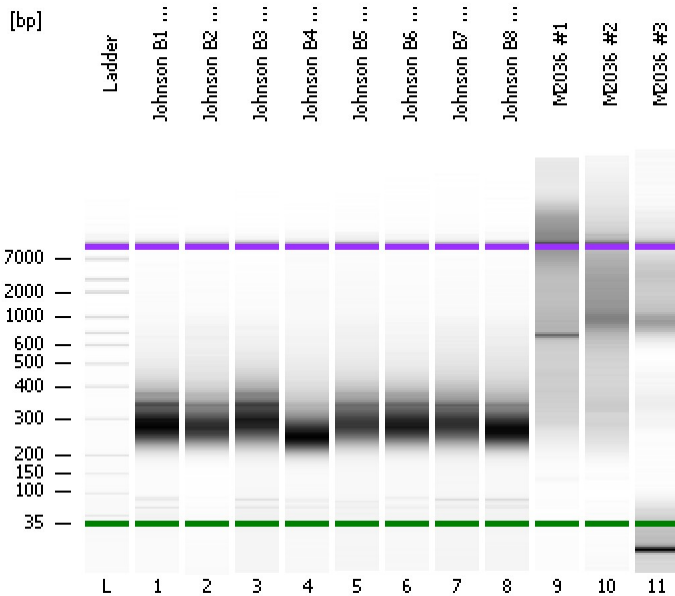


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-08\2013-05-08_003.xad

Created: 5/8/2013 4:46:47 PM
Modified: 5/8/2013 5:33:48 PM

Electrophoresis File Run Summary



Instrument Information:

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

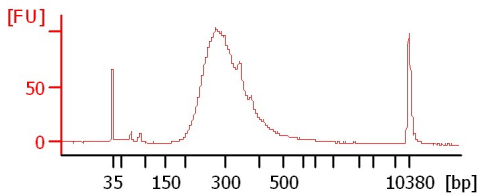
Assay Information:

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

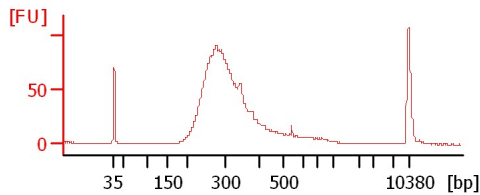
Chip Information:

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

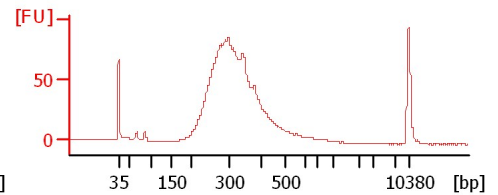
Johnson B1 mRNA Lib 1:3



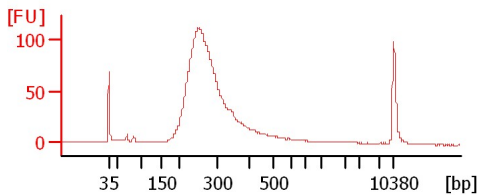
Johnson B2 mRNA Lib 1:5



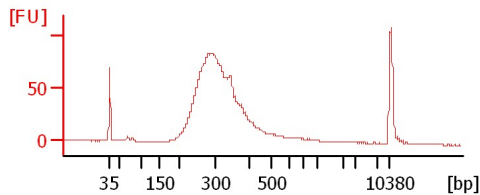
Johnson B3 mRNA Lib 1:3



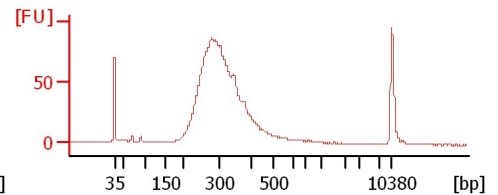
Johnson B4 mRNA Lib 1:3



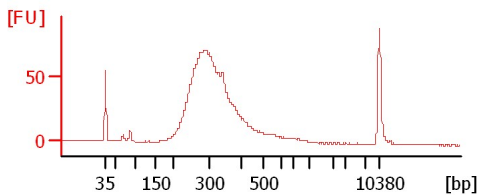
Johnson B5 mRNA Lib 1:8



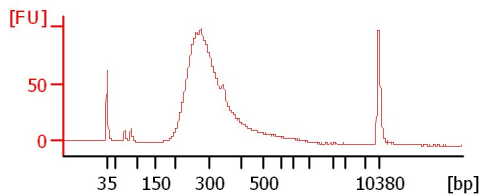
Johnson B6 mRNA Lib 1:6



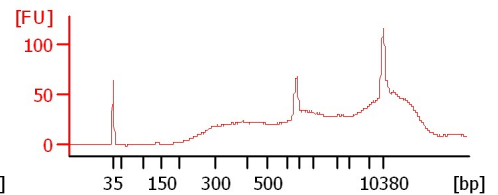
Johnson B7 mRNA Lib 1:8



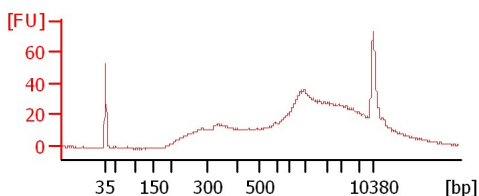
Johnson B8 mRNA Lib 1:7



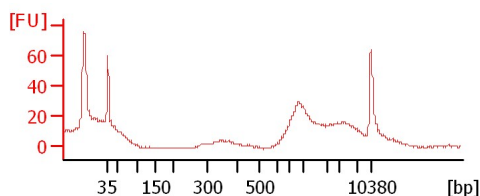
M2036 #1



M2036 #2



M2036 #3



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-08\2013-05-08_003.xad

Created: 5/8/2013 4:46:47 PM
Modified: 5/8/2013 5:33:48 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|-------------------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| Johnson B1 mRNA Lib 1:3 | | <input type="checkbox"/> | ✓ | | | |
| Johnson B2 mRNA Lib 1:5 | | <input type="checkbox"/> | ✓ | | | |
| Johnson B3 mRNA Lib 1:3 | | <input type="checkbox"/> | ✓ | | | |
| Johnson B4 mRNA Lib 1:3 | | <input type="checkbox"/> | ✓ | | | |
| Johnson B5 mRNA Lib 1:8 | | <input type="checkbox"/> | ✓ | | | |
| Johnson B6 mRNA Lib 1:6 | | <input type="checkbox"/> | ✓ | | | |
| Johnson B7 mRNA Lib 1:8 | | <input type="checkbox"/> | ✓ | | | |
| Johnson B8 mRNA Lib 1:7 | | <input type="checkbox"/> | ✓ | | | |
| M2036 #1 | | <input type="checkbox"/> | ✓ | | | |
| M2036 #2 | | <input type="checkbox"/> | ✓ | | | |
| M2036 #3 | | <input type="checkbox"/> | ✓ | | | |
| Ladder | | <input type="checkbox"/> | ✓ | | | |

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-08\2013-05-08_003.xad

Created: 5/8/2013 4:46:47 PM
Modified: 5/8/2013 5:33:48 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

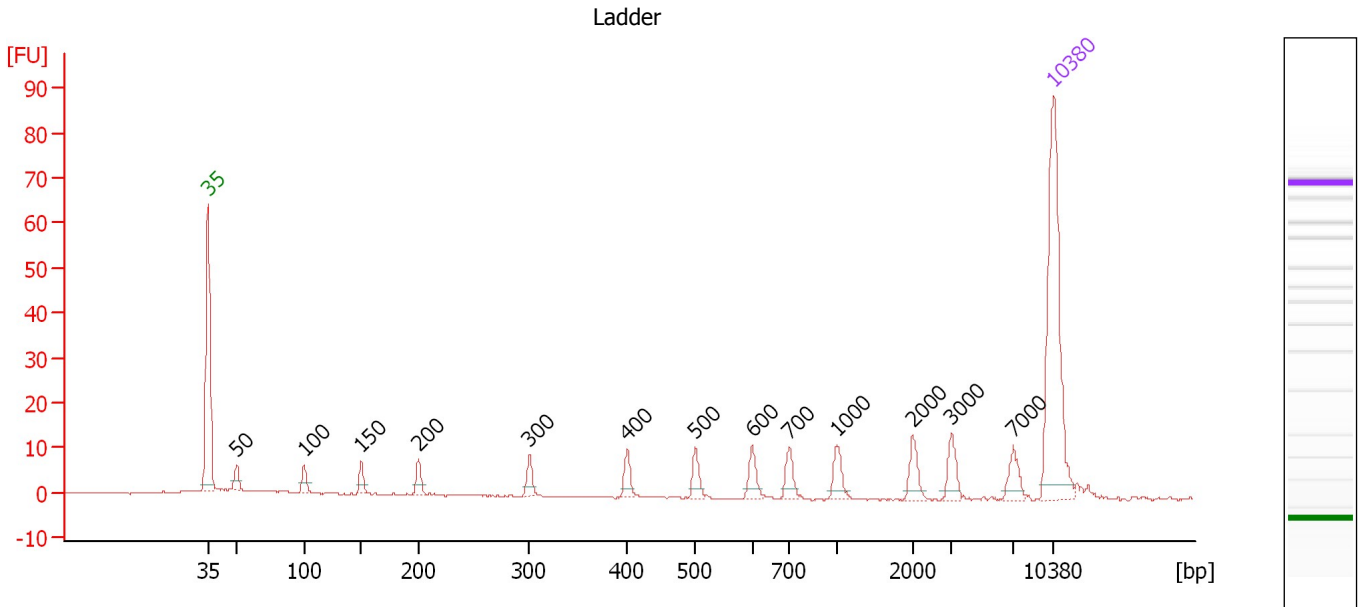
Ladder

| 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:\...ents and Settings\Bioanalyzer\2013-05-08\2013-05-08_003.xad

Created: 5/8/2013 4:46:47 PM
 Modified: 5/8/2013 5:33:48 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

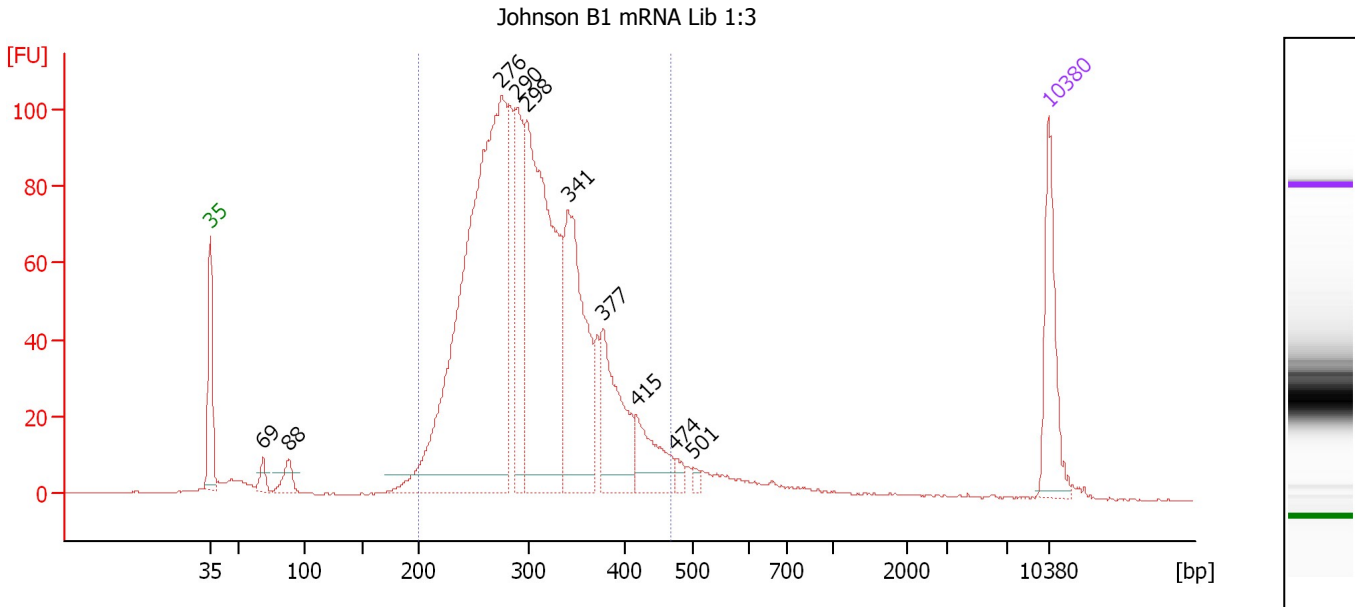
Peak table for Ladder

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 50 | 150.00 | 4,545.5 | Ladder Peak |
| 3 | 100 | 150.00 | 2,272.7 | Ladder Peak |
| 4 | 150 | 150.00 | 1,515.2 | Ladder Peak |
| 5 | 200 | 150.00 | 1,136.4 | Ladder Peak |
| 6 | 300 | 150.00 | 757.6 | Ladder Peak |
| 7 | 400 | 150.00 | 568.2 | Ladder Peak |
| 8 | 500 | 150.00 | 454.5 | Ladder Peak |
| 9 | 600 | 150.00 | 378.8 | Ladder Peak |
| 10 | 700 | 150.00 | 324.7 | Ladder Peak |
| 11 | 1,000 | 150.00 | 227.3 | Ladder Peak |
| 12 | 2,000 | 150.00 | 113.6 | Ladder Peak |
| 13 | 3,000 | 150.00 | 75.8 | Ladder Peak |
| 14 | 7,000 | 150.00 | 32.5 | Ladder Peak |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-08\2013-05-08_003.xad

Created: 5/8/2013 4:46:47 PM
 Modified: 5/8/2013 5:33:48 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Johnson B1 mRNA Lib 1:3

Number of peaks found: 10 Corr. Area 1: 1,683.9
 Noise: 0.2

Peak table for sample 1 : Johnson B1 mRNA Lib 1:3

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 69 | 18.65 | 411.8 | |
| 3 | 88 | 28.91 | 498.6 | |
| 4 | 276 | 918.77 | 5,051.4 | |
| 5 | 290 | 152.55 | 796.6 | |
| 6 | 298 | 516.51 | 2,622.7 | |
| 7 | 341 | 261.59 | 1,162.4 | |
| 8 | 377 | 134.87 | 541.8 | |
| 9 | 415 | 68.83 | 251.0 | |
| 10 | 474 | 10.63 | 34.0 | |
| 11 | 501 | 6.35 | 19.2 | |
| 12 | 10,380 | 75.00 | 10.9 | Upper Marker |

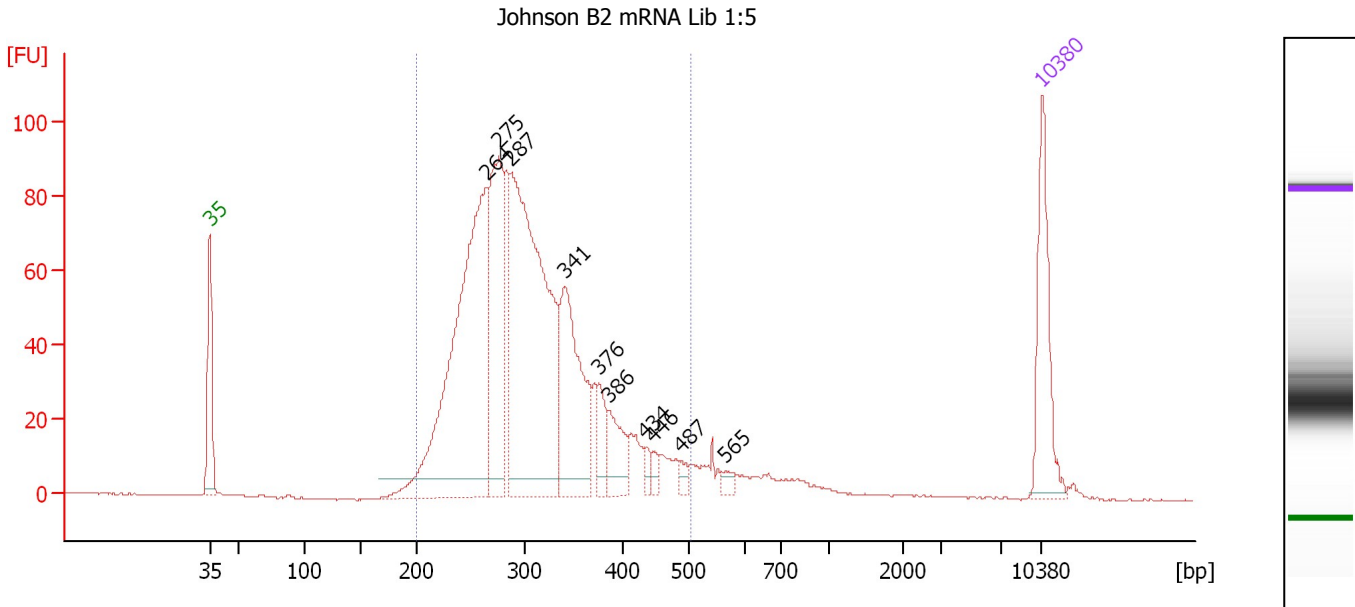
Region table for sample 1 : Johnson B1 mRNA Lib 1:3

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 200 | 467 | 304 | 11,602.2 | 2,248.18 | 1,683.9 | 90 | 17.5 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-08\2013-05-08_003.xad

Created: 5/8/2013 4:46:47 PM
 Modified: 5/8/2013 5:33:48 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Johnson B2 mRNA Lib 1:5

Number of peaks found: 10 Corr. Area 1: 1,406.0
 Noise: 0.1

Peak table for sample 2 : Johnson B2 mRNA Lib 1:5

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 264 | 494.89 | 2,842.8 | |
| 3 | 275 | 212.50 | 1,168.7 | |
| 4 | 287 | 494.56 | 2,613.3 | |
| 5 | 341 | 176.97 | 786.8 | |
| 6 | 376 | 32.34 | 130.2 | |
| 7 | 386 | 45.38 | 178.1 | |
| 8 | 434 | 9.39 | 32.8 | |
| 9 | 446 | 9.30 | 31.6 | |
| 10 | 487 | 8.16 | 25.4 | |
| 11 | 565 | 7.56 | 20.3 | |
| 12 | 10,380 | 75.00 | 10.9 | Upper Marker |

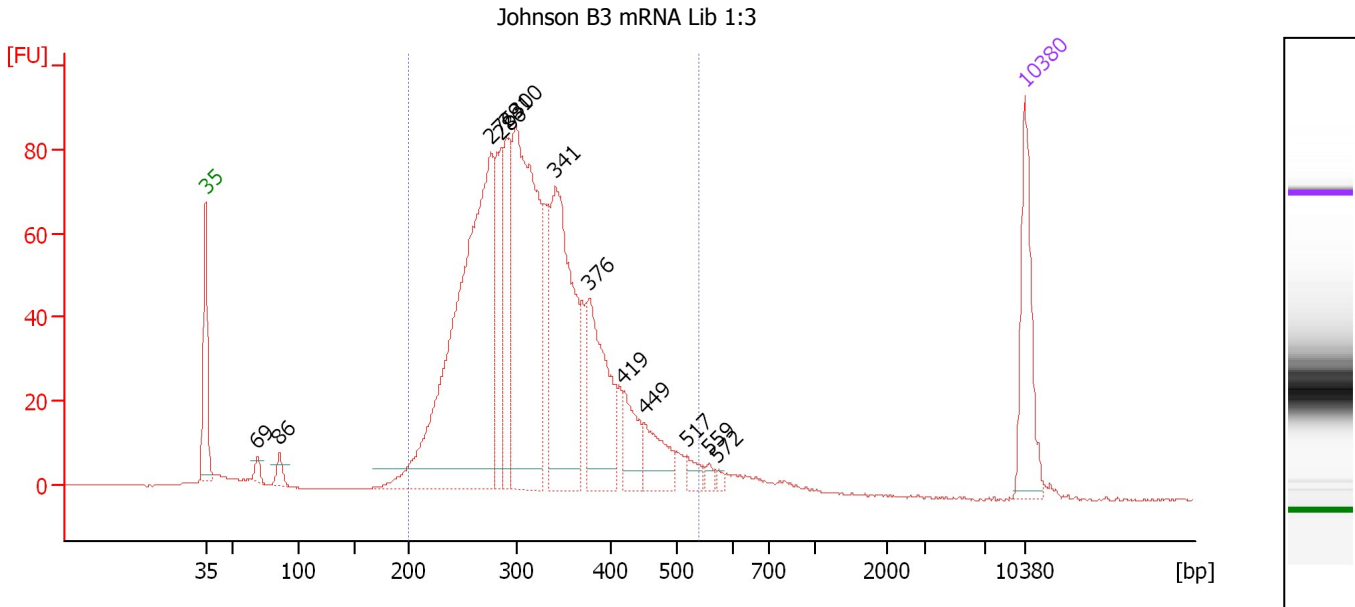
Region table for sample 2 : Johnson B2 mRNA Lib 1:5

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 200 | 505 | 305 | 8,312.8 | 1,604.93 | 1,406.0 | 93 | 19.3 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-08\2013-05-08_003.xad

Created: 5/8/2013 4:46:47 PM
 Modified: 5/8/2013 5:33:48 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Johnson B3 mRNA Lib 1:3

Number of peaks found: 13 Corr. Area 1: 1,496.4
 Noise: 0.2

Peak table for sample 3 : Johnson B3 mRNA Lib 1:3

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 69 | 11.84 | 261.0 | |
| 3 | 86 | 17.05 | 302.0 | |
| 4 | 276 | 621.29 | 3,408.7 | |
| 5 | 286 | 113.27 | 599.9 | |
| 6 | 291 | 108.28 | 564.6 | |
| 7 | 300 | 416.45 | 2,103.3 | |
| 8 | 341 | 278.27 | 1,236.6 | |
| 9 | 376 | 154.26 | 621.1 | |
| 10 | 419 | 50.35 | 182.3 | |
| 11 | 449 | 51.26 | 172.8 | |
| 12 | 517 | 13.80 | 40.4 | |
| 13 | 559 | 5.85 | 15.9 | |
| 14 | 572 | 4.49 | 11.9 | |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker |

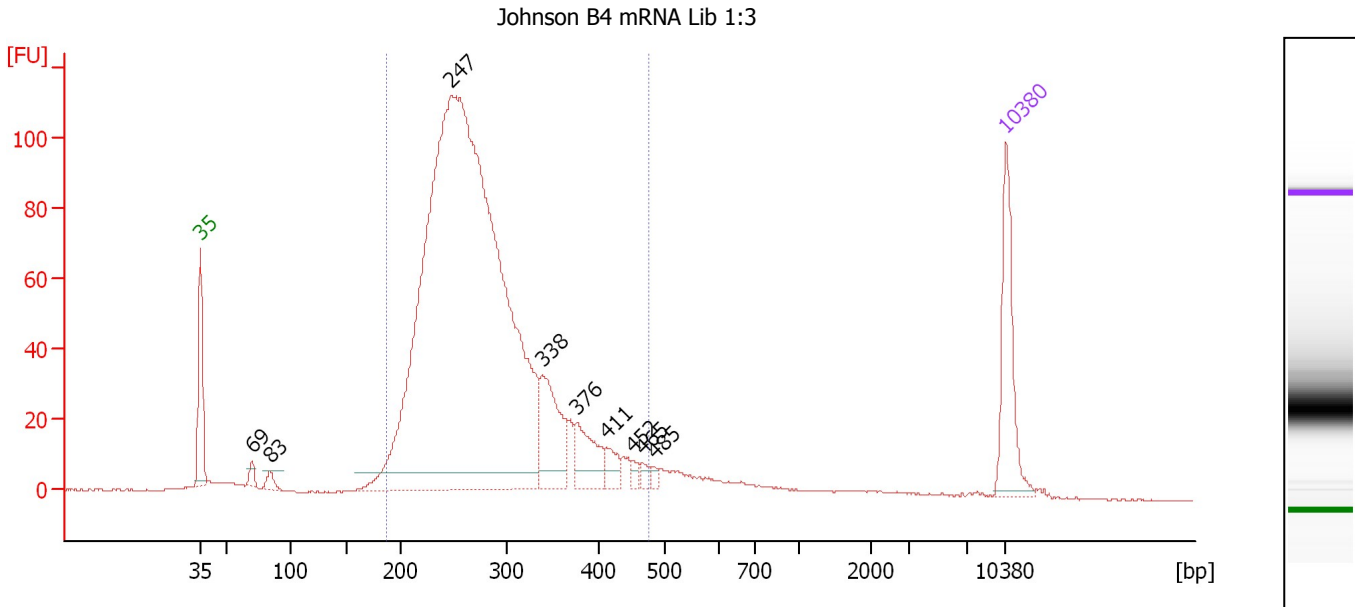
Region table for sample 3 : Johnson B3 mRNA Lib 1:3

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 200 | 541 | 321 | 9,840.8 | 1,984.38 | 1,496.4 | 93 | 20.0 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-08\2013-05-08_003.xad

Created: 5/8/2013 4:46:47 PM
 Modified: 5/8/2013 5:33:48 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Johnson B4 mRNA Lib 1:3

Number of peaks found: 9 Corr. Area 1: 1,592.3
 Noise: 0.2

Peak table for sample 4 : Johnson B4 mRNA Lib 1:3

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 69 | 11.96 | 261.3 | |
| 3 | 83 | 12.98 | 236.6 | |
| 4 | 247 | 1,833.56 | 11,236.1 | |
| 5 | 338 | 106.48 | 476.6 | |
| 6 | 376 | 58.33 | 235.0 | |
| 7 | 411 | 20.12 | 74.2 | |
| 8 | 452 | 7.22 | 24.2 | |
| 9 | 465 | 7.03 | 22.9 | |
| 10 | 485 | 4.74 | 14.8 | |
| 11 | 10,380 | 75.00 | 10.9 | Upper Marker |

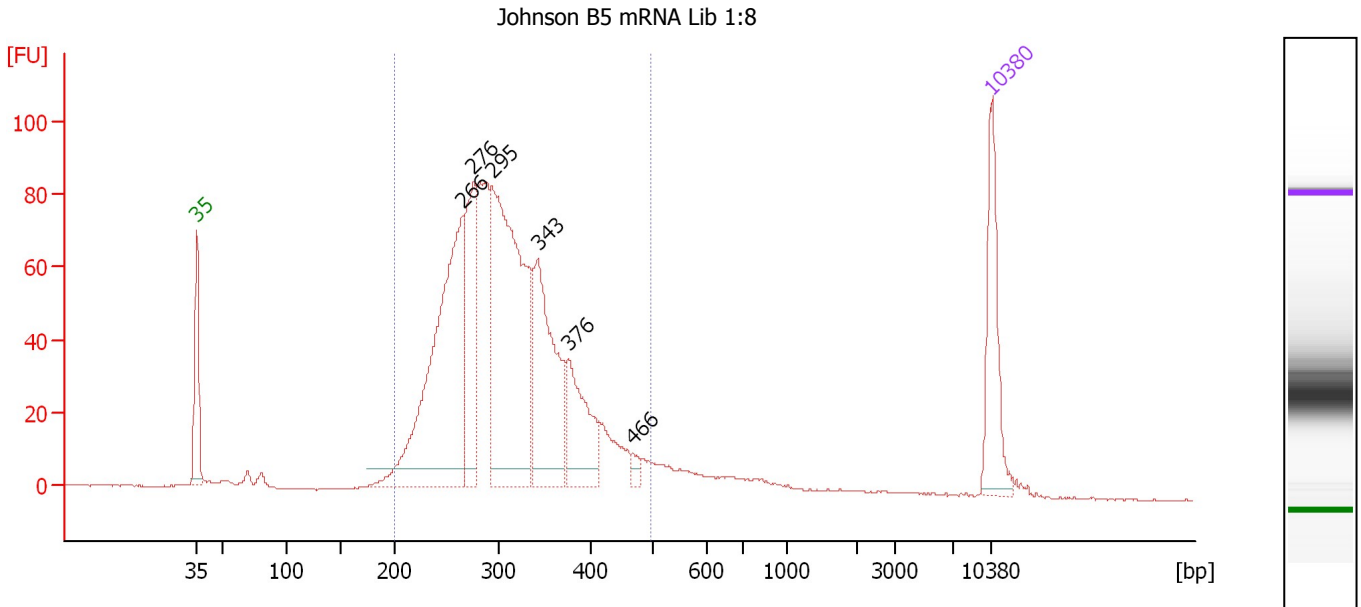
Region table for sample 4 : Johnson B4 mRNA Lib 1:3

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 188 | 475 | 280 | 11,449.7 | 2,033.38 | 1,592.3 | 91 | 19.8 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-08\2013-05-08_003.xad

Created: 5/8/2013 4:46:47 PM
 Modified: 5/8/2013 5:33:48 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Johnson B5 mRNA Lib 1:8

Number of peaks found: 6 Corr. Area 1: 1,394.9
 Noise: 0.1

Peak table for sample 5 : Johnson B5 mRNA Lib 1:8

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 266 | 411.39 | 2,342.4 | |
| 3 | 276 | 174.34 | 955.9 | |
| 4 | 295 | 433.33 | 2,227.2 | |
| 5 | 343 | 197.40 | 871.2 | |
| 6 | 376 | 101.54 | 408.8 | |
| 7 | 466 | 8.44 | 27.4 | |
| 8 | 10,380 | 75.00 | 10.9 | Upper Marker |

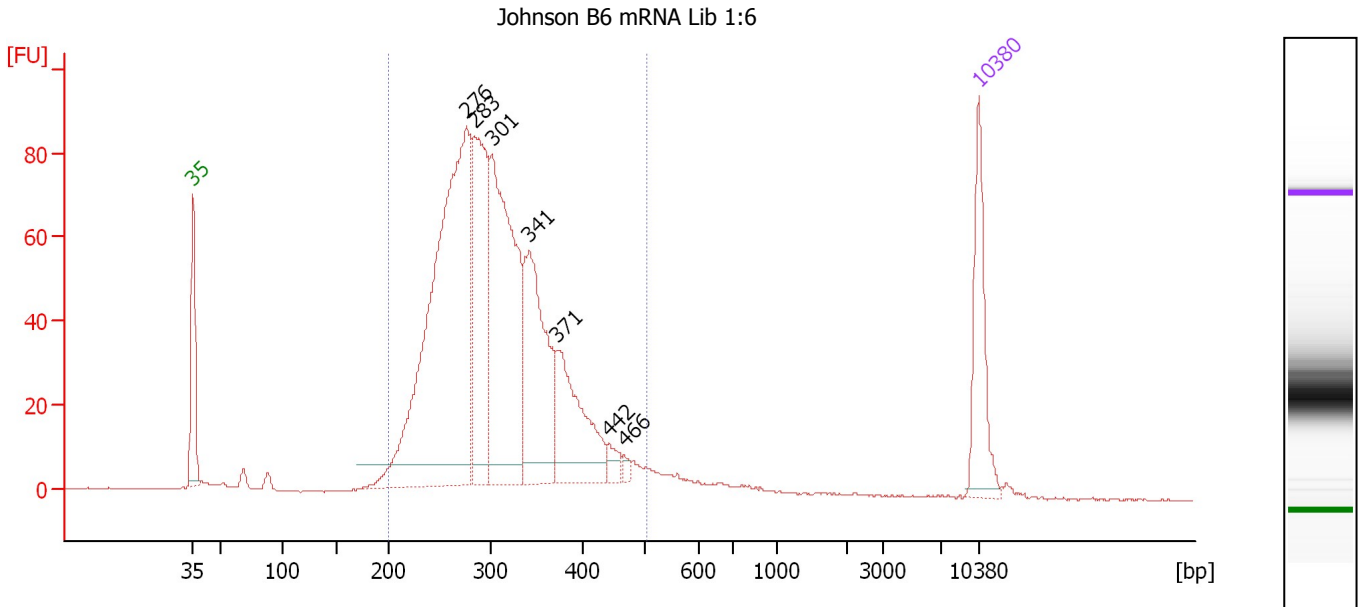
Region table for sample 5 : Johnson B5 mRNA Lib 1:8

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 200 | 495 | 311 | 8,105.4 | 1,595.55 | 1,394.9 | 91 | 18.4 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-08\2013-05-08_003.xad

Created: 5/8/2013 4:46:47 PM
 Modified: 5/8/2013 5:33:48 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Johnson B6 mRNA Lib 1:6

Number of peaks found: 7 Corr. Area 1: 1,366.1
 Noise: 0.1

Peak table for sample 6 : Johnson B6 mRNA Lib 1:6

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 276 | 678.61 | 3,730.6 | |
| 3 | 283 | 223.83 | 1,198.9 | |
| 4 | 301 | 374.49 | 1,888.1 | |
| 5 | 341 | 216.95 | 962.6 | |
| 6 | 371 | 142.97 | 583.4 | |
| 7 | 442 | 15.40 | 52.9 | |
| 8 | 466 | 6.53 | 21.2 | |
| 9 | 10,380 | 75.00 | 10.9 | Upper Marker |

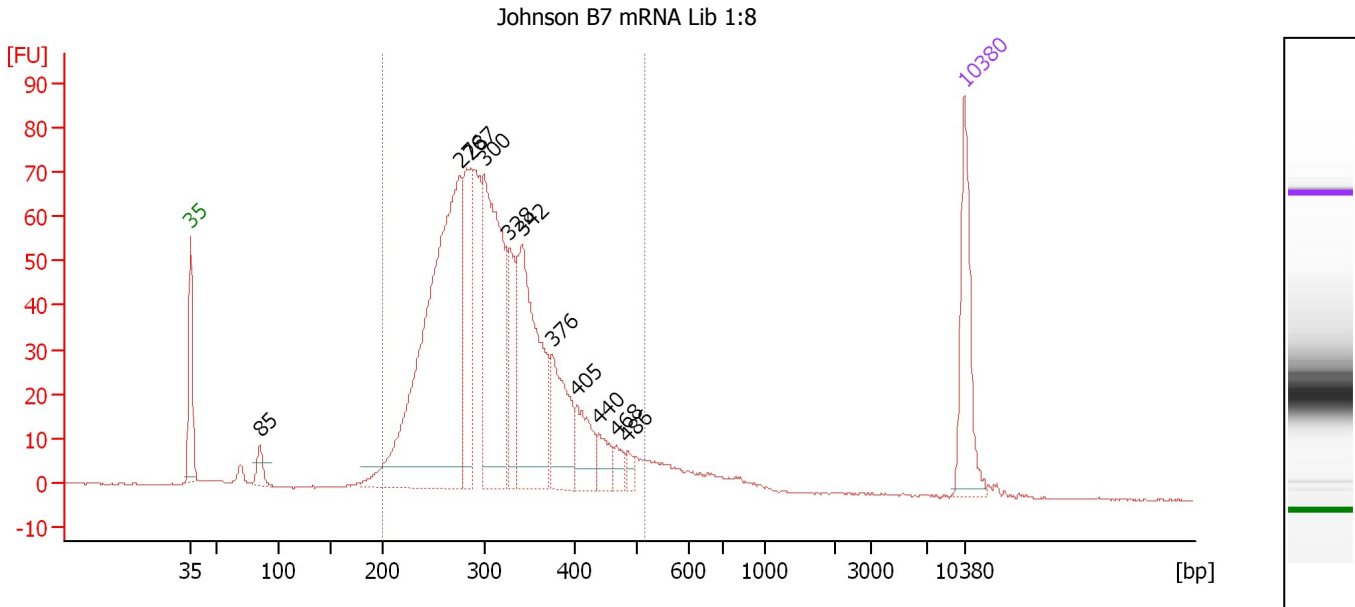
Region table for sample 6 : Johnson B6 mRNA Lib 1:6

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 200 | 501 | 308 | 9,175.7 | 1,789.69 | 1,366.1 | 94 | 18.4 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-08\2013-05-08_003.xad

Created: 5/8/2013 4:46:47 PM
 Modified: 5/8/2013 5:33:48 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Johnson B7 mRNA Lib 1:8

Number of peaks found: 11 Corr. Area 1: 1,190.1
 Noise: 0.2

Peak table for sample 7 : Johnson B7 mRNA Lib 1:8

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 85 | 22.77 | 406.2 | |
| 3 | 276 | 601.30 | 3,295.2 | |
| 4 | 287 | 128.87 | 680.3 | |
| 5 | 300 | 301.64 | 1,525.5 | |
| 6 | 328 | 70.86 | 327.3 | |
| 7 | 342 | 235.69 | 1,045.0 | |
| 8 | 376 | 96.49 | 389.2 | |
| 9 | 405 | 51.58 | 192.9 | |
| 10 | 440 | 26.46 | 91.2 | |
| 11 | 468 | 14.44 | 46.8 | |
| 12 | 486 | 10.11 | 31.5 | |
| 13 | 10,380 | 75.00 | 10.9 | Upper Marker |

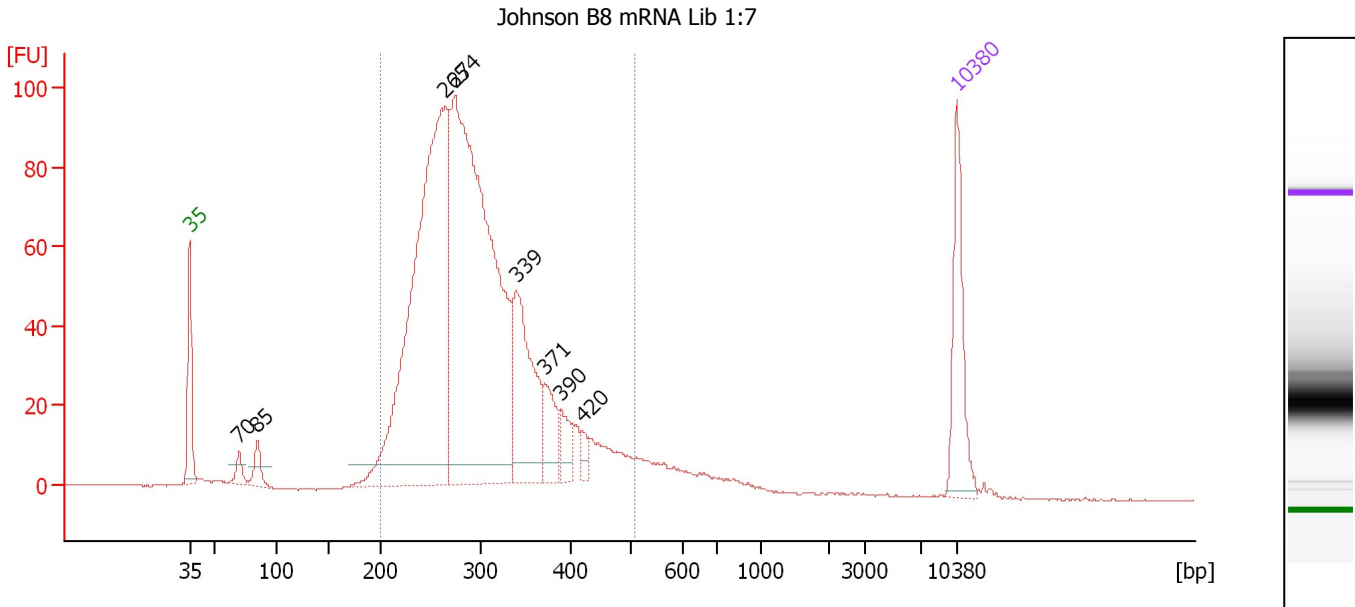
Region table for sample 7 : Johnson B7 mRNA Lib 1:8

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 200 | 515 | 313 | 8,769.4 | 1,733.72 | 1,190.1 | 92 | 19.4 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-08\2013-05-08_003.xad

Created: 5/8/2013 4:46:47 PM
 Modified: 5/8/2013 5:33:48 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Johnson B8 mRNA Lib 1:7

Number of peaks found: 8 Corr. Area 1: 1,472.7
 Noise: 0.2

Peak table for sample 8 : Johnson B8 mRNA Lib 1:7

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 70 | 18.09 | 393.7 | |
| 3 | 85 | 28.64 | 513.4 | |
| 4 | 265 | 736.21 | 4,210.6 | |
| 5 | 274 | 856.75 | 4,738.9 | |
| 6 | 339 | 175.78 | 784.7 | |
| 7 | 371 | 52.10 | 212.7 | |
| 8 | 390 | 31.98 | 124.3 | |
| 9 | 420 | 12.23 | 44.1 | |
| 10 | 10,380 | 75.00 | 10.9 | Upper Marker |

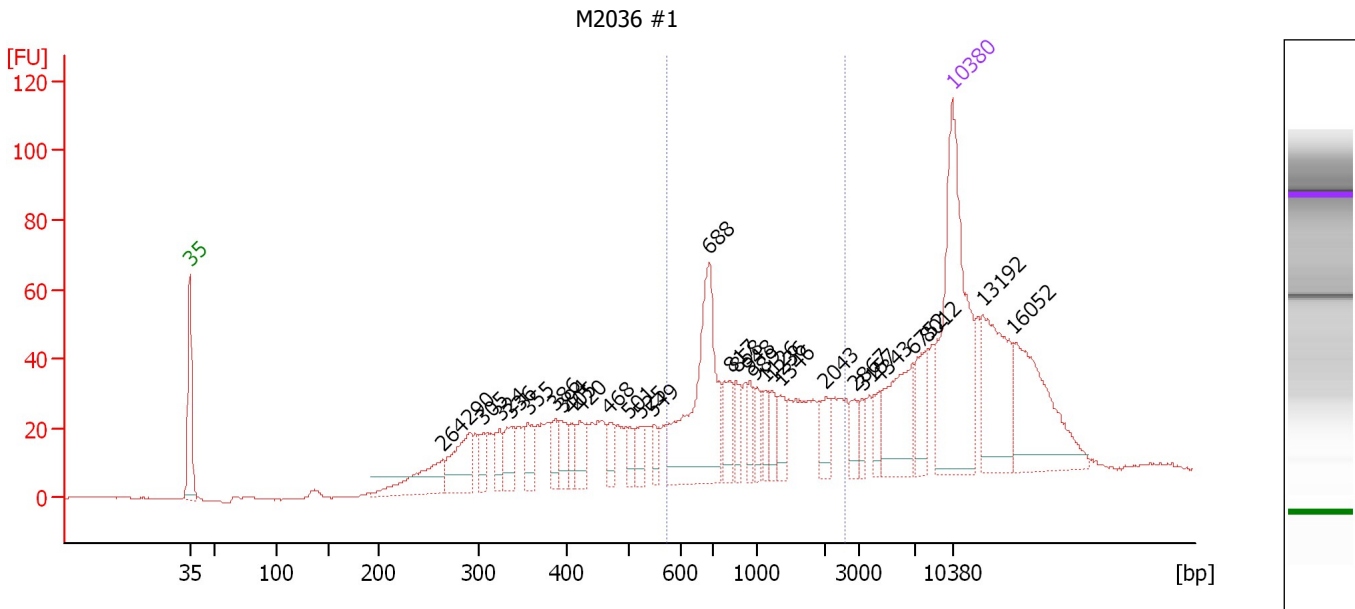
Region table for sample 8 : Johnson B8 mRNA Lib 1:7

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 200 | 505 | 299 | 10,461.4 | 1,978.96 | 1,472.7 | 92 | 19.8 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-08\2013-05-08_003.xad

Created: 5/8/2013 4:46:47 PM
 Modified: 5/8/2013 5:33:48 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : M2036 #1

Number of peaks found: 30 Corr. Area 1: 450.6
 Noise: 0.1

Peak table for sample 9 : M2036 #1


| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 264 | 28.86 | 165.7 | |
| 3 | 290 | 28.10 | 146.8 | |
| 4 | 305 | 10.60 | 52.7 | |
| 5 | 324 | 9.70 | 45.4 | |
| 6 | 336 | 13.90 | 62.6 | |
| 7 | 355 | 11.17 | 47.7 | |
| 8 | 386 | 8.43 | 33.1 | |
| 9 | 394 | 10.56 | 40.7 | |
| 10 | 405 | 7.67 | 28.7 | |
| 11 | 420 | 12.36 | 44.5 | |
| 12 | 468 | 8.34 | 27.0 | |
| 13 | 501 | 7.00 | 21.2 | |
| 14 | 525 | 8.66 | 25.0 | |
| 15 | 549 | 6.57 | 18.2 | |
| 16 | 688 | 80.47 | 177.3 | |
| 17 | 817 | 13.26 | 24.6 | |
| 18 | 858 | 8.71 | 15.4 | |
| 19 | 948 | 8.19 | 13.1 | |
| 20 | 989 | 8.13 | 12.5 | |
| 21 | 1,126 | 7.17 | 9.7 | |
| 22 | 1,236 | 7.39 | 9.1 | |
| 23 | 1,346 | 8.81 | 9.9 | |
| 24 | 2,043 | 9.58 | 7.1 | |
| 25 | 2,867 | 7.09 | 3.7 | |
| 26 | 3,157 | 5.10 | 2.4 | |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-08\2013-05-08_003.xad

Created: 5/8/2013 4:46:47 PM
 Modified: 5/8/2013 5:33:48 PM

Electropherogram Summary Continued ...

... Peak table for sample 9 : M2036 #1

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|--|---------------|-------------------|--------------|
| 27 | 4,343 | 6.32 | 2.2 | |
| 28 | 6,752 | 29.83 | 6.7 | |
| 29 | 8,012 | 14.51 | 2.7 | |
| 30 |  10,380 | 75.00 | 10.9 | Upper Marker |
| 31 | 13,192 | 0.00 | 0.0 | |
| 32 | 16,052 | 0.00 | 0.0 | |

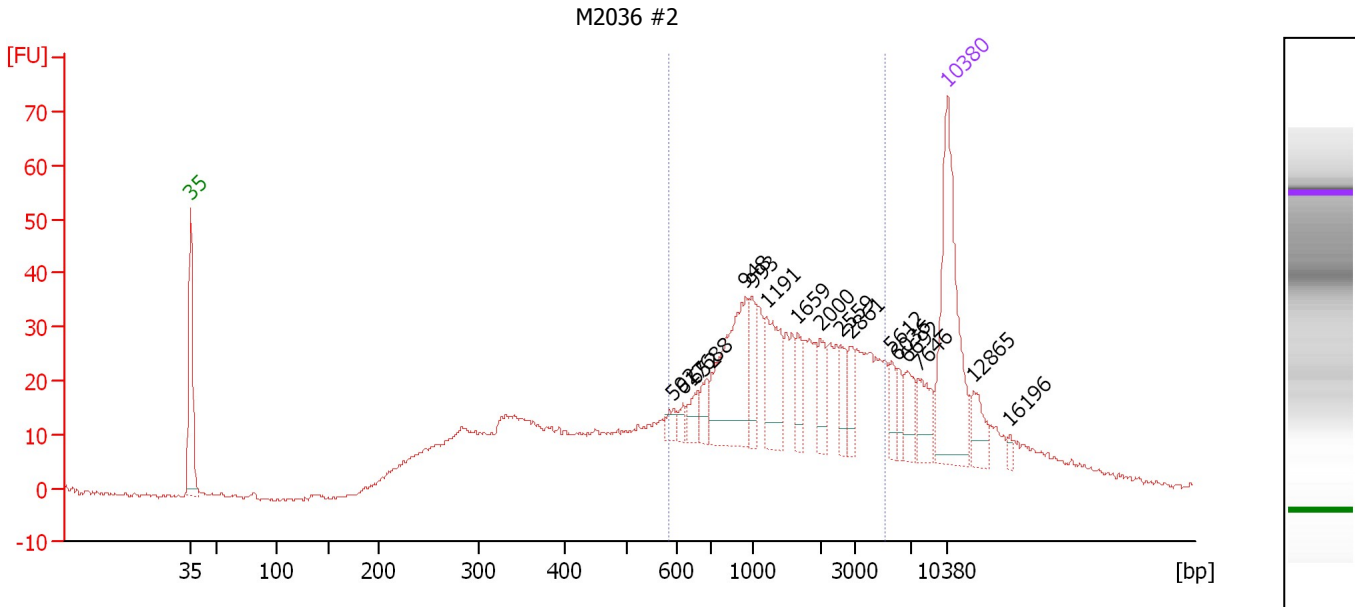
Region table for sample 9 : M2036 #1

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|---|
| 575 | 2,578 | 1,149 | 322.3 | 194.65 | 450.6 | 33 | 47.7 |  |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-08\2013-05-08_003.xad

Created: 5/8/2013 4:46:47 PM
 Modified: 5/8/2013 5:33:48 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : M2036 #2

Number of peaks found: 17 Corr. Area 1: 522.2
 Noise: 0.3

Peak table for sample 10 : M2036 #2

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 592 | 6.03 | 15.4 | |
| 3 | 617 | 5.30 | 13.0 | |
| 4 | 652 | 10.10 | 23.5 | |
| 5 | 688 | 10.60 | 23.3 | |
| 6 | 948 | 71.50 | 114.3 | |
| 7 | 993 | 16.20 | 24.7 | |
| 8 | 1,191 | 35.13 | 44.7 | |
| 9 | 1,659 | 11.90 | 10.9 | |
| 10 | 2,000 | 13.13 | 9.9 | |
| 11 | 2,559 | 10.35 | 6.1 | |
| 12 | 2,861 | 10.30 | 5.5 | |
| 13 | 5,612 | 8.90 | 2.4 | |
| 14 | 6,036 | 7.80 | 2.0 | |
| 15 | 6,692 | 13.83 | 3.1 | |
| 16 | 7,646 | 16.25 | 3.2 | |
| 17 | 10,380 | 75.00 | 10.9 | Upper Marker |
| 18 | 12,865 | 0.00 | 0.0 | |
| 19 | 16,196 | 0.00 | 0.0 | |

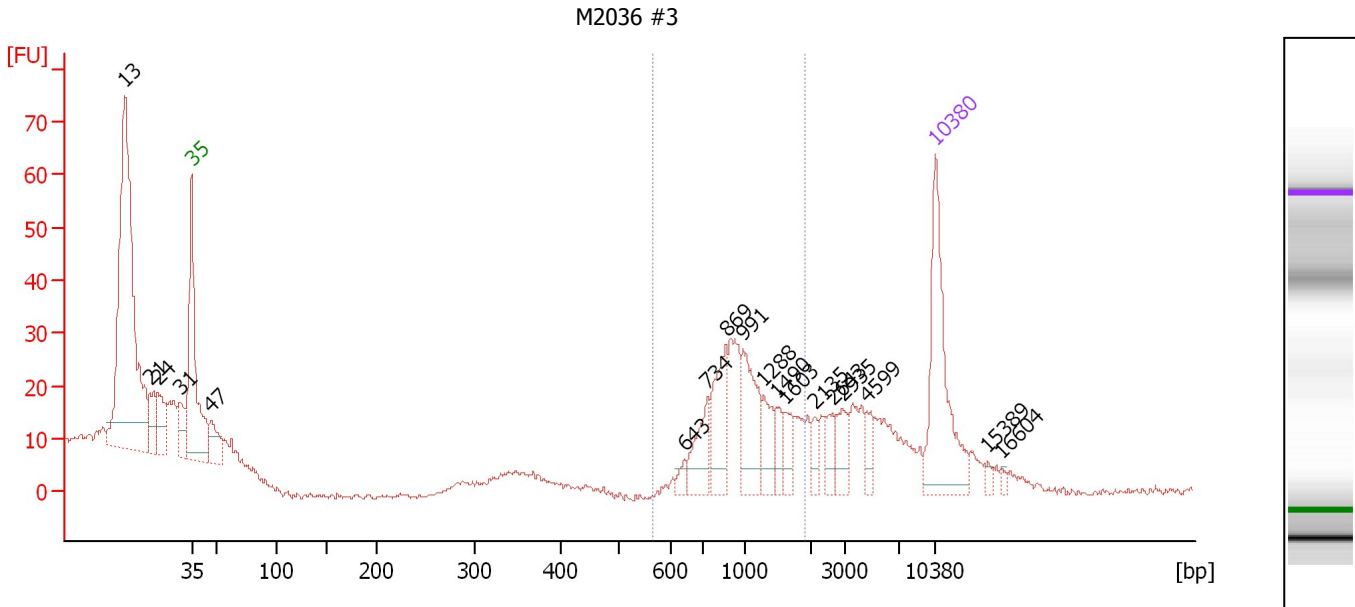
Region table for sample 10 : M2036 #2

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 584 | 5,049 | 1,715 | 576.3 | 445.65 | 522.2 | 50 | 62.8 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-08\2013-05-08_003.xad

Created: 5/8/2013 4:46:47 PM
 Modified: 5/8/2013 5:33:48 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : M2036 #3

Number of peaks found: 18 Corr. Area 1: 164.3
 Noise: 0.4

Peak table for sample 11 : M2036 #3

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 13 | 0.00 | 0.0 | |
| 2 | 21 | 0.00 | 0.0 | |
| 3 | 24 | 0.00 | 0.0 | |
| 4 | 31 | 0.00 | 0.0 | |
| 5 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 6 | 47 | 30.65 | 996.8 | |
| 7 | 643 | 6.81 | 16.0 | |
| 8 | 734 | 31.50 | 65.0 | |
| 9 | 869 | 43.84 | 76.5 | |
| 10 | 991 | 47.07 | 71.9 | |
| 11 | 1,288 | 19.64 | 23.1 | |
| 12 | 1,490 | 12.27 | 12.5 | |
| 13 | 1,603 | 13.53 | 12.8 | |
| 14 | 2,135 | 8.68 | 6.2 | |
| 15 | 2,643 | 11.47 | 6.6 | |
| 16 | 2,935 | 15.06 | 7.8 | |
| 17 | 4,599 | 10.89 | 3.6 | |
| 18 | 10,380 | 75.00 | 10.9 | Upper Marker |
| 19 | 15,389 | 0.00 | 0.0 | |
| 20 | 16,604 | 0.00 | 0.0 | |

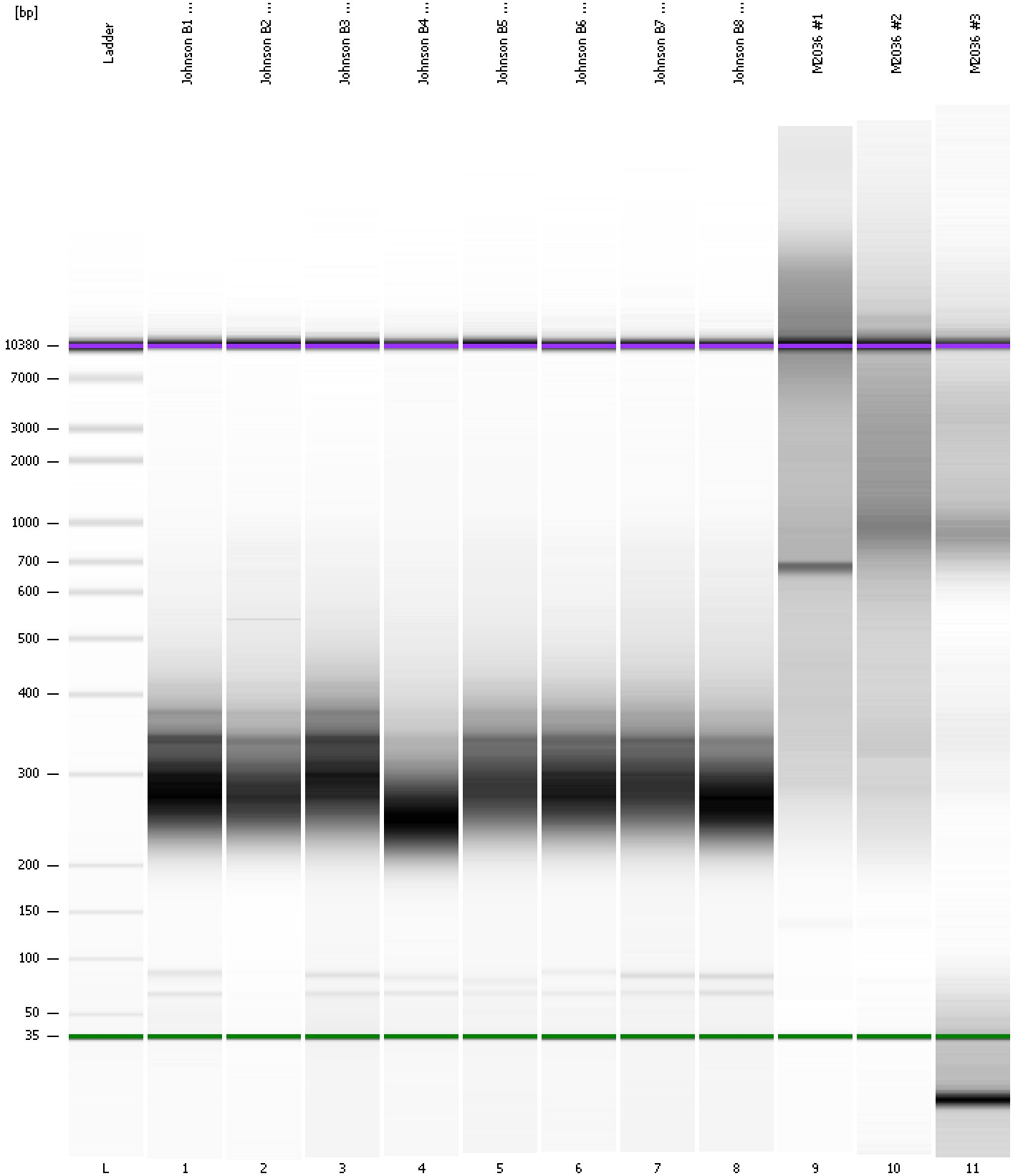
Region table for sample 11 : M2036 #3

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 566 | 1,926 | 1,112 | 245.3 | 165.38 | 164.3 | 27 | 30.5 | Blue |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-08\2013-05-08_003.xad

Created: 5/8/2013 4:46:47 PM
Modified: 5/8/2013 5:33:48 PM

Gel Image



Assay Class: High Sensitivity DNA Assay Created: 5/8/2013 4:46:47 PM
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-08\2013-05-08_003.xad Modified: 5/8/2013 5:33:48 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 | | 5/8/2013 5:28:02 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-05-08\2013-05-08_003.xad) | | Instrument | Run | | 5/8/2013 4:46:48 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 5/8/2013 4:46:48 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 5/8/2013 4:46:48 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 5/8/2013 4:46:48 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 5/8/2013 4:46:48 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 5/8/2013 4:46:48 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 5/8/2013 4:46:48 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |