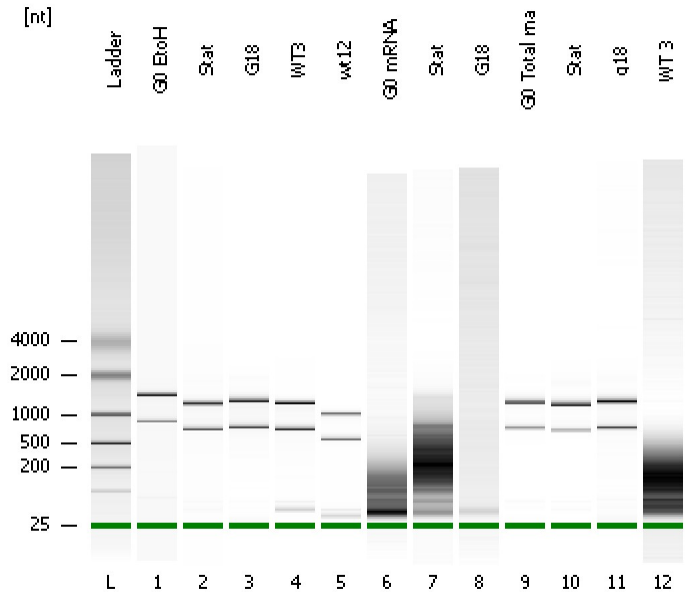


Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-16\2016-06-16\_002.xad

Created: 6/16/2016 2:47:25 PM  
Modified: 6/16/2016 3:16:27 PM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

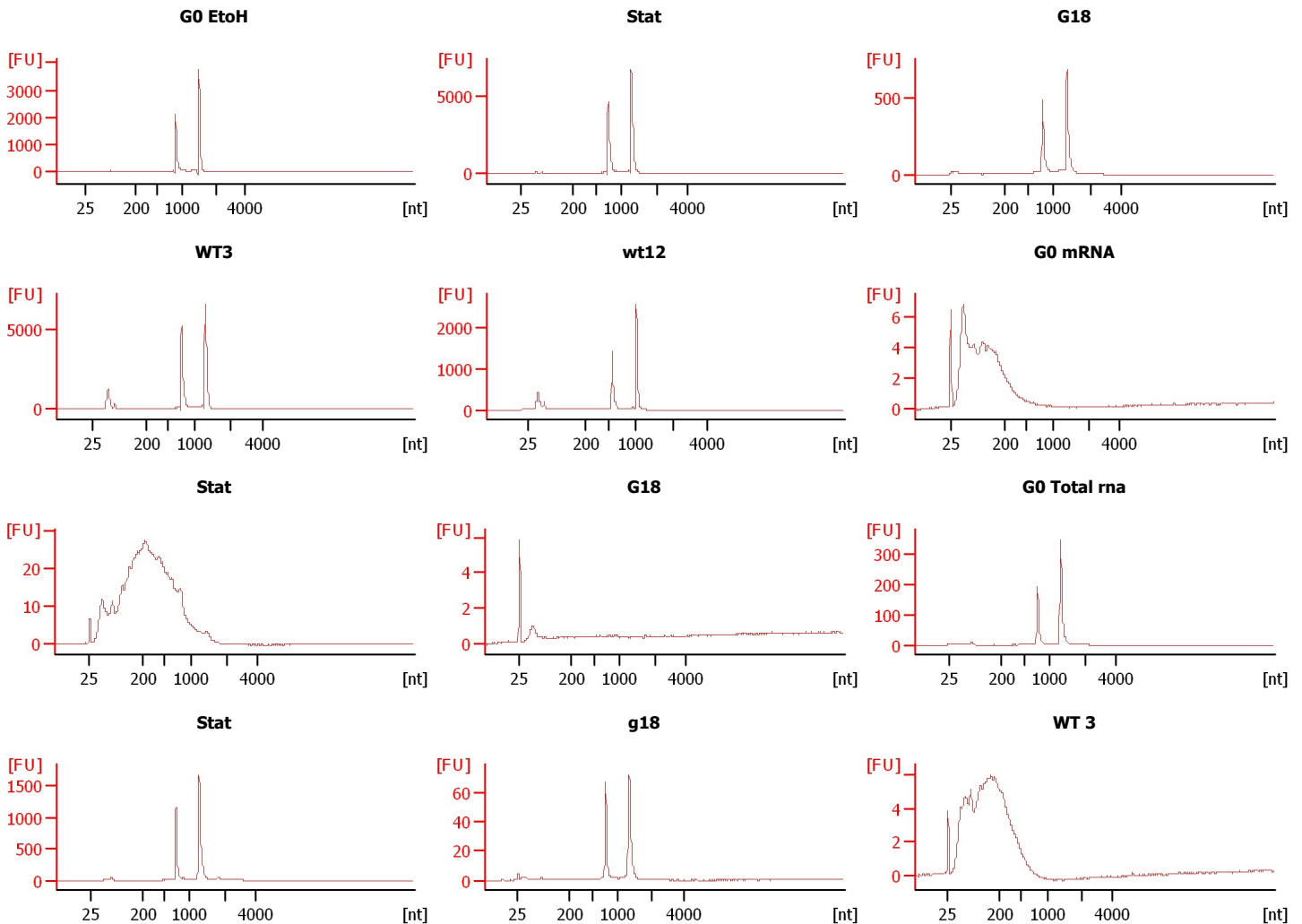
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\mRNA Nano Series II.xsy

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

© Copyright 2003 - 2009 Agilent Technologies, Inc.

Chip Information:

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



Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-16\2016-06-16\_002.xad

Created: 6/16/2016 2:47:25 PM  
Modified: 6/16/2016 3:16:27 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
G0 EtoH		✓		
Stat		✓		
G18		✓		
WT3		✓		
wt12		✓		
G0 mRNA		✓		
Stat		✓		
G18		✓		
G0 Total rna		✓		
Stat		✓		
g18		✓		
WT 3		✓		
Ladder		✓		

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-16\2016-06-16\_002.xad

Created: 6/16/2016 2:47:25 PM  
Modified: 6/16/2016 3:16:27 PM

**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/μl] : 150  
Lower Marker Concentration [ng/μl] : 0  
Upper Marker Concentration [ng/μl] : 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

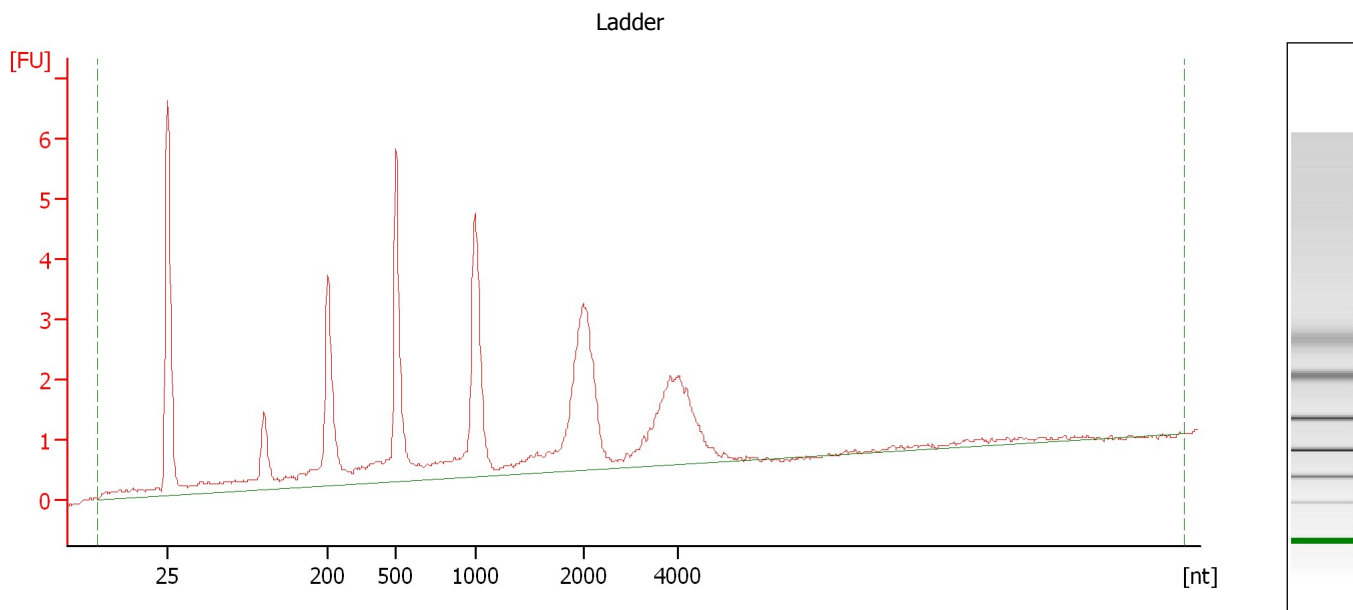
**Ladder**

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

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-16\2016-06-16\_002.xad

Created: 6/16/2016 2:47:25 PM  
Modified: 6/16/2016 3:16:27 PM

**Electropherogram Summary**



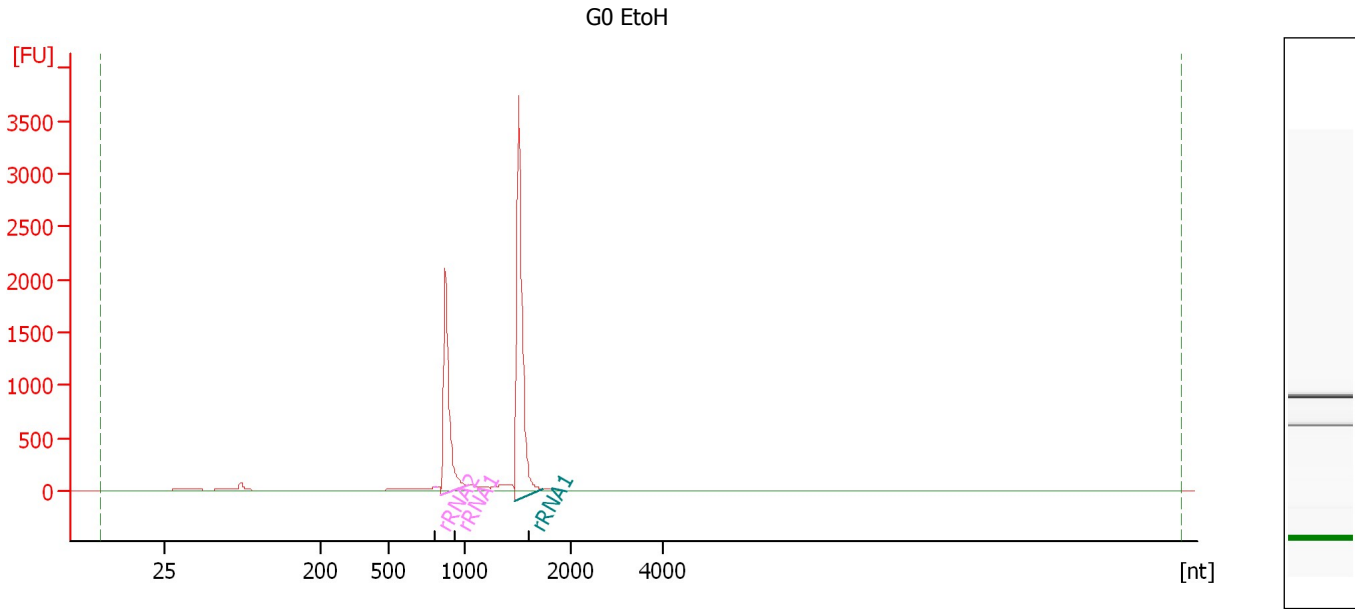
**Overall Results for Ladder**

RNA Area: 56.1                      RNA Concentration: 150 ng/μl

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-16\2016-06-16\_002.xad

Created: 6/16/2016 2:47:25 PM  
Modified: 6/16/2016 3:16:27 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : G0 EtoH**

RNA Area: 6,784.8                      rRNA Contamination: 87.8 %  
RNA Concentration: 18,147 ng/µl

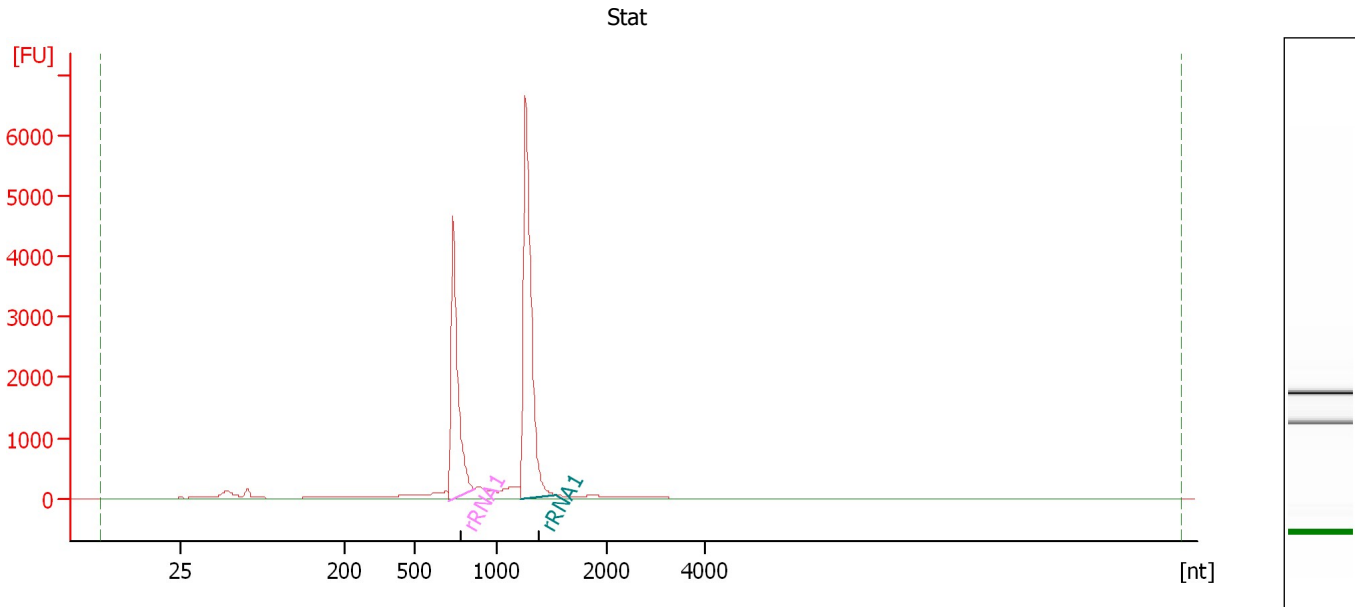
**Fragment table for sample 1 : G0 EtoH**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	807	818	0.0	0.0
rRNA1	849	1,034	2,218.7	32.7
rRNA1	1,468	1,737	3,739.6	55.1

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-16\2016-06-16\_002.xad

Created: 6/16/2016 2:47:25 PM  
Modified: 6/16/2016 3:16:27 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Stat**

RNA Area: 17,926.7                      rRNA Contamination: 79.7 %  
RNA Concentration: 47,948 ng/μl

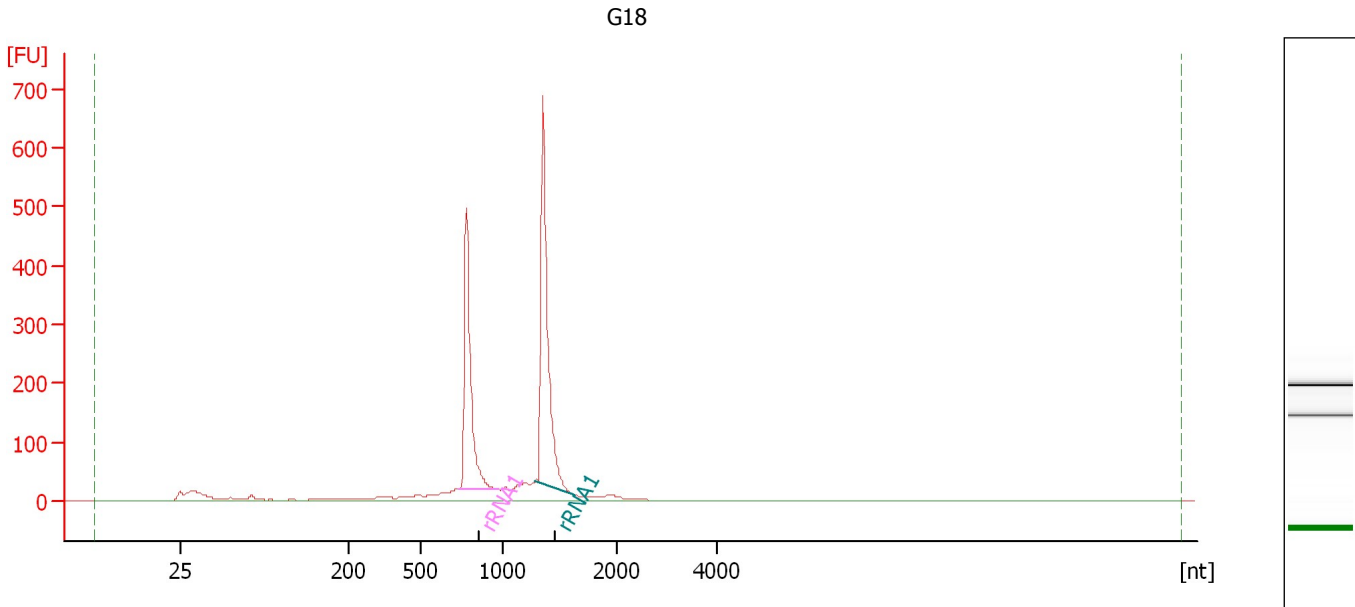
**Fragment table for sample 2 : Stat**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	709	866	5,737.5	32.0
rRNA1	1,225	1,546	8,544.5	47.7

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-16\2016-06-16\_002.xad

Created: 6/16/2016 2:47:25 PM  
Modified: 6/16/2016 3:16:27 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : G18**

RNA Area: 2,091.9                      rRNA Contamination: 60.0 %  
RNA Concentration: 5,595 ng/μl

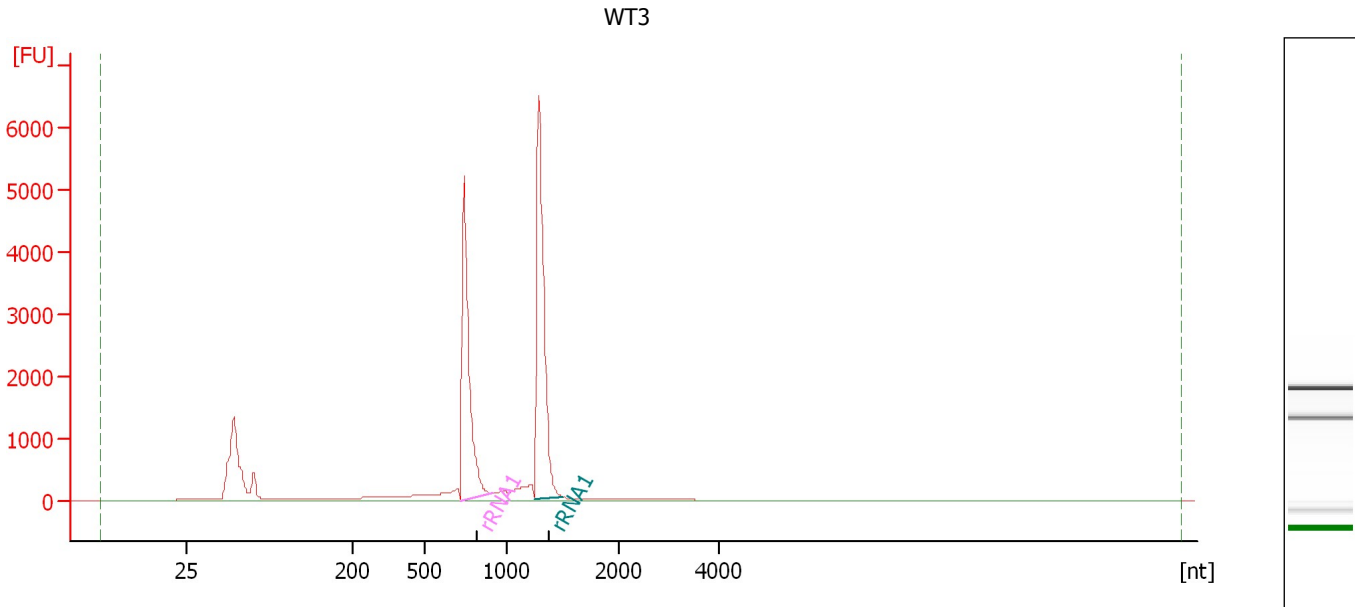
**Fragment table for sample 3 : G18**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	735	976	554.2	26.5
rRNA1	1,287	1,624	700.6	33.5

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-16\2016-06-16\_002.xad

Created: 6/16/2016 2:47:25 PM  
Modified: 6/16/2016 3:16:27 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : WT3**

RNA Area: 22,158.8                      rRNA Contamination: 64.1 %  
RNA Concentration: 59,267 ng/μl

**Fragment table for sample 4 : WT3**

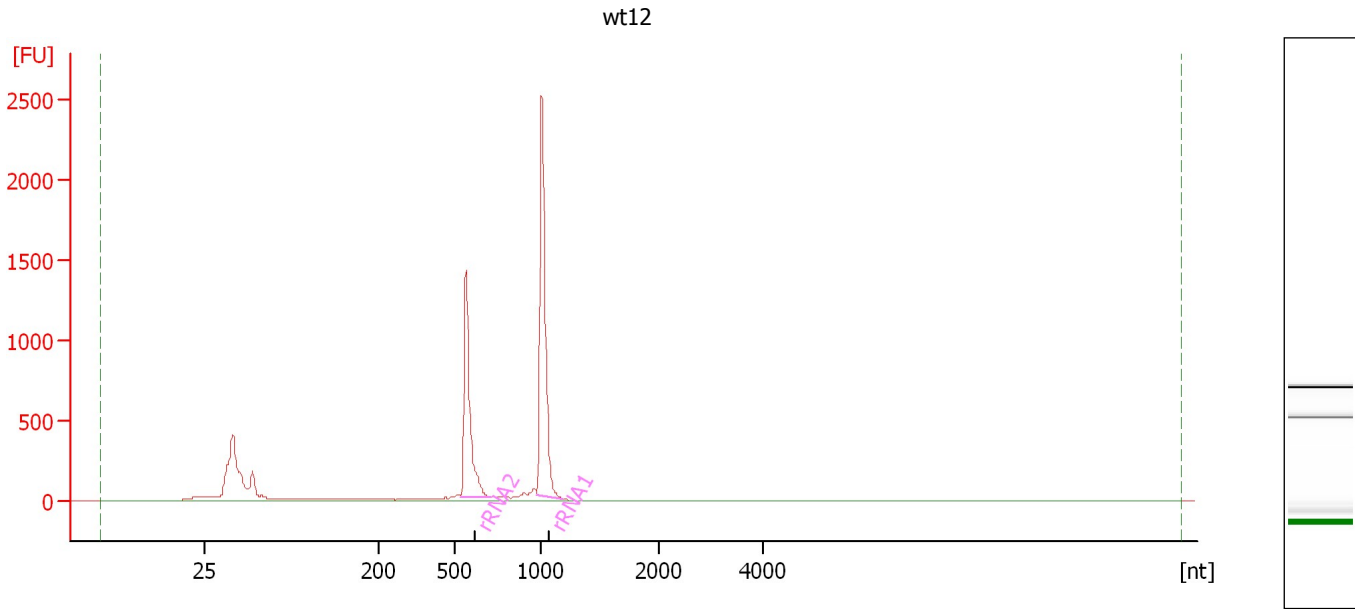
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	716	913	6,580.9	29.7
rRNA1	1,245	1,491	7,633.7	34.5



Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-16\2016-06-16\_002.xad

Created: 6/16/2016 2:47:25 PM  
Modified: 6/16/2016 3:16:27 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : wt12**

RNA Area: 6,565.2                      rRNA Contamination: 56.4 %  
RNA Concentration: 17,560 ng/μl

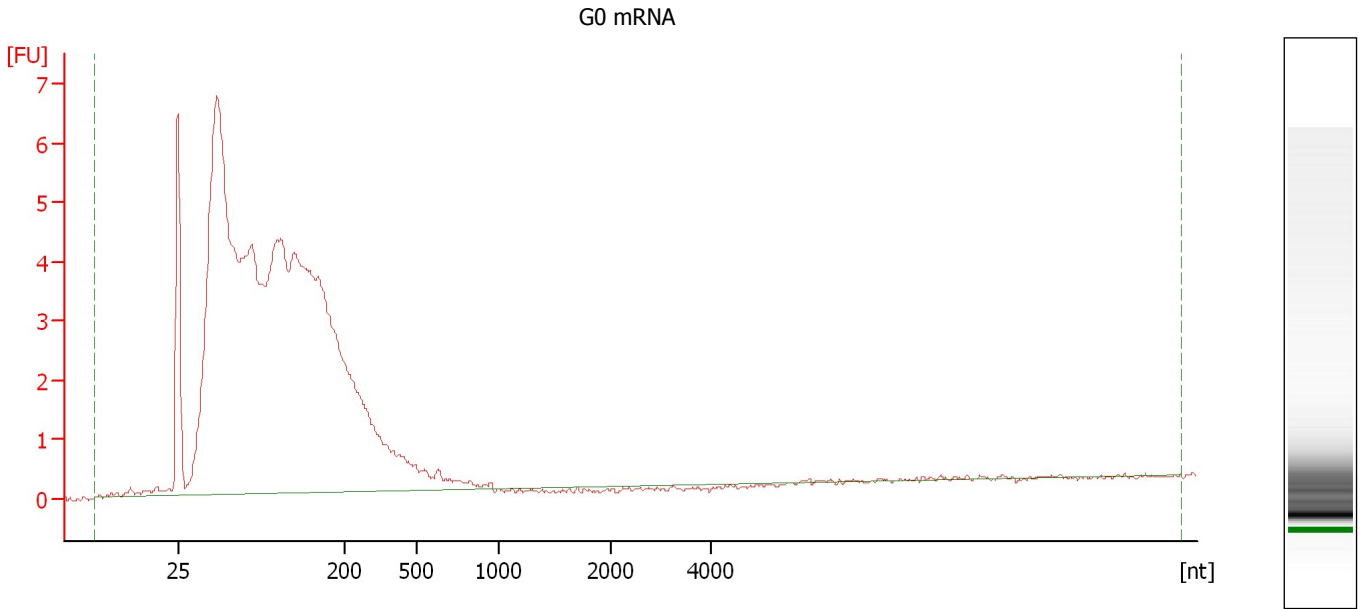
**Fragment table for sample 5 : wt12**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	543	708	1,491.3	22.7
rRNA1	982	1,188	2,210.4	33.7

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-16\2016-06-16\_002.xad

Created: 6/16/2016 2:47:25 PM  
Modified: 6/16/2016 3:16:27 PM

**Electropherogram Summary Continued ...**



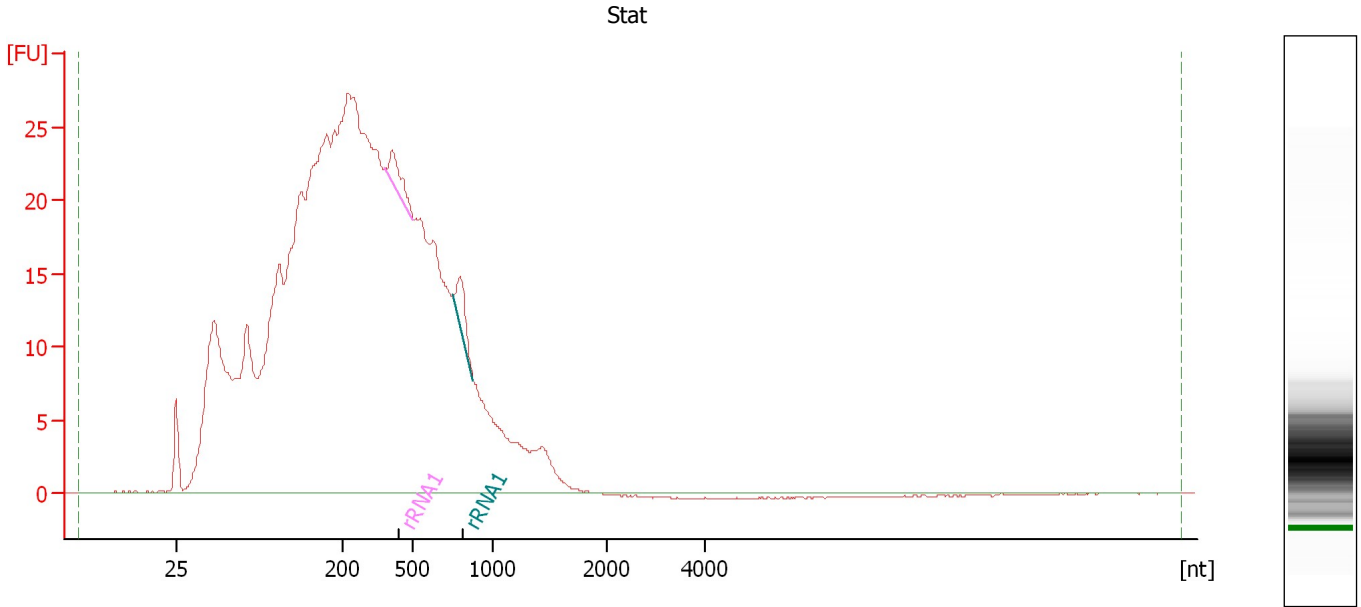
**Overall Results for sample 6 : G0 mRNA**

RNA Area:	155.4	rRNA Contamination:	0.0 %
RNA Concentration:	416 ng/μl		

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-16\2016-06-16\_002.xad

Created: 6/16/2016 2:47:25 PM  
Modified: 6/16/2016 3:16:27 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : Stat**

RNA Area: 989.2                      rRNA Contamination: 1.1 %  
RNA Concentration: 2,646 ng/μl

**Fragment table for sample 7 : Stat**

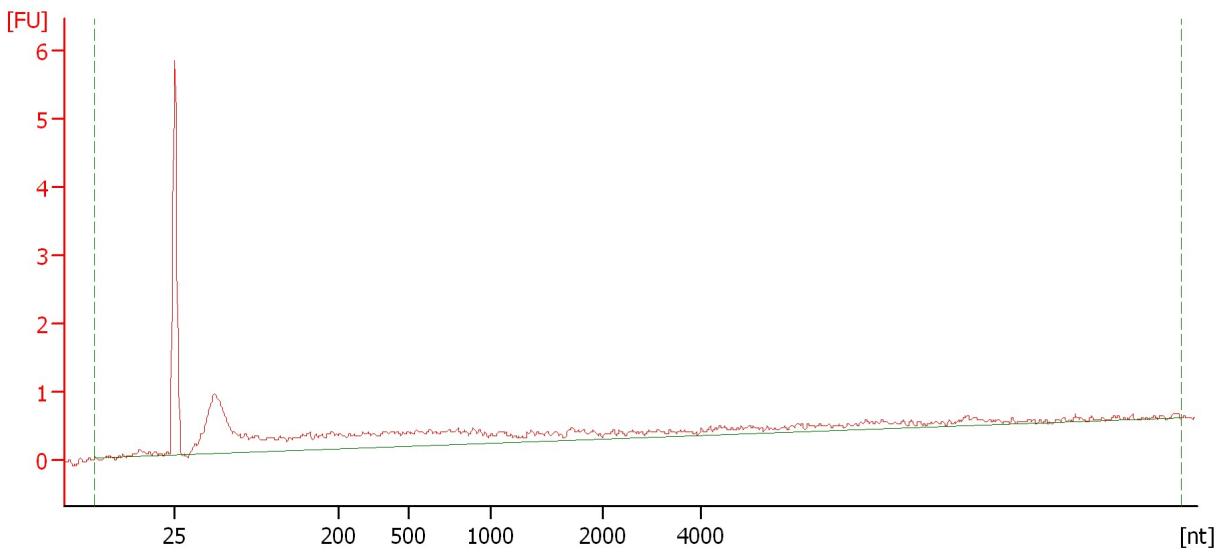
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	384	510	5.8	0.6
rRNA1	749	876	5.5	0.6

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-16\2016-06-16\_002.xad

Created: 6/16/2016 2:47:25 PM  
Modified: 6/16/2016 3:16:27 PM

**Electropherogram Summary Continued ...**

G18



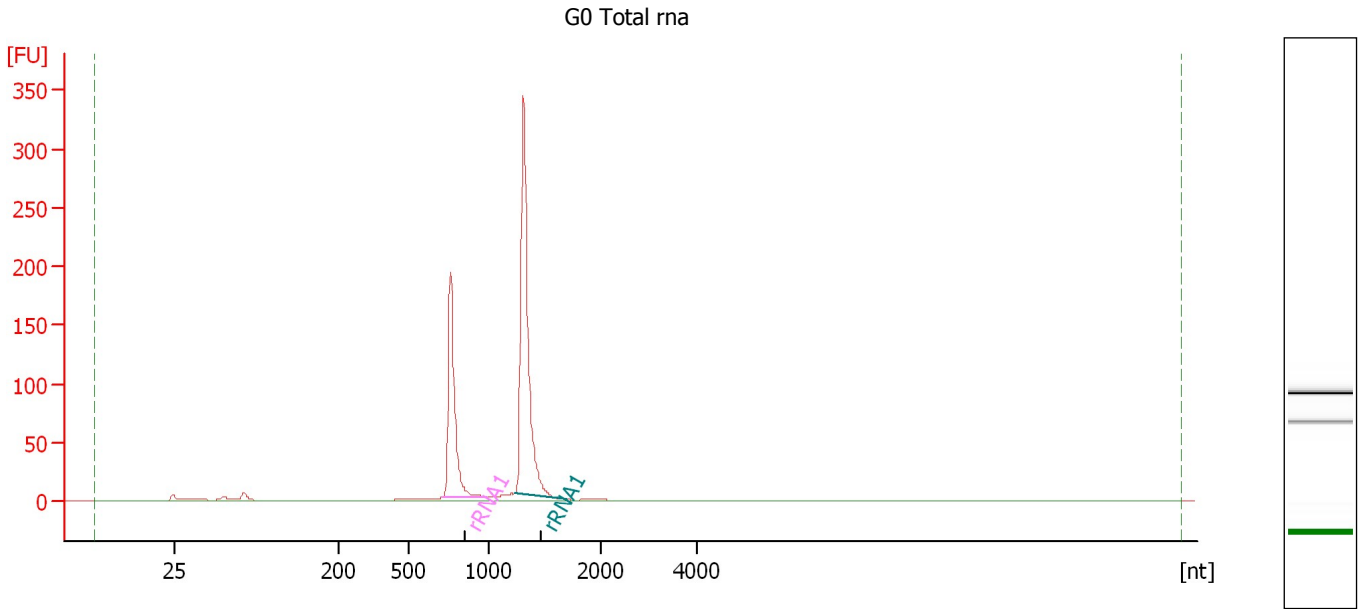
**Overall Results for sample 8 : G18**

RNA Area: 19.9                      rRNA Contamination: 0.0 %  
RNA Concentration: 53 ng/μl

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-16\2016-06-16\_002.xad

Created: 6/16/2016 2:47:25 PM  
Modified: 6/16/2016 3:16:27 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : G0 Total rna**

RNA Area: 777.1                      rRNA Contamination: 81.7 %  
RNA Concentration: 2,078 ng/μl

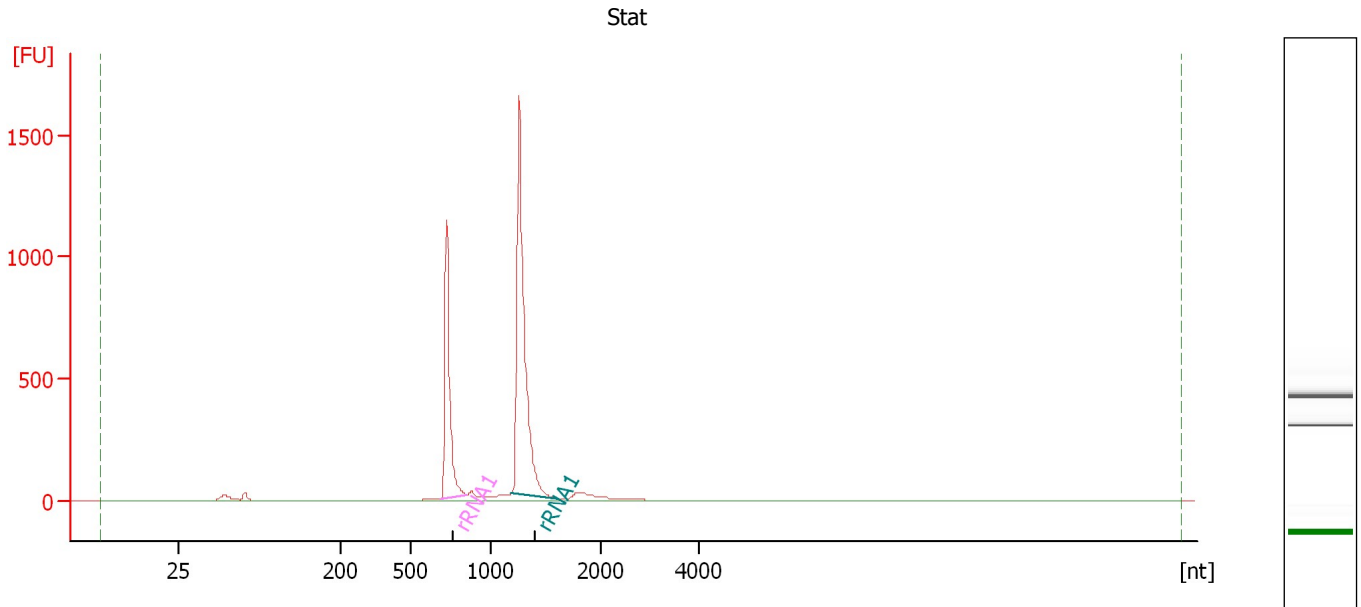
**Fragment table for sample 9 : G0 Total rna**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	717	983	228.4	29.4
rRNA1	1,233	1,698	406.5	52.3

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-16\2016-06-16\_002.xad

Created: 6/16/2016 2:47:25 PM  
Modified: 6/16/2016 3:16:27 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : Stat**

RNA Area: 4,039.6                      rRNA Contamination: 77.5 %  
RNA Concentration: 10,804 ng/μl

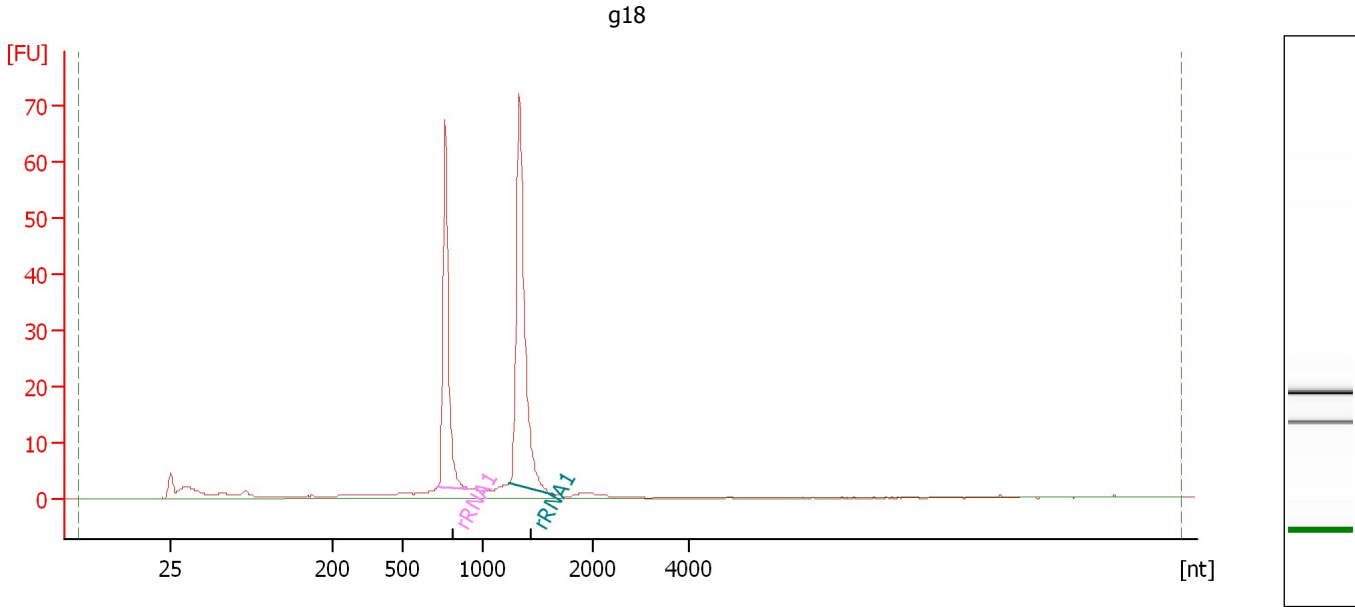
**Fragment table for sample 10 : Stat**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	692	844	1,054.1	26.1
rRNA1	1,183	1,613	2,078.0	51.4

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-16\2016-06-16\_002.xad

Created: 6/16/2016 2:47:25 PM  
Modified: 6/16/2016 3:16:27 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : g18**

RNA Area: 247.7                      rRNA Contamination: 67.1 %  
RNA Concentration: 663 ng/μl

**Fragment table for sample 11 : g18**

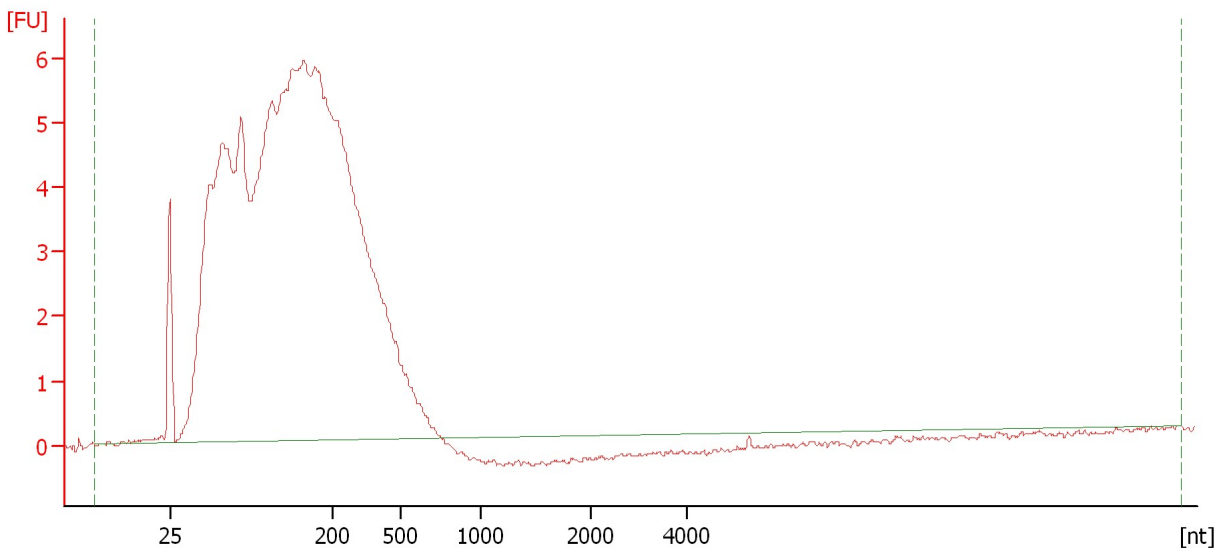
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	718	907	66.2	26.7
rRNA1	1,241	1,646	99.9	40.3

Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-16\2016-06-16\_002.xad

Created: 6/16/2016 2:47:25 PM  
Modified: 6/16/2016 3:16:27 PM

**Electropherogram Summary Continued ...**

WT 3



**Overall Results for sample 12 : WT 3**

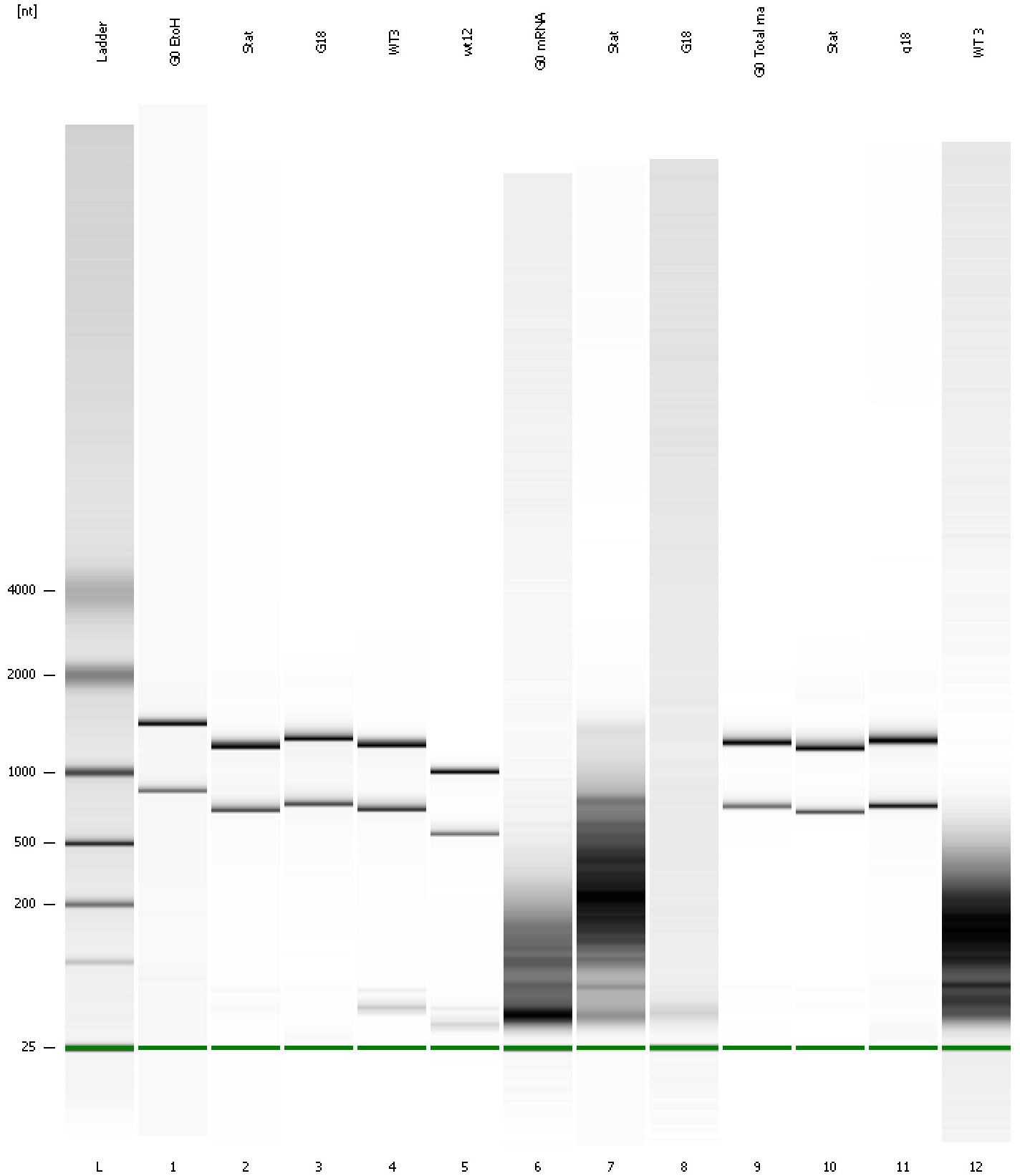
RNA Area:	197.9	rRNA Contamination:	0.0 %
RNA Concentration:	529 ng/μl		



Assay Class: mRNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-16\2016-06-16\_002.xad

Created: 6/16/2016 2:47:25 PM  
Modified: 6/16/2016 3:16:27 PM

**Gel Image**



Assay Class: mRNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-16\2016-06-16\_002.xad

Created: 6/16/2016 2:47:25 PM  
 Modified: 6/16/2016 3:16:27 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 13)		Instrument	Run		6/16/2016 3:14:29 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\2016-06-16\2016-06-16_002.xad)		Instrument	Run		6/16/2016 2:47:31 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/16/2016 2:47:31 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/16/2016 2:47:31 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/16/2016 2:47:31 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/16/2016 2:47:31 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/16/2016 2:47:31 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/16/2016 2:47:31 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1