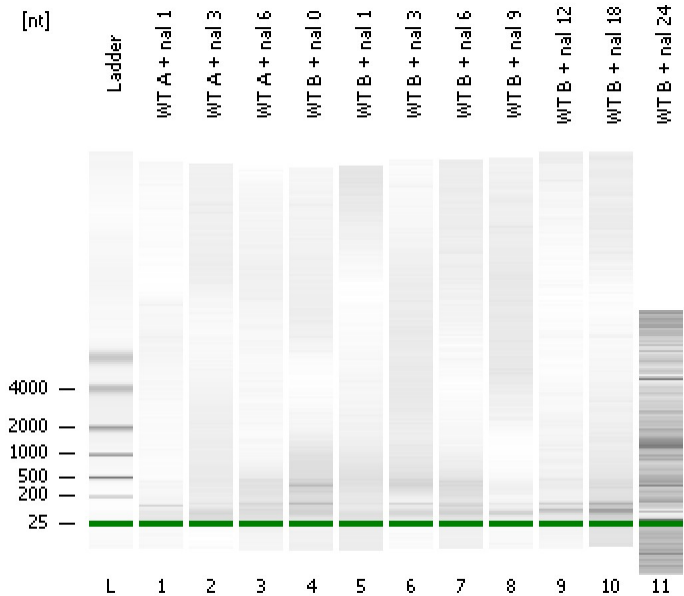


Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-28\2017-08-28_003.xad

Created: 8/28/2017 10:56:01 AM
Modified: 8/28/2017 11:21:08 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

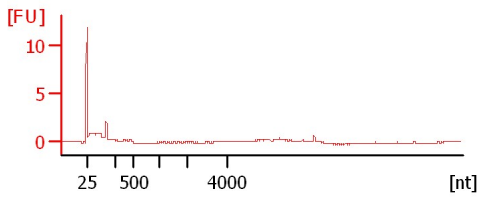
Assay Class: mRNA Pico
Version: 2.6
Assay Comments: mRNA Analysis pg sensitivity

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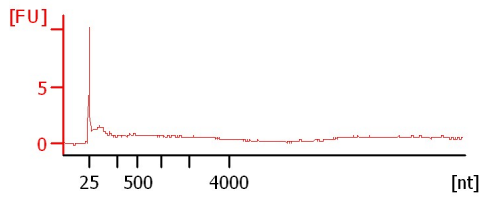
Chip Information:

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

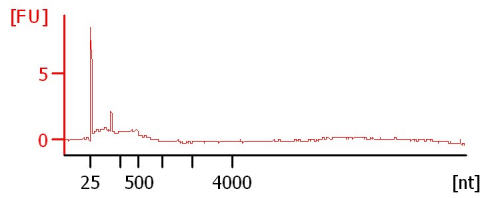
WT A + nal 1



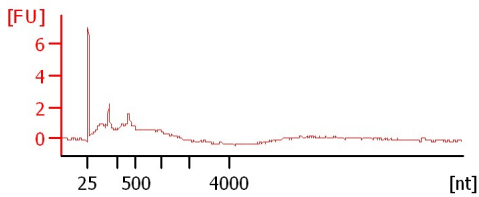
WT A + nal 3



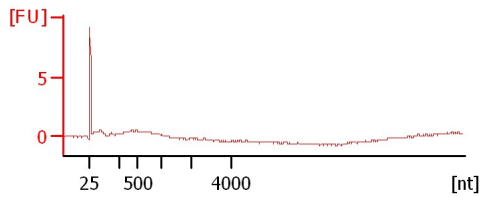
WT A + nal 6



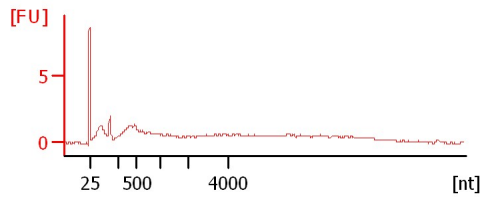
WT B + nal 0



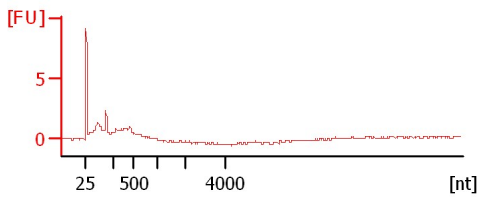
WT B + nal 1



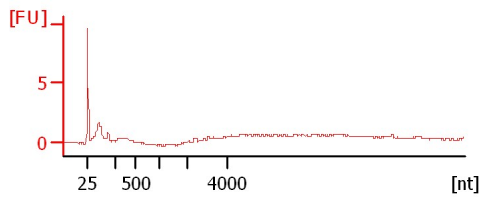
WT B + nal 3



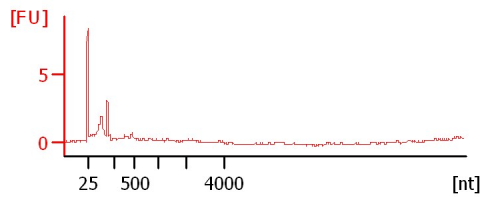
WT B + nal 6



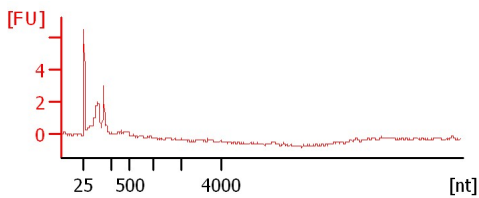
WT B + nal 9



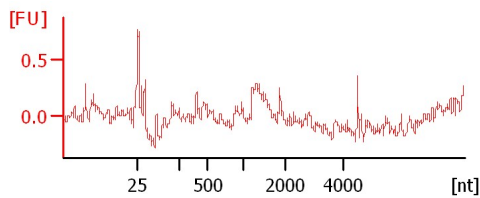
WT B + nal 12



WT B + nal 18



WT B + nal 24



Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-28\2017-08-28_003.xad

Created: 8/28/2017 10:56:01 AM
Modified: 8/28/2017 11:21:08 AM

Electrophoresis File Run Summary (Chip Summary)

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

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

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-28\2017-08-28_003.xad

Created: 8/28/2017 10:56:01 AM
Modified: 8/28/2017 11:21:08 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/ 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] : 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

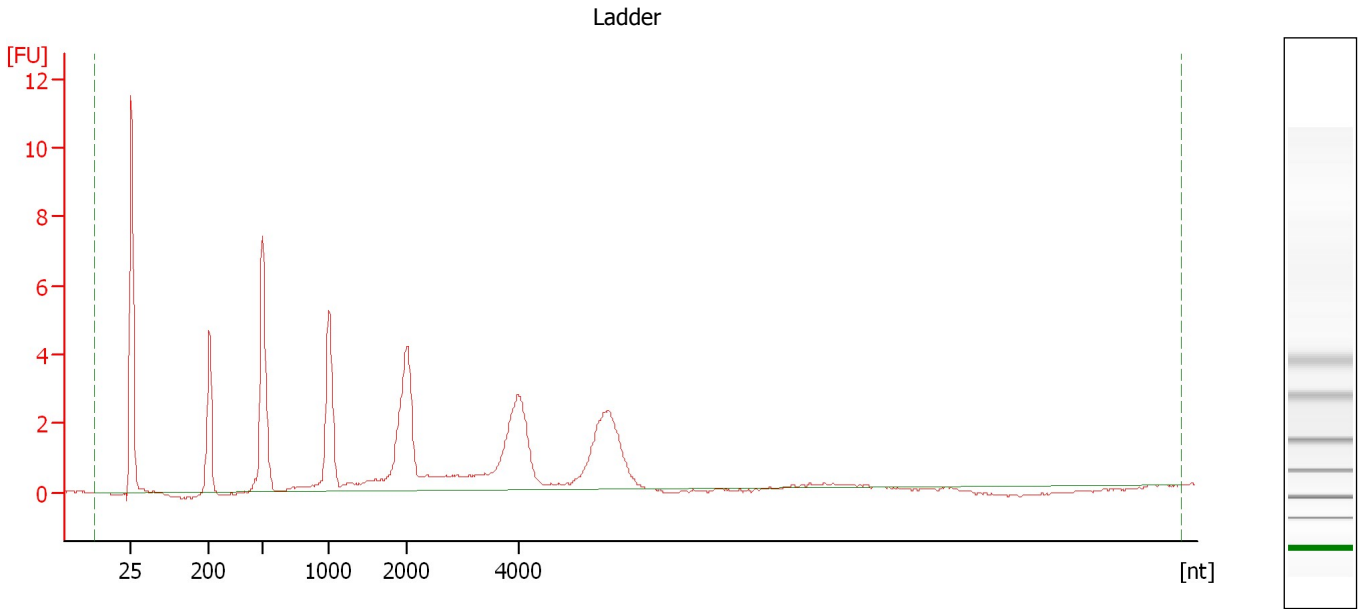
Ladder

| 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\2017-08-28\2017-08-28_003.xad

Created: 8/28/2017 10:56:01 AM
Modified: 8/28/2017 11:21:08 AM

Electropherogram Summary



Overall Results for Ladder

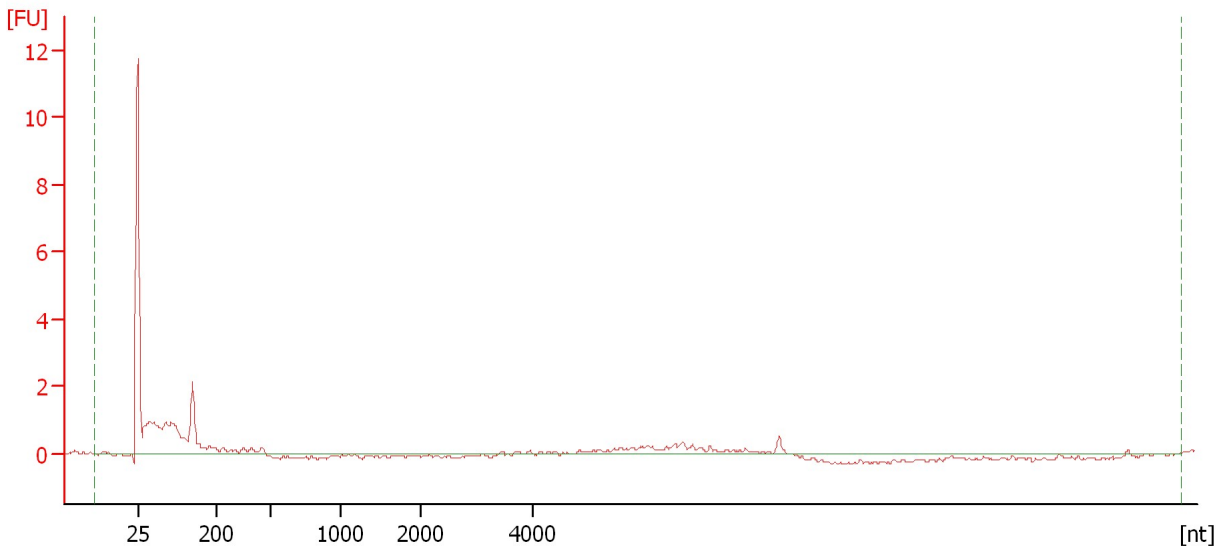
RNA Area: 67.7 RNA Concentration: 1,000 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-28\2017-08-28_003.xad

Created: 8/28/2017 10:56:01 AM
Modified: 8/28/2017 11:21:08 AM

Electropherogram Summary Continued ...

WT A + nal 1



Overall Results for sample 1 : WT A + nal 1

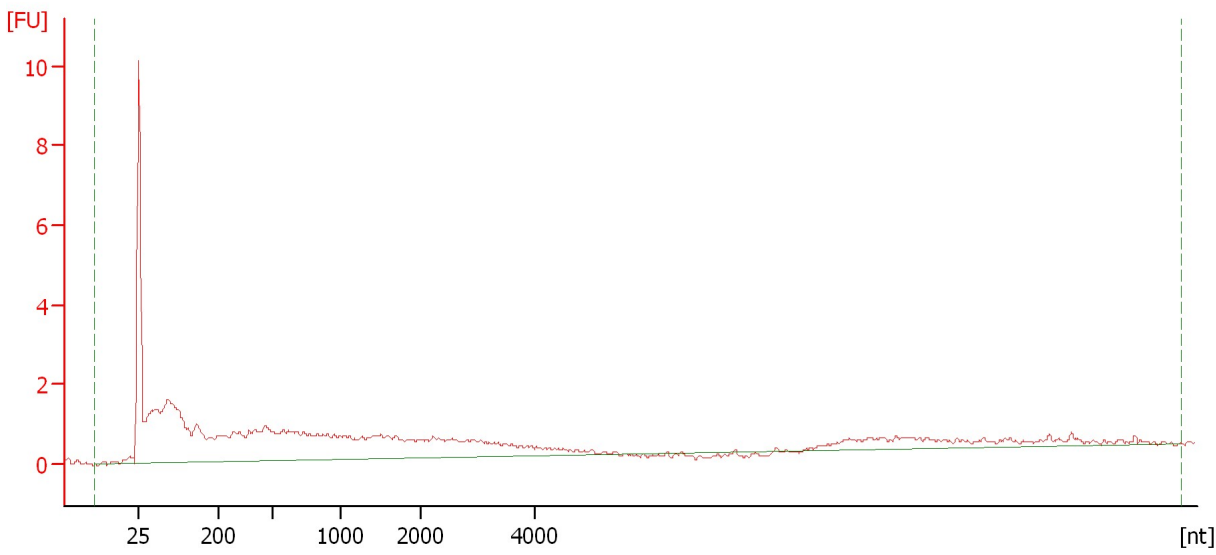
RNA Area: 21.5 rRNA Contamination: 0.0 %
RNA Concentration: 317 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-28\2017-08-28_003.xad

Created: 8/28/2017 10:56:01 AM
Modified: 8/28/2017 11:21:08 AM

Electropherogram Summary Continued ...

WT A + nal 3



Overall Results for sample 2 : WT A + nal 3

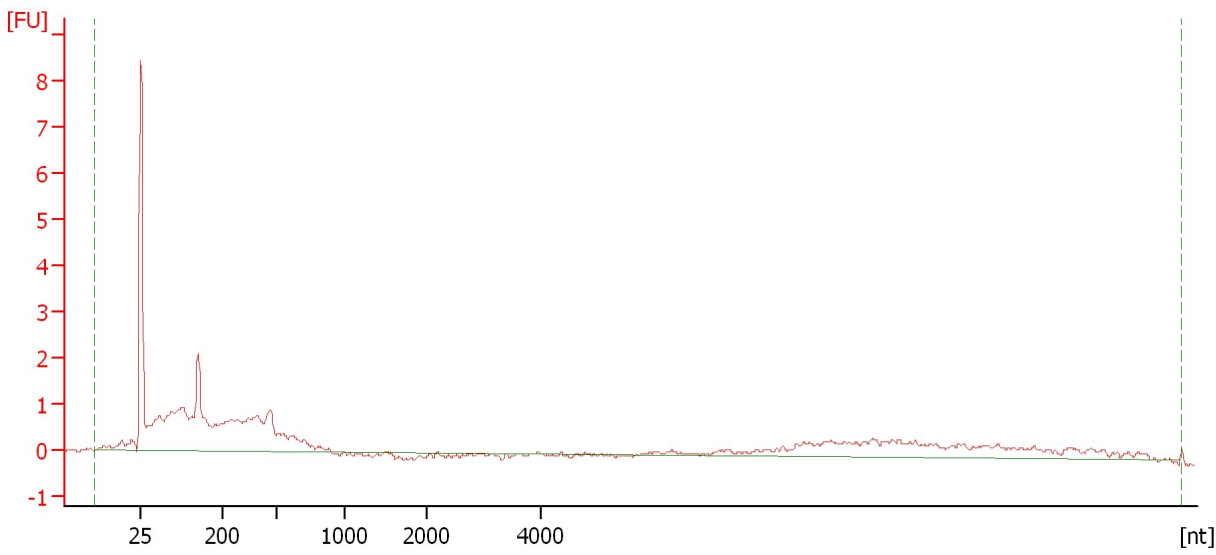
RNA Area: 61.1 rRNA Contamination: 0.0 %
RNA Concentration: 903 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-28\2017-08-28_003.xad

Created: 8/28/2017 10:56:01 AM
Modified: 8/28/2017 11:21:08 AM

Electropherogram Summary Continued ...

WT A + nal 6



Overall Results for sample 3 : WT A + nal 6

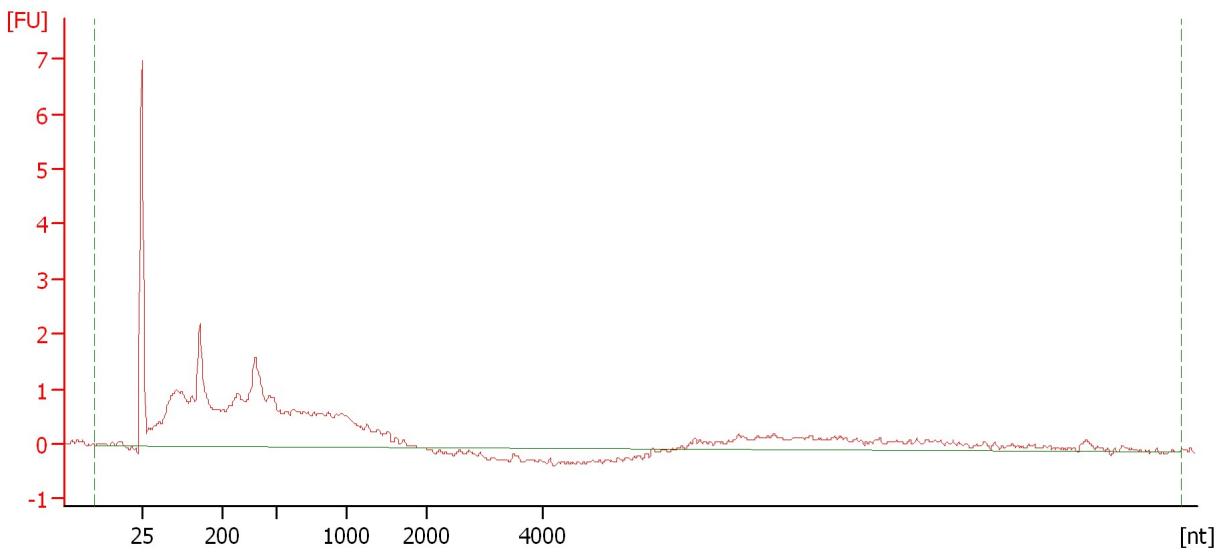
RNA Area: 40.0 rRNA Contamination: 0.0 %
RNA Concentration: 592 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-28\2017-08-28_003.xad

Created: 8/28/2017 10:56:01 AM
Modified: 8/28/2017 11:21:08 AM

Electropherogram Summary Continued ...

WT B + nal 0



Overall Results for sample 4 : WT B + nal 0

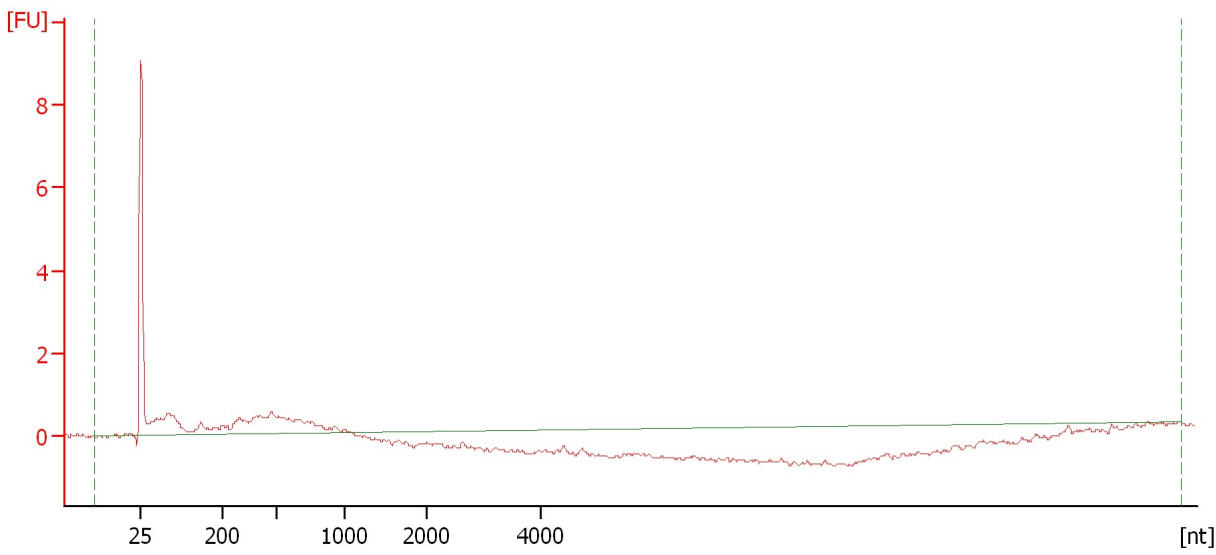
RNA Area: 48.1 rRNA Contamination: 0.0 %
RNA Concentration: 712 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-28\2017-08-28_003.xad

Created: 8/28/2017 10:56:01 AM
Modified: 8/28/2017 11:21:08 AM

Electropherogram Summary Continued ...

WT B + nal 1



Overall Results for sample 5 : WT B + nal 1

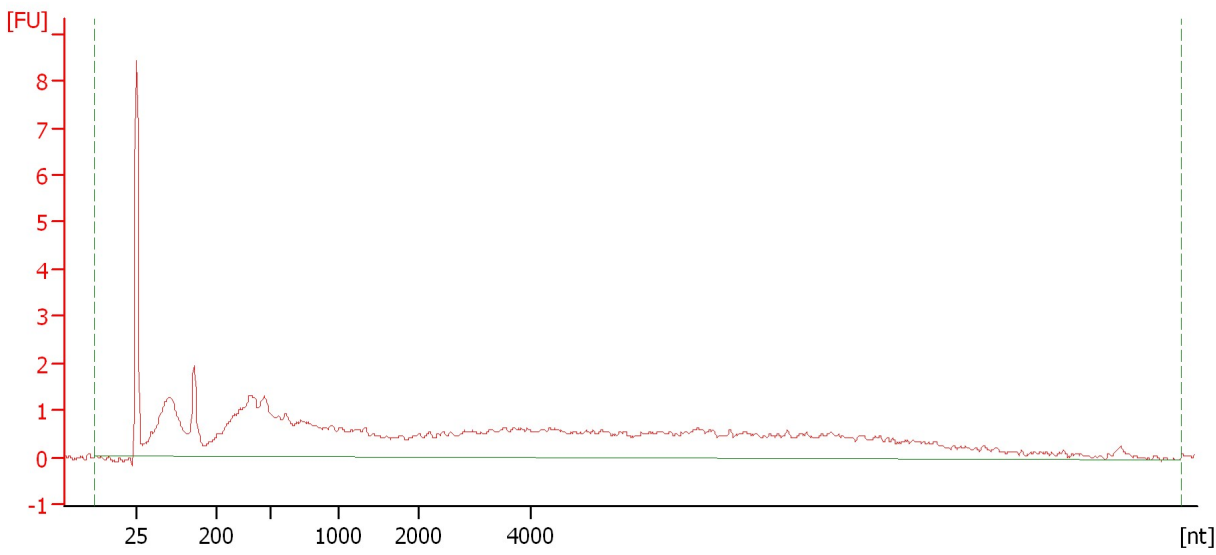
RNA Area: 14.3 rRNA Contamination: 0.0 %
RNA Concentration: 211 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-28\2017-08-28_003.xad

Created: 8/28/2017 10:56:01 AM
Modified: 8/28/2017 11:21:08 AM

Electropherogram Summary Continued ...

WT B + nal 3



Overall Results for sample 6 : WT B + nal 3

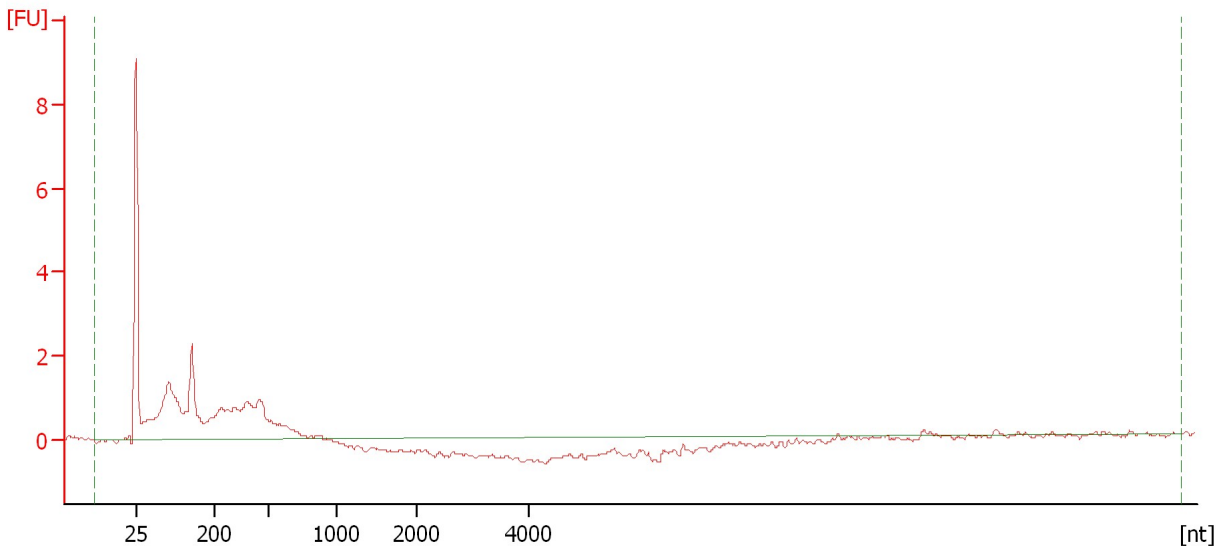
RNA Area: 80.6 rRNA Contamination: 0.0 %
RNA Concentration: 1,191 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-28\2017-08-28_003.xad

Created: 8/28/2017 10:56:01 AM
Modified: 8/28/2017 11:21:08 AM

Electropherogram Summary Continued ...

WT B + nal 6



Overall Results for sample 7 : WT B + nal 6

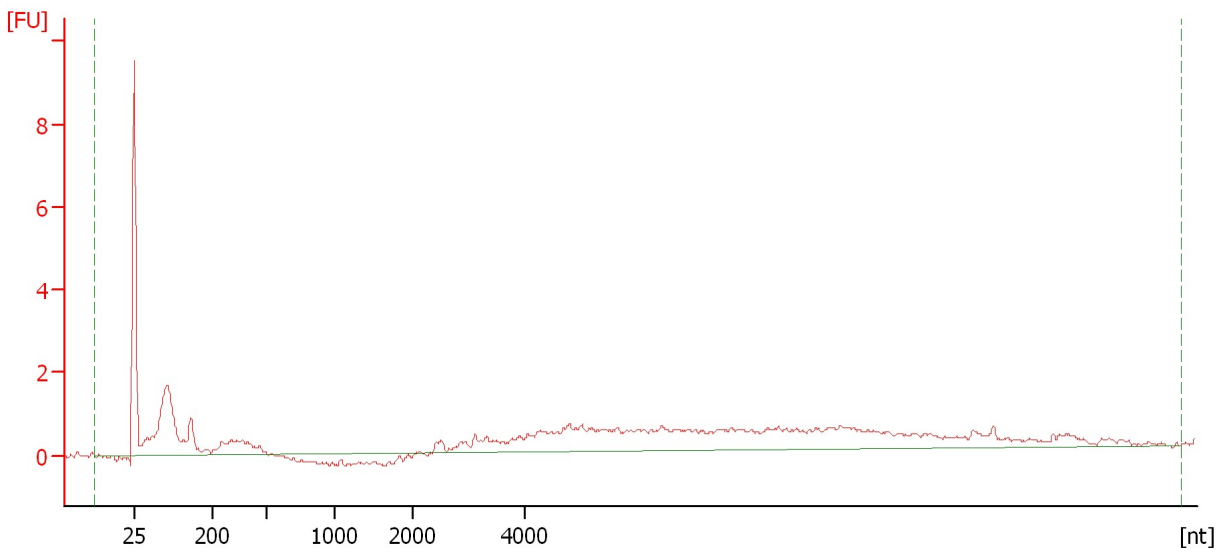
RNA Area: 29.2 rRNA Contamination: 0.0 %
RNA Concentration: 432 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-28\2017-08-28_003.xad

Created: 8/28/2017 10:56:01 AM
Modified: 8/28/2017 11:21:08 AM

Electropherogram Summary Continued ...

WT B + nal 9



Overall Results for sample 8 : WT B + nal 9

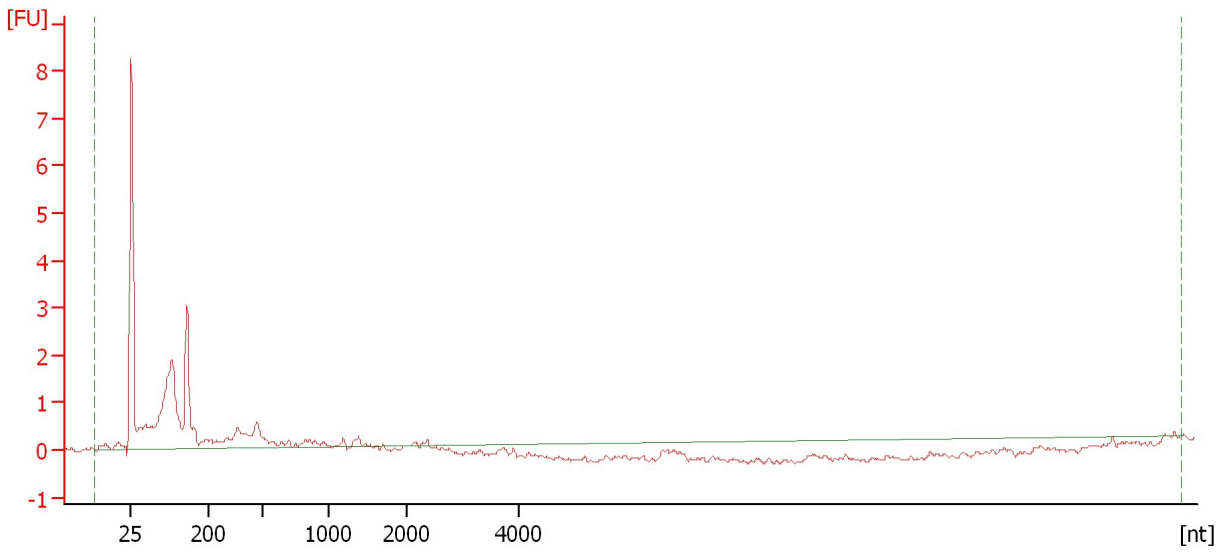
RNA Area: 44.4 rRNA Contamination: 0.0 %
RNA Concentration: 657 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-28\2017-08-28_003.xad

Created: 8/28/2017 10:56:01 AM
Modified: 8/28/2017 11:21:08 AM

Electropherogram Summary Continued ...

WT B + nal 12



Overall Results for sample 9 : WT B + nal 12

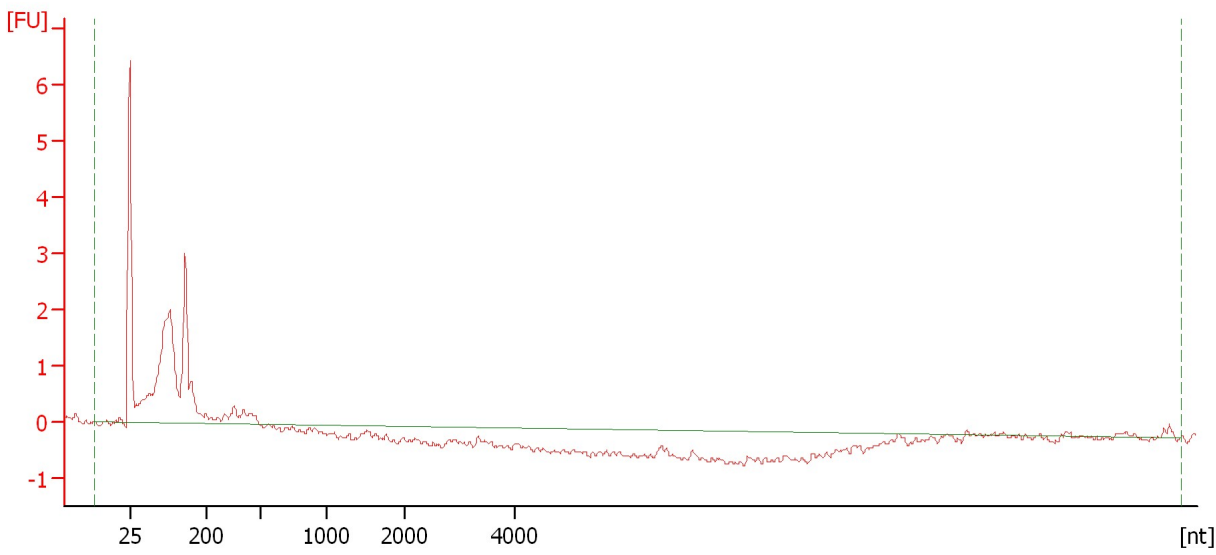
RNA Area: 22.5 rRNA Contamination: 0.0 %
RNA Concentration: 332 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-28\2017-08-28_003.xad

Created: 8/28/2017 10:56:01 AM
Modified: 8/28/2017 11:21:08 AM

Electropherogram Summary Continued ...

WT B + nal 18



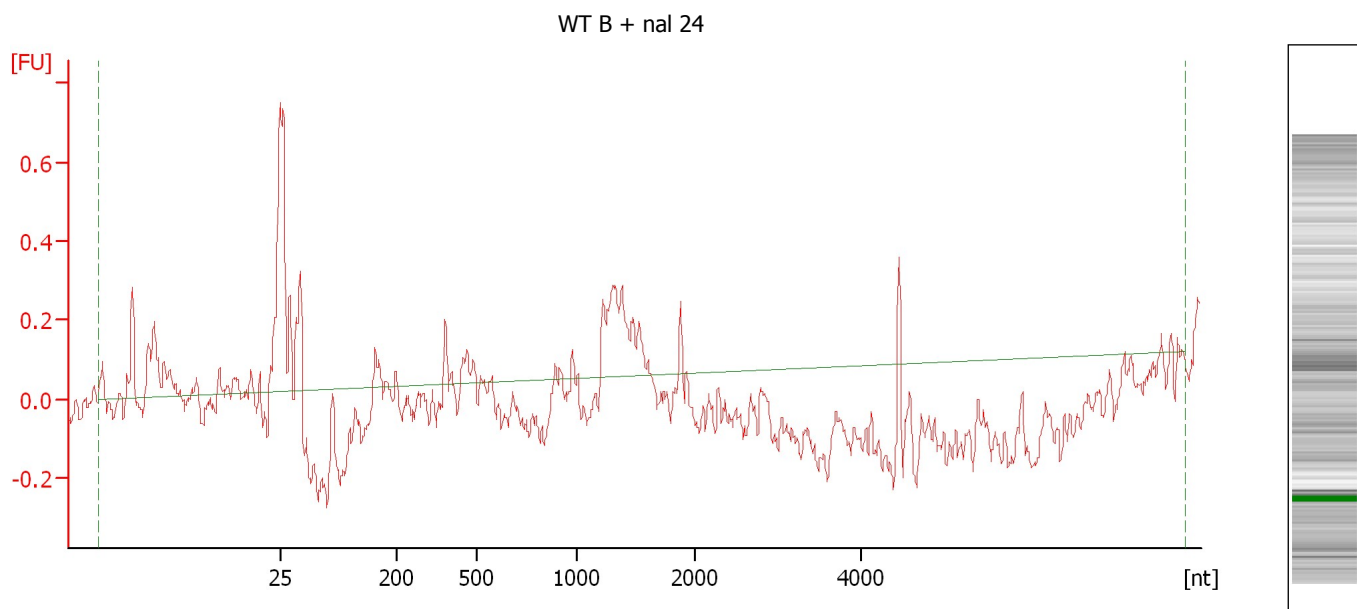
Overall Results for sample 10 : WT B + nal 18

RNA Area: 21.7 rRNA Contamination: 0.0 %
RNA Concentration: 321 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-28\2017-08-28_003.xad

Created: 8/28/2017 10:56:01 AM
Modified: 8/28/2017 11:21:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : WT B + nal 24

RNA Area: 3.5 rRNA Contamination: 0.0 %
RNA Concentration: 52 pg/ μ l

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-28\2017-08-28_003.xad

Created: 8/28/2017 10:56:01 AM
Modified: 8/28/2017 11:21:08 AM

Gel Image

