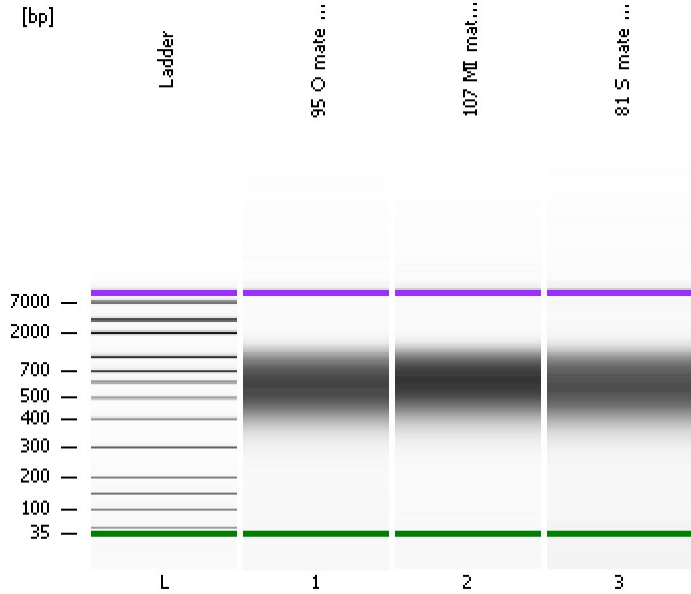


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r\2015-06-04\2015-06-04_004_HiSeq_088_MatePairLibraries.xad

Created: 6/4/2015 9:17:04 PM
Modified: 6/4/2015 10:00:00 PM

Electrophoresis File Run Summary



Instrument Information:

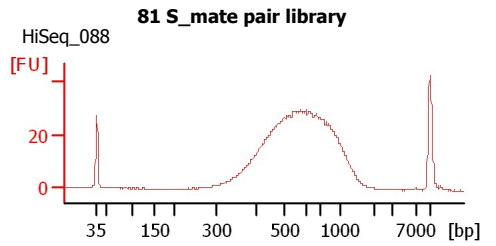
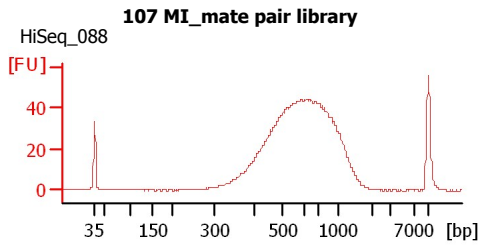
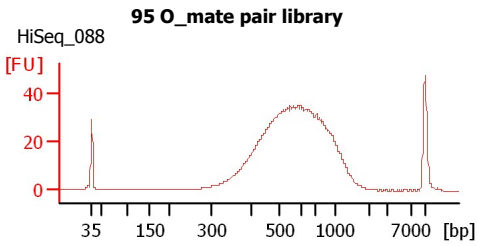
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r\2015-06-04\2015-06-04_004_HiSeq_088_MatePairLibraries.xad

Created: 6/4/2015 9:17:04 PM
 Modified: 6/4/2015 10:00:00 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|--------------------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| 95 O_mate pair library | HiSeq_088 | <input type="checkbox"/> | ✓ | | | |
| 107 MI_mate pair library | HiSeq_088 | <input type="checkbox"/> | ✓ | | | |
| 81 S_mate pair library | HiSeq_088 | <input type="checkbox"/> | ✓ | | | |
| Ladder | | <input type="checkbox"/> | ✓ | | | |

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r\2015-06-04\2015-06-04_004_HiSeq_088_MatePairLibraries.xad

Created: 6/4/2015 9:17:04 PM
Modified: 6/4/2015 10:00:00 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

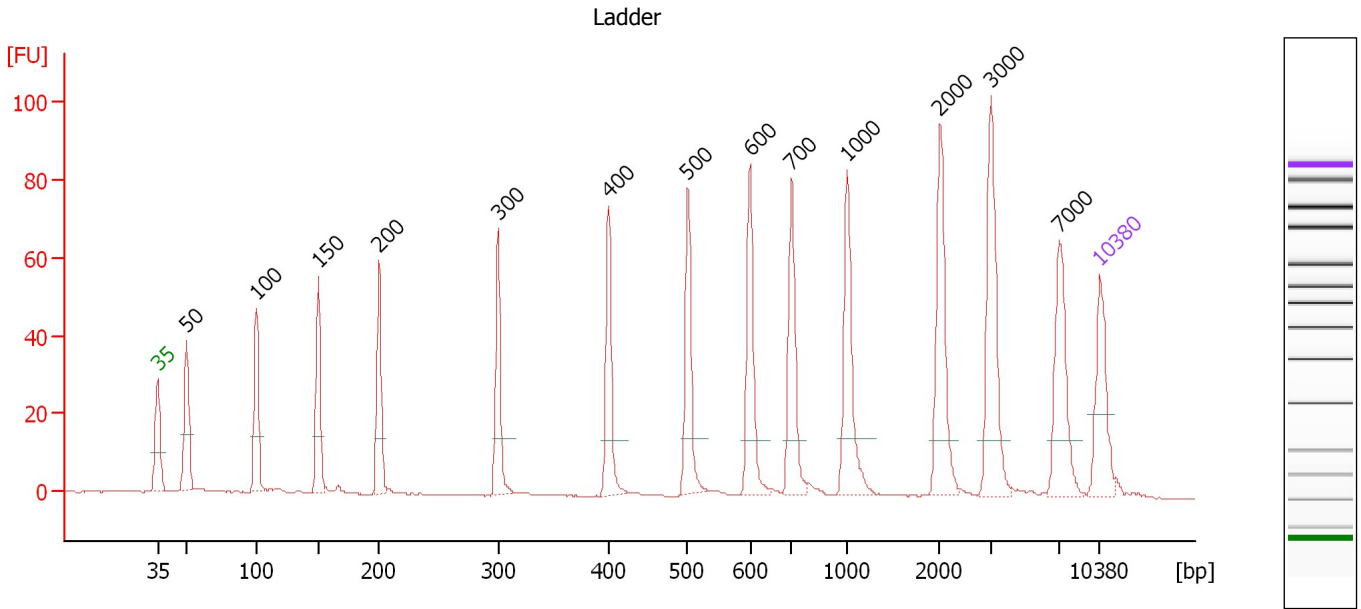
Ladder

| 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:\...r\2015-06-04\2015-06-04_004_HiSeq_088_MatePairLibraries.xad

Created: 6/4/2015 9:17:04 PM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

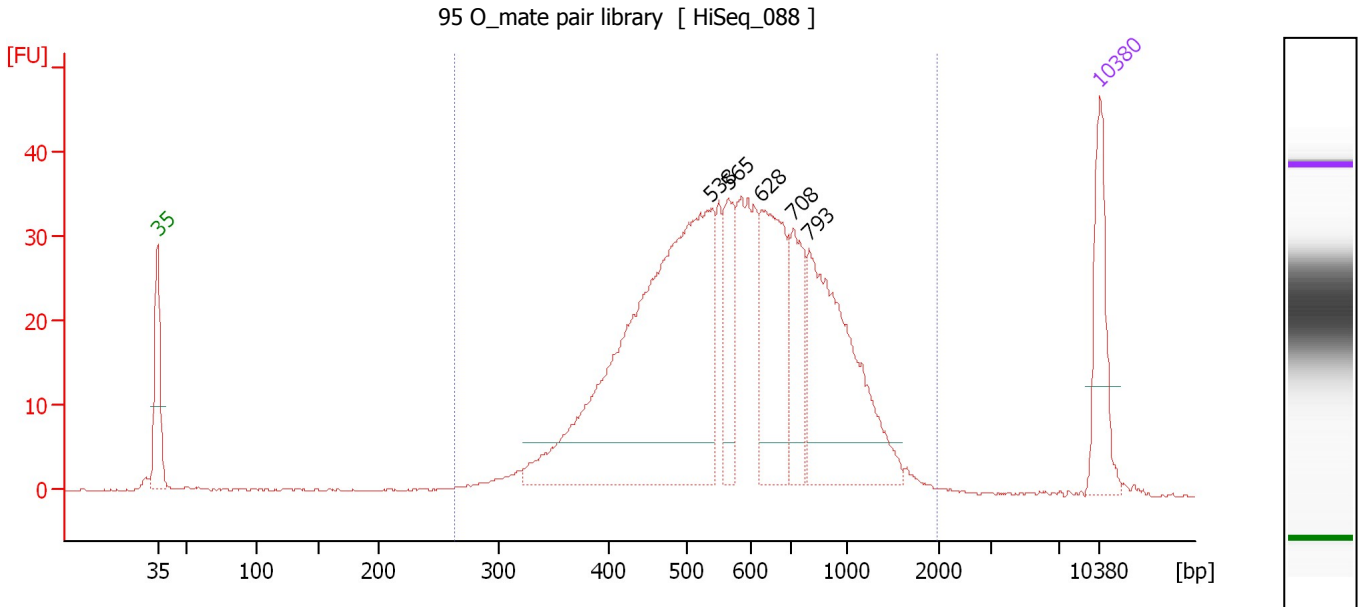
Peak table for Ladder

| 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 | 45.15 |
| 3 | 100 | 150.00 | 2,272.7 | Ladder Peak | 50.32 |
| 4 | 150 | 150.00 | 1,515.2 | Ladder Peak | 54.95 |
| 5 | 200 | 150.00 | 1,136.4 | Ladder Peak | 59.47 |
| 6 | 300 | 150.00 | 757.6 | Ladder Peak | 68.28 |
| 7 | 400 | 150.00 | 568.2 | Ladder Peak | 76.49 |
| 8 | 500 | 150.00 | 454.5 | Ladder Peak | 82.38 |
| 9 | 600 | 150.00 | 378.8 | Ladder Peak | 87.00 |
| 10 | 700 | 150.00 | 324.7 | Ladder Peak | 90.09 |
| 11 | 1,000 | 150.00 | 227.3 | Ladder Peak | 94.22 |
| 12 | 2,000 | 150.00 | 113.6 | Ladder Peak | 101.10 |
| 13 | 3,000 | 150.00 | 75.8 | Ladder Peak | 104.90 |
| 14 | 7,000 | 150.00 | 32.5 | Ladder Peak | 109.97 |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r\2015-06-04\2015-06-04_004_HiSeq_088_MatePairLibraries.xad

Created: 6/4/2015 9:17:04 PM
 Modified: 6/4/2015 10:00:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 95 O_mate pair library

Number of peaks found: 5 Corr. Area 1: 701.6
 Noise: 0.1

Peak table for sample 1 : 95 O_mate pair library

| 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 | 538 | 682.16 | 1,920.6 | | 84.14 |
| 3 | 565 | 70.75 | 189.9 | | 85.37 |
| 4 | 628 | 176.68 | 426.3 | | 87.87 |
| 5 | 708 | 96.32 | 206.0 | | 90.20 |
| 6 | 793 | 266.80 | 509.6 | | 91.37 |
| 7 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

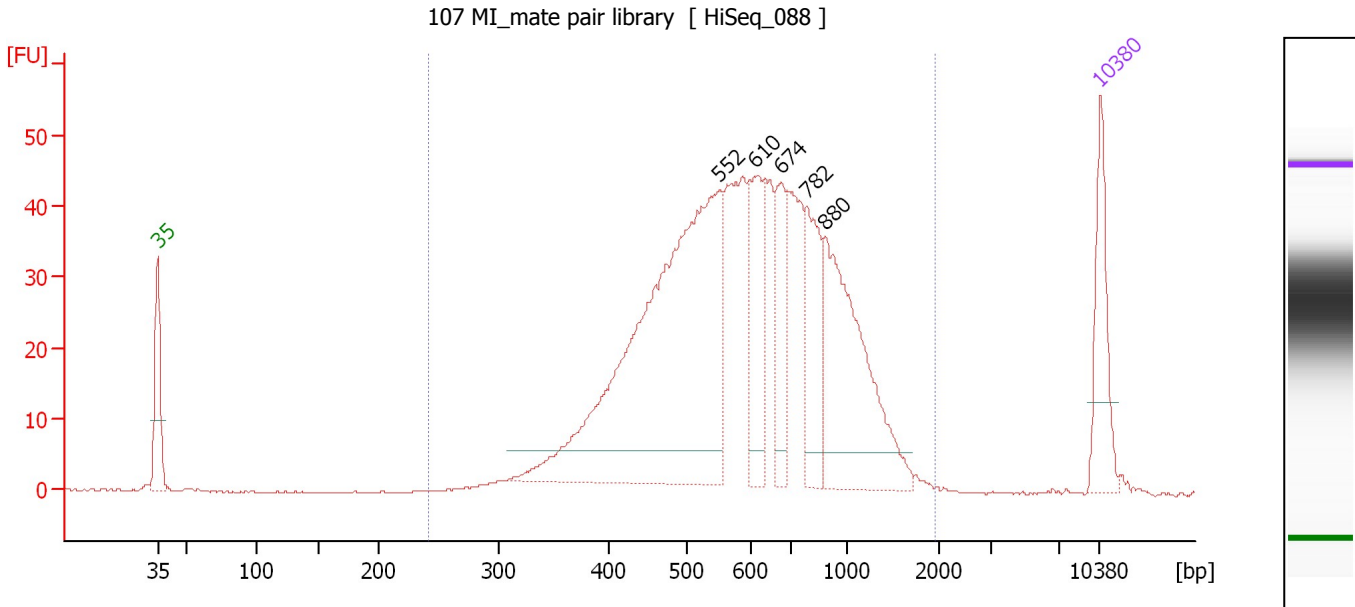
Region table for sample 1 : 95 O_mate pair library

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] | Conc. [pg/μl] |
|-----------|-------------------|---------|------------|-------------------|-------------------|-----------------------------|---------------|
| 264 | 636 | 1,971 | 701.6 | 4,690.7 | 97 | 39.1 | 1,694.98 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r\2015-06-04\2015-06-04_004_HiSeq_088_MatePairLibraries.xad

Created: 6/4/2015 9:17:04 PM
 Modified: 6/4/2015 10:00:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 107 MI mate pair library

Number of peaks found: 5 Corr. Area 1: 867.1
 Noise: 0.2

Peak table for sample 2 : 107 MI mate pair library

| 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 | 552 | 707.78 | 1,944.4 | | 84.76 |
| 3 | 610 | 118.82 | 295.2 | | 87.31 |
| 4 | 674 | 88.86 | 199.7 | | 89.29 |
| 5 | 782 | 108.07 | 209.5 | | 91.21 |
| 6 | 880 | 257.19 | 442.7 | | 92.57 |
| 7 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

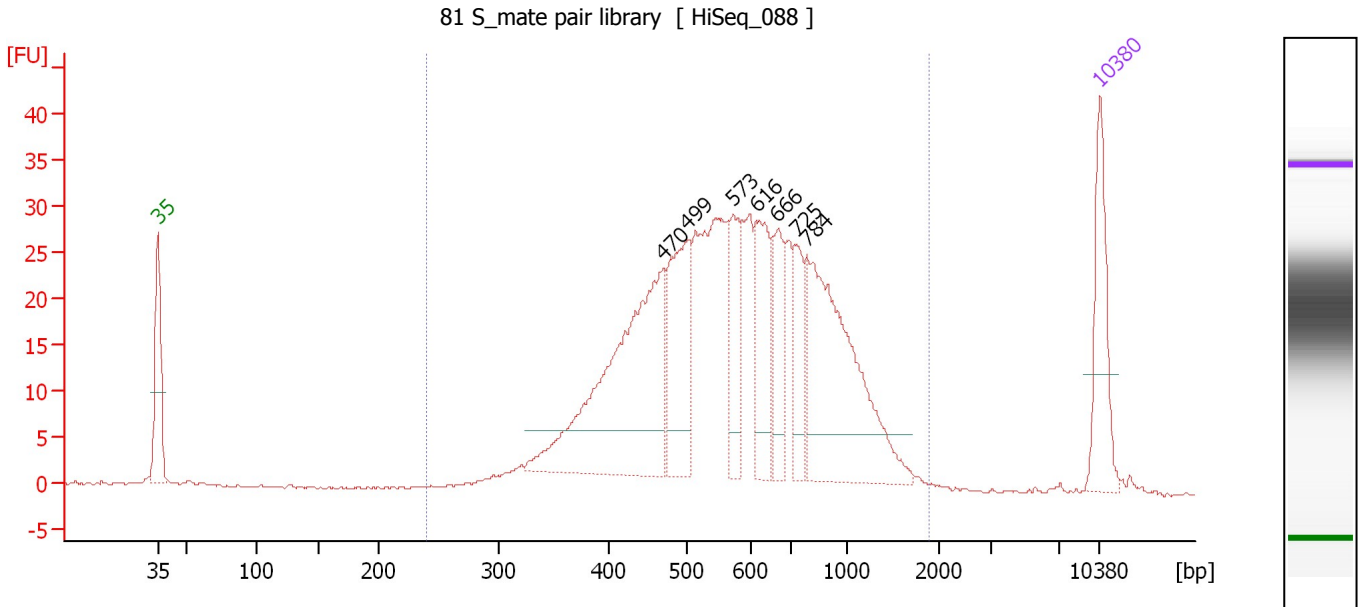
Region table for sample 2 : 107 MI mate pair library

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] | Conc. [pg/μl] |
|-----------|-------------------|---------|------------|-------------------|-------------------|-----------------------------|---------------|
| 242 | 661 | 1,950 | 867.1 | 4,980.8 | 98 | 39.0 | 1,864.43 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...r\2015-06-04\2015-06-04_004_HiSeq_088_MatePairLibraries.xad

Created: 6/4/2015 9:17:04 PM
 Modified: 6/4/2015 10:00:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 81 S_mate pair library

Number of peaks found: 7 Corr. Area 1: 601.9
 Noise: 0.1

Peak table for sample 3 : 81 S_mate pair library

| 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 | 470 | 367.82 | 1,186.6 | | 80.59 |
| 3 | 499 | 146.40 | 444.6 | | 82.32 |
| 4 | 573 | 78.56 | 207.6 | | 85.77 |
| 5 | 616 | 101.59 | 249.9 | | 87.50 |
| 6 | 666 | 67.40 | 153.2 | | 89.05 |
| 7 | 725 | 58.63 | 122.5 | | 90.43 |
| 8 | 784 | 276.68 | 535.0 | | 91.24 |
| 9 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

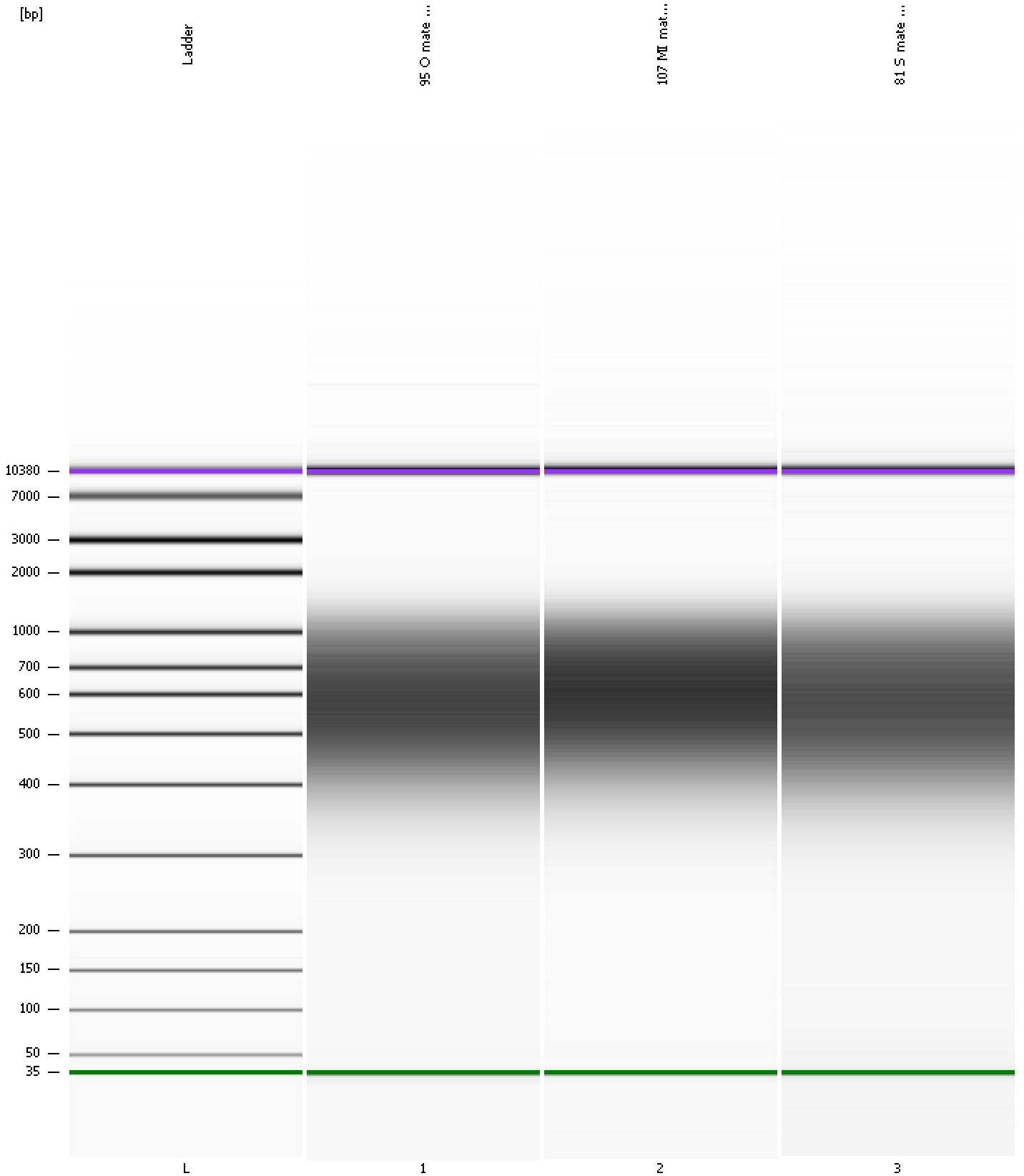
Region table for sample 3 : 81 S_mate pair library

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | Co % of Ior Total | Size distribution in CV [%] | Conc. [pg/μl] |
|-----------|-------------------|---------|------------|-------------------|-------------------|-----------------------------|---------------|
| 240 | 635 | 1,886 | 601.9 | 4,612.1 | 98 | 38.9 | 1,661.03 |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r\2015-06-04\2015-06-04_004_HiSeq_088_MatePairLibraries.xad

Created: 6/4/2015 9:17:04 PM
Modified: 6/4/2015 10:00:00 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...r\2015-06-04\2015-06-04_004_HiSeq_088_MatePairLibraries.xad

Created: 6/4/2015 9:17:04 PM
Modified: 6/4/2015 10:00:00 PM

Curves

Standard Curve

