

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-17\2015-04-17_004.xad

Created: 4/17/2015 4:09:51 PM
Modified: 4/17/2015 4:34:32 PM

Electrophoresis File Run Summary

Instrument Information:

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

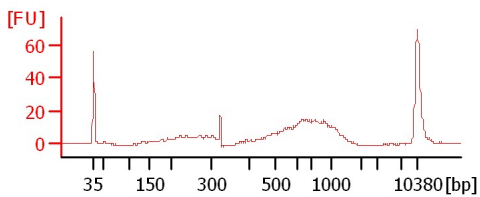
Assay Information:

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

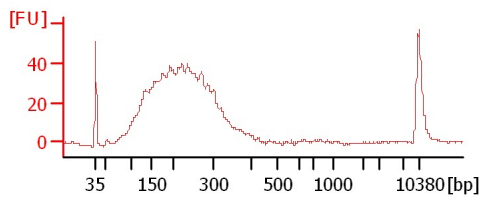
Chip Information:

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

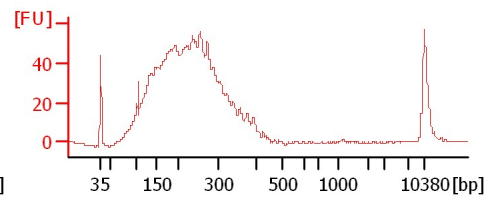
IR50xKit 2.5h 1 cDNA



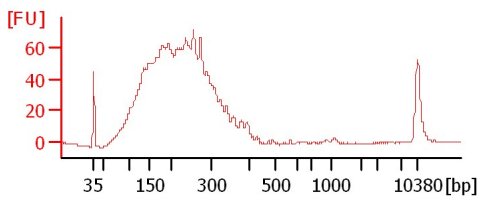
IR50xKit 2.5h 1 sheared



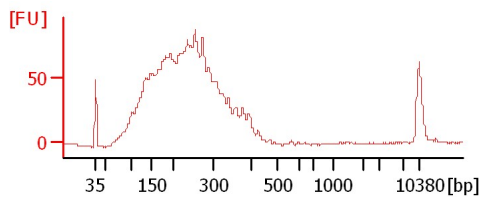
IR50 egg 1 sheared



IR50 egg 2 sheared



IR50 egg 3 sheared



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Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|-------------------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| IR50xKit 2.5h 1 cDNA | | <input type="checkbox"/> | ✓ | | | |
| IR50xKit 2.5h 1 sheared | | <input type="checkbox"/> | ✓ | | | |
| IR50 egg 1 sheared | | <input type="checkbox"/> | ✓ | | | |
| IR50 egg 2 sheared | | <input type="checkbox"/> | ✓ | | | |
| IR50 egg 3 sheared | | <input type="checkbox"/> | ✓ | | | |
| sample 6 | | <input type="checkbox"/> | | | | |
| sample 7 | | <input type="checkbox"/> | | | | |
| sample 8 | | <input type="checkbox"/> | | | | |
| sample 9 | | <input type="checkbox"/> | | | | |
| sample 10 | | <input type="checkbox"/> | | | | |
| sample 11 | | <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

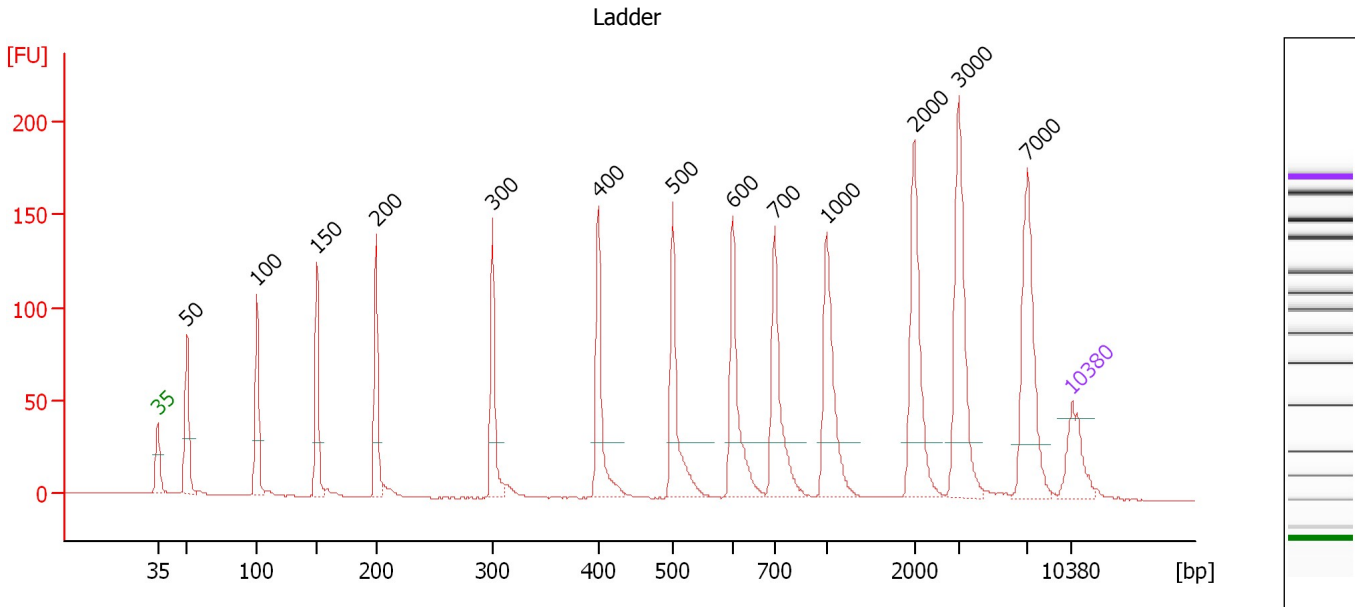
Ladder

| 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: 0.1

Peak table for Ladder

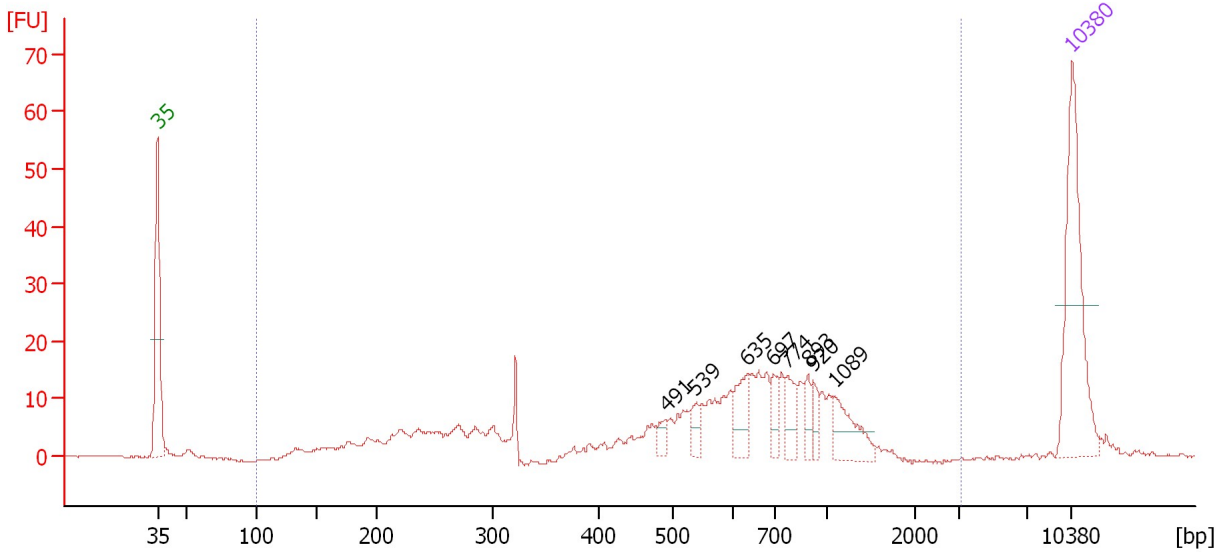
| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker | 43.00 |
| 2 | 50 | 150.00 | 4,545.5 | Ladder Peak | 45.25 |
| 3 | 100 | 150.00 | 2,272.7 | Ladder Peak | 50.59 |
| 4 | 150 | 150.00 | 1,515.2 | Ladder Peak | 55.21 |
| 5 | 200 | 150.00 | 1,136.4 | Ladder Peak | 59.75 |
| 6 | 300 | 150.00 | 757.6 | Ladder Peak | 68.64 |
| 7 | 400 | 150.00 | 568.2 | Ladder Peak | 76.72 |
| 8 | 500 | 150.00 | 454.5 | Ladder Peak | 82.42 |
| 9 | 600 | 150.00 | 378.8 | Ladder Peak | 87.05 |
| 10 | 700 | 150.00 | 324.7 | Ladder Peak | 90.24 |
| 11 | 1,000 | 150.00 | 227.3 | Ladder Peak | 94.23 |
| 12 | 2,000 | 150.00 | 113.6 | Ladder Peak | 100.92 |
| 13 | 3,000 | 150.00 | 75.8 | Ladder Peak | 104.33 |
| 14 | 7,000 | 150.00 | 32.5 | Ladder Peak | 109.59 |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

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Electropherogram Summary Continued ...

IR50xKit 2.5h 1 cDNA



Overall Results for sample 1 : IR50xKit 2.5h 1 cDNA

Number of peaks found: 8 Corr. Area 1: 308.3
 Noise: 0.2

Peak table for sample 1 : IR50xKit 2.5h 1 cDNA

| 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 | 491 | 6.84 | 21.1 | | 81.91 |
| 3 | 539 | 10.26 | 28.8 | | 84.21 |
| 4 | 635 | 22.56 | 53.8 | | 88.17 |
| 5 | 697 | 11.58 | 25.2 | | 90.15 |
| 6 | 774 | 14.88 | 29.1 | | 91.23 |
| 7 | 893 | 10.06 | 17.1 | | 92.80 |
| 8 | 920 | 8.99 | 14.8 | | 93.16 |
| 9 | 1,089 | 24.43 | 34.0 | | 94.83 |
| 10 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

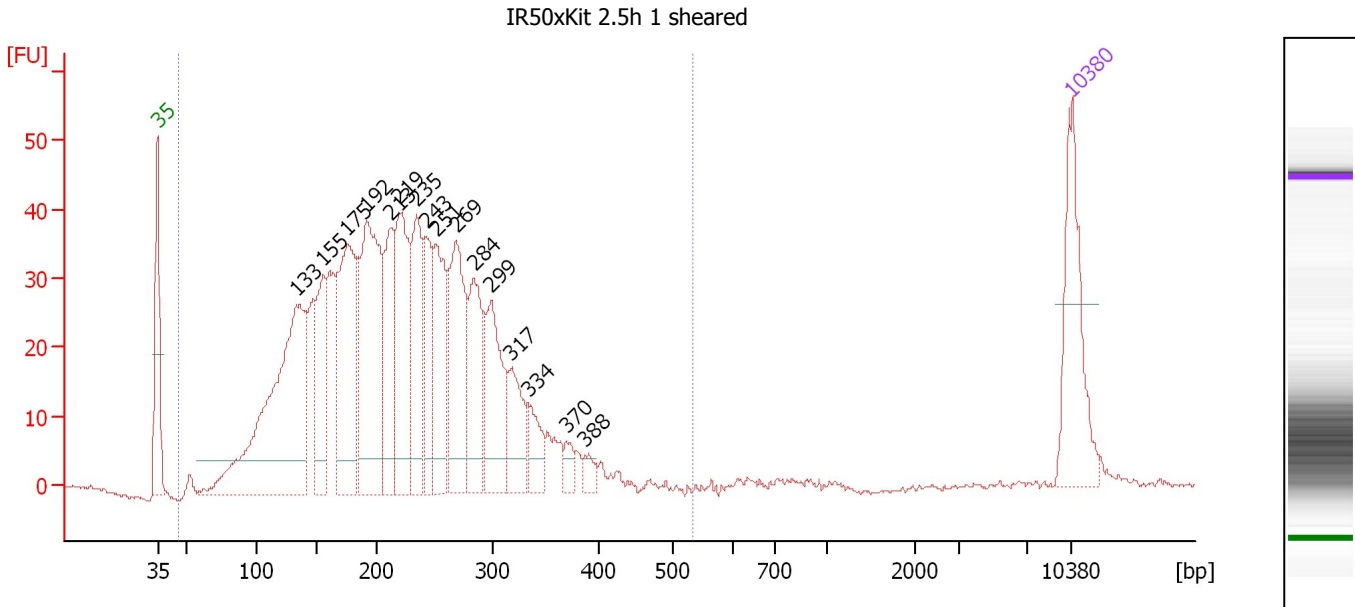
Region table for sample 1 : IR50xKit 2.5h 1 cDNA

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Color |
|-----------|-------------------|---------|------------|-------------------|------------|-----------------------------|---------------|-------|
| 100 | 628 | 3,120 | 308.3 | 1,506.4 | 97 | 48.7 | 394.90 | Blue |

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Electropherogram Summary Continued ...



Overall Results for sample 2 : IR50xKit 2.5h 1 sheared

Number of peaks found: 16 Corr. Area 1: 1,079.6
 Noise: 0.2

Peak table for sample 2 : IR50xKit 2.5h 1 sheared

| 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 | 133 | 374.69 | 4,280.0 | | 53.61 |
| 3 | 155 | 94.58 | 924.7 | | 55.66 |
| 4 | 175 | 184.17 | 1,593.2 | | 57.49 |
| 5 | 192 | 220.94 | 1,745.5 | | 59.00 |
| 6 | 213 | 96.56 | 687.8 | | 60.88 |
| 7 | 219 | 143.36 | 990.1 | | 61.47 |
| 8 | 235 | 104.40 | 673.7 | | 62.84 |
| 9 | 243 | 68.54 | 428.2 | | 63.53 |
| 10 | 251 | 103.68 | 625.2 | | 64.31 |
| 11 | 269 | 136.32 | 768.5 | | 65.86 |
| 12 | 284 | 91.57 | 488.2 | | 67.23 |
| 13 | 299 | 98.47 | 498.8 | | 68.56 |
| 14 | 317 | 59.66 | 285.1 | | 70.02 |
| 15 | 334 | 32.31 | 146.5 | | 71.39 |
| 16 | 370 | 12.83 | 52.6 | | 74.27 |
| 17 | 388 | 11.50 | 44.9 | | 75.74 |
| 18 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

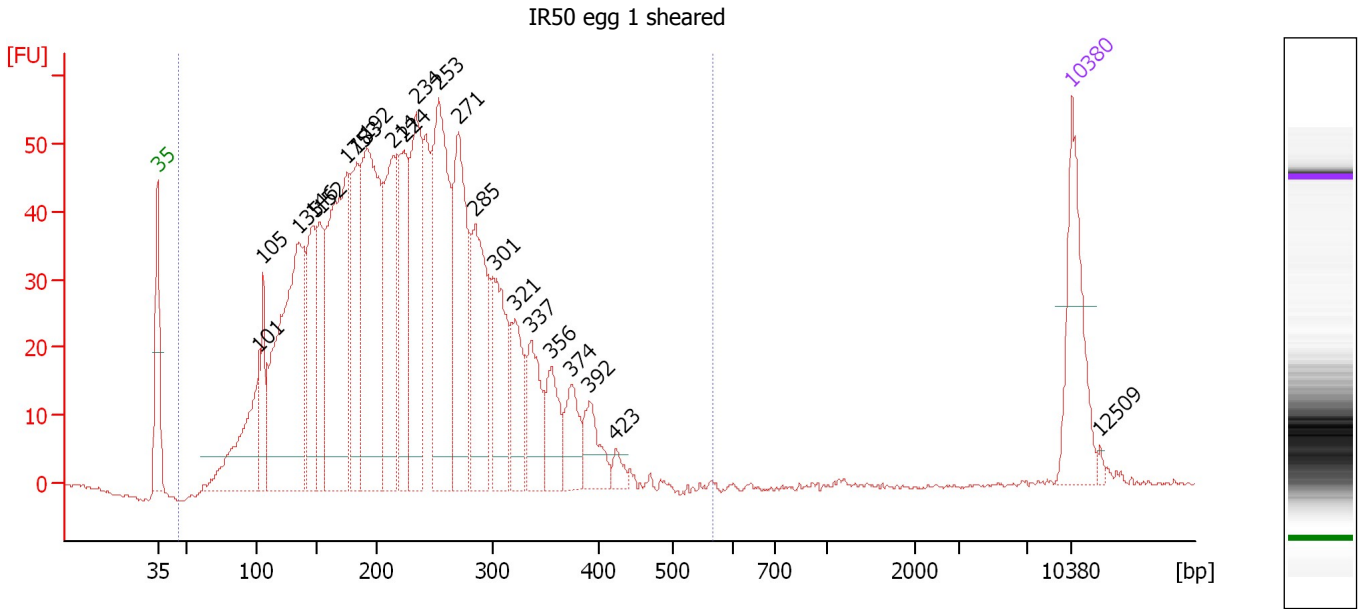
Region table for sample 2 : IR50xKit 2.5h 1 sheared

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Color |
|-----------|-------------------|---------|------------|-------------------|------------|-----------------------------|---------------|-------|
| 46 | 222 | 535 | 1,079.6 | 15,926.6 | 99 | 30.9 | 1,999.55 | Blue |

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Electropherogram Summary Continued ...



Overall Results for sample 3 : IR50 egg 1 sheared

Number of peaks found: 22 Corr. Area 1: 1,524.5
 Noise: 0.3

Peak table for sample 3 : IR50 egg 1 sheared

| 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 | 101 | 136.20 | 2,036.8 | | 50.71 |
| 3 | 105 | 67.45 | 970.0 | | 51.08 |
| 4 | 135 | 352.10 | 3,946.8 | | 53.84 |
| 5 | 146 | 125.46 | 1,299.5 | | 54.87 |
| 6 | 152 | 96.94 | 963.8 | | 55.43 |
| 7 | 175 | 299.85 | 2,595.2 | | 57.49 |
| 8 | 183 | 122.54 | 1,012.9 | | 58.23 |
| 9 | 192 | 288.58 | 2,282.7 | | 58.98 |
| 10 | 214 | 156.22 | 1,106.2 | | 60.99 |
| 11 | 224 | 120.74 | 816.8 | | 61.88 |
| 12 | 234 | 178.71 | 1,154.8 | | 62.81 |
| 13 | 253 | 246.61 | 1,474.6 | | 64.50 |
| 14 | 271 | 174.42 | 976.1 | | 66.04 |
| 15 | 285 | 140.64 | 746.5 | | 67.35 |
| 16 | 301 | 92.71 | 466.1 | | 68.75 |
| 17 | 321 | 71.78 | 338.8 | | 70.34 |
| 18 | 337 | 62.88 | 283.0 | | 71.60 |
| 19 | 356 | 49.70 | 211.7 | | 73.14 |
| 20 | 374 | 41.33 | 167.3 | | 74.64 |
| 21 | 392 | 39.98 | 154.7 | | 76.04 |
| 22 | 423 | 11.45 | 41.0 | | 78.05 |
| 23 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 24 | 12,509 | 0.00 | 0.0 | | 115.15 |

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Electropherogram Summary Continued ...

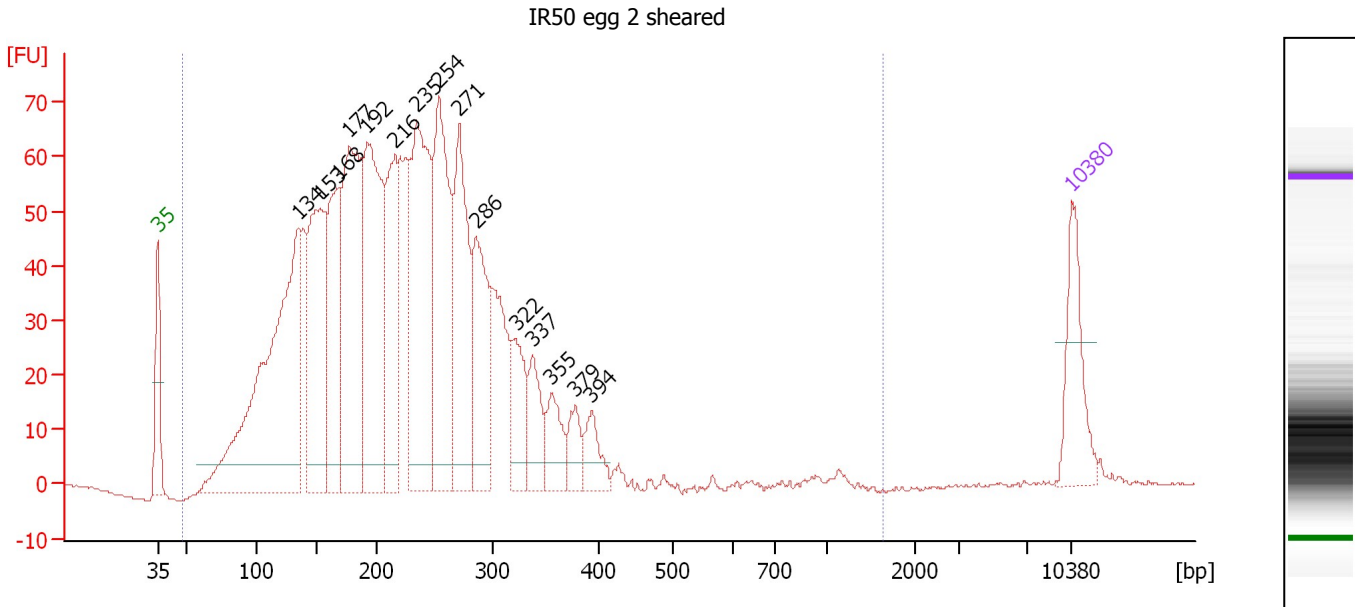
... Region table for sample 3 : IR50 egg 1 sheared

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | % of Total | Size distribution in CV [%] | Conc. [pg/ μ l] | Color |
|-----------|-------------------|---------|------------|-------------------|------------|-----------------------------|---------------------|-------|
| 45 | 228 | 567 | 1,524.5 | 24,055.5 | 99 | 32.7 | 3,024.96 | ■ |

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 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-17\2015-04-17_004.xad

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Electropherogram Summary Continued ...



Overall Results for sample 4 : IR50 egg 2 sheared

Number of peaks found: 15 Corr. Area 1: 1,875.2
 Noise: 0.2

Peak table for sample 4 : IR50 egg 2 sheared

| 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 | 134 | 681.62 | 7,680.1 | | 53.78 |
| 3 | 153 | 308.99 | 3,058.1 | | 55.49 |
| 4 | 168 | 239.08 | 2,151.9 | | 56.88 |
| 5 | 177 | 384.57 | 3,286.9 | | 57.69 |
| 6 | 192 | 385.08 | 3,038.9 | | 59.02 |
| 7 | 216 | 196.88 | 1,381.2 | | 61.17 |
| 8 | 235 | 360.15 | 2,324.6 | | 62.84 |
| 9 | 254 | 312.95 | 1,866.4 | | 64.55 |
| 10 | 271 | 246.90 | 1,379.3 | | 66.08 |
| 11 | 286 | 171.02 | 907.0 | | 67.37 |
| 12 | 322 | 84.12 | 395.8 | | 70.42 |
| 13 | 337 | 67.22 | 301.9 | | 71.66 |
| 14 | 355 | 57.81 | 246.7 | | 73.09 |
| 15 | 379 | 35.97 | 143.9 | | 75.00 |
| 16 | 394 | 41.83 | 160.9 | | 76.24 |
| 17 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

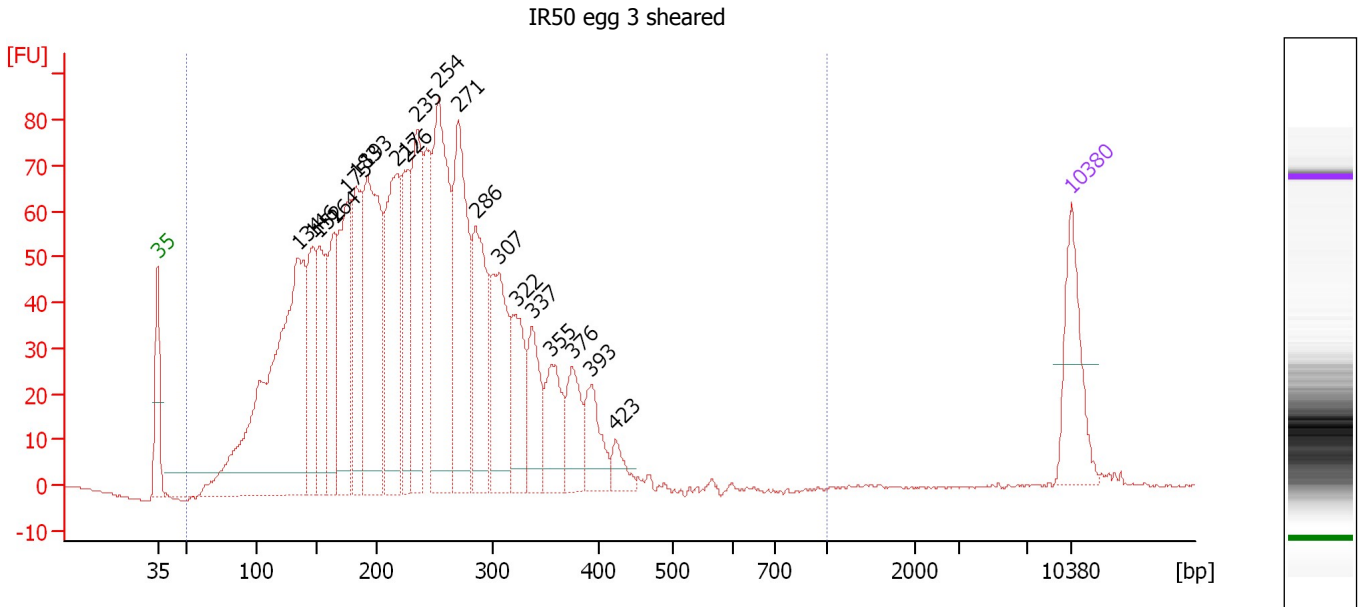
Region table for sample 4 : IR50 egg 2 sheared

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Color |
|-----------|-------------------|---------|------------|-------------------|------------|-----------------------------|---------------|-------|
| 47 | 225 | 1,634 | 1,875.2 | 31,658.1 | 100 | 38.3 | 3,905.39 | Blue |

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Electropherogram Summary Continued ...



Overall Results for sample 5 : IR50 egg 3 sheared

Number of peaks found: 20 Corr. Area 1: 2,165.0
 Noise: 0.3

Peak table for sample 5 : IR50 egg 3 sheared

| 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 | 134 | 645.54 | 7,291.1 | | 53.75 |
| 3 | 146 | 127.40 | 1,320.5 | | 54.86 |
| 4 | 152 | 135.27 | 1,348.5 | | 55.39 |
| 5 | 164 | 142.36 | 1,313.2 | | 56.51 |
| 6 | 175 | 198.05 | 1,710.2 | | 57.52 |
| 7 | 183 | 160.21 | 1,326.9 | | 58.20 |
| 8 | 193 | 319.45 | 2,513.7 | | 59.07 |
| 9 | 217 | 248.03 | 1,728.3 | | 61.30 |
| 10 | 226 | 131.74 | 882.6 | | 62.07 |
| 11 | 235 | 197.63 | 1,272.0 | | 62.90 |
| 12 | 254 | 313.82 | 1,872.5 | | 64.54 |
| 13 | 271 | 247.77 | 1,386.2 | | 66.04 |
| 14 | 286 | 162.07 | 858.5 | | 67.40 |
| 15 | 307 | 147.75 | 729.6 | | 69.19 |
| 16 | 322 | 100.44 | 472.0 | | 70.45 |
| 17 | 337 | 81.28 | 365.1 | | 71.66 |
| 18 | 355 | 79.99 | 341.1 | | 73.11 |
| 19 | 376 | 65.92 | 265.9 | | 74.76 |
| 20 | 393 | 60.92 | 234.8 | | 76.16 |
| 21 | 423 | 23.03 | 82.4 | | 78.05 |
| 22 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

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Electropherogram Summary Continued ...

... Region table for sample 5 : IR50 egg 3 sheared

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | % of Total | Size distribution in CV [%] | Conc. [pg/ μ l] | Color |
|-----------|-------------------|---------|------------|-------------------|------------|-----------------------------|---------------------|-------|
| 50 | 234 | 1,000 | 2,165.0 | 28,478.8 | 100 | 32.8 | 3,671.53 | ■ |

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Created: 4/17/2015 4:09:51 PM
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Gel Image

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Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-17\2015-04-17_004.xad

Created: 4/17/2015 4:09:51 PM
Modified: 4/17/2015 4:34:32 PM

Invalid Samples

Sample 6 has not been run, no results available.

Sample 7 has not been run, no results available.

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

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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: 6) | | Instrument | Run | | 4/17/2015 4:34:02 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-04-17\2015-04-17_004.xad) | | Instrument | Run | | 4/17/2015 4:09:57 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 4/17/2015 4:09:57 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 4/17/2015 4:09:57 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 4/17/2015 4:09:57 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 4/17/2015 4:09:57 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 4/17/2015 4:09:57 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 4/17/2015 4:09:57 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |