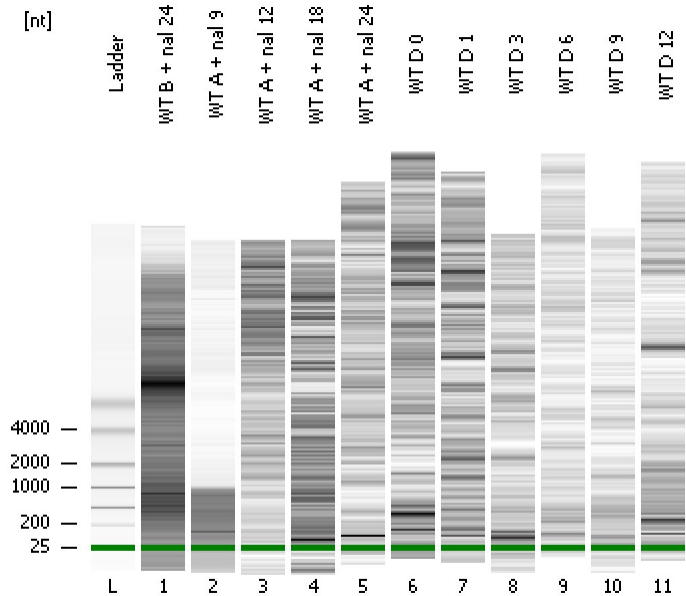


Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-29\2017-08-29\_001.xad

Created: 8/29/2017 9:28:31 AM  
Modified: 8/29/2017 9:54:25 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\mRNA Pico Series II.xsy

Assay Class: mRNA Pico  
Version: 2.6  
Assay Comments: mRNA Analysis pg sensitivity

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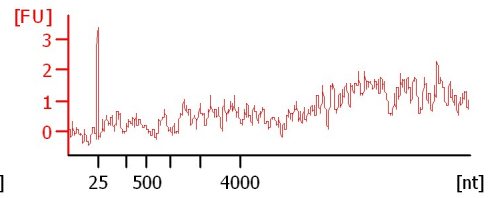
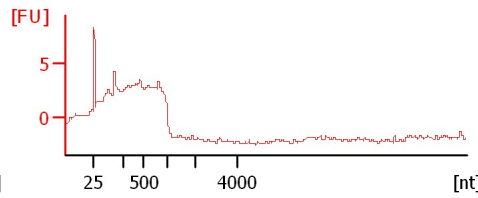
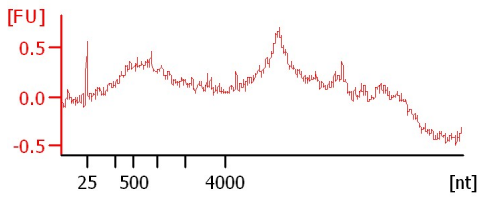
Chip Information:

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

**WT B + nal 24**

**WT A + nal 9**

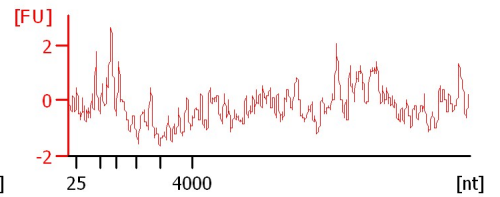
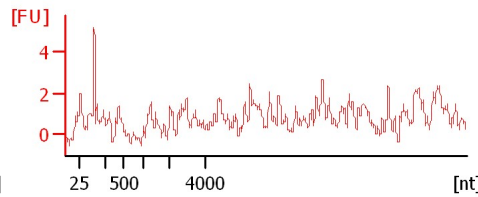
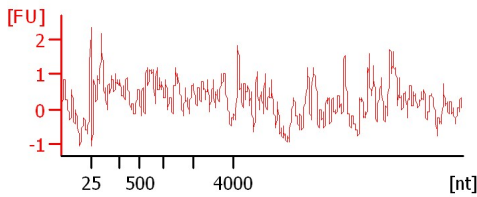
**WT A + nal 12**



**WT A + nal 18**

**WT A + nal 24**

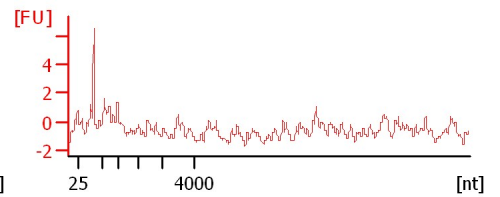
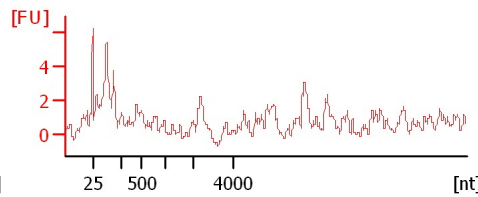
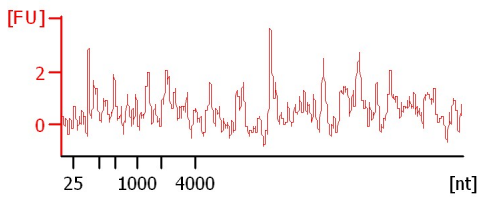
**WTD 0**



**WTD 1**

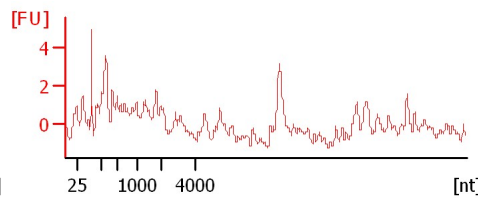
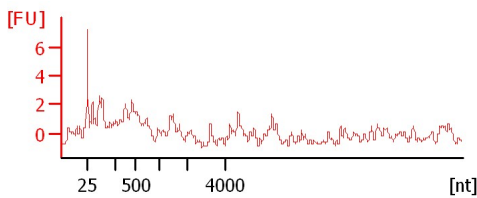
**WTD 3**

**WTD 6**



**WTD 9**

**WTD 12**



Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-29\2017-08-29\_001.xad

Created: 8/29/2017 9:28:31 AM  
Modified: 8/29/2017 9:54:25 AM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
WT B + nal 24		✓		
WT A + nal 9		✓		
WT A + nal 12		✓		
WT A + nal 18		✓		
WT A + nal 24		✓		
WT D 0		✓		
WT D 1		✓		
WT D 3		✓		
WT D 6		✓		
WT D 9		✓		
WT D 12		✓		
Ladder		✓		

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-29\2017-08-29\_001.xad

Created: 8/29/2017 9:28:31 AM  
Modified: 8/29/2017 9:54:25 AM

## Electrophoresis Assay Details

### General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12  
Minimum Visible Range [s] : 14  
Maximum Visible Range [s] : 85  
Start Analysis Time Range [s] : 15  
End Analysis Time Range [s] : 84  
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] : 15  
Integration End Time [s] : 84  
Slope Threshold : 0.2  
Height Threshold [FU] : 0.5  
Area Threshold : 0.1  
Width Threshold [s] : 0.2  
Baseline Plateau [s] : 0.5

### Filter Settings

Filter Width [s] : 0.5  
Polynomial Order : 4

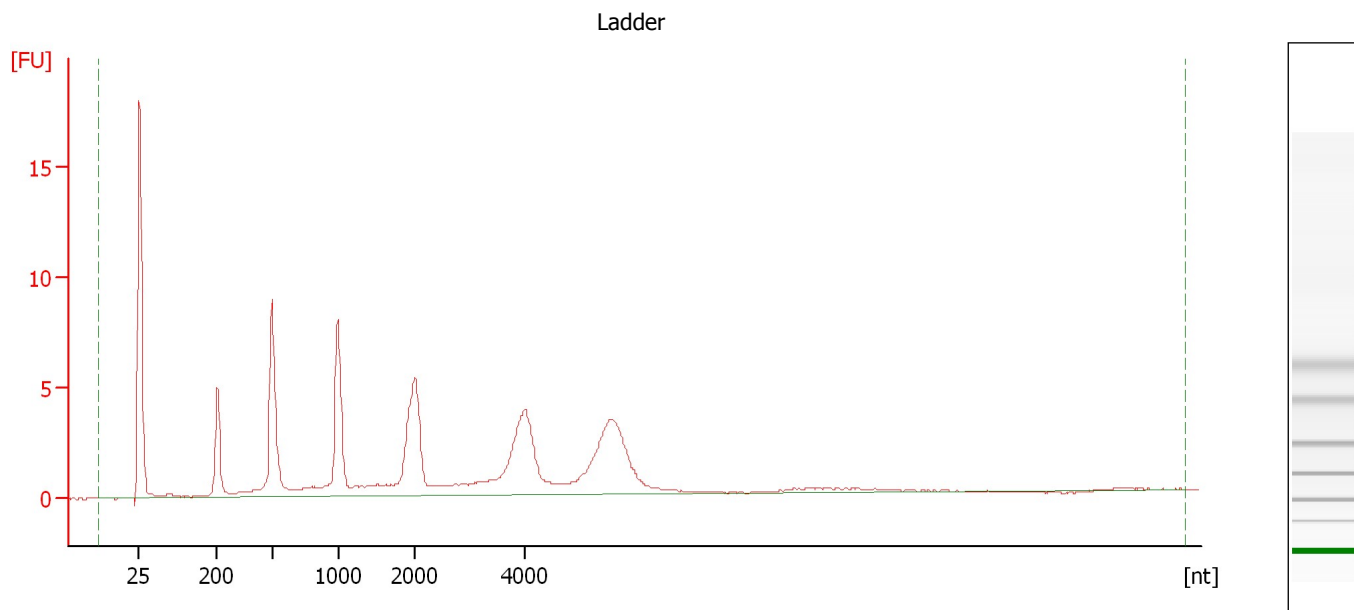
### Ladder

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

Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-29\2017-08-29\_001.xad

Created: 8/29/2017 9:28:31 AM  
Modified: 8/29/2017 9:54:25 AM

**Electropherogram Summary**



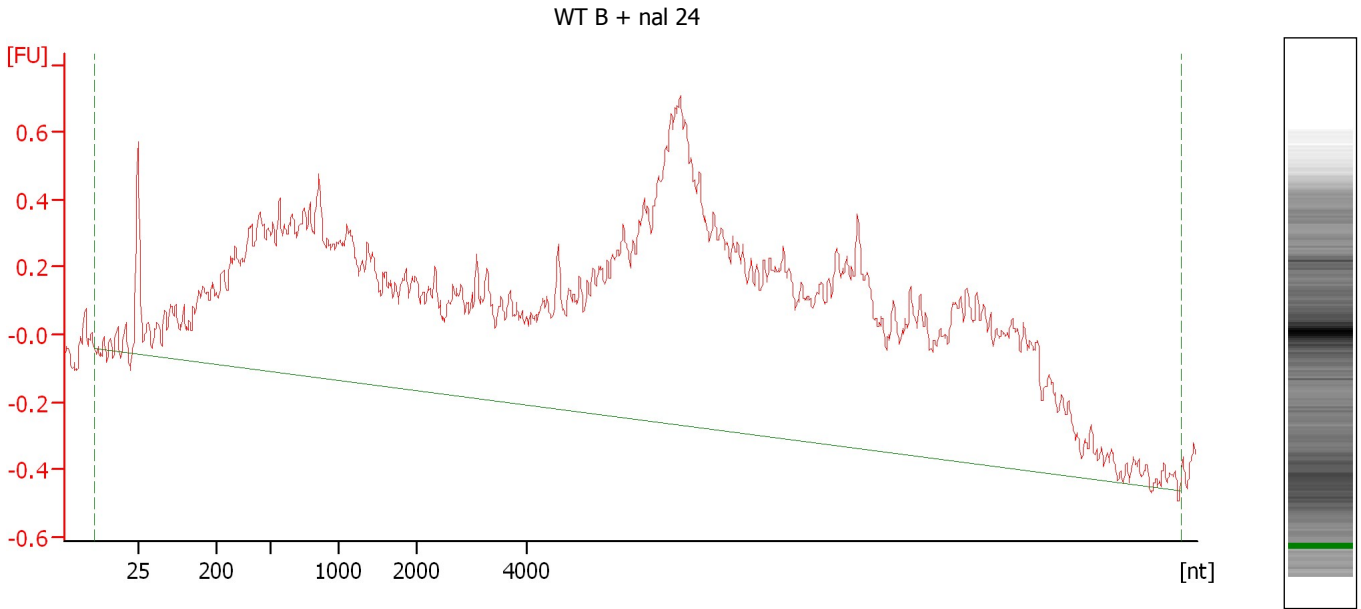
**Overall Results for Ladder**

RNA Area: 98.8                      RNA Concentration: 1,000 pg/μl

Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-29\2017-08-29\_001.xad

Created: 8/29/2017 9:28:31 AM  
Modified: 8/29/2017 9:54:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : WT B + nal 24**

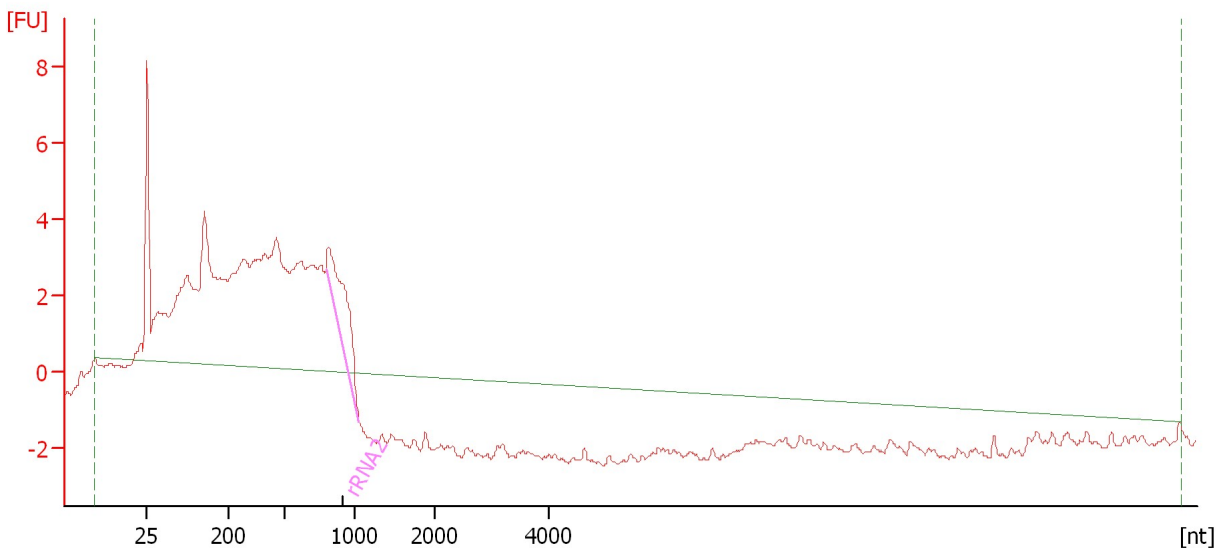
RNA Area: 52.2                      rRNA Contamination: 0.0 %  
RNA Concentration: 528 pg/μl

Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-29\2017-08-29\_001.xad

Created: 8/29/2017 9:28:31 AM  
Modified: 8/29/2017 9:54:25 AM

**Electropherogram Summary Continued ...**

WT A + nal 9



**Overall Results for sample 2 : WT A + nal 9**

RNA Area: 119.2                      rRNA Contamination: 6.4 %  
RNA Concentration: 1,207 pg/μl

**Fragment table for sample 2 : WT A + nal 9**

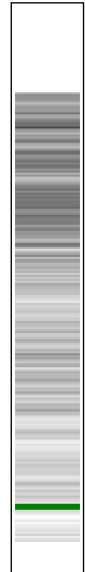
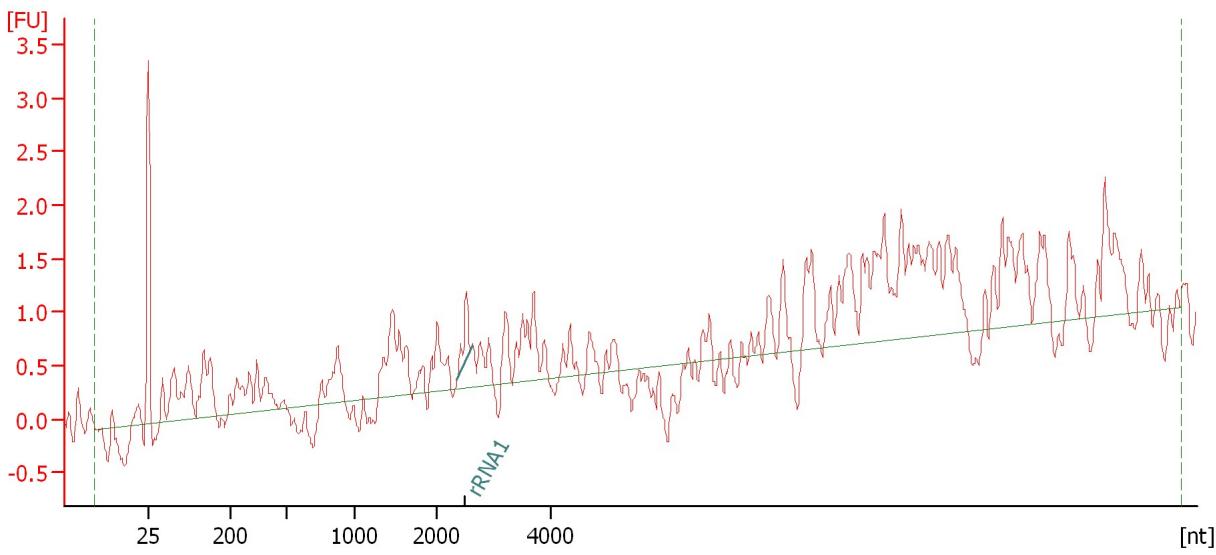
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	796	1,068	7.6	6.4

Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-29\2017-08-29\_001.xad

Created: 8/29/2017 9:28:31 AM  
Modified: 8/29/2017 9:54:25 AM

**Electropherogram Summary Continued ...**

WT A + nal 12



**Overall Results for sample 3 : WT A + nal 12**

RNA Area: 34.9                                      rRNA Contamination: 1.6 %  
RNA Concentration: 353 pg/μl

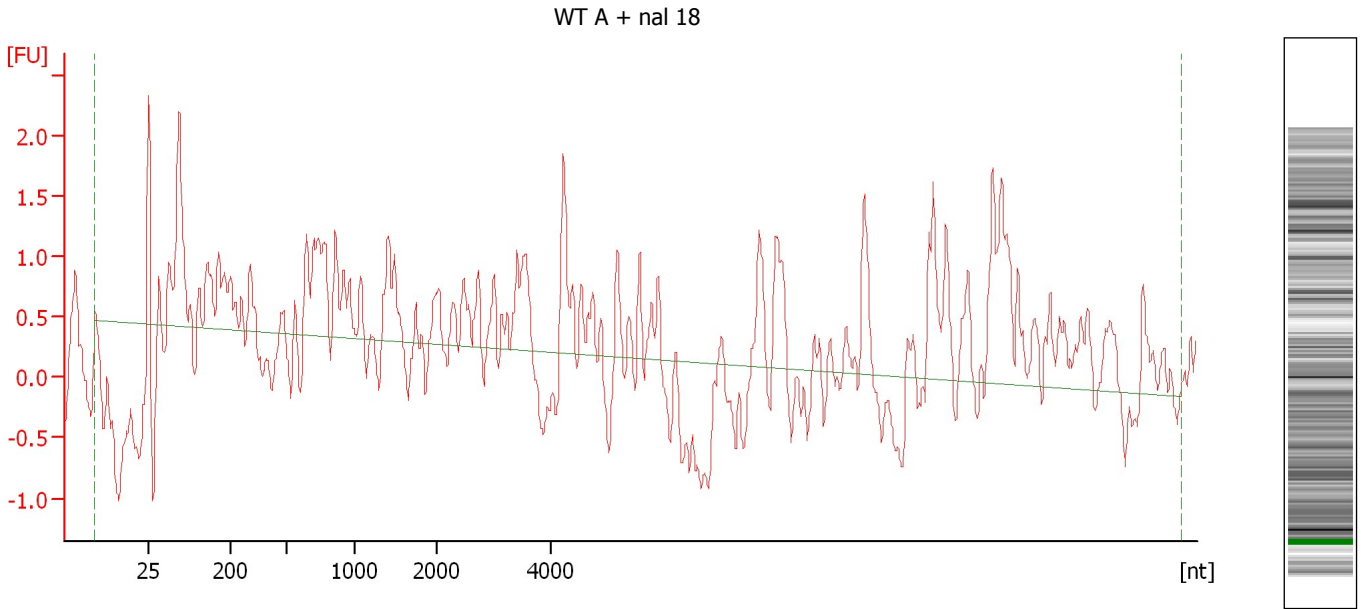
**Fragment table for sample 3 : WT A + nal 12**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	2,375	2,653	0.6	1.6

Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-29\2017-08-29\_001.xad

Created: 8/29/2017 9:28:31 AM  
Modified: 8/29/2017 9:54:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : WT A + nal 18**

RNA Area: 40.0                      rRNA Contamination: 0.0 %  
RNA Concentration: 404 pg/μl

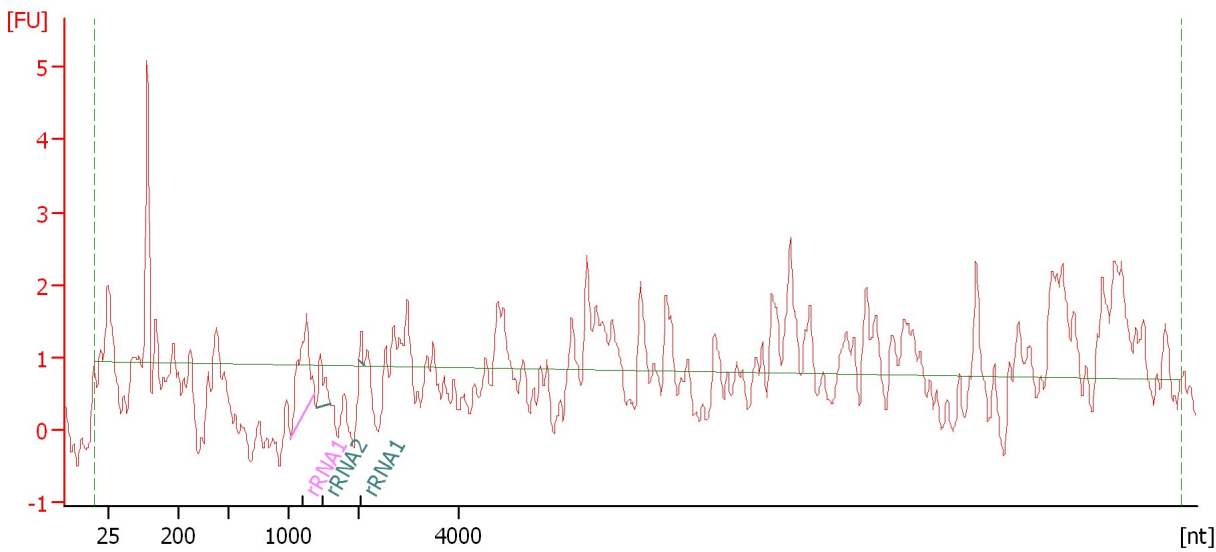


Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-29\2017-08-29\_001.xad

Created: 8/29/2017 9:28:31 AM  
Modified: 8/29/2017 9:54:25 AM

**Electropherogram Summary Continued ...**

WT A + nal 24



**Overall Results for sample 5 : WT A + nal 24**

RNA Area: 31.8                      rRNA Contamination: 14.6 %  
RNA Concentration: 322 pg/μl

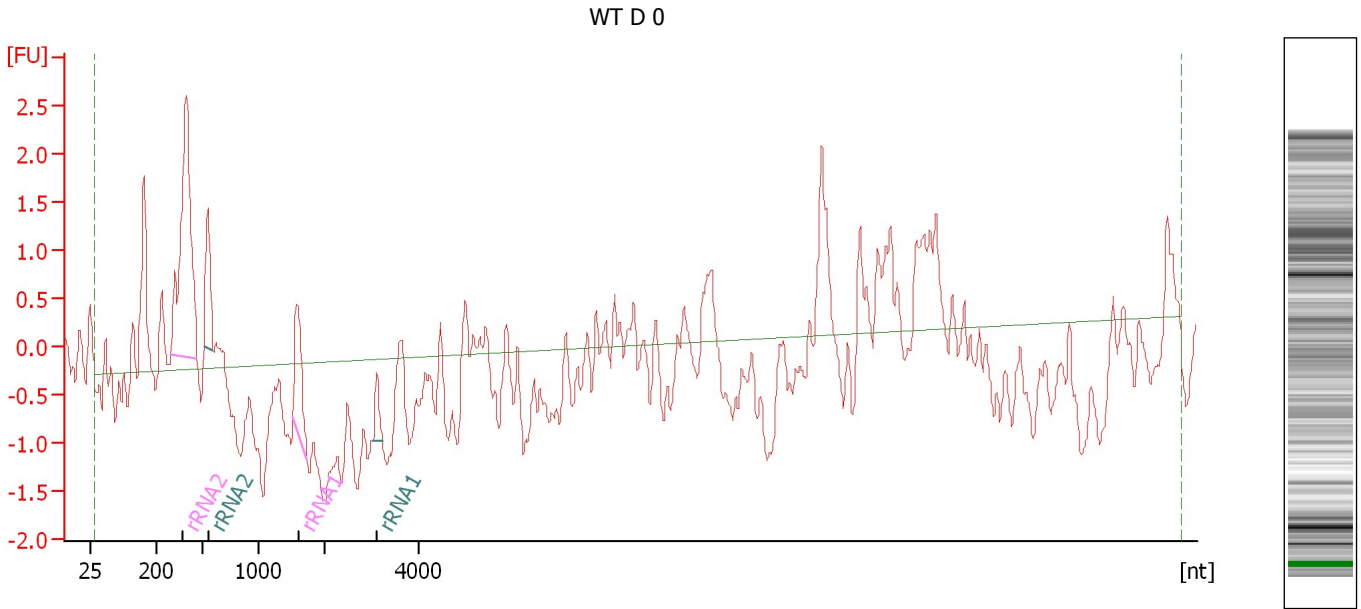
**Fragment table for sample 5 : WT A + nal 24**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,044	1,373	3.5	10.9
rRNA2	1,395	1,588	1.0	3.0
rRNA1	2,012	2,108	0.2	0.7

Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-29\2017-08-29\_001.xad

Created: 8/29/2017 9:28:31 AM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : WT D 0**

RNA Area: 30.6                      rRNA Contamination: 47.1 %  
RNA Concentration: 310 pg/μl

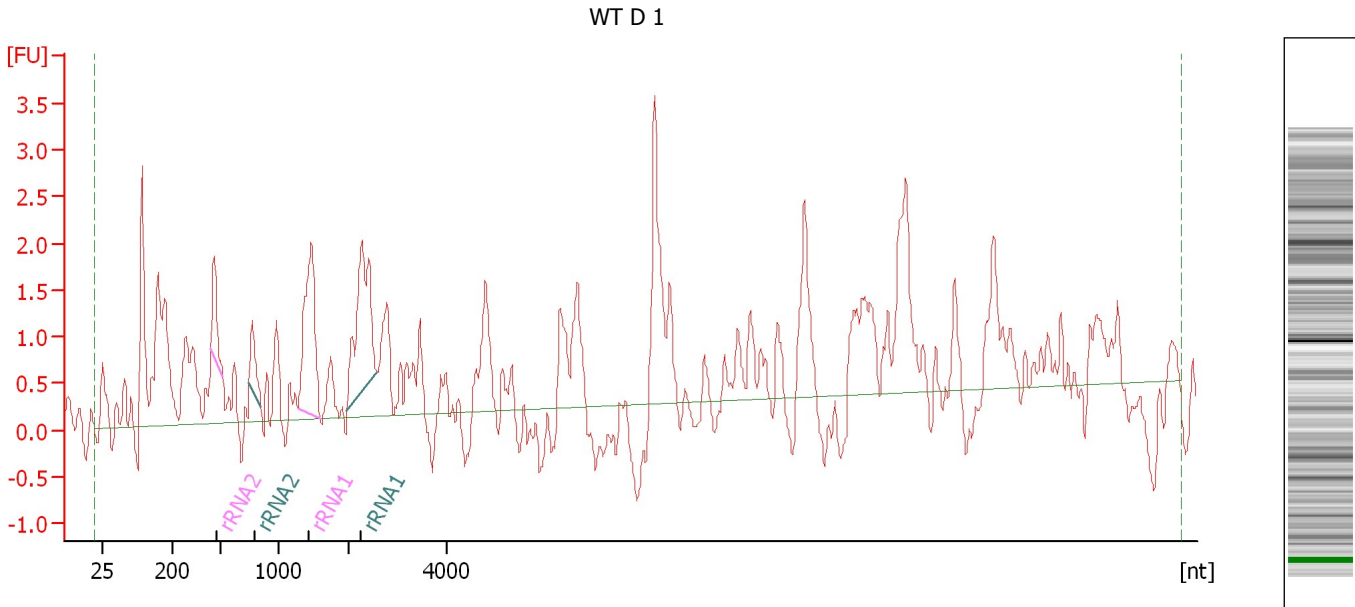
**Fragment table for sample 6 : WT D 0**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	292	464	9.4	30.9
rRNA2	507	593	2.1	6.8
rRNA1	1,518	1,737	2.3	7.5
rRNA1	3,030	3,235	0.6	2.0

Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-29\2017-08-29\_001.xad

Created: 8/29/2017 9:28:31 AM  
Modified: 8/29/2017 9:54:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : WT D 1**

RNA Area: 71.9 rRNA Contamination: 16.6 %  
RNA Concentration: 728 pg/μl

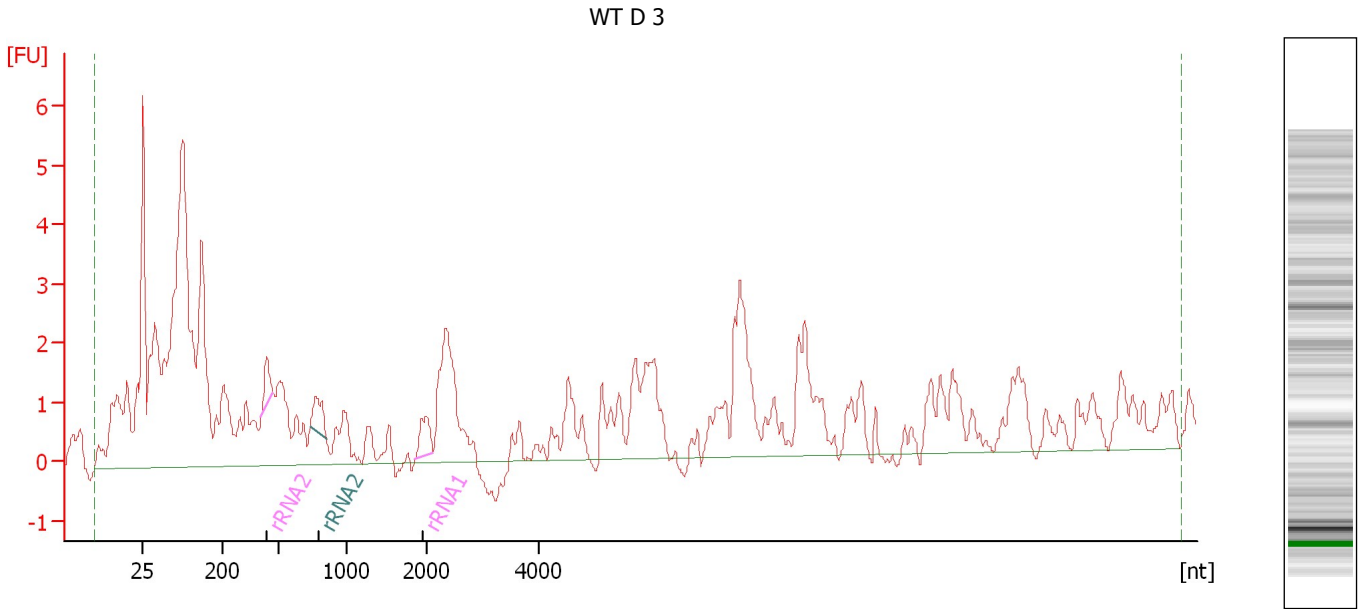
**Fragment table for sample 7 : WT D 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	442	522	1.5	2.1
rRNA2	746	848	1.0	1.4
rRNA1	1,273	1,598	4.6	6.4
rRNA1	1,992	2,592	4.8	6.7

Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-29\2017-08-29\_001.xad

Created: 8/29/2017 9:28:31 AM  
Modified: 8/29/2017 9:54:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : WT D 3**

RNA Area: 140.9                      rRNA Contamination: 2.7 %  
RNA Concentration: 1,426 pg/μl

**Fragment table for sample 8 : WT D 3**

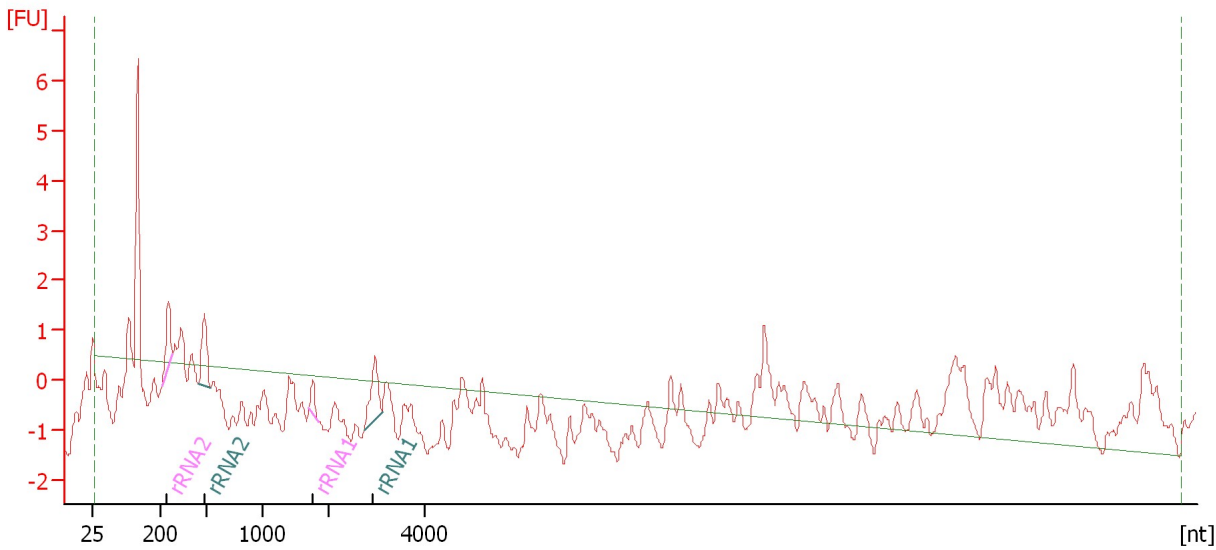
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	403	467	1.1	0.8
rRNA2	725	843	1.4	1.0
rRNA1	1,855	2,107	1.3	0.9

Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-29\2017-08-29\_001.xad

Created: 8/29/2017 9:28:31 AM  
Modified: 8/29/2017 9:54:25 AM

**Electropherogram Summary Continued ...**

WT D 6



**Overall Results for sample 9 : WT D 6**

RNA Area: 36.2                      rRNA Contamination: 19.1 %  
RNA Concentration: 366 pg/μl

**Fragment table for sample 9 : WT D 6**

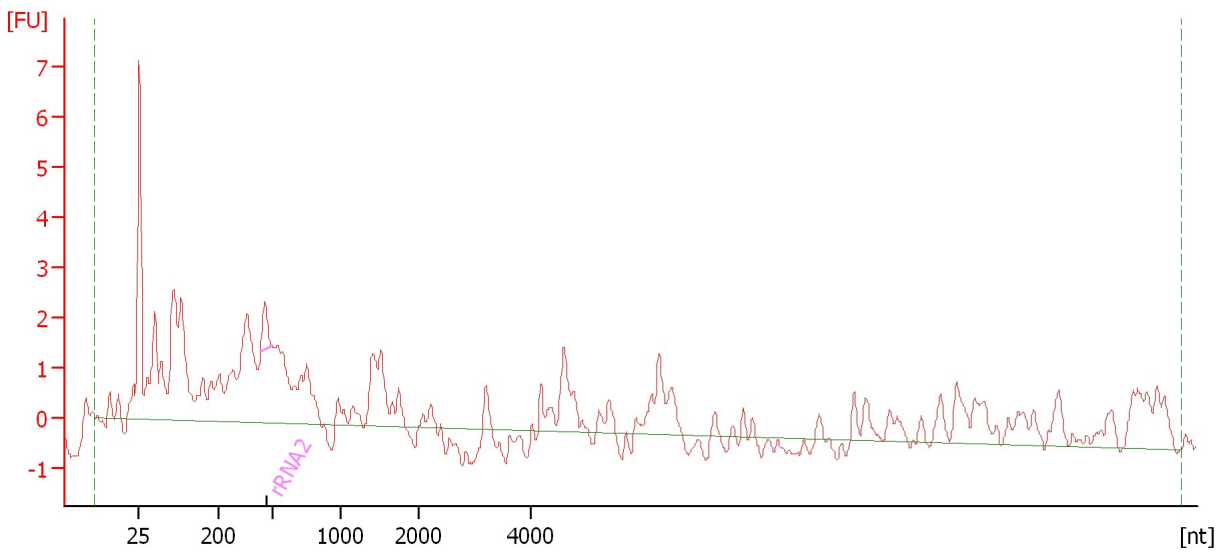
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	210	282	2.0	5.5
rRNA2	447	540	2.3	6.4
rRNA1	1,693	1,826	0.6	1.8
rRNA1	2,736	3,109	1.9	5.4

Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-29\2017-08-29\_001.xad

Created: 8/29/2017 9:28:31 AM  
Modified: 8/29/2017 9:54:25 AM

**Electropherogram Summary Continued ...**

WT D 9



**Overall Results for sample 10 : WT D 9**

RNA Area: 82.6                      rRNA Contamination: 1.5 %  
RNA Concentration: 836 pg/μl

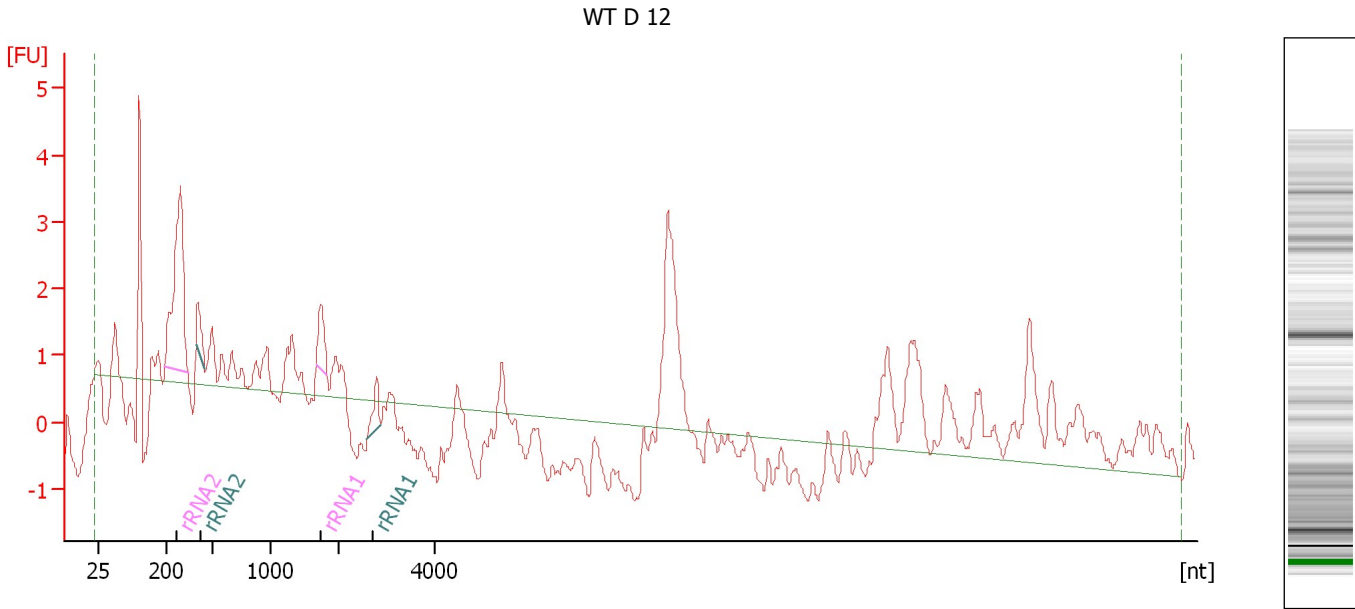
**Fragment table for sample 10 : WT D 9**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	429	494	1.3	1.5

Assay Class: mRNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-29\2017-08-29\_001.xad

Created: 8/29/2017 9:28:31 AM  
 Modified: 8/29/2017 9:54:25 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : WT D 12**

RNA Area: 50.8                      rRNA Contamination: 24.4 %  
 RNA Concentration: 515 pg/μl

**Fragment table for sample 11 : WT D 12**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	196	338	9.0	17.8
rRNA2	389	444	1.1	2.1
rRNA1	1,668	1,834	1.4	2.7
rRNA1	2,596	2,879	0.9	1.7

Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-29\2017-08-29\_001.xad

Created: 8/29/2017 9:28:31 AM  
Modified: 8/29/2017 9:54:25 AM

**Gel Image**

