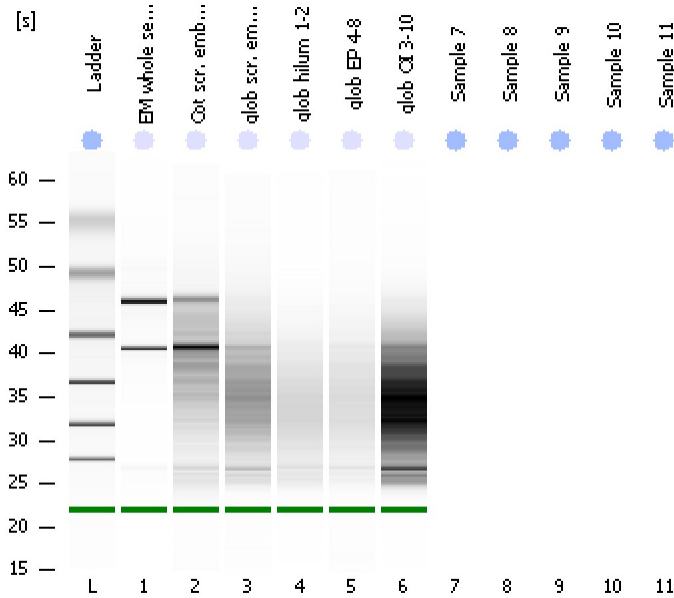


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-27\2012-06-27\_003.xad

Created: 6/27/2012 11:34:28 AM  
Modified: 6/27/2012 11:50:19 AM

Electrophoresis File Run Summary



Instrument Information:

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

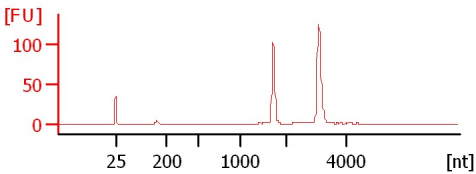
Assay Information:

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.

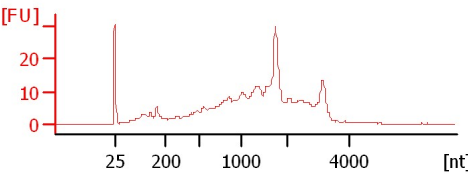
Chip Information:

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

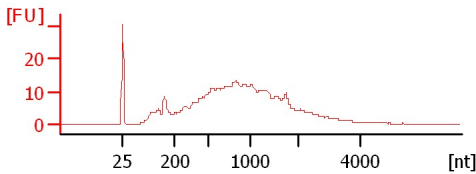
EM whole seed control  
RIN:10



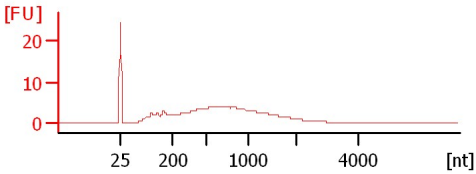
Cot scr. embed 6/22  
RIN:6



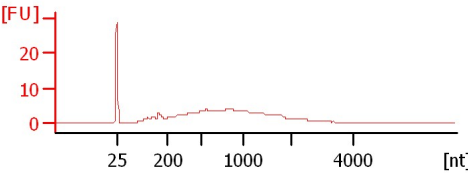
glob scr. embed 6/15  
RIN: 2.70



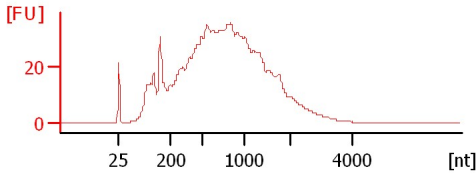
glob hilum 1-2  
RIN: 1.70



glob EP 4-8  
RIN: 1.40



glob OI 3-10  
RIN: 1.90



Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-27\2012-06-27\_003.xad

Created: 6/27/2012 11:34:28 AM  
Modified: 6/27/2012 11:50:19 AM

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

| Sample Name           | Sample Comment | Status | Result Label      | Result Color |
|-----------------------|----------------|--------|-------------------|--------------|
| EM whole seed control |                | ✓      | RIN:10            |              |
| Cot scr. embed 6/22   |                | ✓      | RIN:6             |              |
| glob scr. embed 6/15  |                | ✓      | RIN: 2.70         |              |
| glob hilum 1-2        |                | ✓      | RIN: 1.70         |              |
| glob EP 4-8           |                | ✓      | RIN: 1.40         |              |
| glob OI 3-10          |                | ✓      | RIN: 1.90         |              |
| 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\2012-06-27\2012-06-27\_003.xad

Created: 6/27/2012 11:34:28 AM  
Modified: 6/27/2012 11:50:19 AM

## 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/ $\mu$ l] : 1000  
Lower Marker Concentration [pg/ $\mu$ l] : 0  
Upper Marker Concentration [pg/ $\mu$ 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

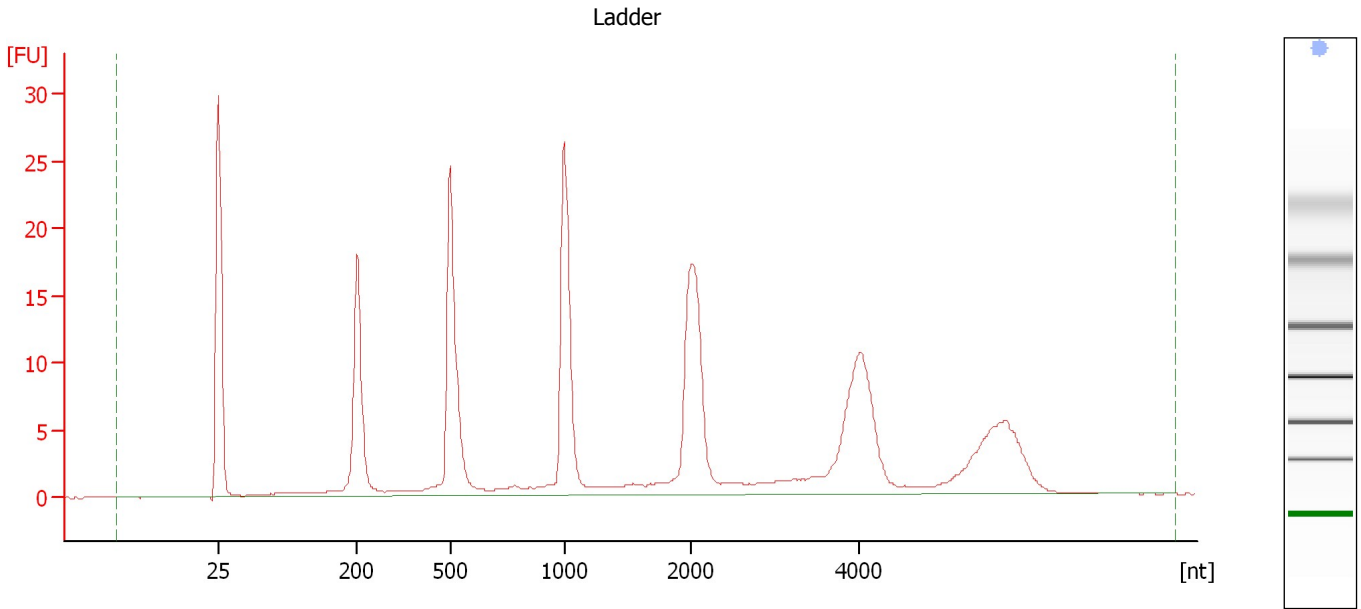
### Ladder

| 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\2012-06-27\2012-06-27\_003.xad

Created: 6/27/2012 11:34:28 AM  
Modified: 6/27/2012 11:50:19 AM

**Electropherogram Summary**



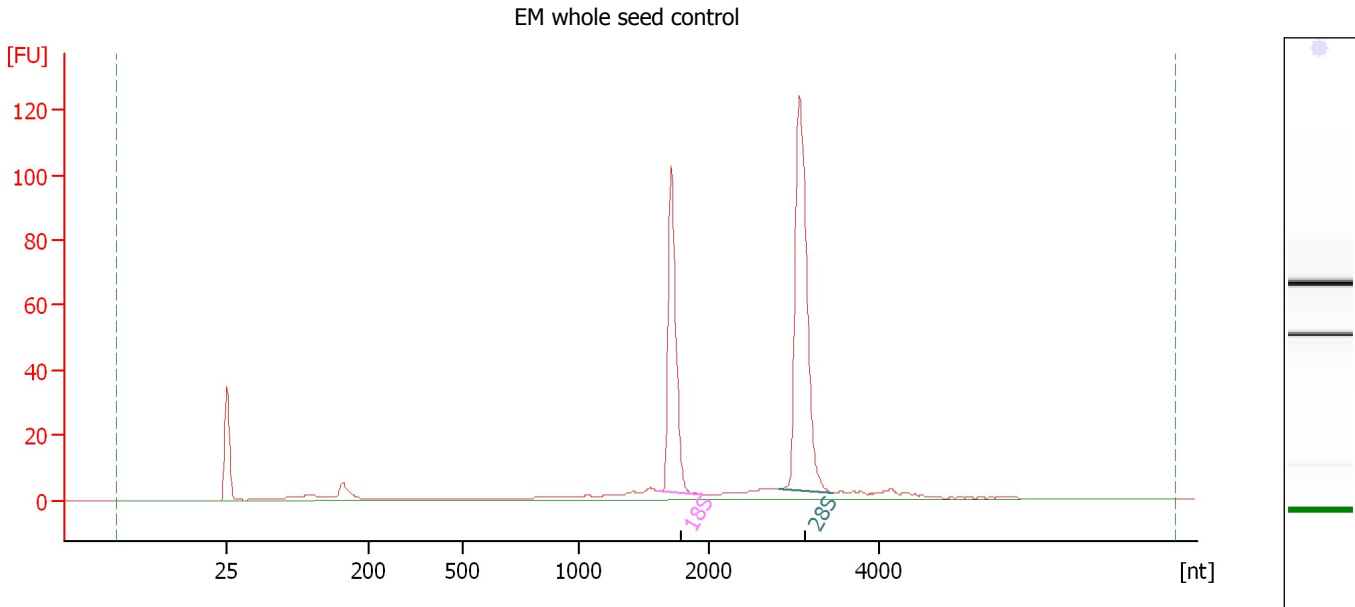
**Overall Results for Ladder**

|                    |             |                        |   |
|--------------------|-------------|------------------------|---|
| RNA Area:          | 215.4       | Result Flagging Color: | <span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span> |
| 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\2012-06-27\2012-06-27\_003.xad

Created: 6/27/2012 11:34:28 AM  
Modified: 6/27/2012 11:50:19 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : EM whole seed control**

RNA Area: 349.3 RNA Integrity Number (RIN): 10 (B.02.08)  
RNA Concentration: 1,622 pg/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN:10

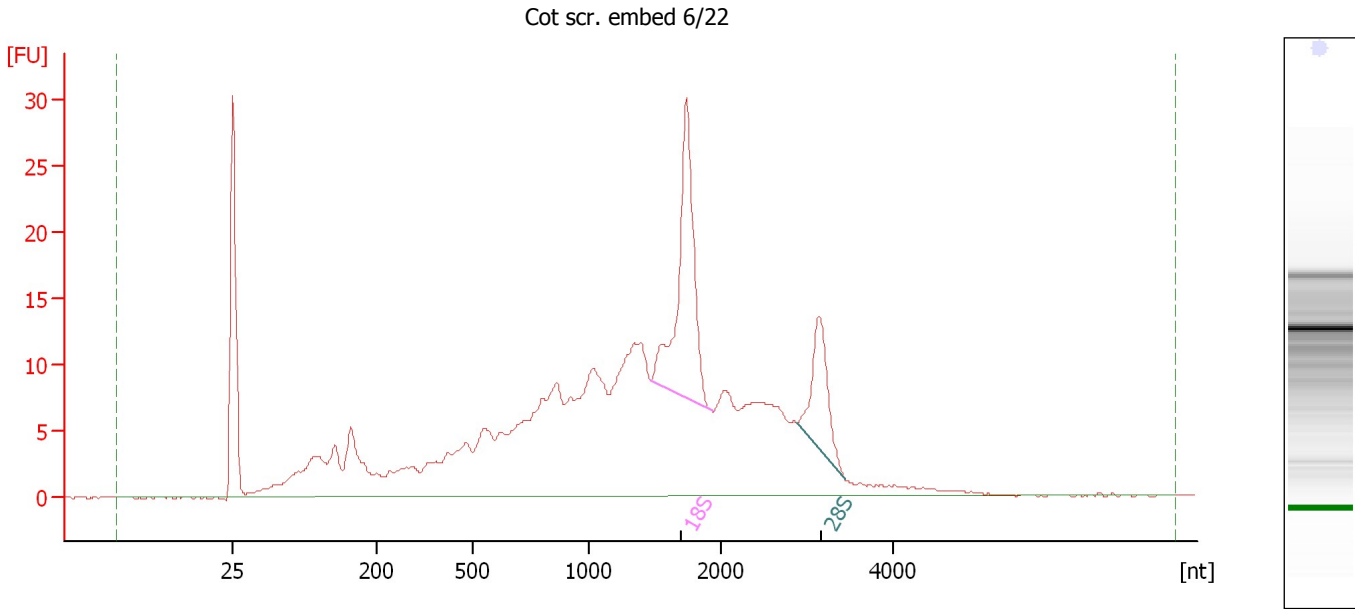
**Fragment table for sample 1 : EM whole seed control**

| Name | Start Size [nt] | End Size [nt] | Area  | % of total Area |
|------|-----------------|---------------|-------|-----------------|
| 18S  | 1,617           | 1,980         | 93.4  | 26.7            |
| 28S  | 2,823           | 3,462         | 149.8 | 42.9            |

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-27\2012-06-27\_003.xad

Created: 6/27/2012 11:34:28 AM  
Modified: 6/27/2012 11:50:19 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Cot scr. embed 6/22**

RNA Area: 406.0 RNA Integrity Number (RIN): 6 (B.02.08)  
RNA Concentration: 1,885 pg/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.4 Result Flagging Label: RIN:6

**Fragment table for sample 2 : Cot scr. embed 6/22**

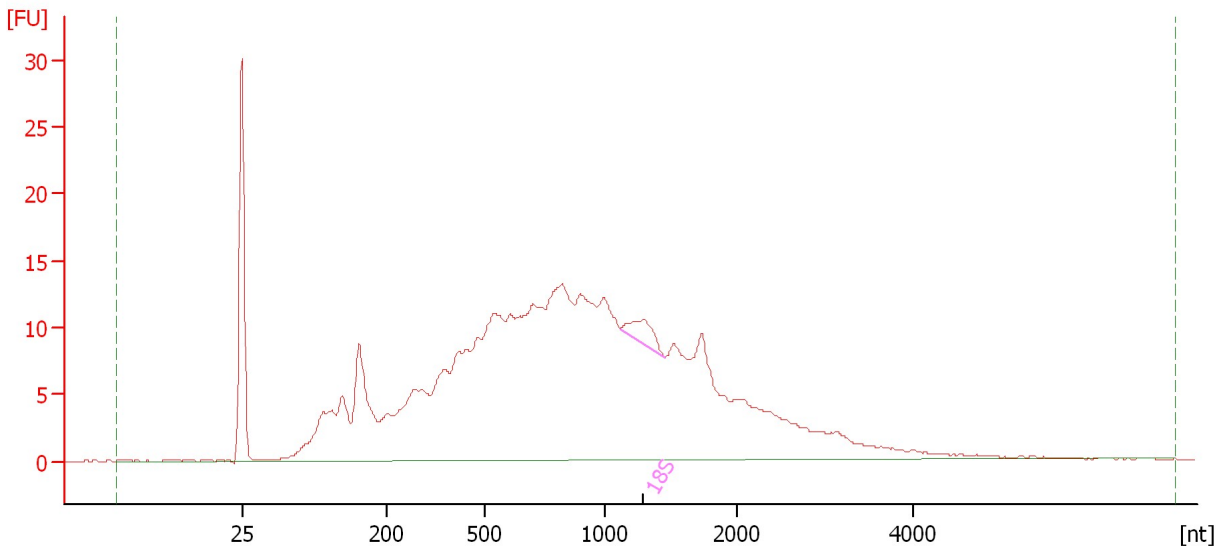
| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S  | 1,470           | 1,936         | 40.8 | 10.1            |
| 28S  | 2,881           | 3,438         | 16.1 | 4.0             |

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-27\2012-06-27\_003.xad

Created: 6/27/2012 11:34:28 AM  
Modified: 6/27/2012 11:50:19 AM

**Electropherogram Summary Continued ...**

glob scr. embed 6/15



**Overall Results for sample 3 : glob scr. embed 6/15**

|                         |             |                             |   |
|-------------------------|-------------|-----------------------------|---|
| RNA Area:               | 446.8       | RNA Integrity Number (RIN): | 2.7 (B.02.08)   |
| RNA Concentration:      | 2,075 pg/μl | Result Flagging Color:      | <span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span> |
| rRNA Ratio [28s / 18s]: | 0.0         | Result Flagging Label:      | RIN: 2.70   |

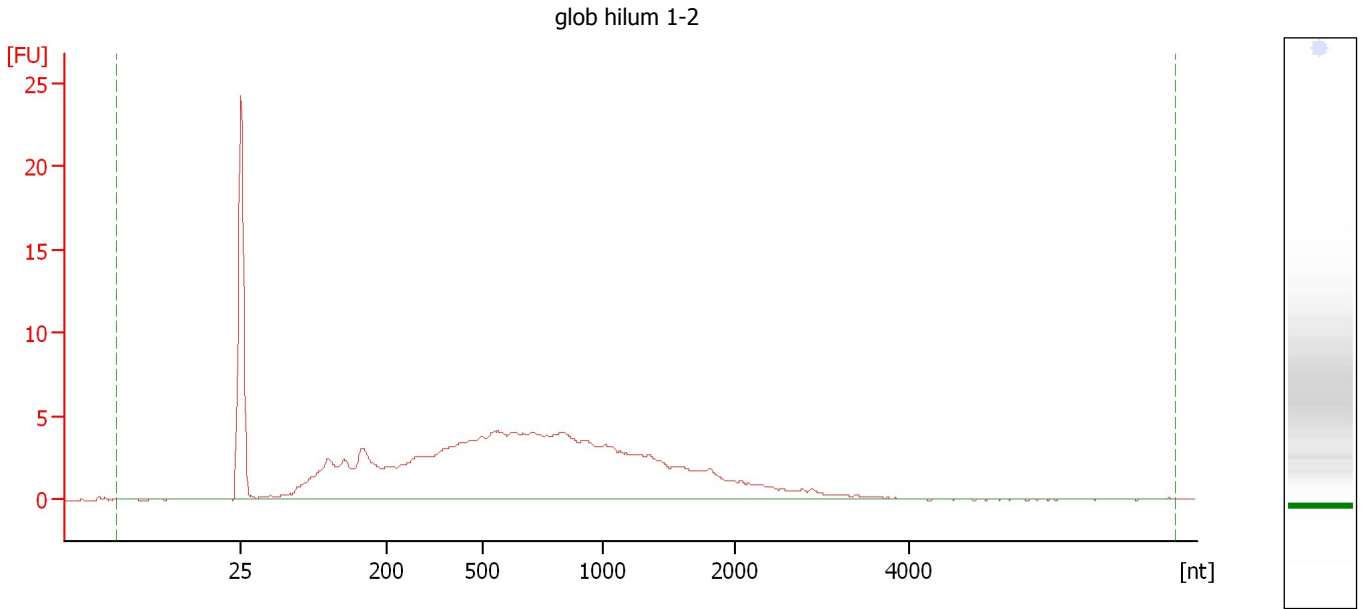
**Fragment table for sample 3 : glob scr. embed 6/15**

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S  | 1,123           | 1,452         | 4.8  | 1.1             |

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-27\2012-06-27\_003.xad

Created: 6/27/2012 11:34:28 AM  
Modified: 6/27/2012 11:50:19 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : glob hilum 1-2**

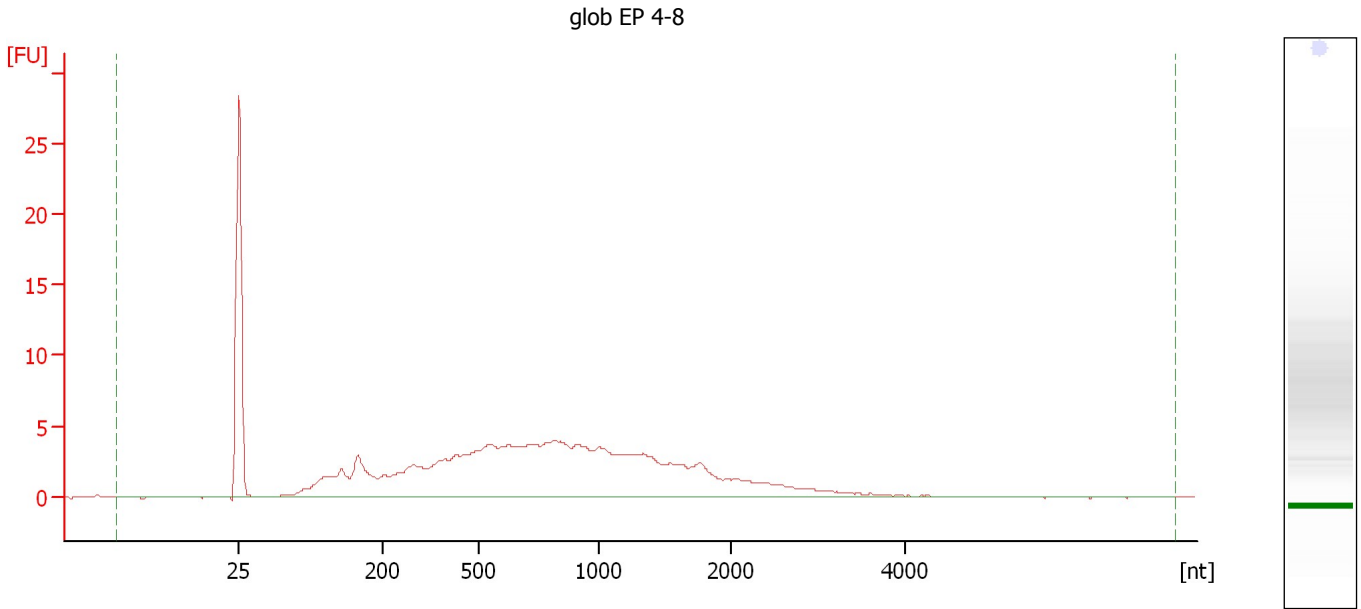
|                         |           |                             |   |
|-------------------------|-----------|-----------------------------|---|
| RNA Area:               | 154.7     | RNA Integrity Number (RIN): | 1.7 (B.02.08)   |
| RNA Concentration:      | 718 µg/µl | Result Flagging Color:      | <span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span> |
| rRNA Ratio [28s / 18s]: | 0.0       | Result Flagging Label:      | RIN: 1.70   |



Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-27\2012-06-27\_003.xad

Created: 6/27/2012 11:34:28 AM  
Modified: 6/27/2012 11:50:19 AM

**Electropherogram Summary Continued ...**



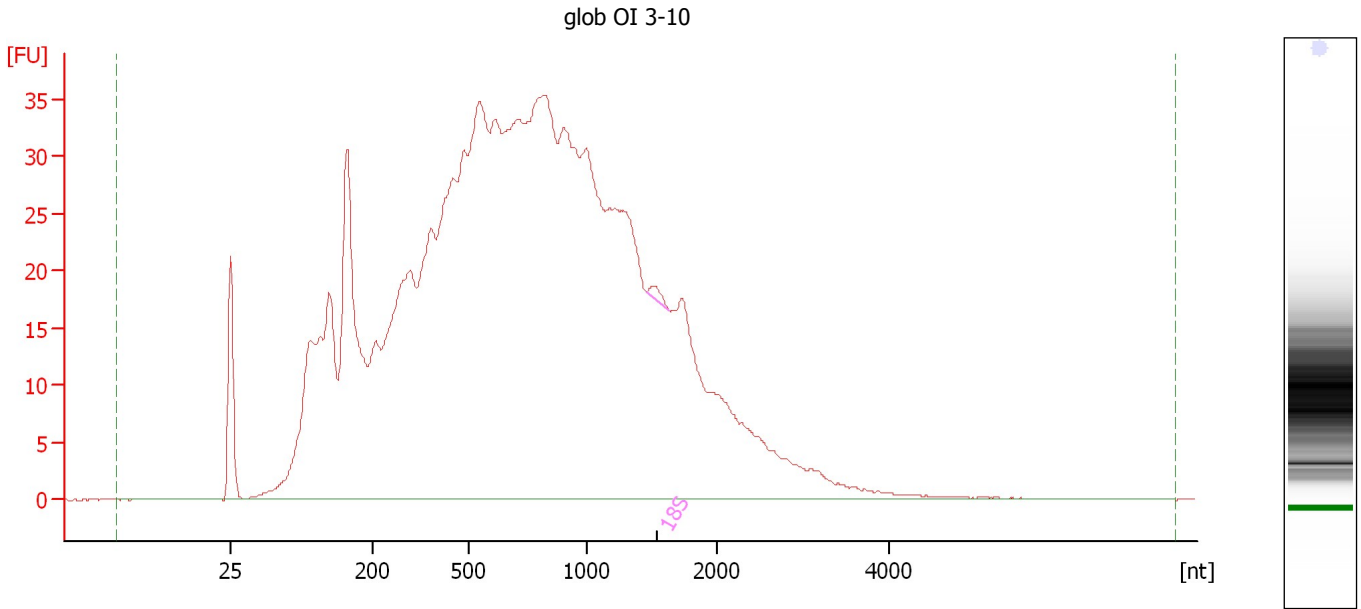
**Overall Results for sample 5 : glob EP 4-8**

|                         |           |                             |   |
|-------------------------|-----------|-----------------------------|---|
| RNA Area:               | 145.2     | RNA Integrity Number (RIN): | 1.4 (B.02.08)   |
| RNA Concentration:      | 674 µg/µl | Result Flagging Color:      | <span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span> |
| rRNA Ratio [28s / 18s]: | 0.0       | Result Flagging Label:      | RIN: 1.40   |

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-27\2012-06-27\_003.xad

Created: 6/27/2012 11:34:28 AM  
Modified: 6/27/2012 11:50:19 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : glob OI 3-10**

|                         |             |                             |   |
|-------------------------|-------------|-----------------------------|---|
| RNA Area:               | 1,259.3     | RNA Integrity Number (RIN): | 1.9 (B.02.08)   |
| RNA Concentration:      | 5,847 pg/μl | Result Flagging Color:      | <span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span> |
| rRNA Ratio [28s / 18s]: | 0.0         | Result Flagging Label:      | RIN: 1.90   |

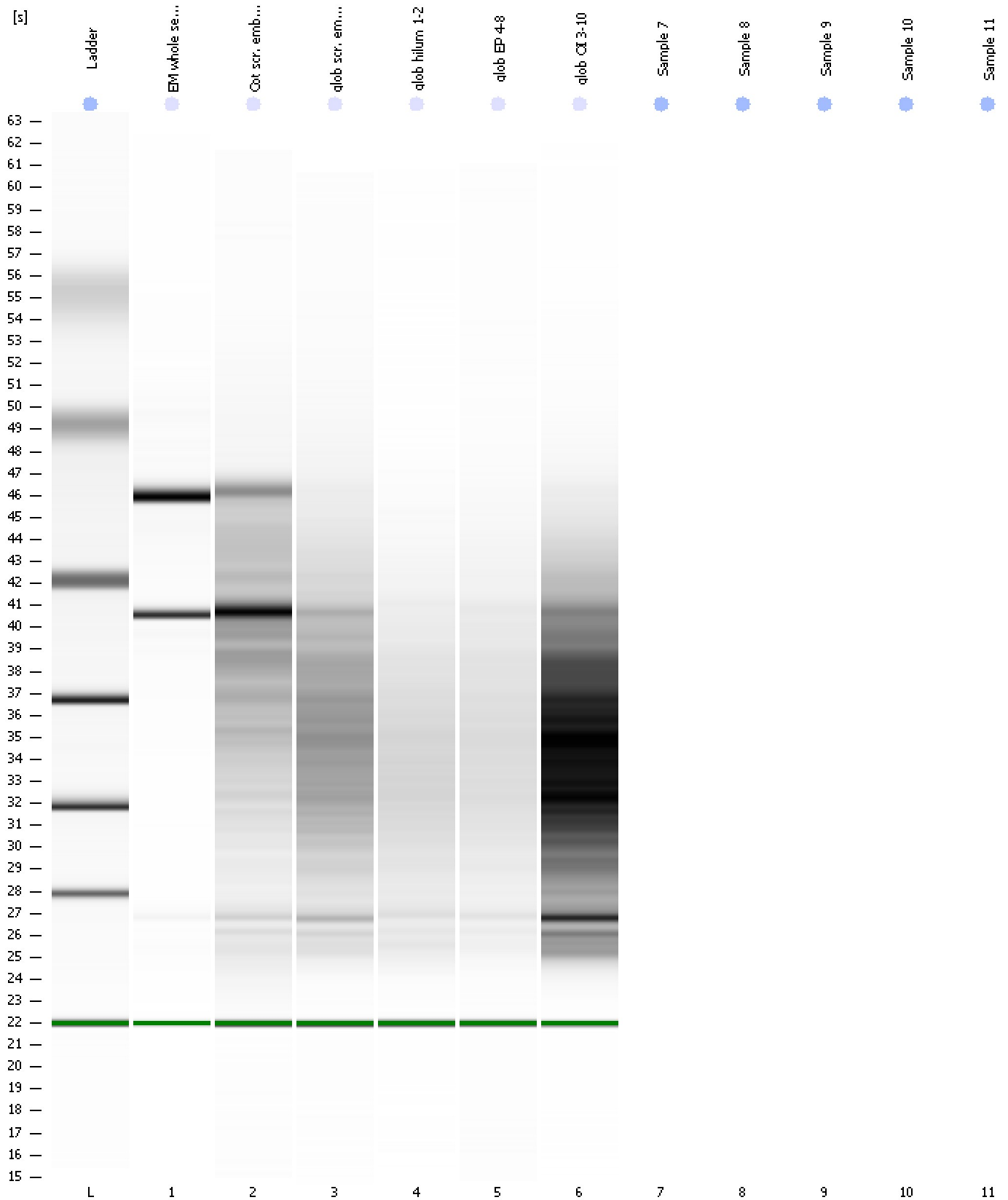
**Fragment table for sample 6 : glob OI 3-10**

| Name | Start Size [nt] | End Size [nt] | Area | % of total Area |
|------|-----------------|---------------|------|-----------------|
| 18S  | 1,459           | 1,639         | 1.8  | 0.1             |

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-27\2012-06-27\_003.xad

Created: 6/27/2012 11:34:28 AM  
Modified: 6/27/2012 11:50:19 AM

**Gel Image**



Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-27\2012-06-27\_003.xad

Created: 6/27/2012 11:34:28 AM  
Modified: 6/27/2012 11:50:19 AM

**Invalid Samples**

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\2012-06-27\2012-06-27\_003.xad

Created: 6/27/2012 11:34:28 AM  
 Modified: 6/27/2012 11:50:19 AM

**Run Logbook**

| Description   | Number | Source     | Category | Sub Category | Time                  | Time Zone                           | User     | Host     |
|---|--------|------------|----------|--------------|-----------------------|-------------------------------------|----------|----------|
| Run ended on port 1 (Number of wells acquired: 7)   |        | Instrument | Run      |              | 6/27/2012 11:50:12 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-06-27\2012-06-27_003.xad) |        | Instrument | Run      |              | 6/27/2012 11:34:33 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B   |        | Instrument | Run      |              | 6/27/2012 11:34:33 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name :  |        | Instrument | Run      |              | 6/27/2012 11:34:33 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies   |        | Instrument | Run      |              | 6/27/2012 11:34:33 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086  |        | Instrument | Run      |              | 6/27/2012 11:34:33 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069   |        | Instrument | Run      |              | 6/27/2012 11:34:33 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode   |        | Instrument | Run      |              | 6/27/2012 11:34:33 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |