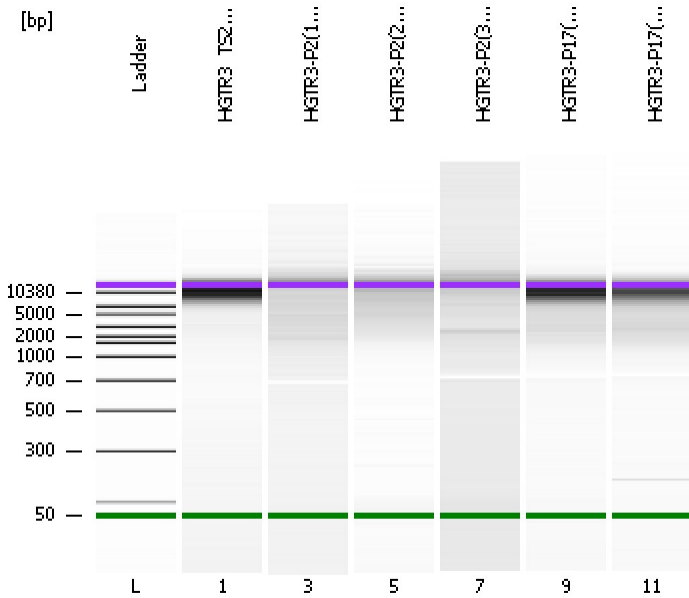


Assay Class: DNA 12000  
Data Path: C:\...ettings\UC Davis\Desktop\DNA 12000\_2019-10-04\_001\_PB401.xad

Created: 10/4/2019 11:32:39 AM  
Modified: 10/4/2019 3:05:11 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE13701287      Firmware: C.01.069  
Serial#: DE13701287      Type: G2938B

Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\DNA 12000 Series II.xsy

Assay Class: DNA 12000

Version: 2.4

Assay Comments: DNA Analysis 100 -12000 bp

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Chip Information:

Chip Lot #:

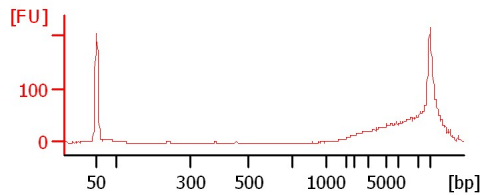
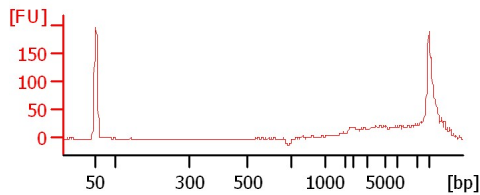
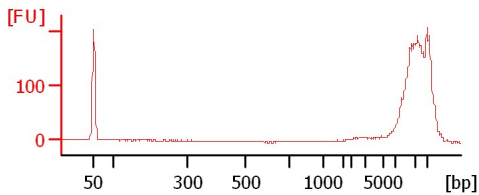
Reagent Kit Lot #:

Chip Comments:

HGTR3\_TS2\_10kb+15p

HGTR3-P2(1)\_TS2\_35kb+5p

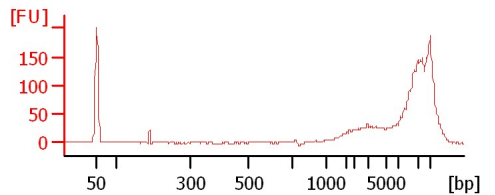
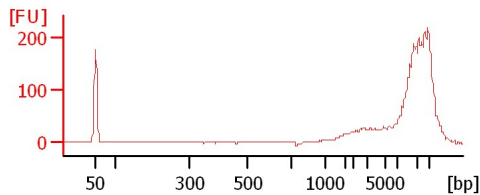
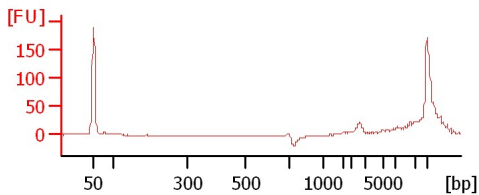
HGTR3-P2(2)\_TS1\_35kb+5p



HGTR3-P2(3)\_TS1\_35kb+5p

HGTR3-P17(1)\_TS2\_15kb+20p

HGTR3-P17(2)\_TS1\_15kb+10p



Assay Class: DNA 12000  
 Data Path: C:\...ettings\UC Davis\Desktop\DNA 12000\_2019-10-04\_001\_PB401.xad

Created: 10/4/2019 11:32:39 AM  
 Modified: 10/4/2019 3:05:11 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
HGTR3_TS2_10kb+15p		<input type="checkbox"/>	✓			
HGTR3-P2(1)_TS2_35kb+5p		<input type="checkbox"/>	✓			
HGTR3-P2(2)_TS1_35kb+5p		<input type="checkbox"/>	✓			
HGTR3-P2(3)_TS1_35kb+5p		<input type="checkbox"/>	✓			
HGTR3-P17(1)_TS2_15kb+20p		<input type="checkbox"/>	✓			
HGTR3-P17(2)_TS1_15kb+10p		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: DNA 12000  
Data Path: C:\...ettings\UC Davis\Desktop\DNA 12000\_2019-10-04\_001\_PB401.xad

Created: 10/4/2019 11:32:39 AM  
Modified: 10/4/2019 3:05:11 PM

## Electrophoresis Assay Details

### General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 13  
Minimum Visible Range [s] : 20  
Maximum Visible Range [s] : 99  
Start Analysis Time Range [s] : 20  
End Analysis Time Range [s] : 98.95  
Ladder Concentration [ng/ $\mu$ l] : 44  
Uses Standard Area for Ladder Fragments  
Lower Marker Concentration [ng/ $\mu$ l] : 8.3  
Upper Marker Concentration [ng/ $\mu$ l] : 4.2  
Used Upper Marker for Quantitation  
This is a Qualitative Assay Only  
Standard Curve Fit is Point to Point  
Show Data Aligned to Lower and Upper Marker

### Integrator Settings

Integration Start Time [s] : 20  
Integration End Time [s] : 98.95  
Slope Threshold : 0.8  
Height Threshold [FU] : 20  
Area Threshold : 0.1  
Width Threshold [s] : 0.5  
Baseline Plateau [s] : 0.5

### Filter Settings

Filter Width [s] : 0.5  
Polynomial Order : 4

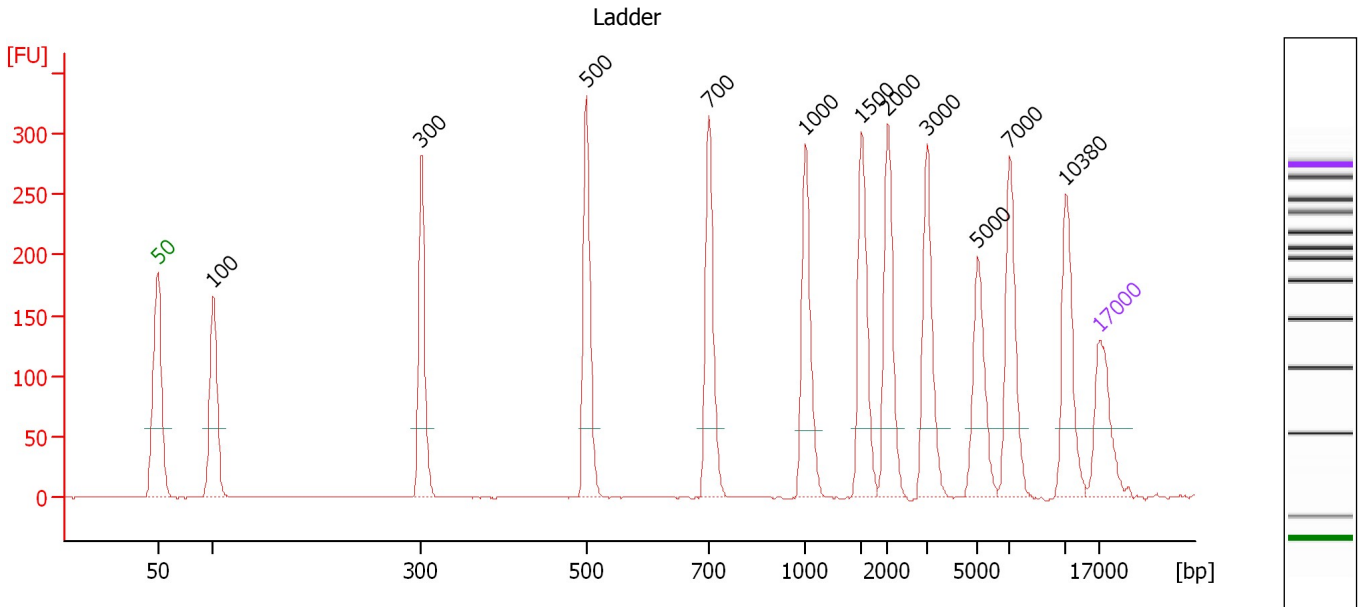
### Ladder

Ladder Peak	Size	Area
1	50	120
2	100	48
3	300	61
4	500	77
5	700	81
6	1000	86
7	1500	92
8	2000	92
9	3000	96
10	5000	100
11	7000	98
12	10380	102
13	17000	110

Assay Class: DNA 12000  
 Data Path: C:\...ettings\UC Davis\Desktop\DNA 12000\_2019-10-04\_001\_PB401.xad

Created: 10/4/2019 11:32:39 AM  
 Modified: 10/4/2019 3:05:11 PM

**Electropherogram Summary**



**Peak table for Ladder**

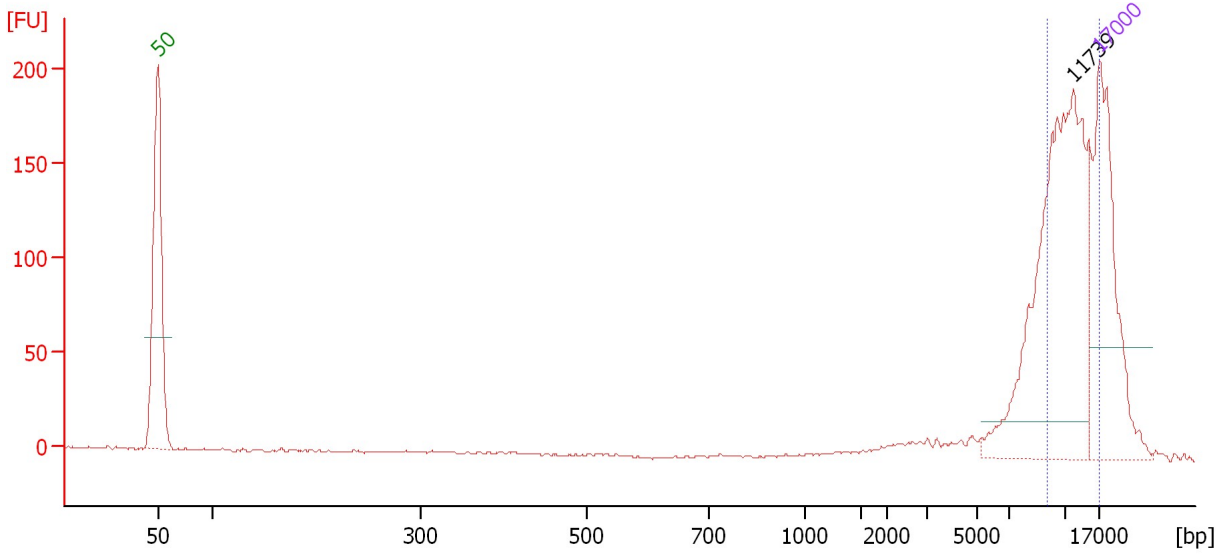
Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	100	4.00	60.6	Ladder Peak
3	300	4.00	20.2	Ladder Peak
4	500	4.00	12.1	Ladder Peak
5	700	4.00	8.7	Ladder Peak
6	1,000	4.00	6.1	Ladder Peak
7	1,500	4.00	4.0	Ladder Peak
8	2,000	4.00	3.0	Ladder Peak
9	3,000	4.00	2.0	Ladder Peak
10	5,000	4.00	1.2	Ladder Peak
11	7,000	4.00	0.9	Ladder Peak
12	10,380	4.00	0.6	Ladder Peak
13	17,000	4.20	0.4	Upper Marker

Assay Class: DNA 12000  
 Data Path: C:\...ettings\UC Davis\Desktop\DNA 12000\_2019-10-04\_001\_PB401.xad

Created: 10/4/2019 11:32:39 AM  
 Modified: 10/4/2019 3:05:11 PM

**Electropherogram Summary Continued ...**

HGTR3\_TS2\_10kb+15p



**Overall Results for sample 1 : HGTR3 TS2 10kb+15p**

Number of peaks found: 1 Area: 390.0

**Peak table for sample 1 : HGTR3 TS2 10kb+15p**

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	11,739	8.02	1.0	
3	17,000	4.20	0.4	Upper Marker

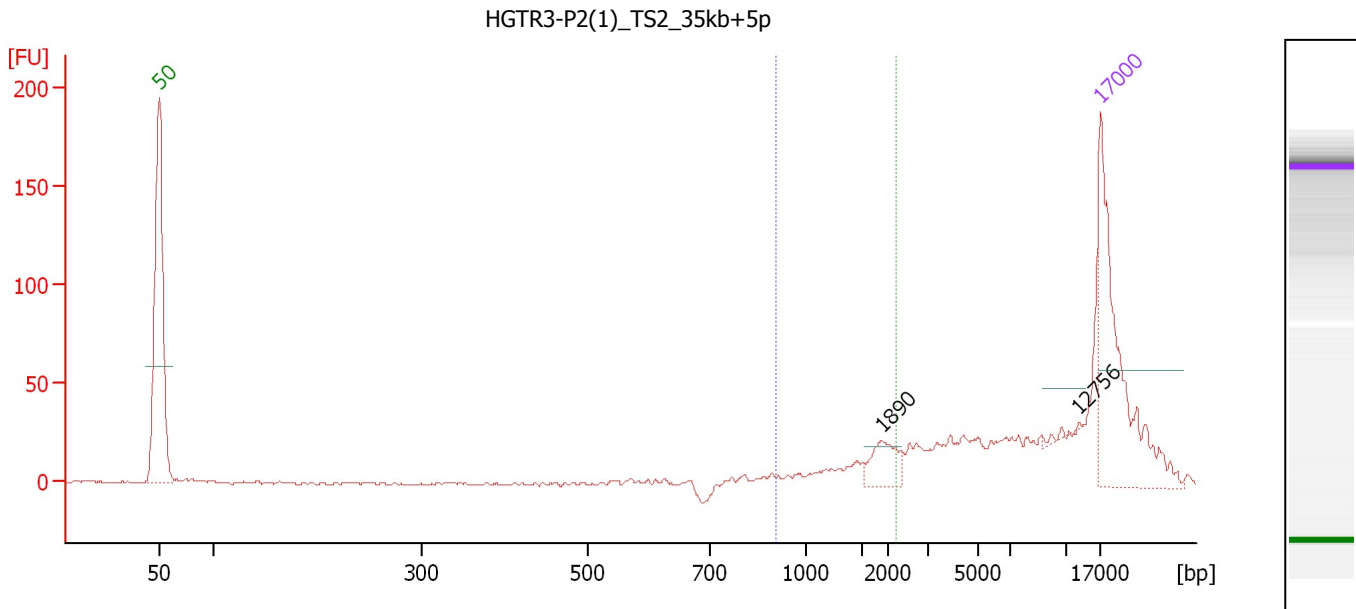
**Region table for sample 1 : HGTR3 TS2 10kb+15p**

From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Area	% of Total	Size distribution in CV [%]	Color
9,269	16,668	12,053	5.49	390.0	59	18.6	Blue

Assay Class: DNA 12000  
 Data Path: C:\...ettings\UC Davis\Desktop\DNA 12000\_2019-10-04\_001\_PB401.xad

Created: 10/4/2019 11:32:39 AM  
 Modified: 10/4/2019 3:05:11 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : HGTR3-P2(1) TS2 35kb+5p**

Number of peaks found: 2                      Area 2: 280.1  
 Area 1: 349.9

**Peak table for sample 3 : HGTR3-P2(1) TS2 35kb+5p**

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	1,890	0.84	0.7	
3	12,756	0.09	0.0	
4	17,000	4.20	0.4	Upper Marker

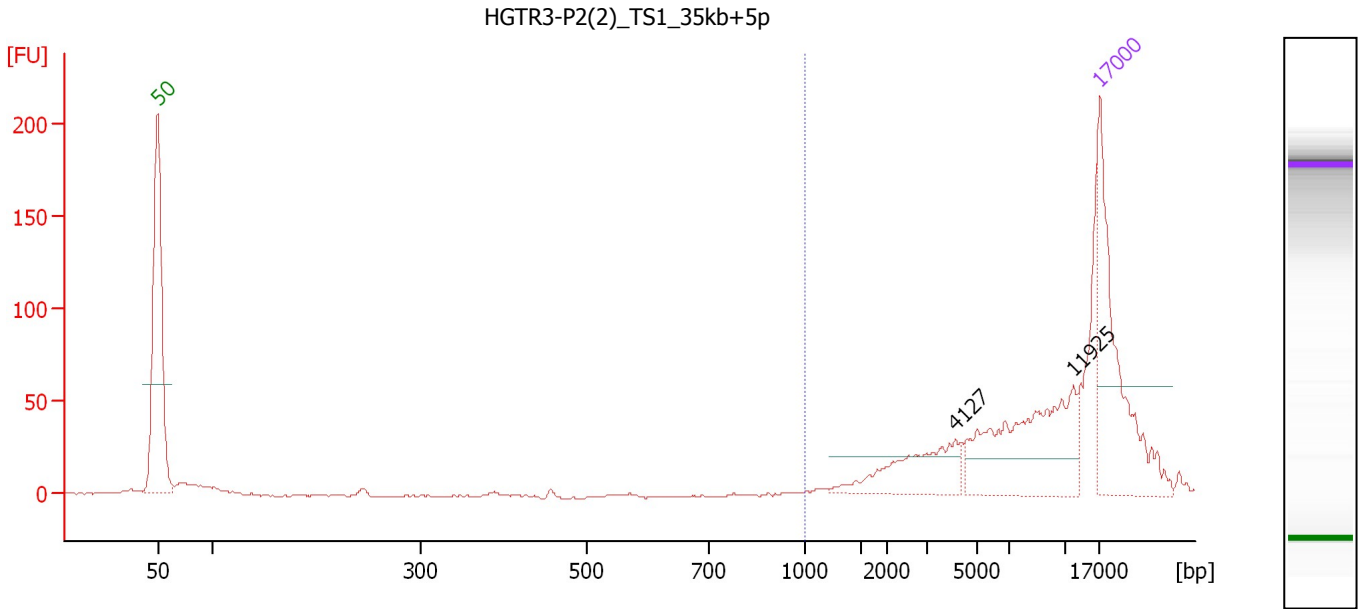
**Region table for sample 3 : HGTR3-P2(1) TS2 35kb+5p**

From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Area	% of Total	Size distribution in CV [%]	Color
907	42,452	12,581	7.39	349.9	92	67.4	Blue
2,201	35,739	13,750	5.81	280.1	74	55.5	Green

Assay Class: DNA 12000  
 Data Path: C:\...ettings\UC Davis\Desktop\DNA 12000\_2019-10-04\_001\_PB401.xad

Created: 10/4/2019 11:32:39 AM  
 Modified: 10/4/2019 3:05:11 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : HGTR3-P2(2) TS1 35kb+5p**

Number of peaks found: 2                      Area 1: 459.6

**Peak table for sample 5 : HGTR3-P2(2) TS1 35kb+5p**

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	4,127	2.08	0.8	
3	11,925	4.51	0.6	
4	17,000	4.20	0.4	Upper Marker

**Region table for sample 5 : HGTR3-P2(2) TS1 35kb+5p**

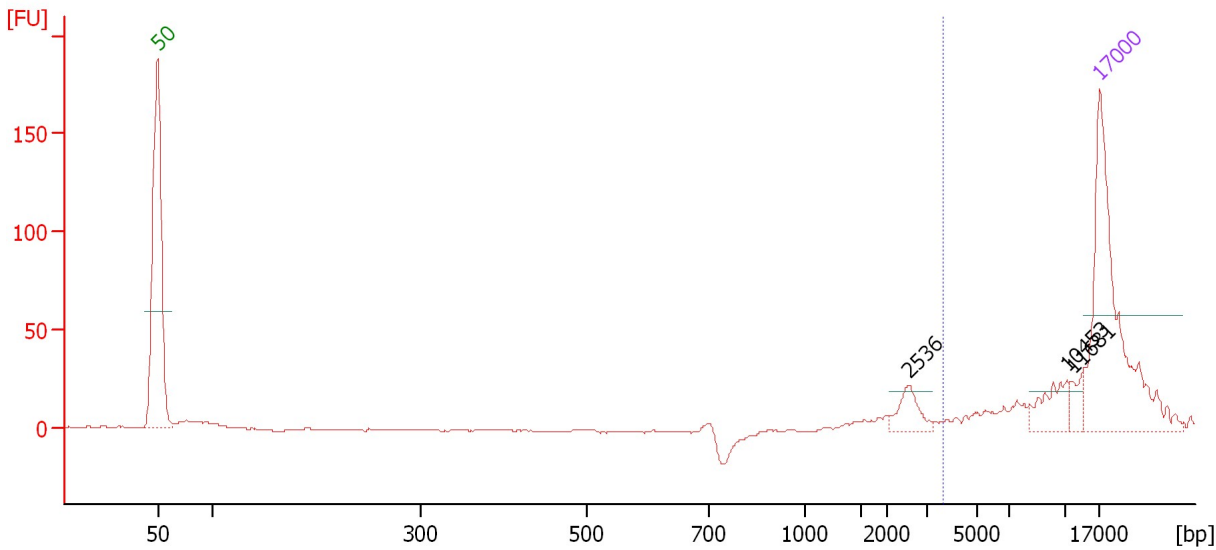
From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Area	% of Total	Size distribution in CV [%]	Color
999	42,878	12,874	9.22	459.6	94	62.2	Blue

Assay Class: DNA 12000  
 Data Path: C:\...ettings\UC Davis\Desktop\DNA 12000\_2019-10-04\_001\_PB401.xad

Created: 10/4/2019 11:32:39 AM  
 Modified: 10/4/2019 3:05:11 PM

**Electropherogram Summary Continued ...**

HGTR3-P2(3)\_TS1\_35kb+5p



**Overall Results for sample 7 : HGTR3-P2(3) TS1 35kb+5p**

Number of peaks found: 3                      Area 1: 99.8

**Peak table for sample 7 : HGTR3-P2(3) TS1 35kb+5p**

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	2,536	0.55	0.3	
3	10,453	0.70	0.1	
4	11,681	0.38	0.0	
5	17,000	4.20	0.4	Upper Marker

**Region table for sample 7 : HGTR3-P2(3) TS1 35kb+5p**

From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Area	% of Total	Size distribution in CV [%]	Color
3,646	45,687	17,122	1.97	99.8	61	41.7	Blue

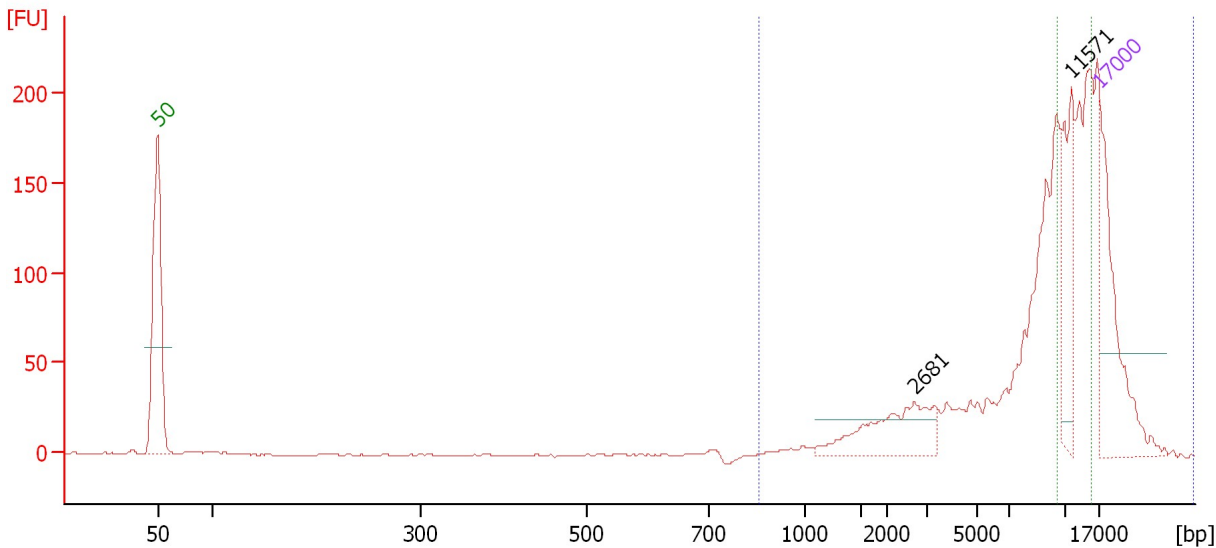


Assay Class: DNA 12000  
 Data Path: C:\...ettings\UC Davis\Desktop\DNA 12000\_2019-10-04\_001\_PB401.xad

Created: 10/4/2019 11:32:39 AM  
 Modified: 10/4/2019 3:05:11 PM

**Electropherogram Summary Continued ...**

HGTR3-P17(1)\_TS2\_15kb+20p



**Overall Results for sample 9 : HGTR3-P17(1) TS2 15kb+20p**

Number of peaks found: 2                      Area 2: 300.0  
 Area 1: 824.5

**Peak table for sample 9 : HGTR3-P17(1) TS2 15kb+20p**

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	2,681	2.82	1.6	
3	11,571	2.68	0.4	
4	17,000	4.20	0.4	Upper Marker

**Region table for sample 9 : HGTR3-P17(1) TS2 15kb+20p**

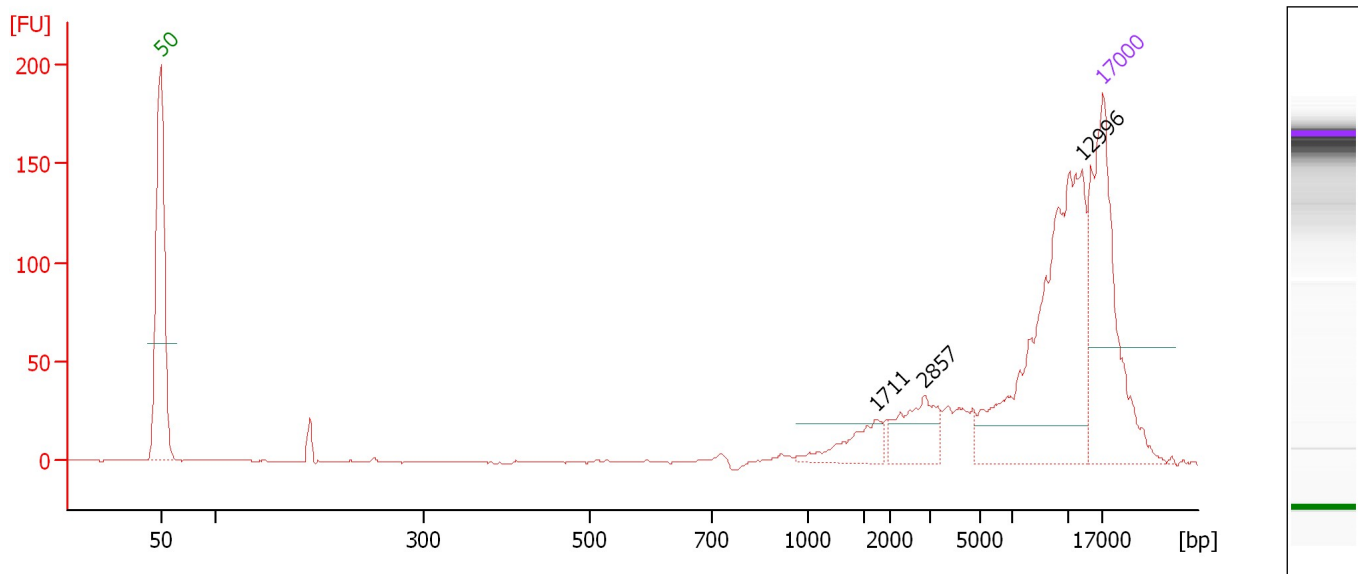
From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Area	% of Total	Size distribution in CV [%]	Color
855	35,095	11,240	26.90	824.5	97	51.4	Blue
9,891	15,229	12,132	7.97	300.0	35	14.1	Green

Assay Class: DNA 12000  
 Data Path: C:\...ettings\UC Davis\Desktop\DNA 12000\_2019-10-04\_001\_PB401.xad

Created: 10/4/2019 11:32:39 AM  
 Modified: 10/4/2019 3:05:11 PM

**Electropherogram Summary Continued ...**

HGTR3-P17(2)\_TS1\_15kb+10p



**Overall Results for sample 11 : HGTR3-P17(2) TS1 15kb+10p**

Number of peaks found: 3

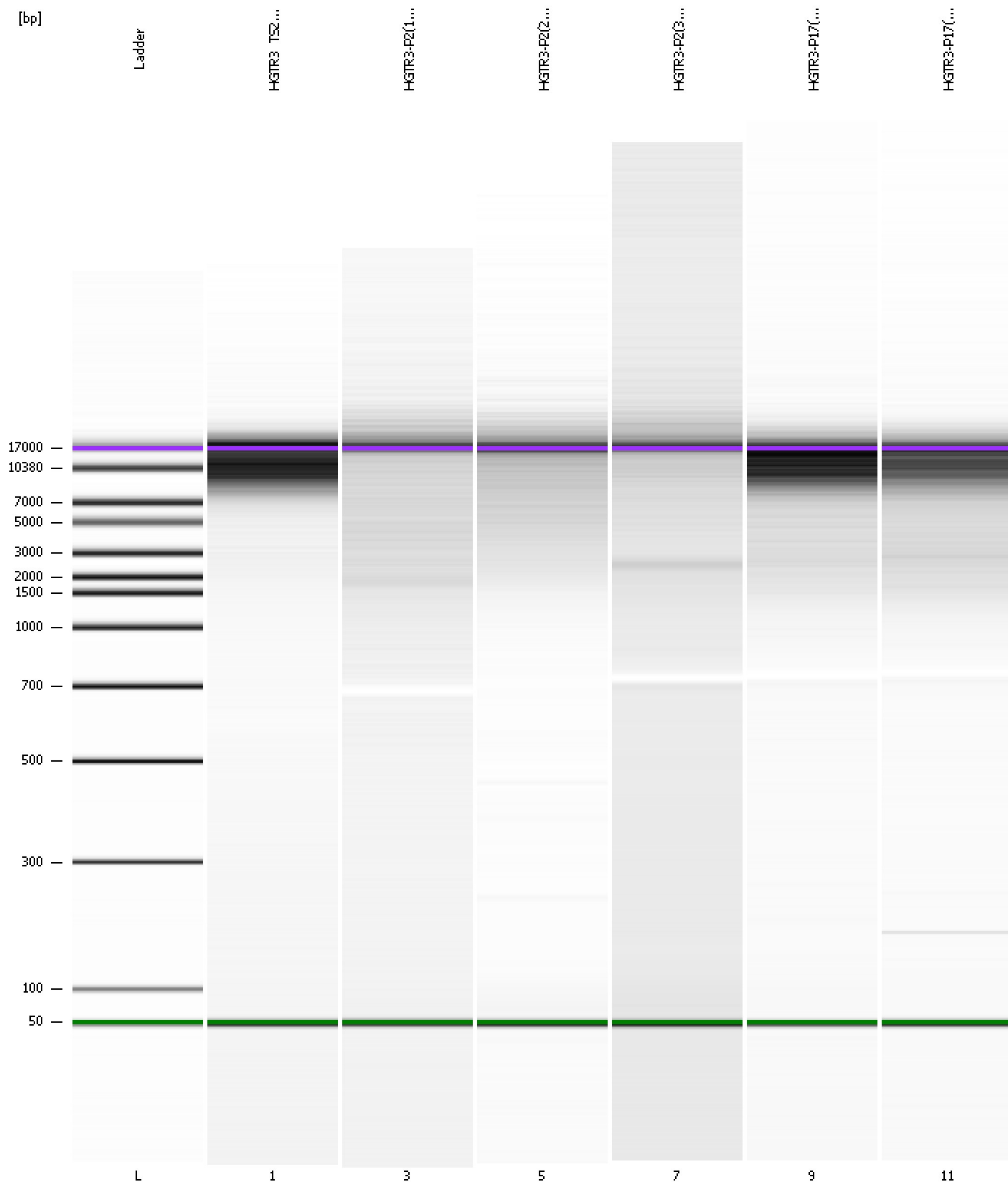
**Peak table for sample 11 : HGTR3-P17(2) TS1 15kb+10p**

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	1,711	0.86	0.8	
3	2,857	1.21	0.6	
4	12,996	6.87	0.8	
5	17,000	4.20	0.4	Upper Marker

Assay Class: DNA 12000  
Data Path: C:\...ettings\UC Davis\Desktop\DNA 12000\_2019-10-04\_001\_PB401.xad

Created: 10/4/2019 11:32:39 AM  
Modified: 10/4/2019 3:05:11 PM

Gel Image

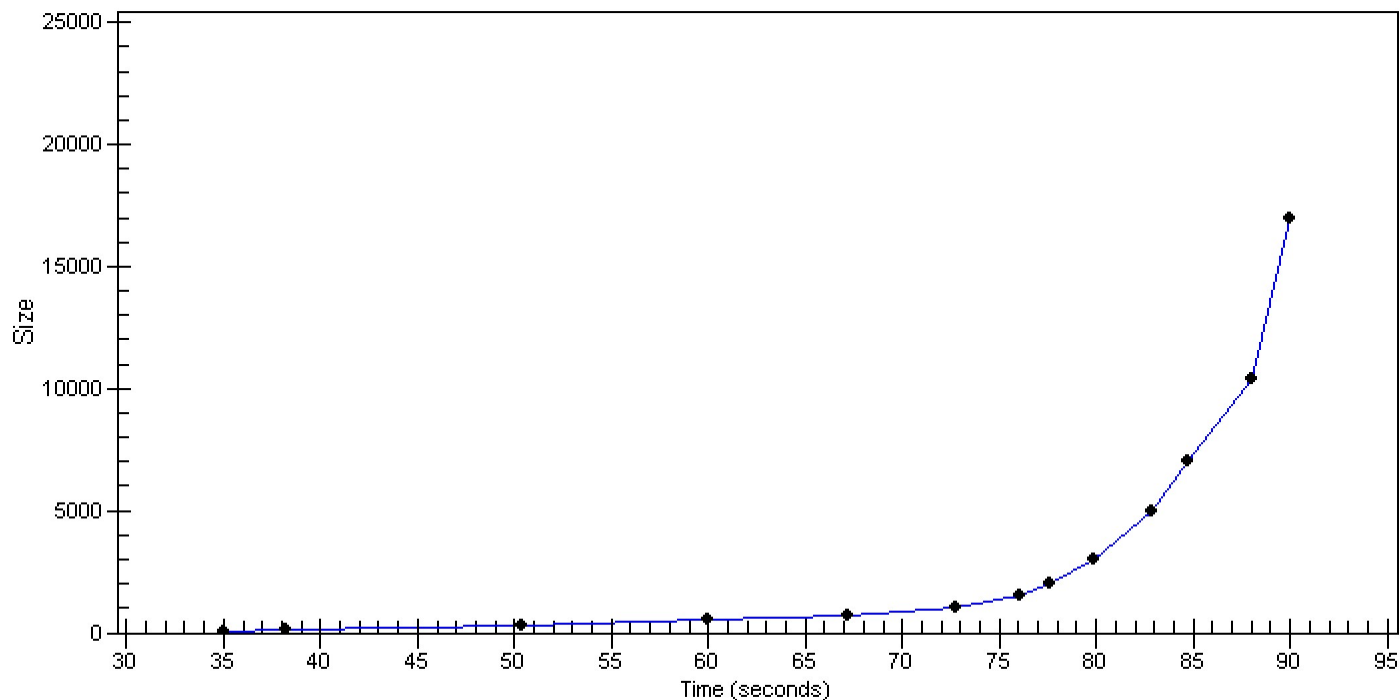


Assay Class: DNA 12000  
Data Path: C:\...ettings\UC Davis\Desktop\DNA 12000\_2019-10-04\_001\_PB401.xad

Created: 10/4/2019 11:32:39 AM  
Modified: 10/4/2019 3:05:11 PM

**Curves**

**Standard Curve**



Assay Class: DNA 12000  
 Data Path: C:\...ettings\UC Davis\Desktop\DNA 12000\_2019-10-04\_001\_PB401.xad

Created: 10/4/2019 11:32:39 AM  
 Modified: 10/4/2019 3:05:11 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		10/4/2019 12:05:56 PM	(GMT --07:00) Pacific Standard Time	User	ORGINIZA-7LCR CS
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-10-04\DNA 12000_2019-10-04_001.xad)		Instrument	Run		10/4/2019 11:32:45 AM	(GMT --07:00) Pacific Standard Time	User	ORGINIZA-7LCR CS
Product Number : G2938B		Instrument	Run		10/4/2019 11:32:45 AM	(GMT --07:00) Pacific Standard Time	User	ORGINIZA-7LCR CS
Name :		Instrument	Run		10/4/2019 11:32:45 AM	(GMT --07:00) Pacific Standard Time	User	ORGINIZA-7LCR CS
Vendor : Agilent Technologies		Instrument	Run		10/4/2019 11:32:45 AM	(GMT --07:00) Pacific Standard Time	User	ORGINIZA-7LCR CS
Serial# : DE13701287		Instrument	Run		10/4/2019 11:32:45 AM	(GMT --07:00) Pacific Standard Time	User	ORGINIZA-7LCR CS
Firmware : C.01.069		Instrument	Run		10/4/2019 11:32:45 AM	(GMT --07:00) Pacific Standard Time	User	ORGINIZA-7LCR CS
Cartridge : Electrode		Instrument	Run		10/4/2019 11:32:45 AM	(GMT --07:00) Pacific Standard Time	User	ORGINIZA-7LCR CS