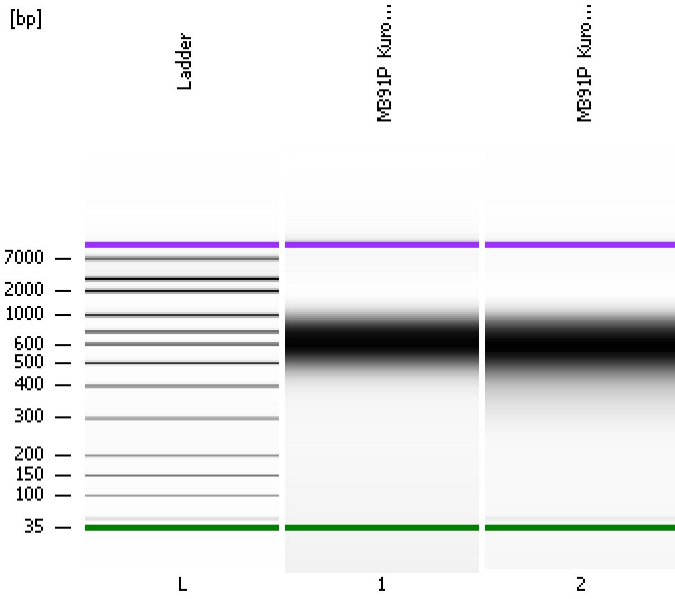


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...2016-08-05\2016-08-05\_003\_M391P\_BeforeAndAfter\_0.65X\_BC.xad

Created: 8/5/2016 3:51:48 PM  
Modified: 8/5/2016 4:34:31 PM

**Electrophoresis File Run Summary**



Instrument Information:

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

Assay Information:

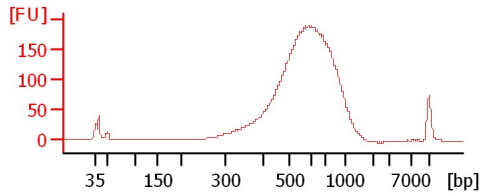
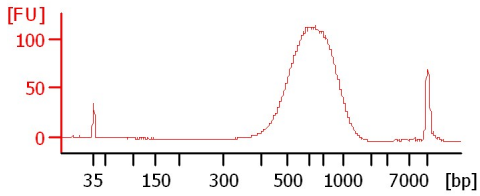
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy  
Assay Class: High Sensitivity DNA Assay  
Version: 1.03  
Assay Comments: Copyright © 2003-2010 Agilent Technologies

Chip Information:

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

**M391P\_Kurobe BC (1:2)**

**M391P\_Kurobe (1:2)**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...2016-08-05\2016-08-05\_003\_M391P\_BeforeAndAfter\_0.65X\_BC.xad

Created: 8/5/2016 3:51:48 PM  
Modified: 8/5/2016 4:34:31 PM

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

| Sample Name           | Sample Comment | Rest. Digest             | Status | Observation | Result Label | Result Color |
|-----------------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| M391P_Kurobe BC (1:2) |                | <input type="checkbox"/> | ✓      |             |              |              |
| M391P_Kurobe (1:2)    |                | <input type="checkbox"/> | ✓      |             |              |              |
| Ladder                |                | <input type="checkbox"/> | ✓      |             |              |              |

**Chip Lot #** **Reagent Kit Lot #**

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...2016-08-05\2016-08-05\_003\_M391P\_BeforeAndAfter\_0.65X\_BC.xad

Created: 8/5/2016 3:51:48 PM  
 Modified: 8/5/2016 4:34:31 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

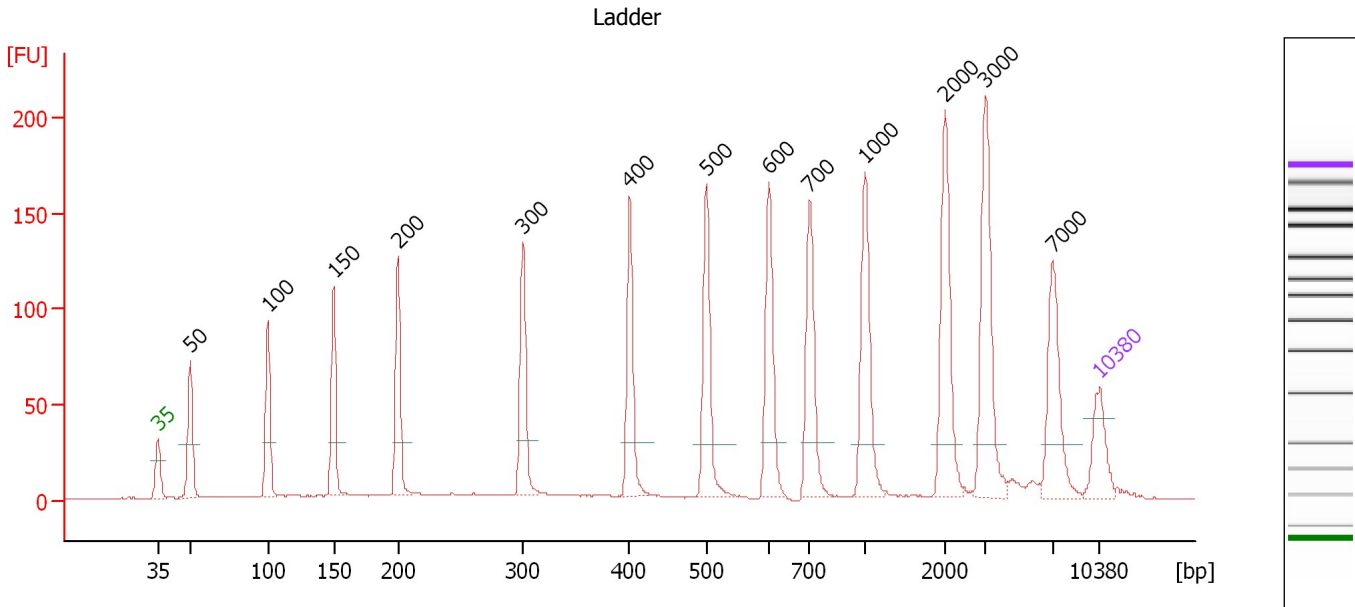
**Ladder**

| 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:\...2016-08-05\2016-08-05\_003\_M391P\_BeforeAndAfter\_0.65X\_BC.xad

Created: 8/5/2016 3:51:48 PM  
 Modified: 8/5/2016 4:34:31 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.3

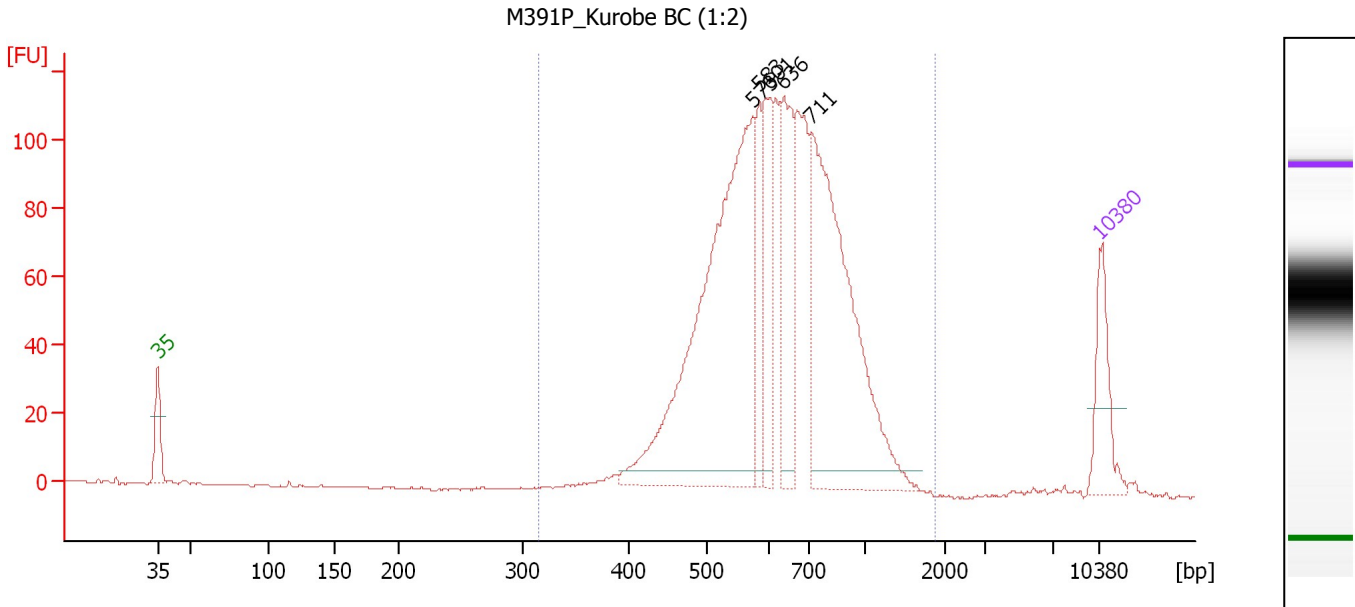
**Peak table for Ladder**

| 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  | 45.44                      |
| 3    | 100       | 150.00        | 2,272.7           | Ladder Peak  | 51.20                      |
| 4    | 150       | 150.00        | 1,515.2           | Ladder Peak  | 56.07                      |
| 5    | 200       | 150.00        | 1,136.4           | Ladder Peak  | 60.85                      |
| 6    | 300       | 150.00        | 757.6             | Ladder Peak  | 70.17                      |
| 7    | 400       | 150.00        | 568.2             | Ladder Peak  | 78.07                      |
| 8    | 500       | 150.00        | 454.5             | Ladder Peak  | 83.78                      |
| 9    | 600       | 150.00        | 378.8             | Ladder Peak  | 88.41                      |
| 10   | 700       | 150.00        | 324.7             | Ladder Peak  | 91.44                      |
| 11   | 1,000     | 150.00        | 227.3             | Ladder Peak  | 95.54                      |
| 12   | 2,000     | 150.00        | 113.6             | Ladder Peak  | 101.49                     |
| 13   | 3,000     | 150.00        | 75.8              | Ladder Peak  | 104.46                     |
| 14   | 7,000     | 150.00        | 32.5              | Ladder Peak  | 109.49                     |
| 15   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...2016-08-05\2016-08-05\_003\_M391P\_BeforeAndAfter\_0.65X\_BC.xad

Created: 8/5/2016 3:51:48 PM  
 Modified: 8/5/2016 4:34:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : M391P Kurobe BC (1:2)**

Number of peaks found: 5                      Corr. Area 1: 1,506.7  
 Noise: 0.3

**Peak table for sample 1 : M391P Kurobe BC (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    | 573       | 728.70        | 1,928.1           |              | 87.15                      |
| 3    | 583       | 110.41        | 286.8             |              | 87.64                      |
| 4    | 601       | 144.58        | 364.8             |              | 88.43                      |
| 5    | 636       | 185.12        | 440.7             |              | 89.52                      |
| 6    | 711       | 543.91        | 1,158.4           |              | 91.59                      |
| 7    | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |

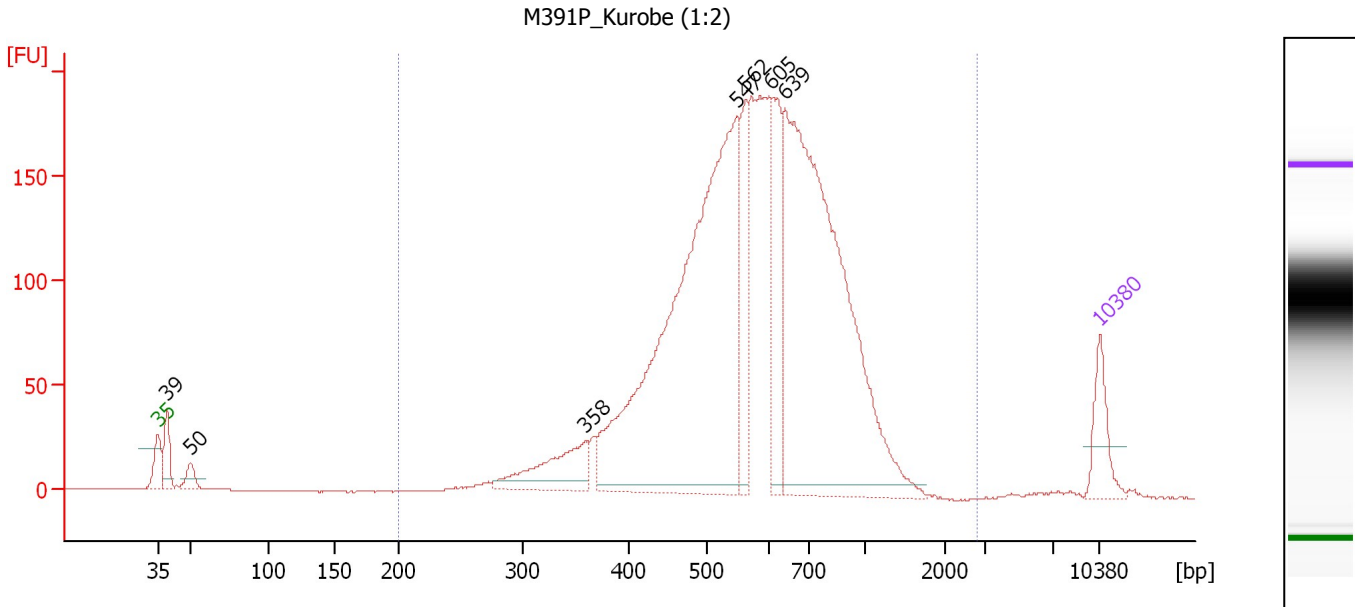
**Region table for sample 1 : M391P Kurobe BC (1:2)**

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 314       | 1,883   | 660               | 1,506.7    | 5,069.3           | 2,051.35             | 99         | 27.0                        |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...2016-08-05\2016-08-05\_003\_M391P\_BeforeAndAfter\_0.65X\_BC.xad

Created: 8/5/2016 3:51:48 PM  
 Modified: 8/5/2016 4:34:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : M391P\_Kurobe (1:2)**

Number of peaks found: 7                      Corr. Area 1: 3,113.8  
 Noise: 0.2

**Peak table for sample 2 : M391P\_Kurobe (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    | 39        | 92.72         | 3,582.4           |              | 43.69                      |
| 3    | 50        | 42.70         | 1,291.9           |              | 45.45                      |
| 4    | 358       | 172.20        | 728.4             |              | 74.77                      |
| 5    | 547       | 1,503.87      | 4,162.3           |              | 85.98                      |
| 6    | 562       | 177.19        | 477.5             |              | 86.66                      |
| 7    | 605       | 236.17        | 591.2             |              | 88.57                      |
| 8    | 639       | 1,336.99      | 3,169.0           |              | 89.60                      |
| 9    | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |

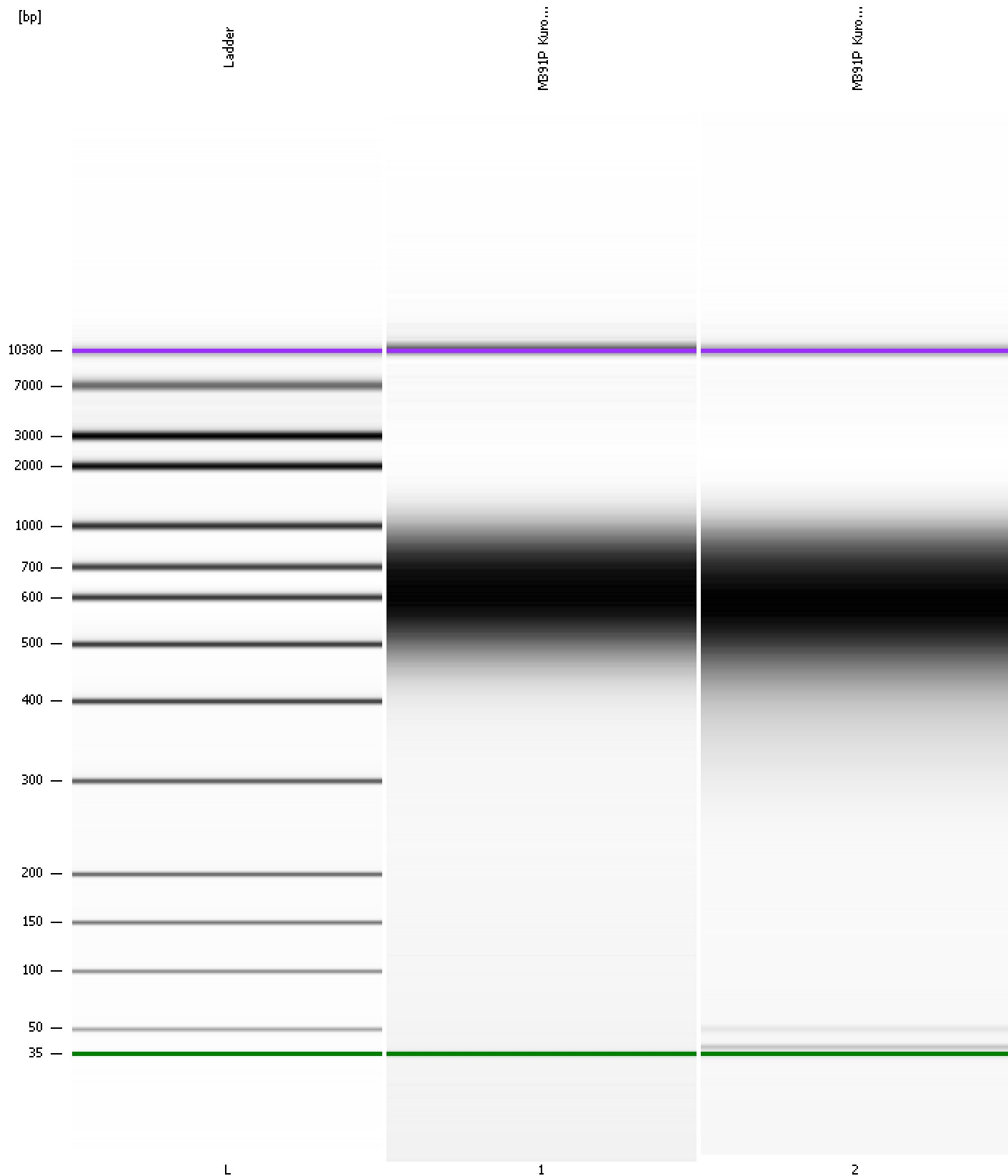
**Region table for sample 2 : M391P\_Kurobe (1:2)**

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|------------------|------------|-----------------------------|
| 200       | 2,797   | 612               | 3,113.8    | 11,111.3          | 4,014.73         | 97         | 30.6                        |

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...2016-08-05\2016-08-05\_003\_M391P\_BeforeAndAfter\_0.65X\_BC.xad

Created: 8/5/2016 3:51:48 PM  
Modified: 8/5/2016 4:34:31 PM

**Gel Image**



Assay Class: High Sensitivity DNA Assay Created: 8/5/2016 3:51:48 PM  
 Data Path: C:\...2016-08-05\2016-08-05\_003\_M391P\_BeforeAndAfter\_0.65X\_BC.xad Modified: 8/5/2016 4:34:31 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      |              | 8/5/2016 4:33:05 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\2016-08-05\2016-08-05_003.xad) |        | Instrument | Run      |              | 8/5/2016 3:51:53 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B  |        | Instrument | Run      |              | 8/5/2016 3:51:53 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name :   |        | Instrument | Run      |              | 8/5/2016 3:51:53 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies  |        | Instrument | Run      |              | 8/5/2016 3:51:53 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086   |        | Instrument | Run      |              | 8/5/2016 3:51:53 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069  |        | Instrument | Run      |              | 8/5/2016 3:51:53 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode  |        | Instrument | Run      |              | 8/5/2016 3:51:53 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |