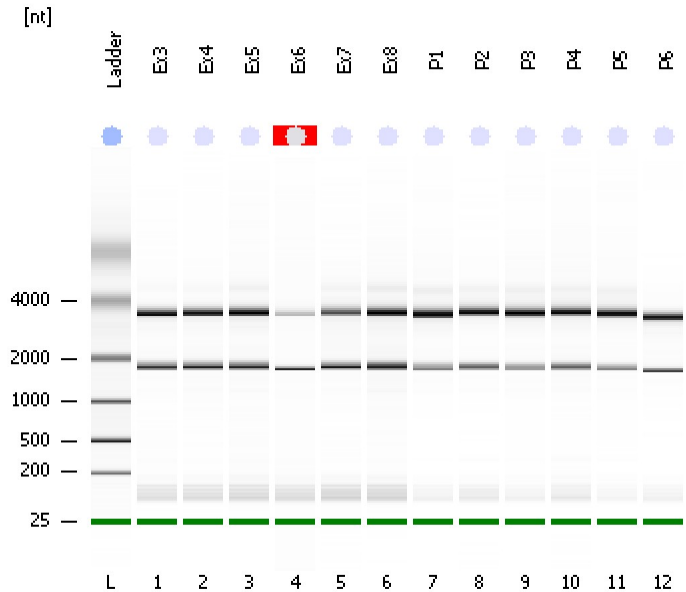


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-27\2017-07-27\_003.xad

Created: 7/27/2017 4:36:17 PM  
Modified: 7/27/2017 5:00:10 PM

Electrophoresis File Run Summary



Instrument Information:

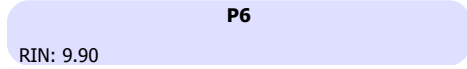
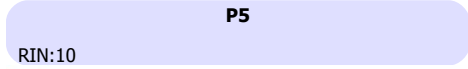
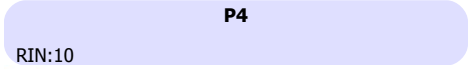
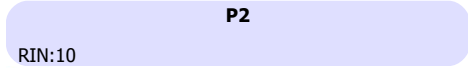
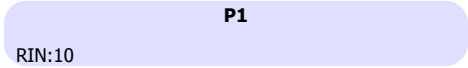
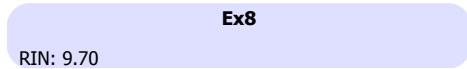
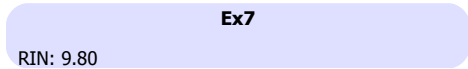
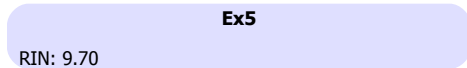
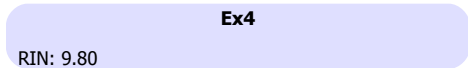
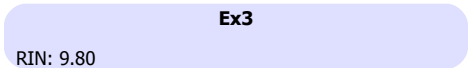
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Nano Series II.xsy  
Assay Class: Eukaryote Total RNA Nano  
Version: 2.6  
Assay Comments: Total RNA Analysis ng sensitivity (Eukaryote)  
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Chip Information:

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



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-27\2017-07-27\_003.xad

Created: 7/27/2017 4:36:17 PM  
Modified: 7/27/2017 5:00:10 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
Ex3		✓	RIN: 9.80	
Ex4		✓	RIN: 9.80	
Ex5		✓	RIN: 9.70	
Ex6		✓	RIN N/A	
Ex7		✓	RIN: 9.80	
Ex8		✓	RIN: 9.70	
P1		✓	RIN:10	
P2		✓	RIN:10	
P3		✓	RIN: 9.90	
P4		✓	RIN:10	
P5		✓	RIN:10	
P6		✓	RIN: 9.90	
Ladder		✓	All Other Samples	

**Chip Lot #**

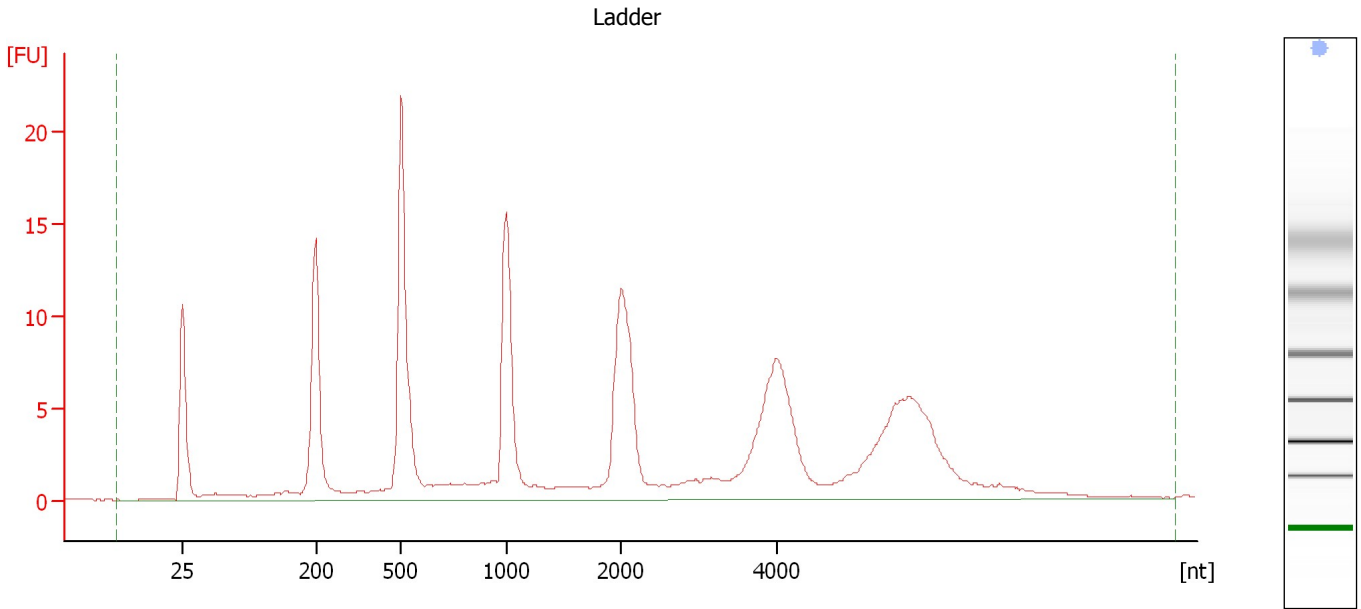
**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-27\2017-07-27\_003.xad

Created: 7/27/2017 4:36:17 PM  
Modified: 7/27/2017 5:00:10 PM

**Electropherogram Summary**



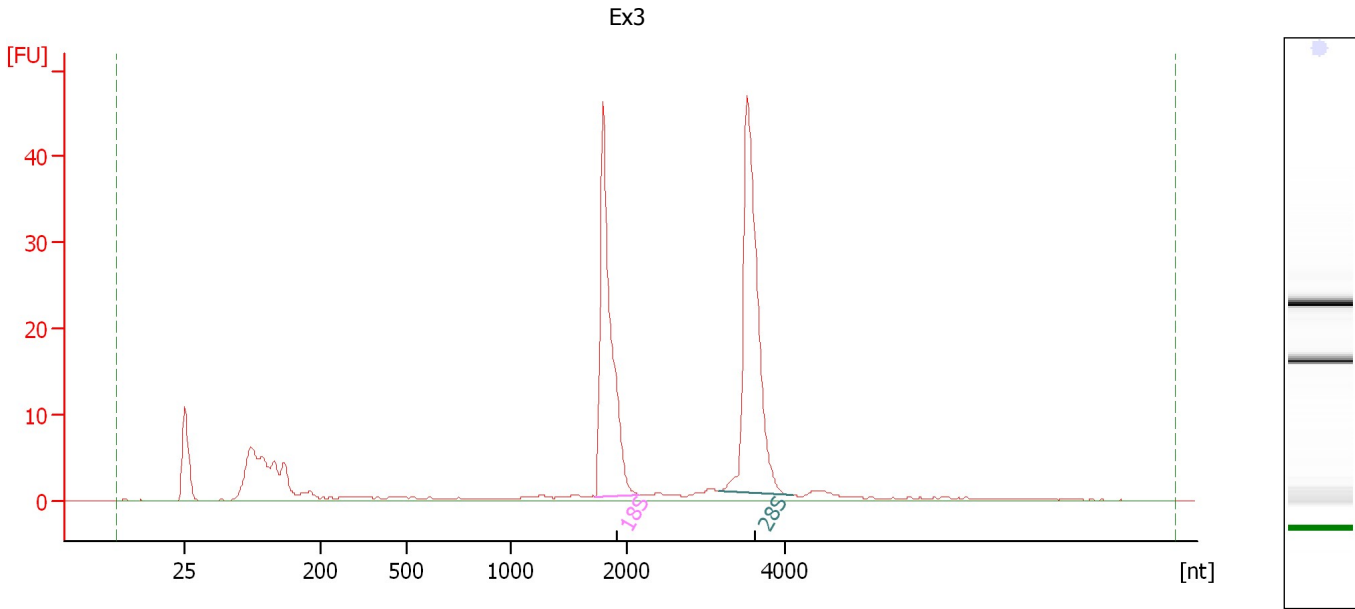
**Overall Results for Ladder**

RNA Area:	199.1	Result Flagging Color:	<span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-27\2017-07-27\_003.xad

Created: 7/27/2017 4:36:17 PM  
Modified: 7/27/2017 5:00:10 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Ex3**

RNA Area: 217.1                      RNA Integrity Number (RIN): 9.8 (B.02.08)  
RNA Concentration: 164 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.2              Result Flagging Label: RIN: 9.80

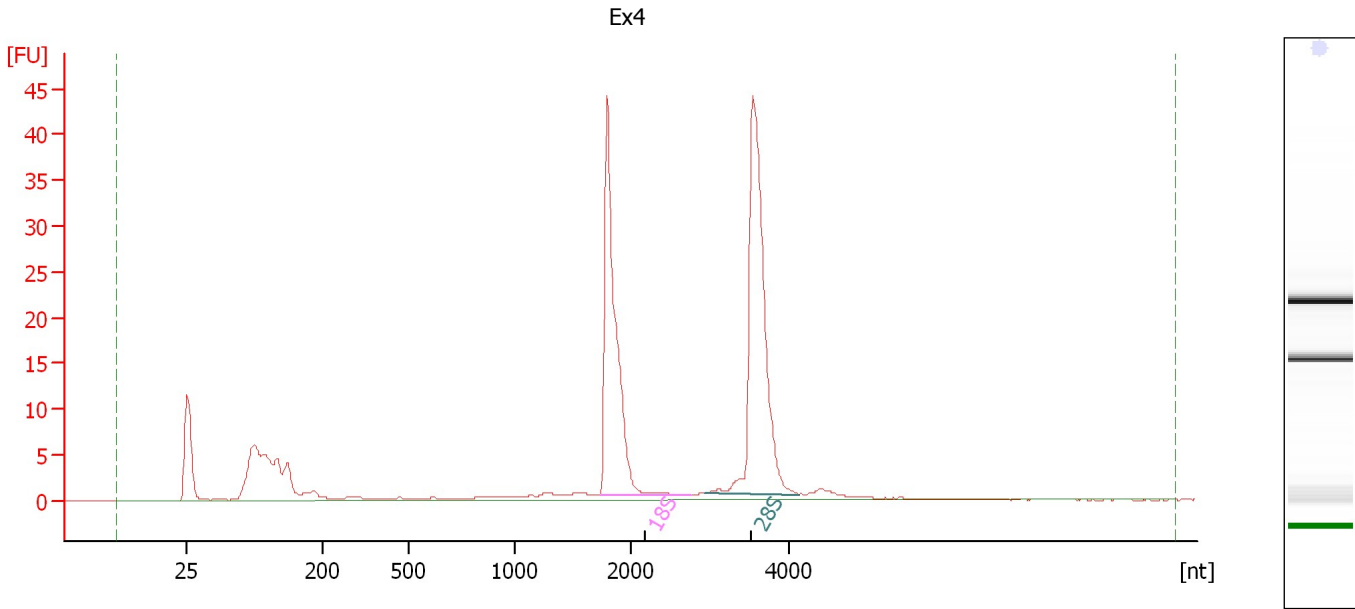
**Fragment table for sample 1 : Ex3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,726	2,139	60.9	28.1
28S	3,160	4,112	71.5	32.9

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-27\2017-07-27\_003.xad

Created: 7/27/2017 4:36:17 PM  
 Modified: 7/27/2017 5:00:10 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Ex4**

RNA Area:	203.2	RNA Integrity Number (RIN):	9.8 (B.02.08)
RNA Concentration:	153 ng/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]:	1.2	Result Flagging Label:	RIN: 9.80

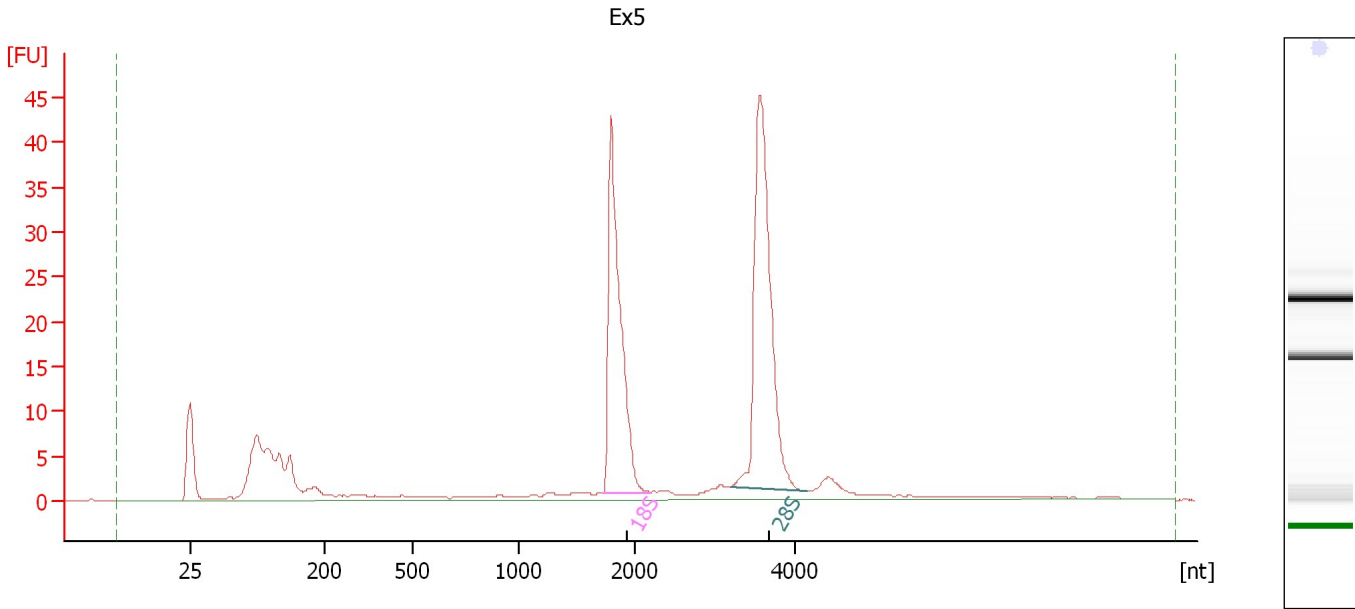
**Fragment table for sample 2 : Ex4**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,729	2,751	59.5	29.3
28S	2,940	4,119	70.1	34.5

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-27\2017-07-27\_003.xad

Created: 7/27/2017 4:36:17 PM  
 Modified: 7/27/2017 5:00:10 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Ex5**

RNA Area:	247.2	RNA Integrity Number (RIN):	9.7 (B.02.08)
RNA Concentration:	186 ng/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]:	1.3	Result Flagging Label:	RIN: 9.70

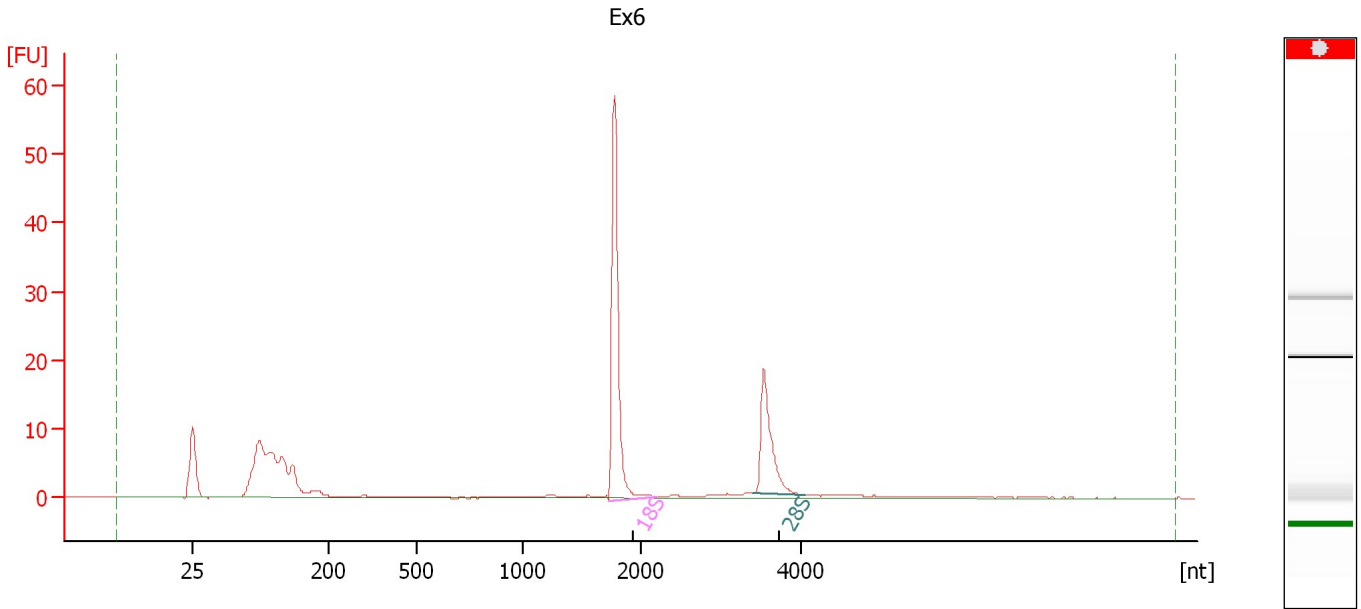
**Fragment table for sample 3 : Ex5**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,723	2,183	61.3	24.8
28S	3,195	4,153	76.8	31.1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-27\2017-07-27\_003.xad

Created: 7/27/2017 4:36:17 PM  
Modified: 7/27/2017 5:00:10 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Ex6**

RNA Area: 128.9                      RNA Integrity Number (RIN): N/A (B.02.08)  
RNA Concentration: 97 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.5              Result Flagging Label: RIN N/A

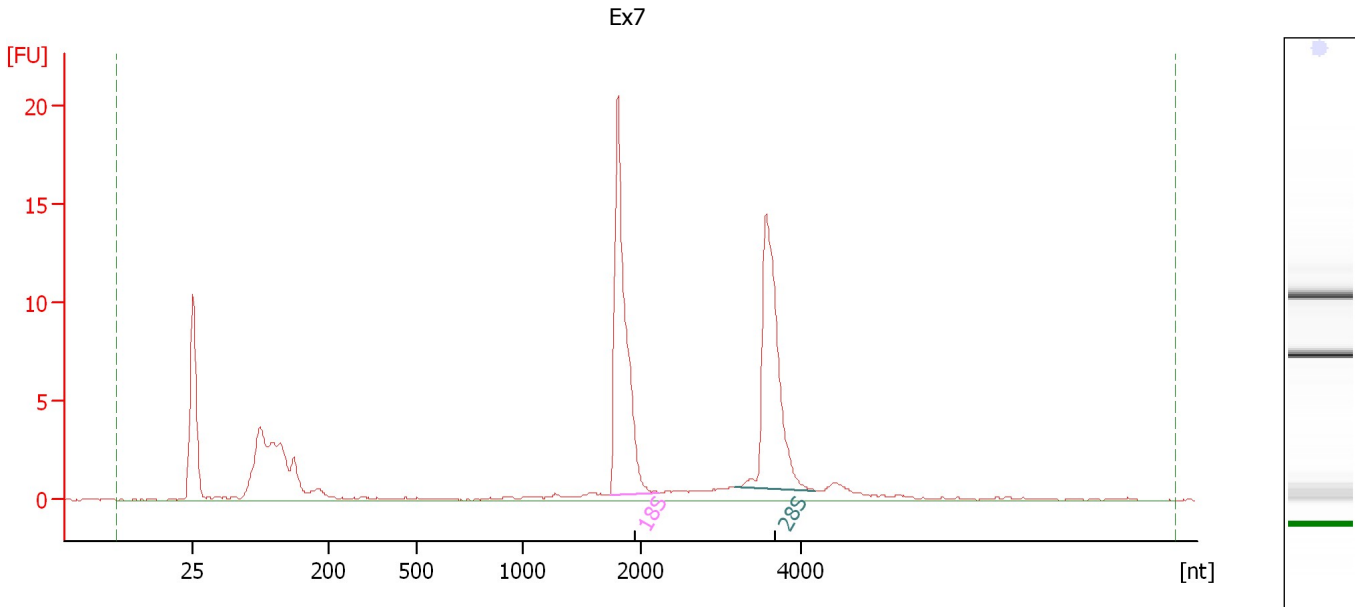
**Fragment table for sample 4 : Ex6**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,718	2,199	44.4	34.4
28S	3,405	4,048	20.1	15.6

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-27\2017-07-27\_003.xad

Created: 7/27/2017 4:36:17 PM  
Modified: 7/27/2017 5:00:10 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : Ex7**

RNA Area:	95.3	RNA Integrity Number (RIN):	9.8 (B.02.08)
RNA Concentration:	72 ng/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]:	0.9	Result Flagging Label:	RIN: 9.80

**Fragment table for sample 5 : Ex7**

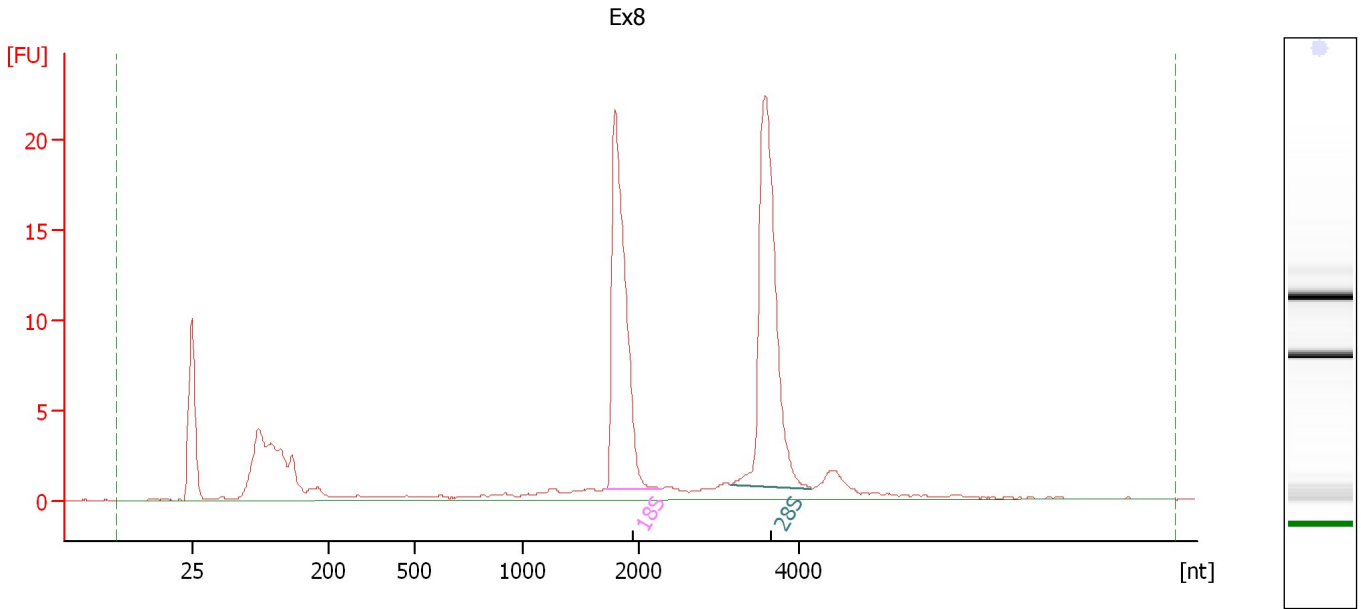
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,736	2,226	26.3	27.6
28S	3,164	4,182	23.9	25.1



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-27\2017-07-27\_003.xad

Created: 7/27/2017 4:36:17 PM  
Modified: 7/27/2017 5:00:10 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : Ex8**

RNA Area: 132.5                      RNA Integrity Number (RIN): 9.7 (B.02.08)  
RNA Concentration: 100 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.1                      Result Flagging Label: RIN: 9.70

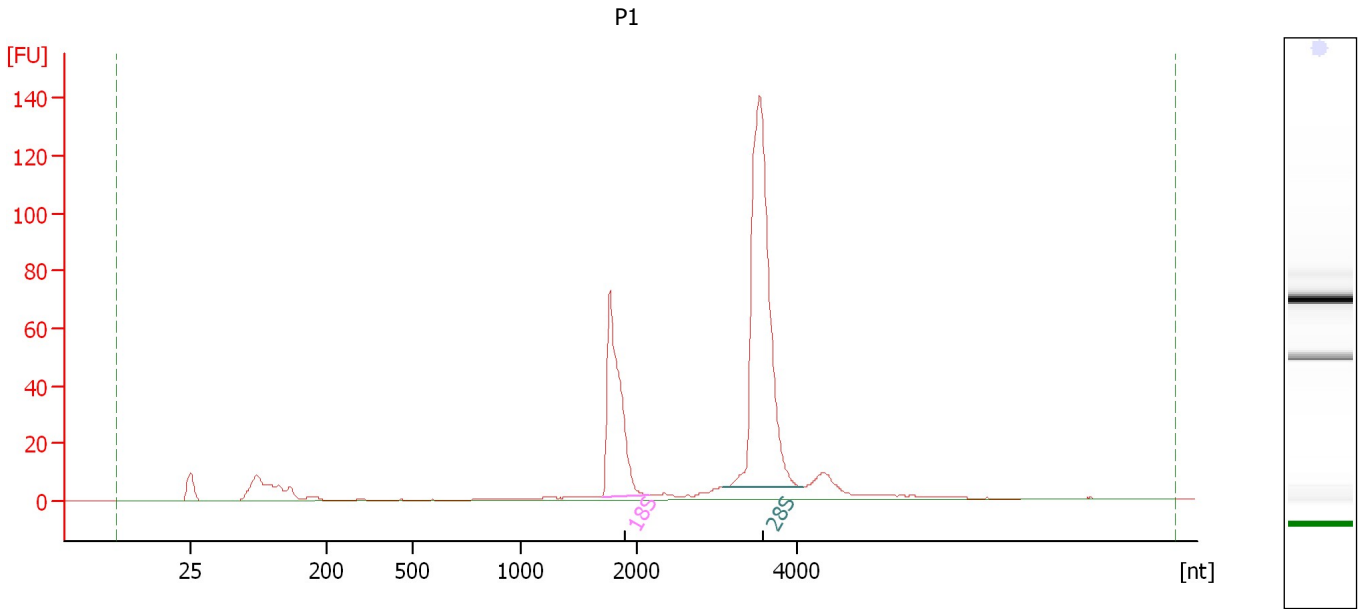
**Fragment table for sample 6 : Ex8**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,725	2,265	34.3	25.9
28S	3,138	4,159	39.3	29.6

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-27\2017-07-27\_003.xad

Created: 7/27/2017 4:36:17 PM  
Modified: 7/27/2017 5:00:10 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : P1**

RNA Area:	534.9	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	403 ng/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]:	2.3	Result Flagging Label:	RIN:10

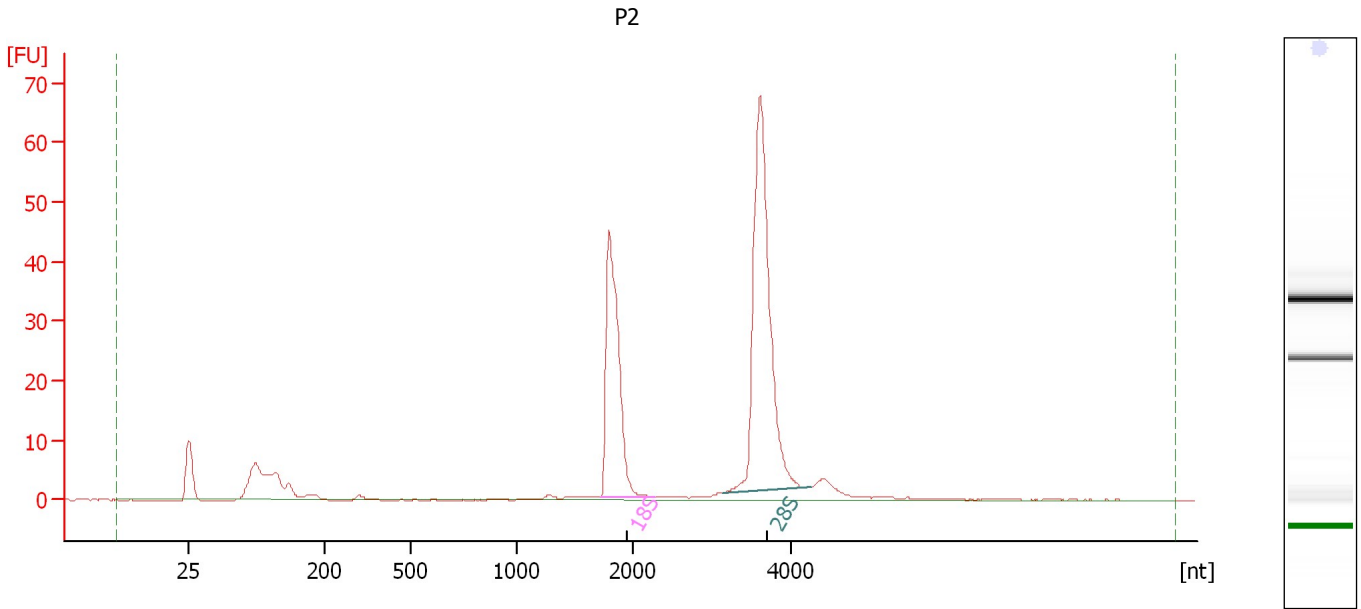
**Fragment table for sample 7 : P1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,697	2,144	112.8	21.1
28S	3,072	4,082	260.2	48.6

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-27\2017-07-27\_003.xad

Created: 7/27/2017 4:36:17 PM  
Modified: 7/27/2017 5:00:10 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : P2**

RNA Area:	261.1	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	197 ng/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]:	1.6	Result Flagging Label:	RIN:10

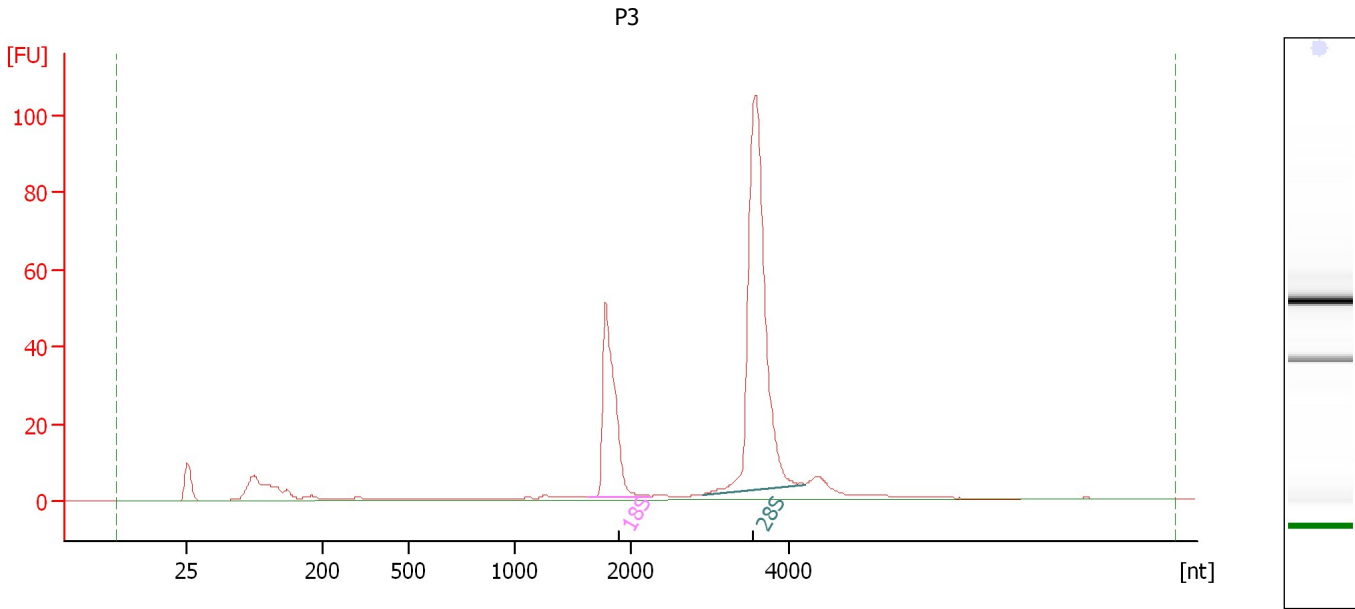
**Fragment table for sample 8 : P2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,721	2,264	70.6	27.1
28S	3,129	4,237	115.3	44.2

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-27\2017-07-27\_003.xad

Created: 7/27/2017 4:36:17 PM  
Modified: 7/27/2017 5:00:10 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : P3**

RNA Area:	387.4	RNA Integrity Number (RIN):	9.9 (B.02.08)
RNA Concentration:	292 ng/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]:	2.4	Result Flagging Label:	RIN: 9.90

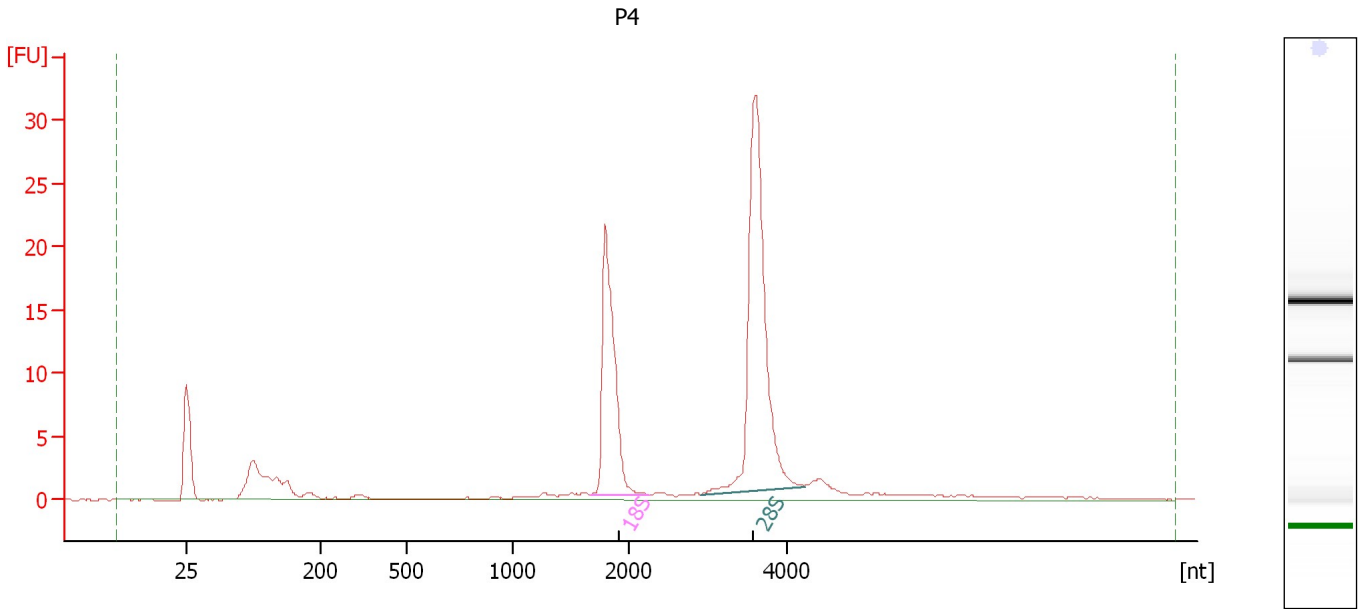
**Fragment table for sample 9 : P3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,637	2,249	76.9	19.8
28S	2,913	4,200	185.0	47.8

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-27\2017-07-27\_003.xad

Created: 7/27/2017 4:36:17 PM  
Modified: 7/27/2017 5:00:10 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : P4**

RNA Area: 135.3                      RNA Integrity Number (RIN): 10 (B.02.08)  
RNA Concentration: 102 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.7              Result Flagging Label: RIN:10

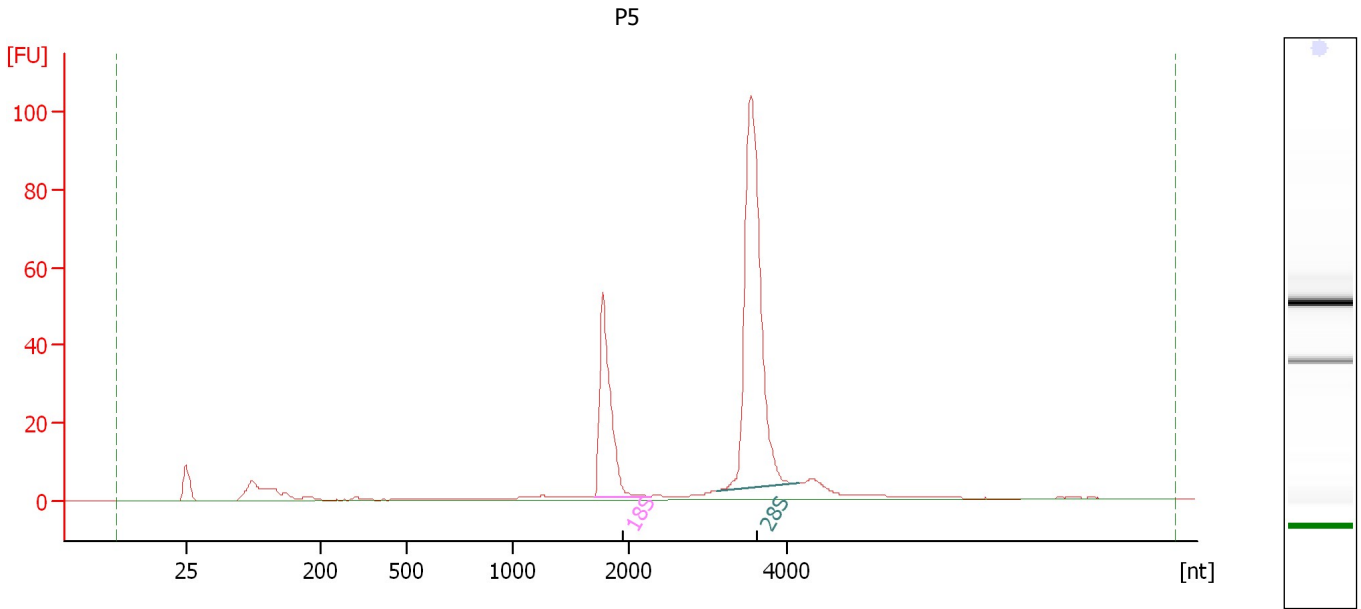
**Fragment table for sample 10 : P4**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,663	2,235	32.3	23.9
28S	2,900	4,218	54.2	40.1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-27\2017-07-27\_003.xad

Created: 7/27/2017 4:36:17 PM  
Modified: 7/27/2017 5:00:10 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : P5**

RNA Area:	366.3	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	276 ng/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]:	2.4	Result Flagging Label:	RIN:10

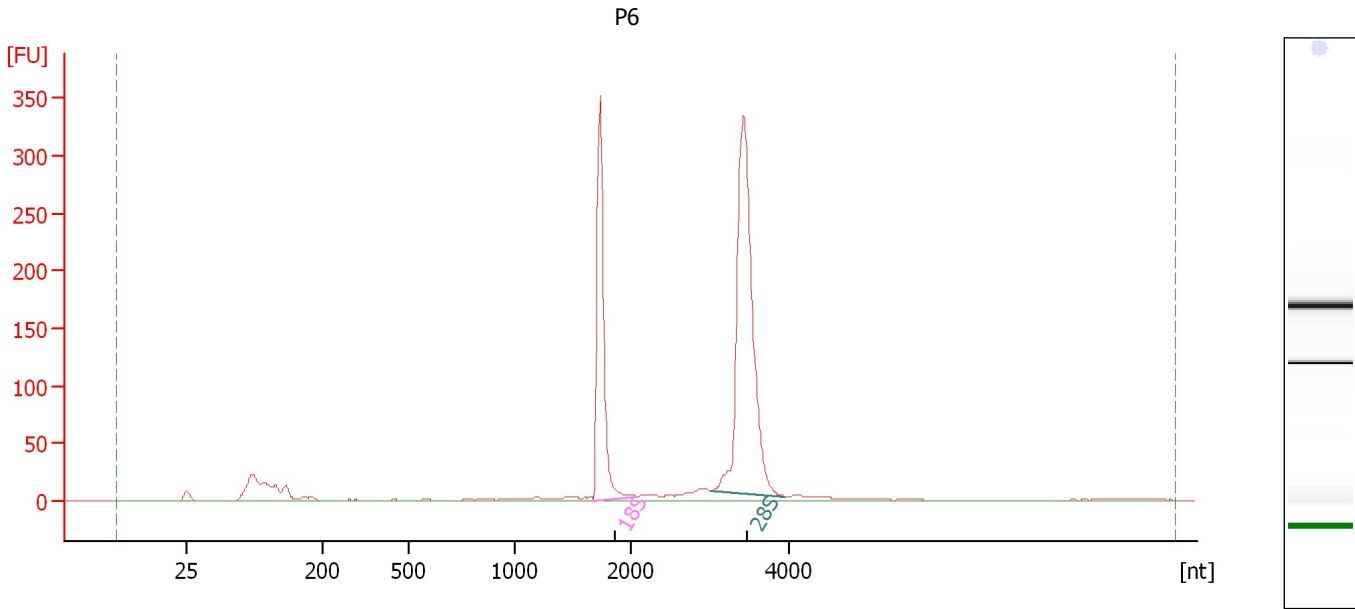
**Fragment table for sample 11 : P5**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,700	2,262	71.6	19.5
28S	3,104	4,163	174.2	47.6

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-27\2017-07-27\_003.xad

Created: 7/27/2017 4:36:17 PM  
Modified: 7/27/2017 5:00:10 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : P6**

RNA Area:	1,111.8	RNA Integrity Number (RIN):	9.9 (B.02.08)
RNA Concentration:	838 ng/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]:	1.9	Result Flagging Label:	RIN: 9.90

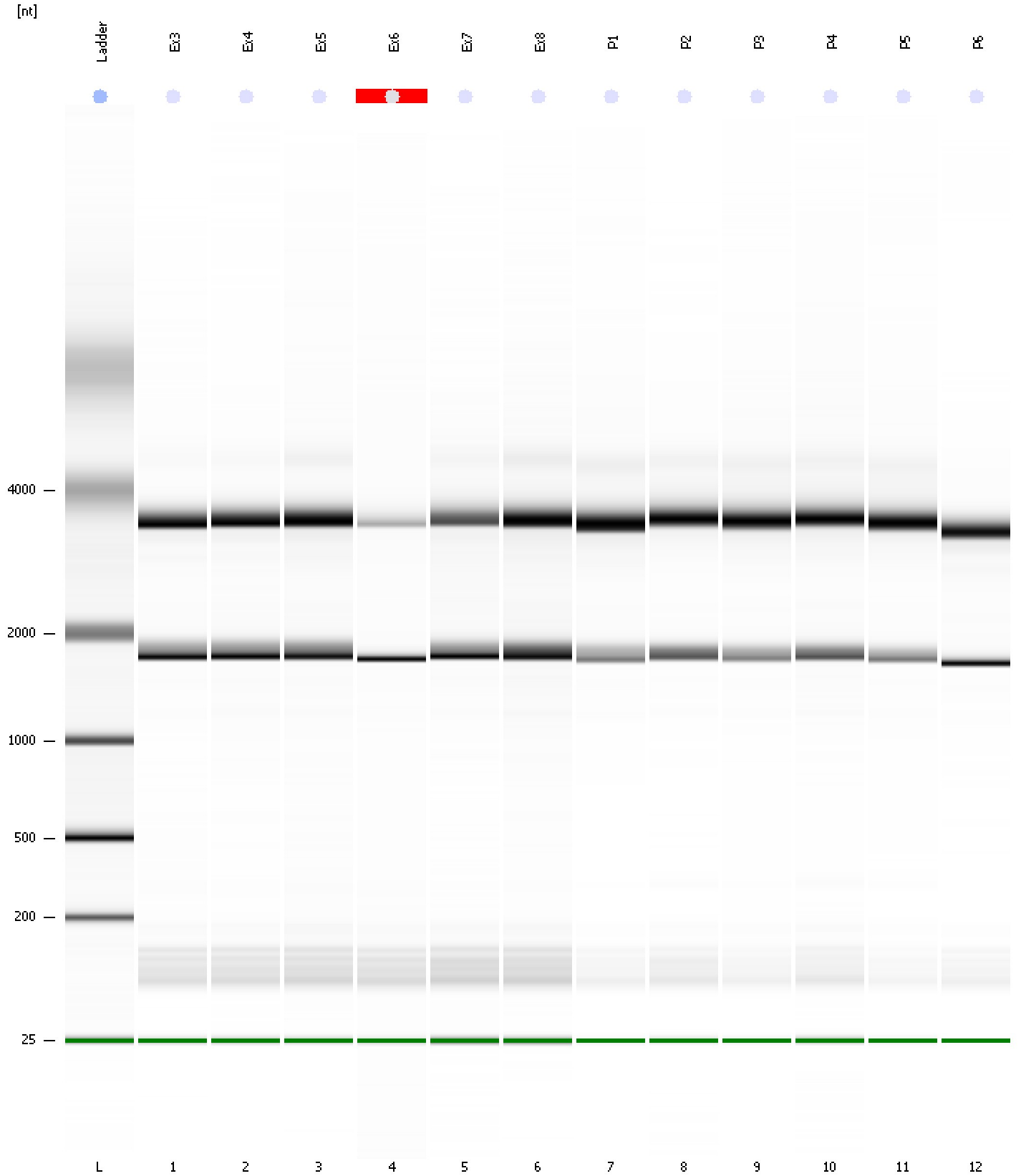
**Fragment table for sample 12 : P6**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,674	2,073	286.2	25.7
28S	3,008	3,956	547.9	49.3

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-27\2017-07-27\_003.xad

Created: 7/27/2017 4:36:17 PM  
Modified: 7/27/2017 5:00:10 PM

**Gel Image**





Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-27\2017-07-27\_003.xad

Created: 7/27/2017 4:36:17 PM  
Modified: 7/27/2017 5:00:10 PM

**Curves**

**Standard Curve**

