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Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...016-06-27\2016-06-27\_004\_HiSeq528\_TNSeqLibraries-2ndPCR.xad

Created: 6/27/2016 4:14:42 PM  
Modified: 6/27/2016 5:00:50 PM

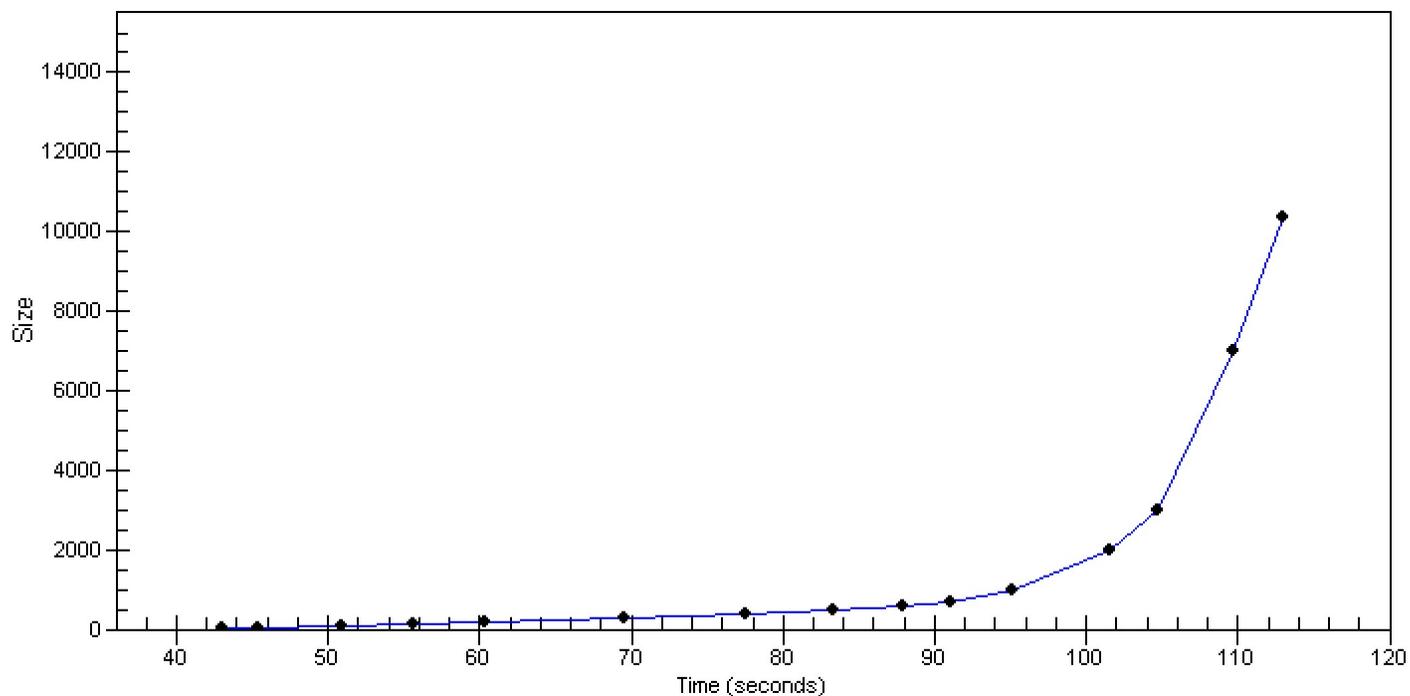
**Gel Image**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...016-06-27\2016-06-27\_004\_HiSeq528\_TNSeqLibraries-2ndPCR.xad

Created: 6/27/2016 4:14:42 PM  
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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		6/27/2016 4:56:01 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\2016-06-27\2016-06-27_004.xad)		Instrument	Run		6/27/2016 4:14:48 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/27/2016 4:14:48 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/27/2016 4:14:48 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/27/2016 4:14:48 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/27/2016 4:14:48 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/27/2016 4:14:48 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/27/2016 4:14:48 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1