

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-25\2016-05-25\_004.xad

Created: 5/25/2016 1:59:02 PM  
Modified: 5/25/2016 2:20:36 PM

**Electrophoresis File Run Summary**

Instrument Information:

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

Assay Information:

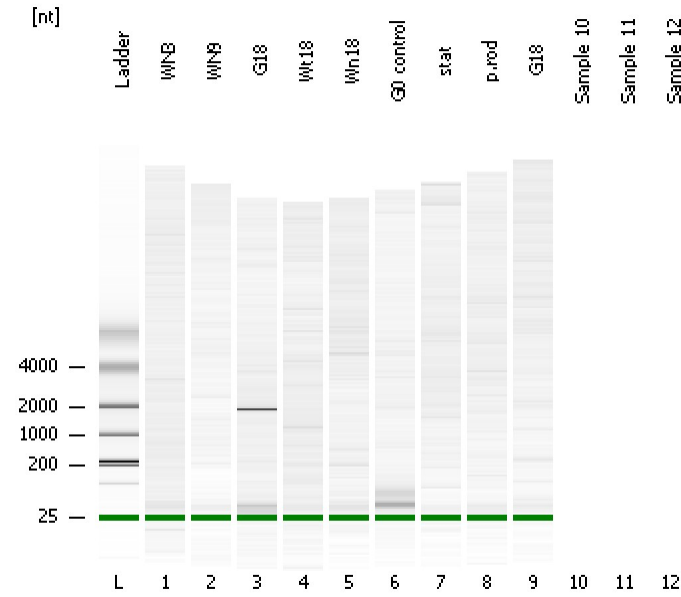
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\mRNA Nano Series II.xsy

Assay Class: mRNA Nano  
Version: 2.5  
Assay Comments: mRNA Analysis ng sensitivity

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Chip Information:

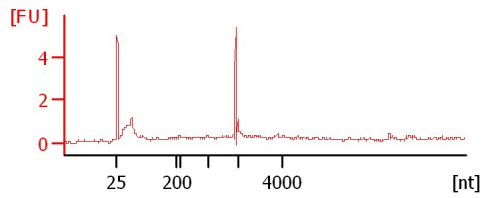
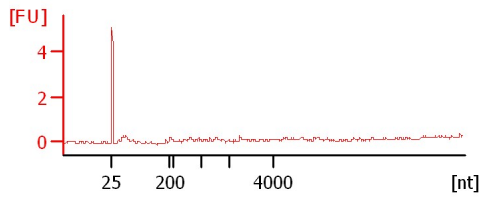
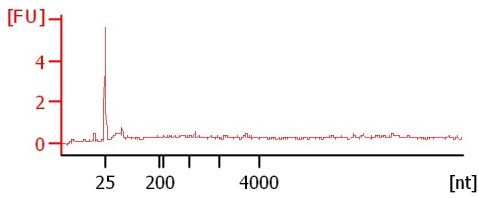
Chip Lot #:   
Reagent Kit Lot #:   
Chip Comments:



**WN3**

**WN9**

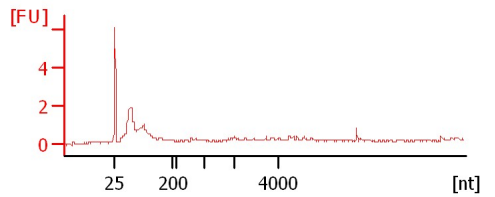
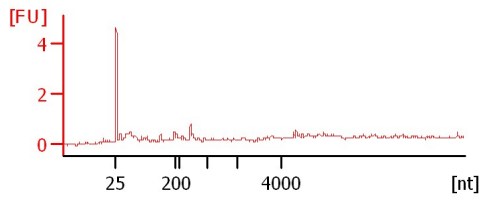
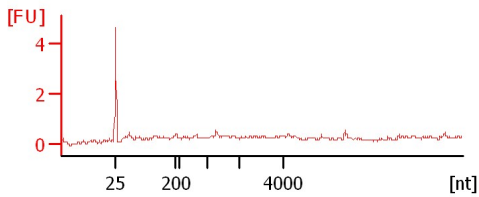
**G18**



**Wt18**

**Wn18**

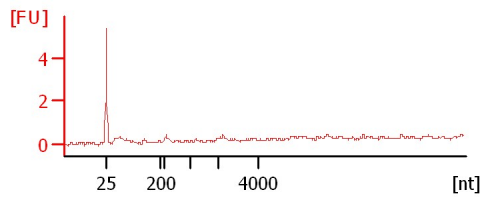
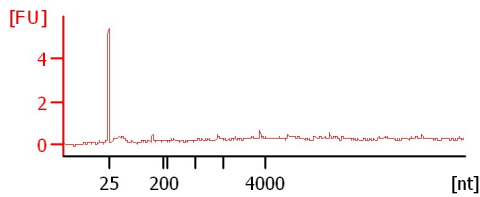
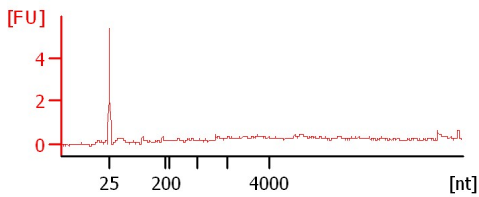
**G0 control**



**stat**

**p.rod**

**G18**



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

Sample Name	Sample Comment	Status	Result Label	Result Color
WN3		✓		
WN9		✓		
G18		✓		
Wt18		✓		
Wn18		✓		
G0 control		✓		
stat		✓		
p.rod		✓		
G18		✓		
Sample 10				
Sample 11				
Sample 12				
Ladder		✓		

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

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## Electrophoresis Assay Details

### General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 13  
Minimum Visible Range [s] : 14  
Maximum Visible Range [s] : 85  
Start Analysis Time Range [s] : 15  
End Analysis Time Range [s] : 84  
Ladder Concentration [ng/ $\mu$ l] : 150  
Lower Marker Concentration [ng/ $\mu$ l] : 0  
Upper Marker Concentration [ng/ $\mu$ 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

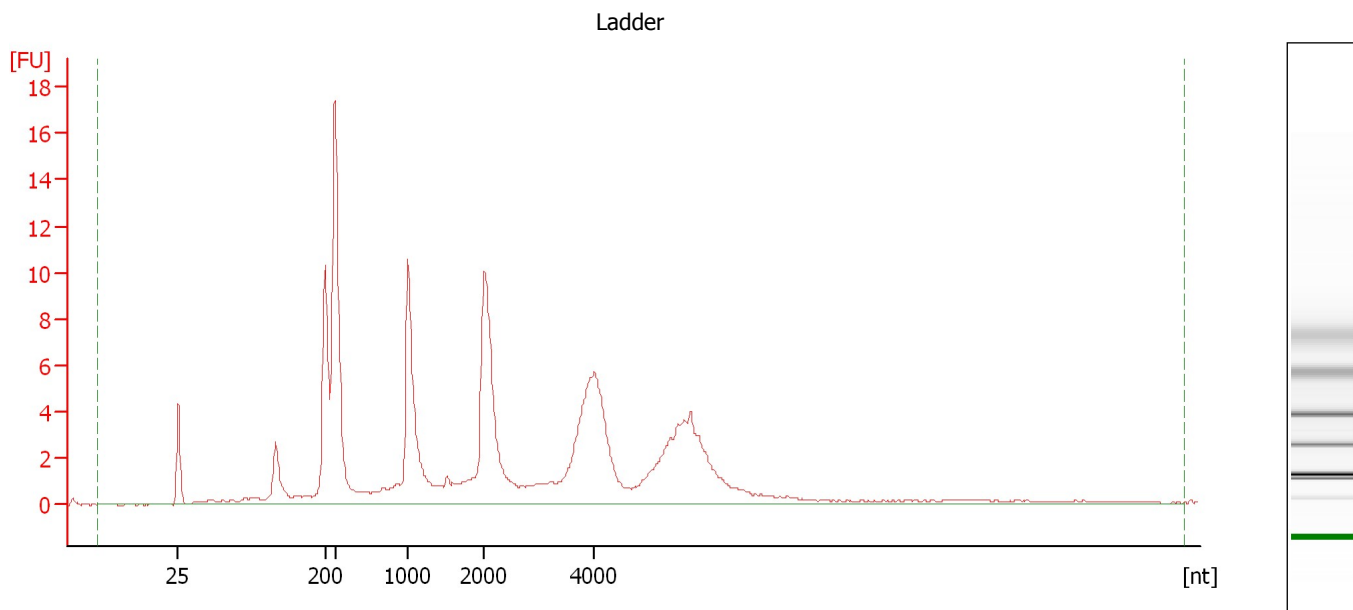
### Ladder

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

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**Electropherogram Summary**



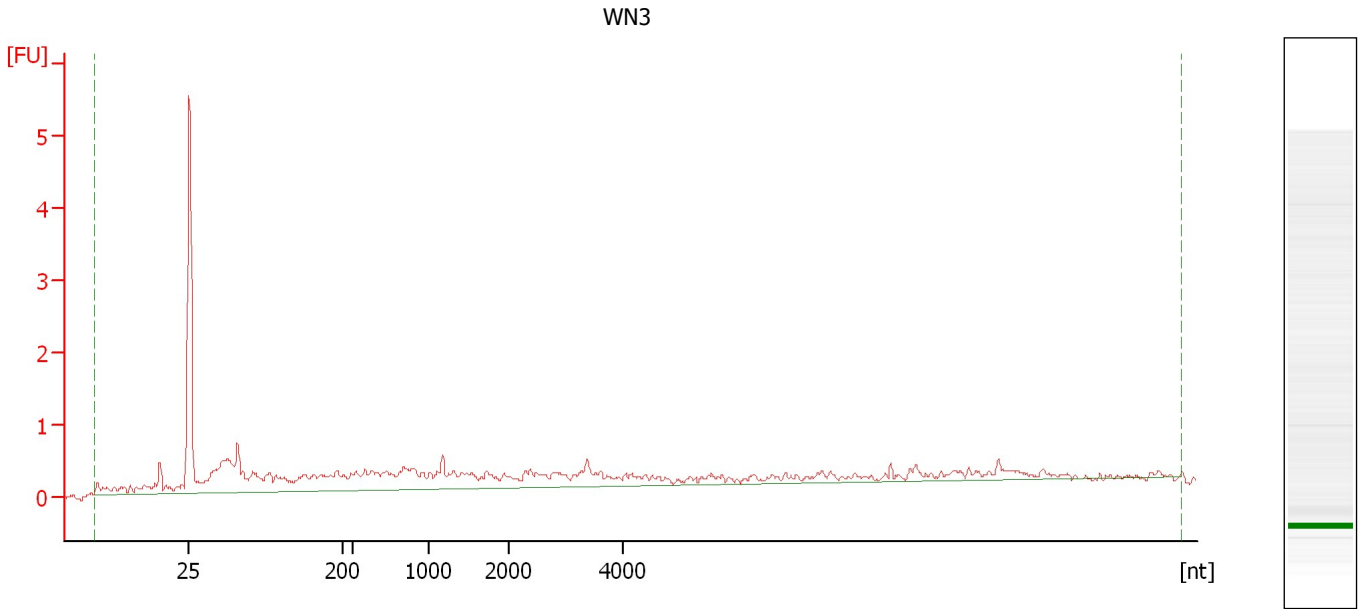
**Overall Results for Ladder**

RNA Area: 168.6                      RNA Concentration: 150 ng/μl

Assay Class: mRNA Nano  
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**Electropherogram Summary Continued ...**



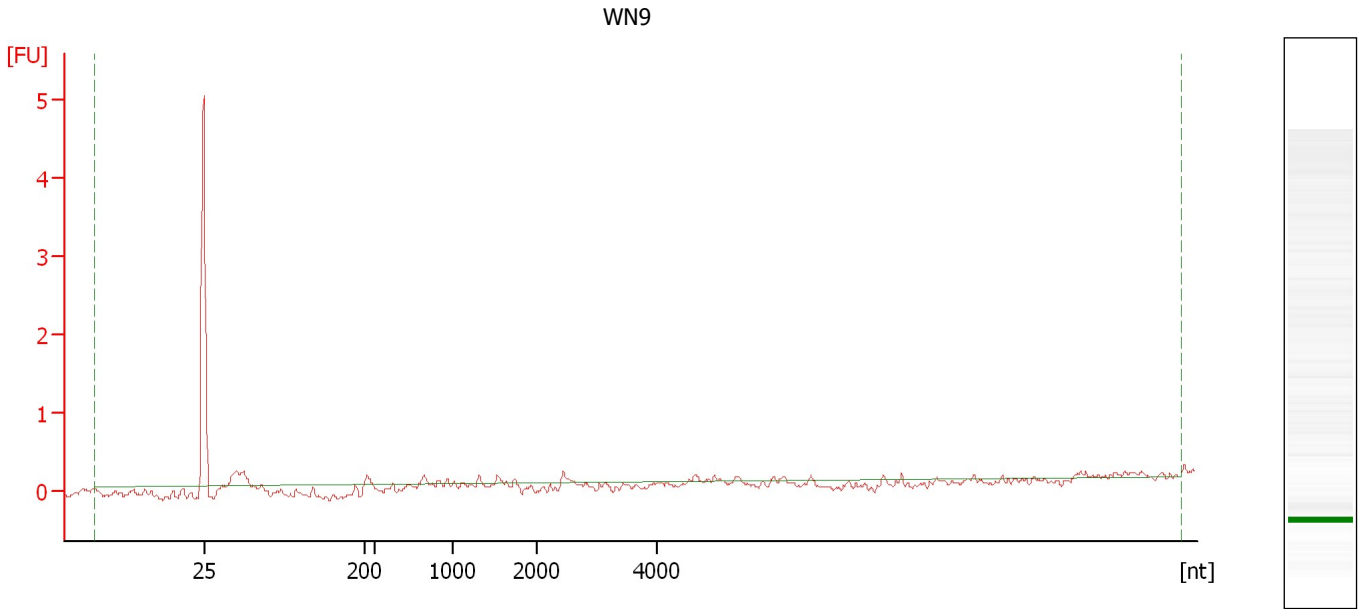
**Overall Results for sample 1 : WN3**

RNA Area:	24.7	rRNA Contamination:	0.0 %
RNA Concentration:	22 ng/μl		

Assay Class: mRNA Nano  
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**Electropherogram Summary Continued ...**



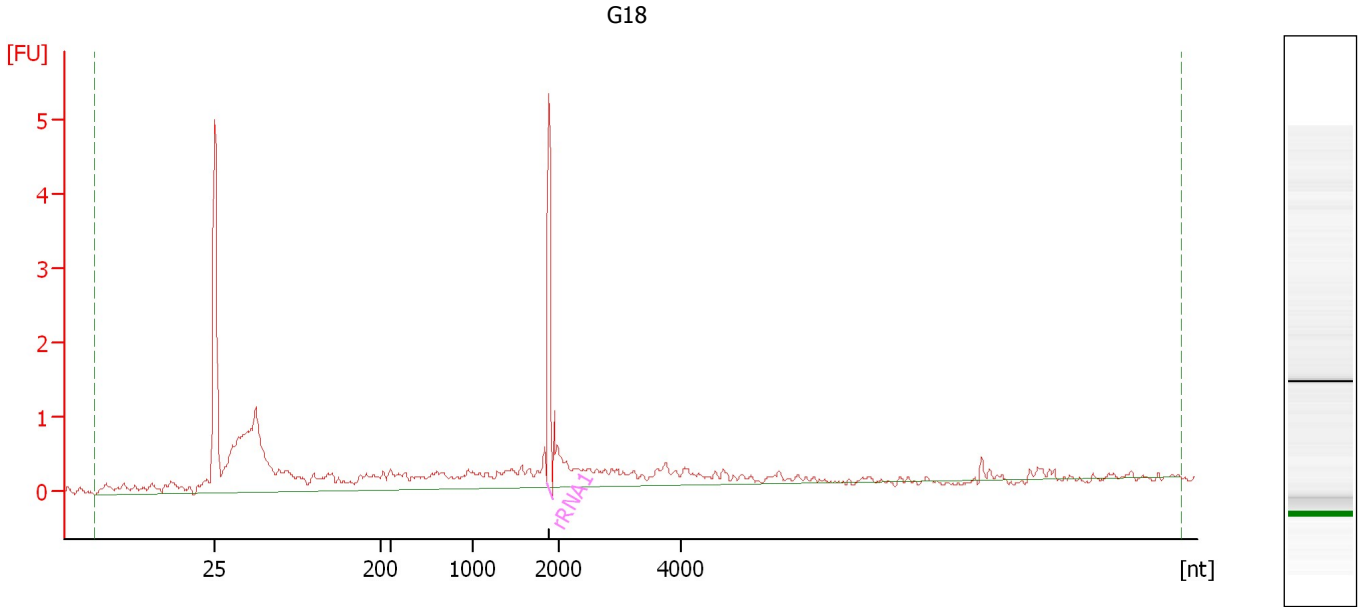
**Overall Results for sample 2 : WN9**

RNA Area:	1.8	rRNA Contamination:	0.0 %
RNA Concentration:	2 ng/μl		

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-25\2016-05-25\_004.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : G18**

RNA Area: 29.5                      rRNA Contamination: 8.8 %  
RNA Concentration: 26 ng/μl

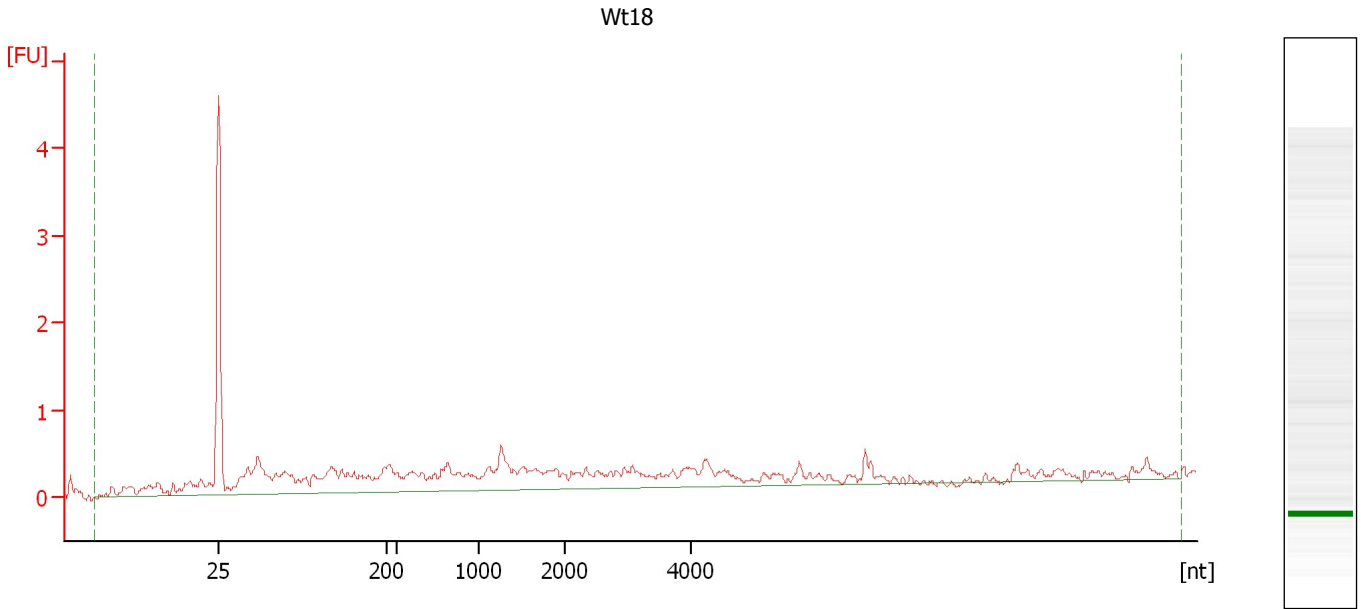
**Fragment table for sample 3 : G18**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,863	1,937	2.6	8.8

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-25\2016-05-25\_004.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Wt18**

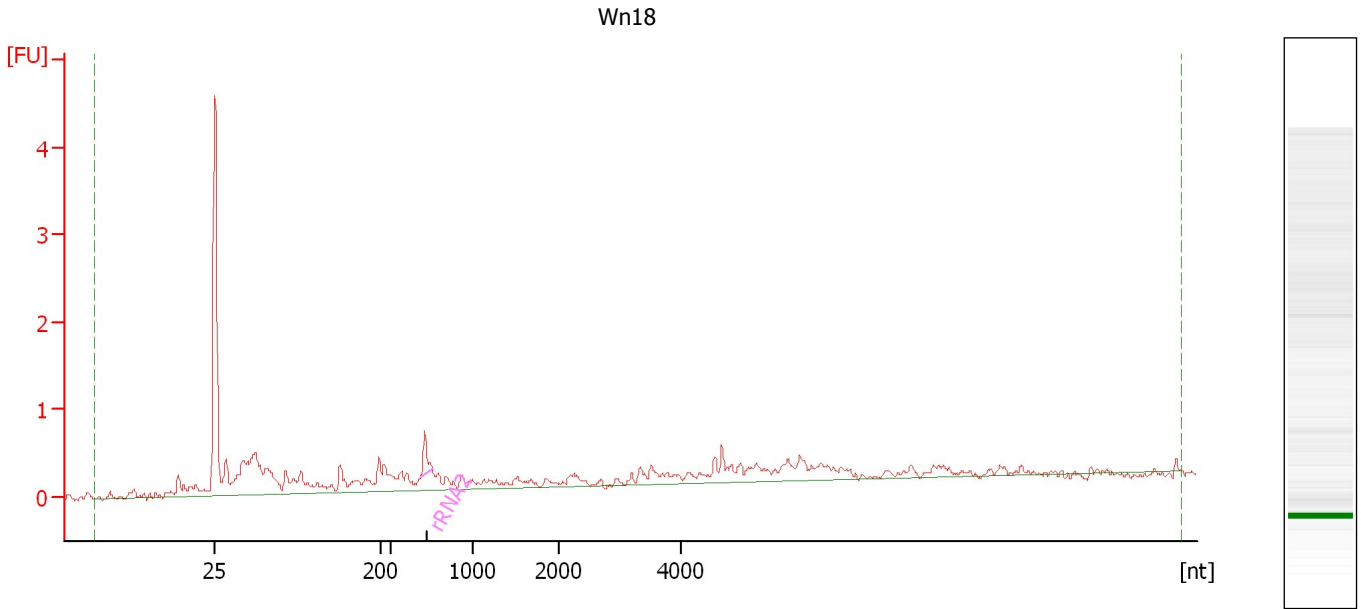
RNA Area:	22.1	rRNA Contamination:	0.0 %
RNA Concentration:	20 ng/μl		



Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-25\2016-05-25\_004.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : Wn18**

RNA Area: 16.5                      rRNA Contamination: 2.3 %  
RNA Concentration: 15 ng/μl

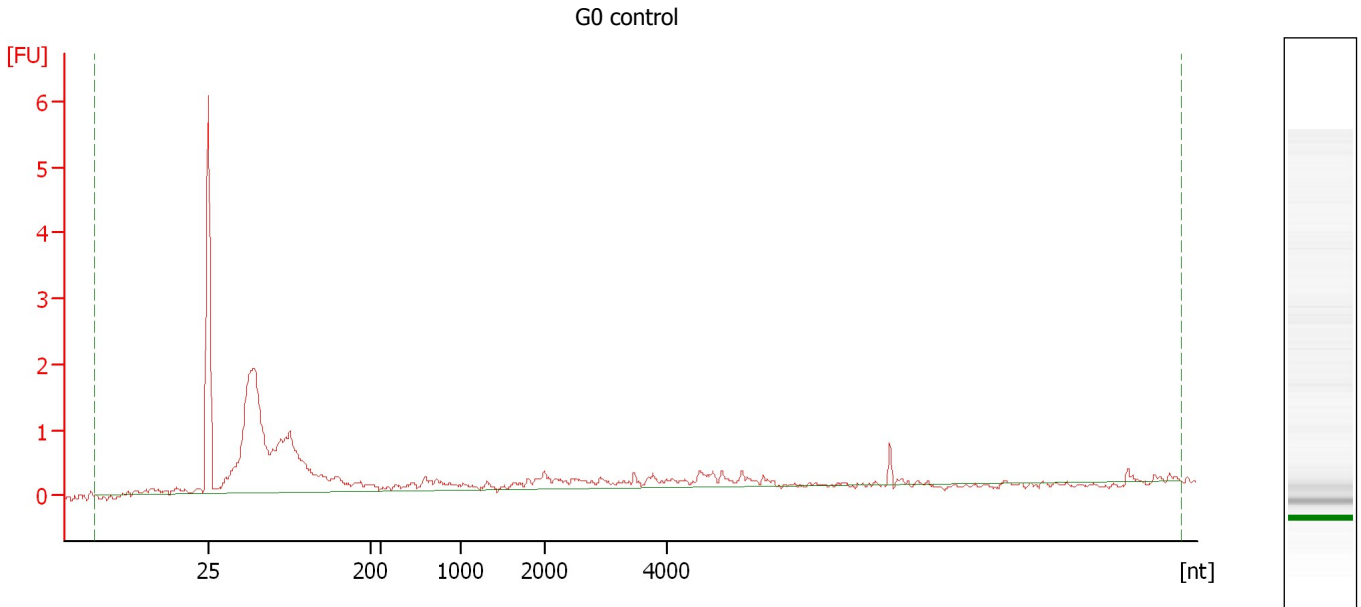
**Fragment table for sample 5 : Wn18**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	689	758	0.4	2.3

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-25\2016-05-25\_004.xad

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**Electropherogram Summary Continued ...**



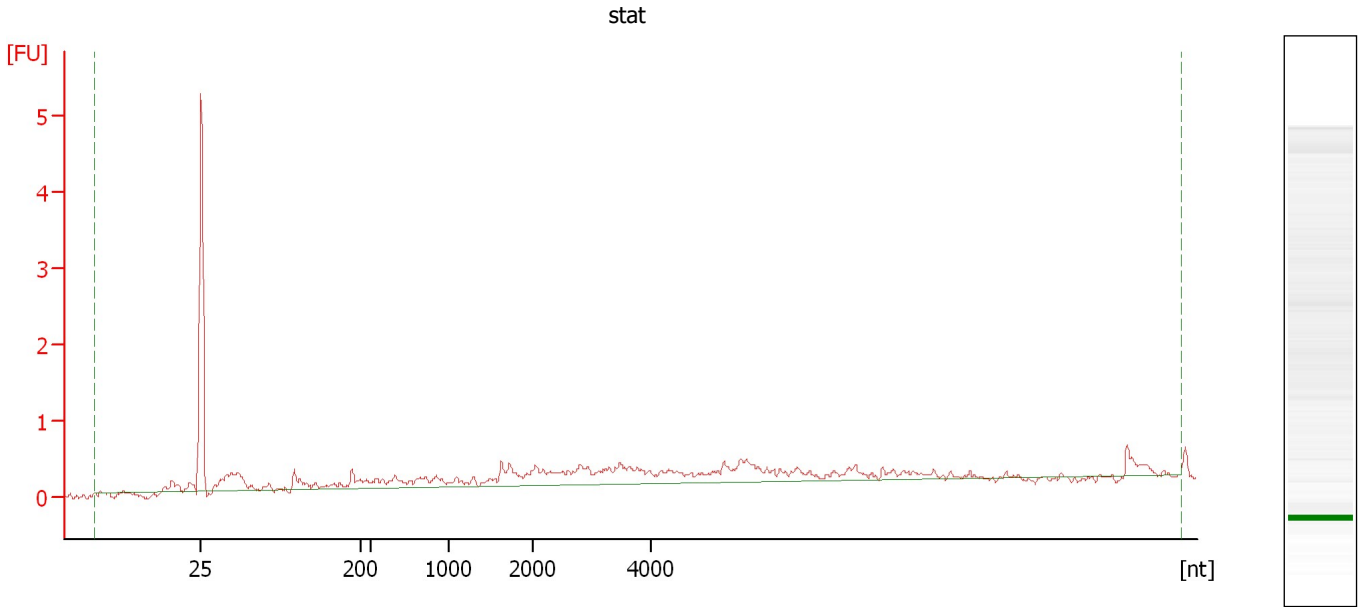
**Overall Results for sample 6 : G0 control**

RNA Area:	26.8	rRNA Contamination:	0.0 %
RNA Concentration:	24 ng/μl		

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-25\2016-05-25\_004.xad

Created: 5/25/2016 1:59:02 PM  
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**Electropherogram Summary Continued ...**



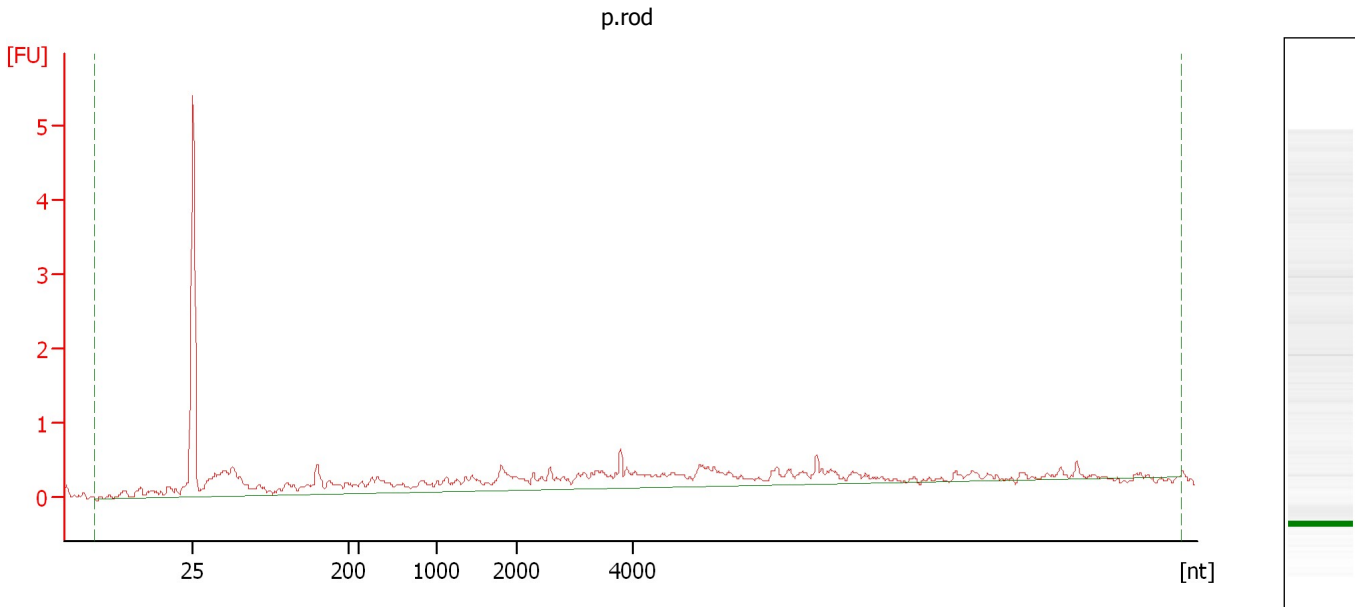
**Overall Results for sample 7 : stat**

RNA Area:	13.2	rRNA Contamination:	0.0 %
RNA Concentration:	12 ng/μl		

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-25\2016-05-25\_004.xad

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**Electropherogram Summary Continued ...**



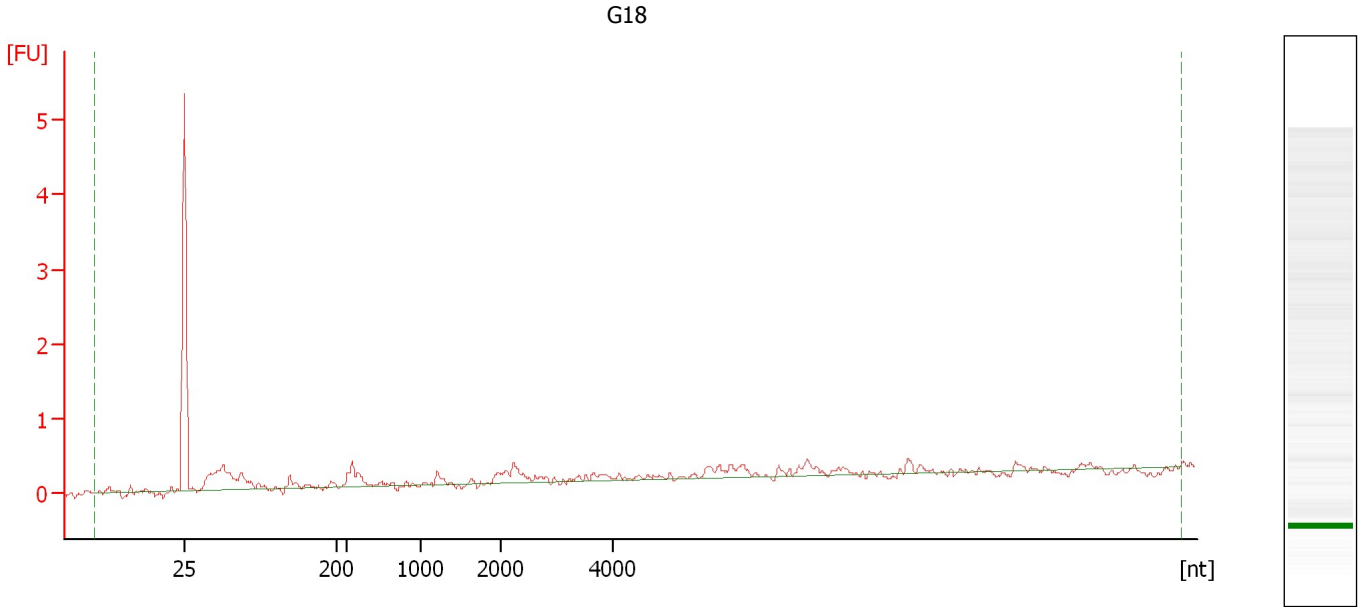
**Overall Results for sample 8 : p.rod**

RNA Area:	20.3	rRNA Contamination:	0.0 %
RNA Concentration:	18 ng/μl		

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-25\2016-05-25\_004.xad

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**Electropherogram Summary Continued ...**



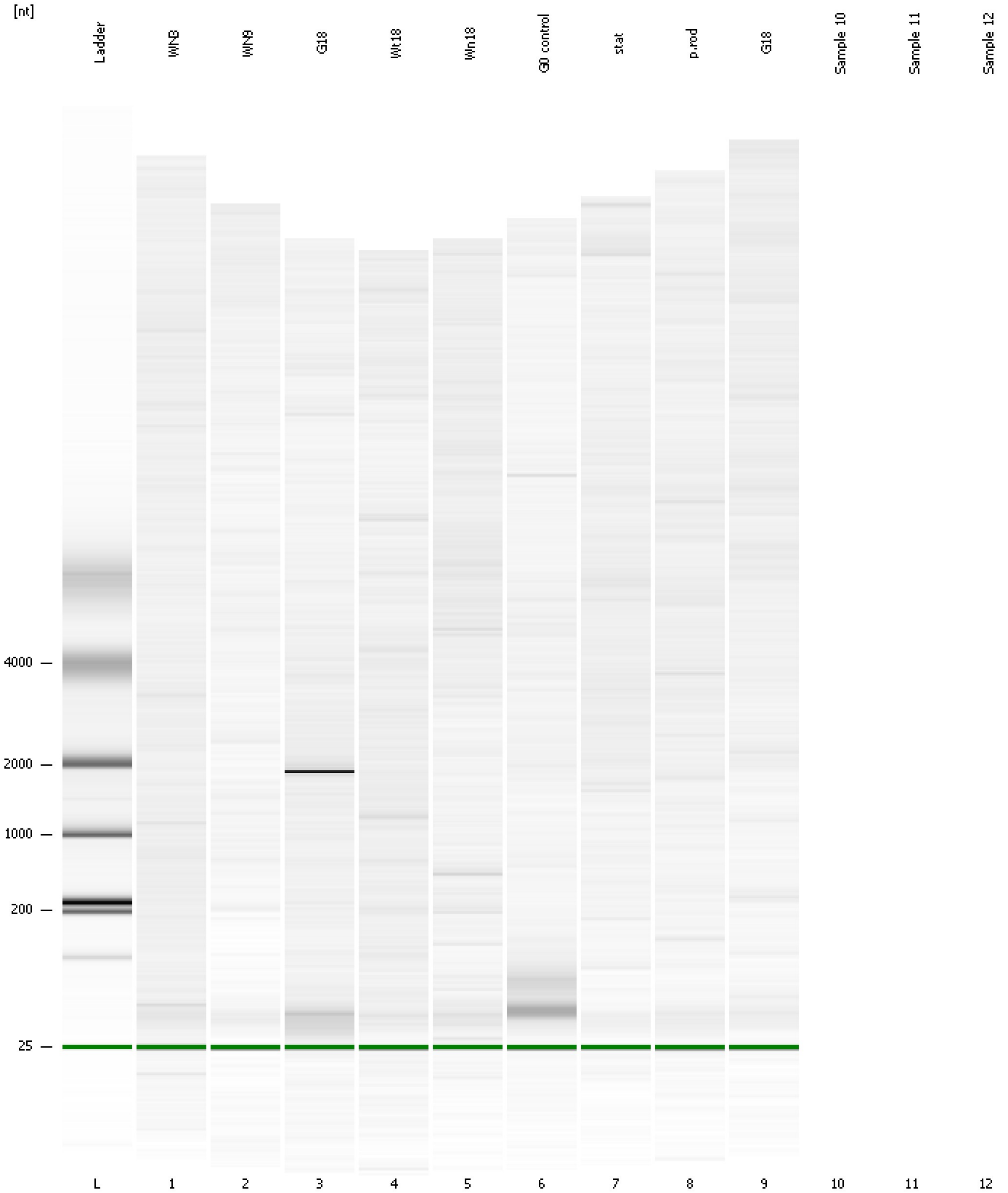
**Overall Results for sample 9 : G18**

RNA Area:	7.8	rRNA Contamination:	0.0 %
RNA Concentration:	7 ng/μl		

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-25\2016-05-25\_004.xad

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**Gel Image**



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**Invalid Samples**

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Sample 12 has not been run, no results available.

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**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 10)		Instrument	Run		5/25/2016 2:20:33 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-05-25\2016-05-25_004.xad)		Instrument	Run		5/25/2016 1:59:03 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		5/25/2016 1:59:03 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/25/2016 1:59:03 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/25/2016 1:59:03 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		5/25/2016 1:59:03 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/25/2016 1:59:03 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/25/2016 1:59:03 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1