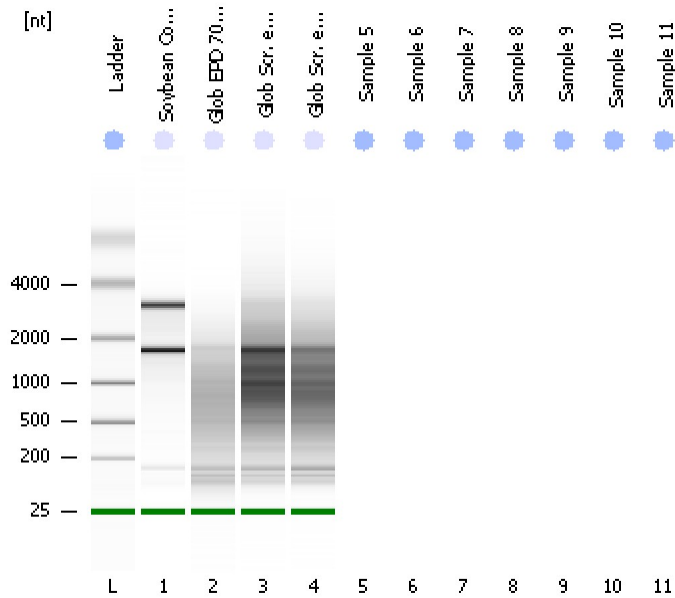


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-28\2013-05-28_004.xad

Created: 5/28/2013 1:35:16 PM
Modified: 5/28/2013 1:48:10 PM

Electrophoresis File Run Summary



Instrument Information:

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

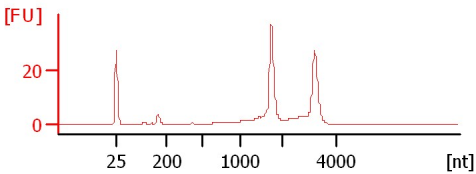
Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Pico Series II.xsy
Assay Class: Eukaryote Total RNA Pico
Version: 2.6
Assay Comments: Total RNA Analysis pg sensitivity (Eukaryote)
© Copyright 2003 - 2009 Agilent Technologies, Inc.

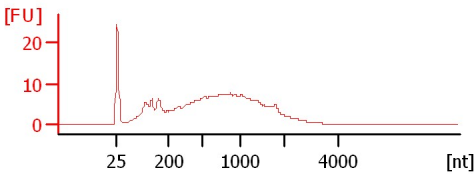
Chip Information:

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

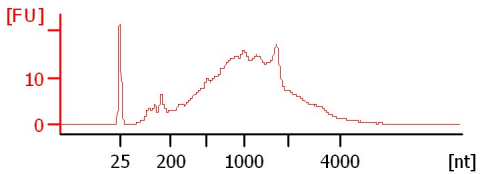
Soybean Control
RIN: 9.20



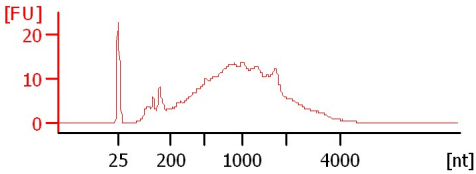
Glob EPD 70-91 (1/5)
RIN: 2.30



Glob Scr. embed 4/26
RIN: 3.30



Glob Scr. embed 5/8
RIN: 2.60



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-28\2013-05-28_004.xad

Created: 5/28/2013 1:35:16 PM
 Modified: 5/28/2013 1:48:10 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Status | Result Label | Result Color |
|----------------------|----------------|--------|-------------------|--------------|
| Soybean Control | | ✓ | RIN: 9.20 | |
| Glob EPD 70-91 (1/5) | | ✓ | RIN: 2.30 | |
| Glob Scr. embed 4/26 | | ✓ | RIN: 3.30 | |
| Glob Scr. embed 5/8 | | ✓ | RIN: 2.60 | |
| Sample 5 | | | | |
| Sample 6 | | | | |
| Sample 7 | | | | |
| Sample 8 | | | | |
| Sample 9 | | | | |
| Sample 10 | | | | |
| Sample 11 | | | | |
| Ladder | | ✓ | All Other Samples | |

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-28\2013-05-28_004.xad

Created: 5/28/2013 1:35:16 PM
Modified: 5/28/2013 1:48:10 PM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12
Minimum Visible Range [s] : 17
Maximum Visible Range [s] : 70
Start Analysis Time Range [s] : 18
End Analysis Time Range [s] : 69
Ladder Concentration [pg/ μ l] : 1000
Lower Marker Concentration [pg/ μ l] : 0
Upper Marker Concentration [pg/ μ l] : 0
Used Lower Marker for Quantitation
Standard Curve Fit is Logarithmic
Show Data Aligned to Lower Marker

Integrator Settings

Integration Start Time [s] : 18
Integration End Time [s] : 69
Slope Threshold : 0.6
Height Threshold [FU] : 0.5
Area Threshold : 0.2
Width Threshold [s] : 0.3
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

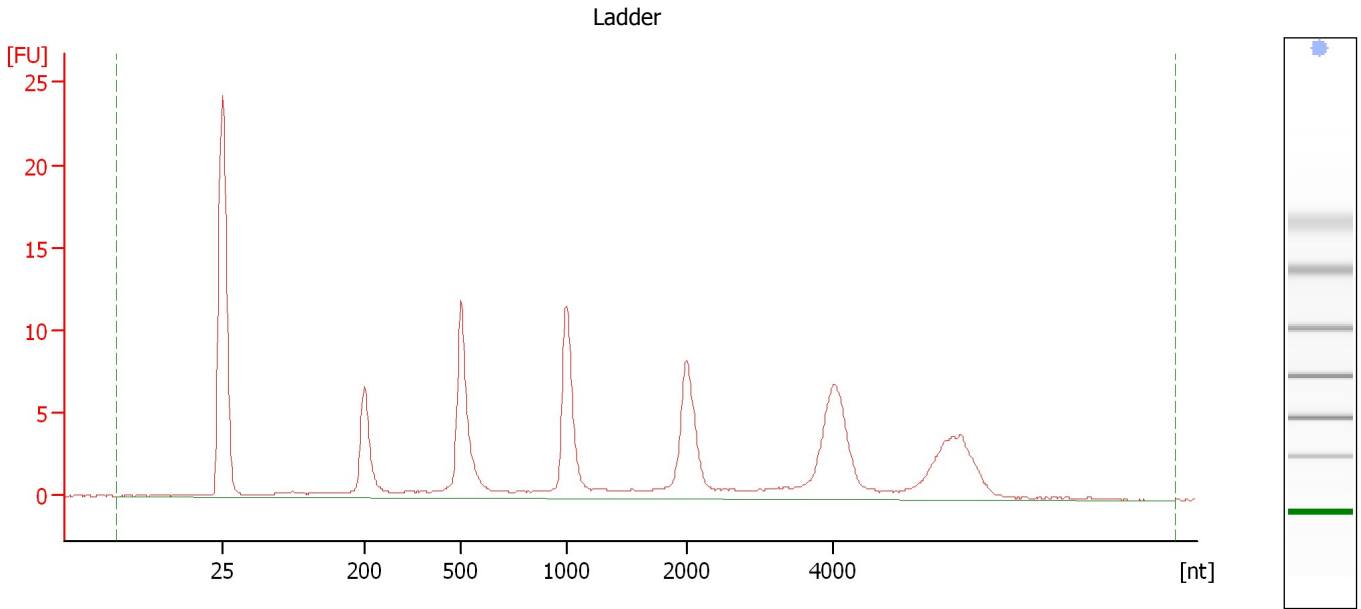
Ladder

| Ladder Peak | Size |
|-------------|------|
| 1 | 25 |
| 2 | 200 |
| 3 | 500 |
| 4 | 1000 |
| 5 | 2000 |
| 6 | 4000 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-28\2013-05-28_004.xad

Created: 5/28/2013 1:35:16 PM
Modified: 5/28/2013 1:48:10 PM

Electropherogram Summary



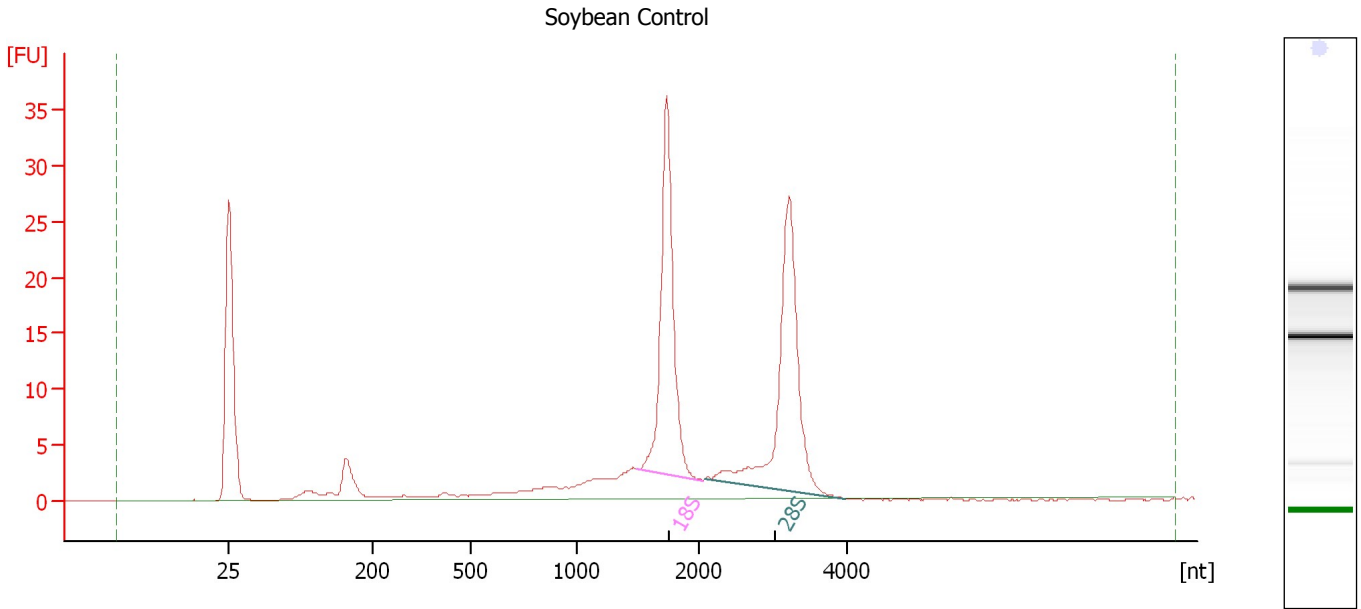
Overall Results for Ladder

| | | | |
|--------------------|-------------|------------------------|---|
| RNA Area: | 119.6 | Result Flagging Color: | |
| RNA Concentration: | 1,000 pg/μl | Result Flagging Label: | All Other Samples |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-28\2013-05-28_004.xad

Created: 5/28/2013 1:35:16 PM
Modified: 5/28/2013 1:48:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Soybean Control

RNA Area: 168.6 RNA Integrity Number (RIN): 9.2 (B.02.08)
RNA Concentration: 1,409 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.1 Result Flagging Label: RIN: 9.20

Fragment table for sample 1 : Soybean Control

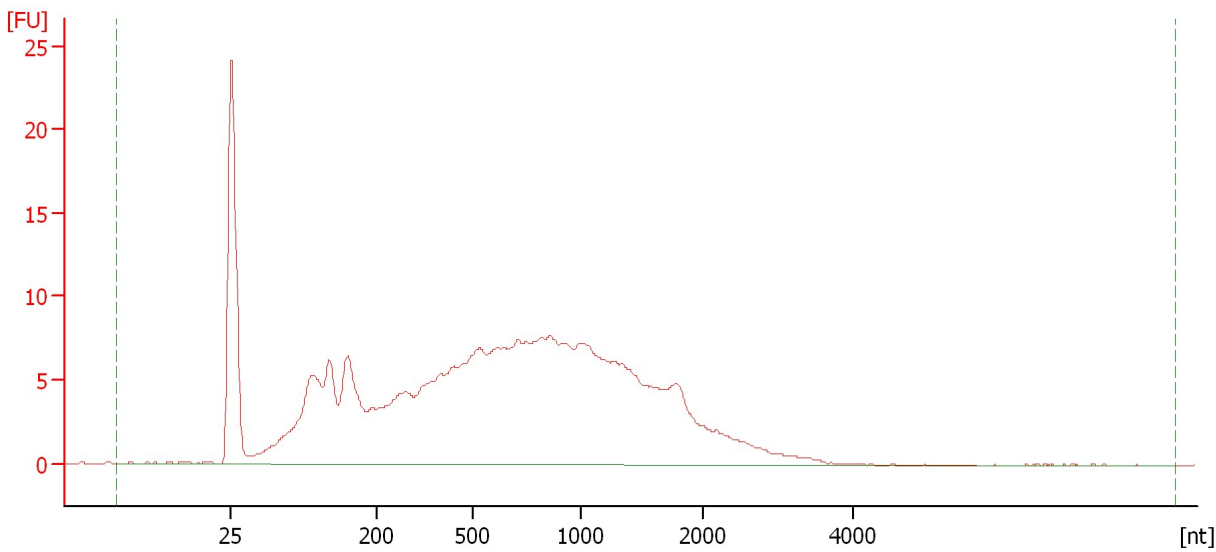
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,494 | 2,052 | 49.2 | 29.2 |
| 28S | 2,081 | 3,956 | 53.1 | 31.5 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-28\2013-05-28_004.xad

Created: 5/28/2013 1:35:16 PM
Modified: 5/28/2013 1:48:10 PM

Electropherogram Summary Continued ...

Glob EPD 70-91 (1/5)



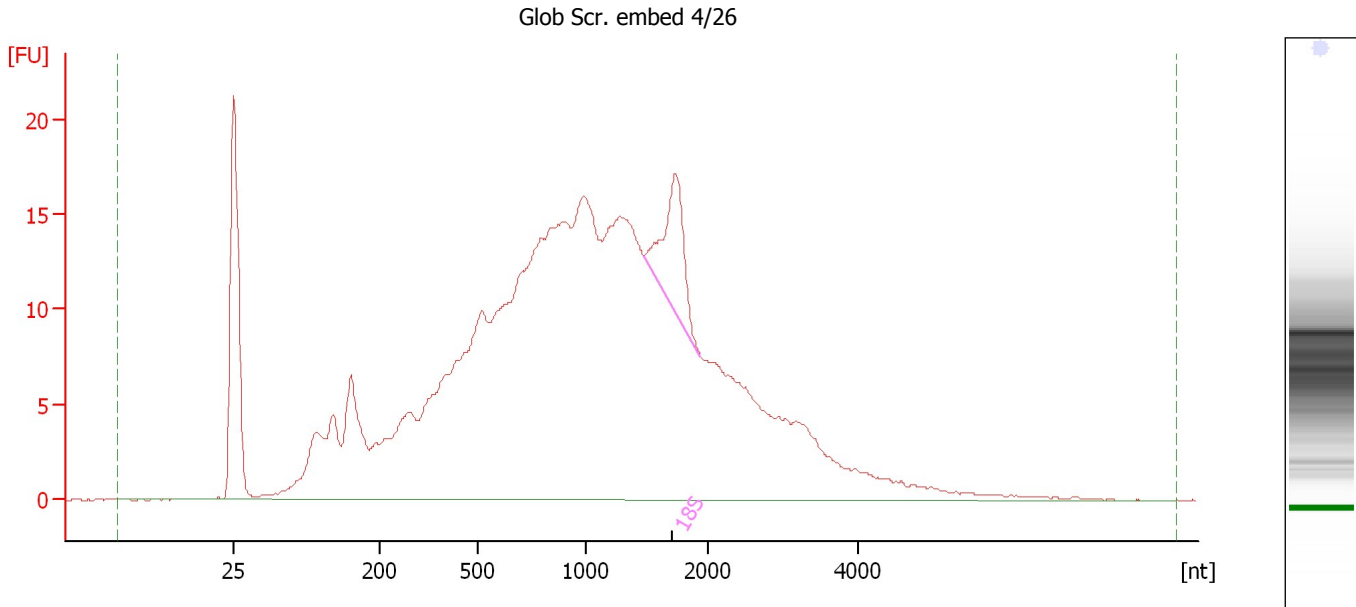
Overall Results for sample 2 : Glob EPD 70-91 (1/5)

| | | | |
|-------------------------|-------------|-----------------------------|---|
| RNA Area: | 304.1 | RNA Integrity Number (RIN): | 2.3 (B.02.08) |
| RNA Concentration: | 2,542 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 2.30 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-28\2013-05-28_004.xad

Created: 5/28/2013 1:35:16 PM
Modified: 5/28/2013 1:48:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Glob Scr. embed 4/26

| | | | |
|-------------------------|-------------|-----------------------------|---|
| RNA Area: | 523.6 | RNA Integrity Number (RIN): | 3.3 (B.02.08) |
| RNA Concentration: | 4,377 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 3.30 |

Fragment table for sample 3 : Glob Scr. embed 4/26

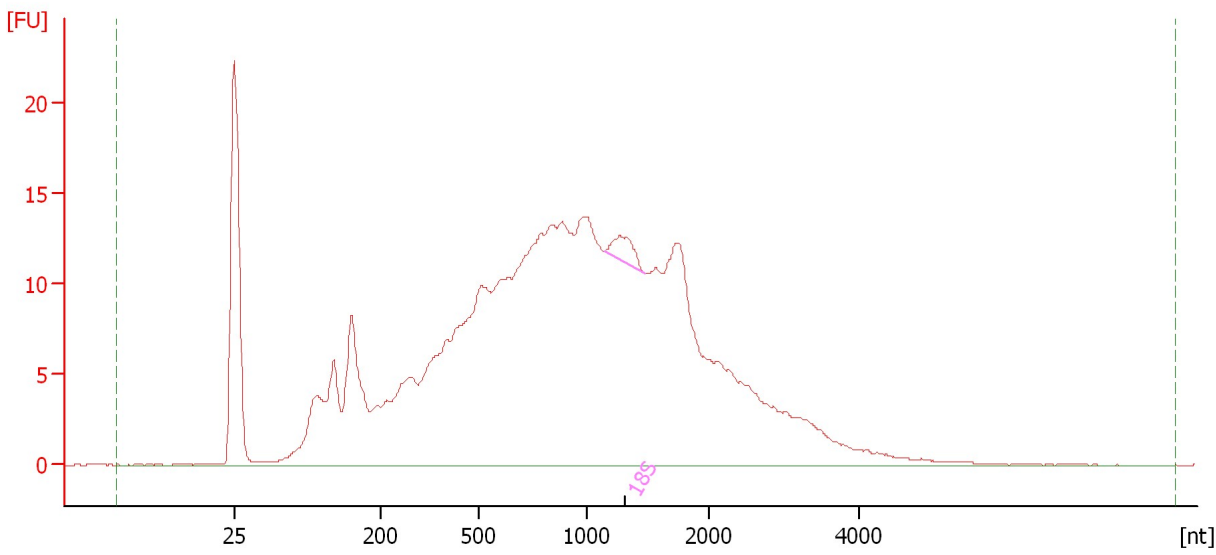
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,484 | 1,939 | 16.4 | 3.1 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-28\2013-05-28_004.xad

Created: 5/28/2013 1:35:16 PM
Modified: 5/28/2013 1:48:10 PM

Electropherogram Summary Continued ...

Glob Scr. embed 5/8



Overall Results for sample 4 : Glob Scr. embed 5/8

| | | | |
|-------------------------|-------------|-----------------------------|---|
| RNA Area: | 470.6 | RNA Integrity Number (RIN): | 2.6 (B.02.08) |
| RNA Concentration: | 3,934 pg/μl | Result Flagging Color: | |
| rRNA Ratio [28s / 18s]: | 0.0 | Result Flagging Label: | RIN: 2.60 |

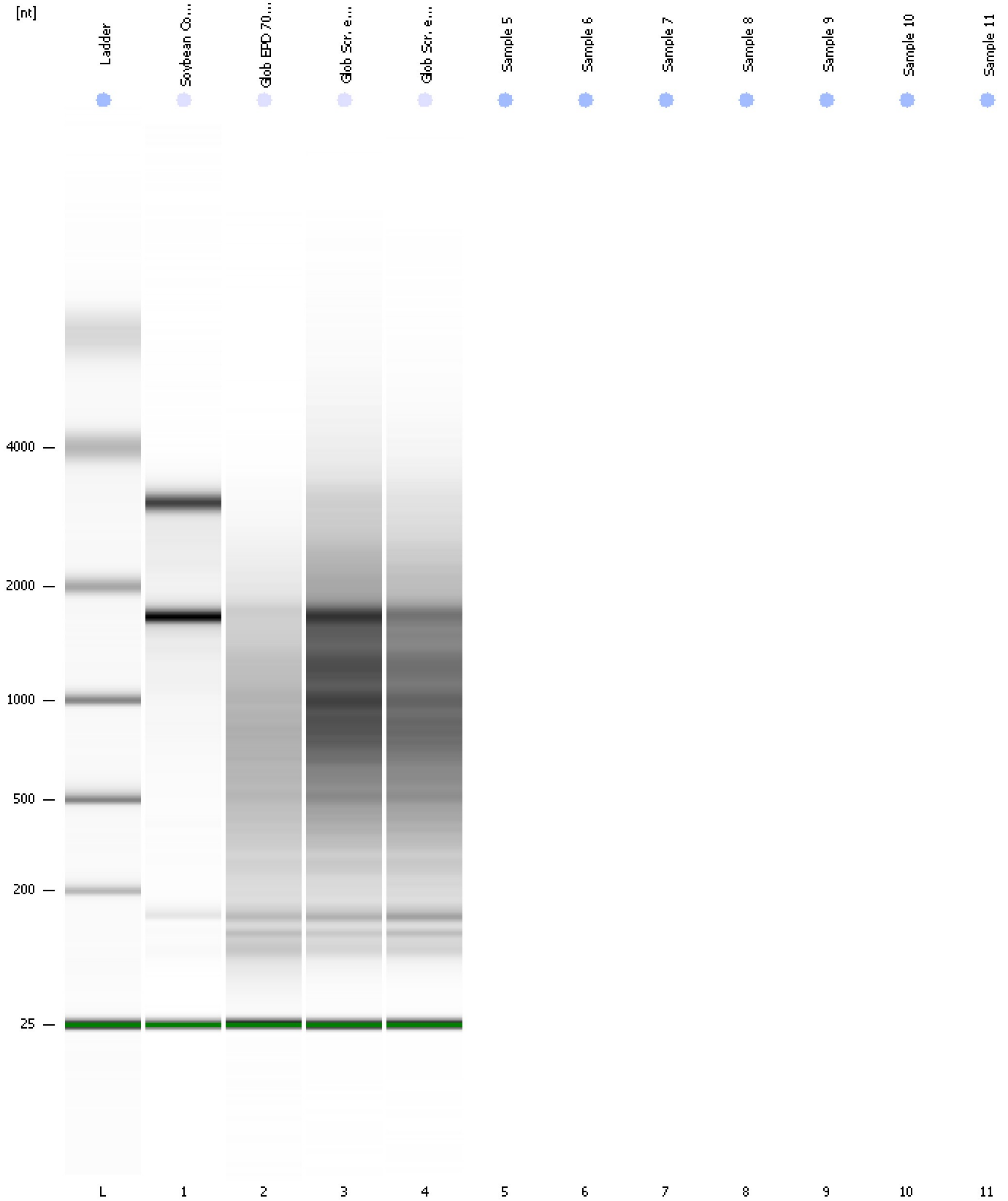
Fragment table for sample 4 : Glob Scr. embed 5/8

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S | 1,146 | 1,478 | 3.8 | 0.8 |

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-28\2013-05-28_004.xad

Created: 5/28/2013 1:35:16 PM
Modified: 5/28/2013 1:48:10 PM

Gel Image



Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-28\2013-05-28_004.xad

Created: 5/28/2013 1:35:16 PM
Modified: 5/28/2013 1:48:10 PM

Invalid Samples

- Sample 5 has not been run, no results available.
- 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.

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-28\2013-05-28_004.xad

Created: 5/28/2013 1:35:16 PM
 Modified: 5/28/2013 1:48:10 PM

Run Logbook

| Description | Number | Source | Category | Sub Category | Time | Time Zone | User | Host |
|---|--------|------------|----------|--------------|----------------------|-------------------------------------|----------|----------|
| Run ended on port 1 (Number of wells acquired: 5) | | Instrument | Run | | 5/28/2013 1:48:08 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-05-28\2013-05-28_004.xad) | | Instrument | Run | | 5/28/2013 1:35:21 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 5/28/2013 1:35:21 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 5/28/2013 1:35:21 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 5/28/2013 1:35:21 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 5/28/2013 1:35:21 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 5/28/2013 1:35:21 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 5/28/2013 1:35:21 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |