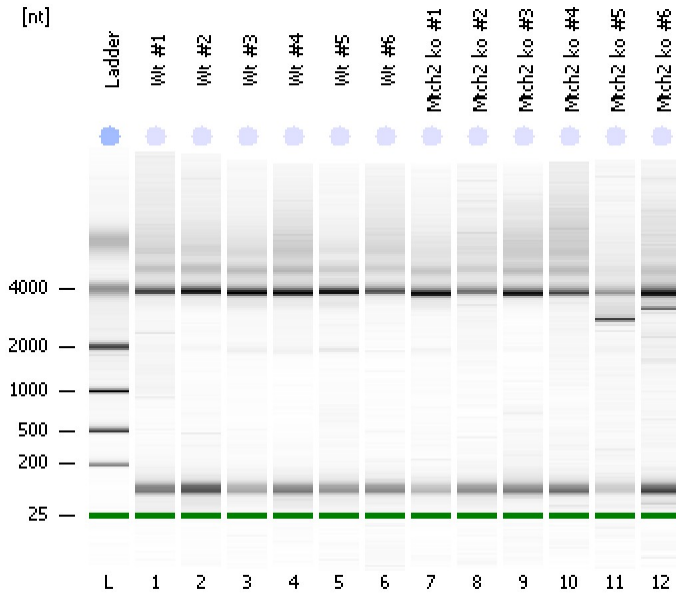


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-15\2017-11-15\_001.xad

Created: 11/15/2017 3:44:33 PM  
Modified: 11/15/2017 4:10:06 PM

Electrophoresis File Run Summary



Instrument Information:

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

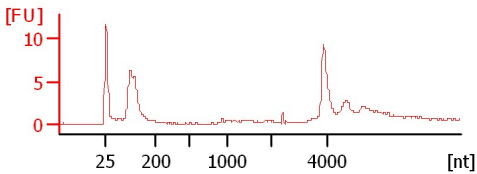
Assay Information:

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)  
© Copyright 2003 - 2009 Agilent Technologies, Inc.

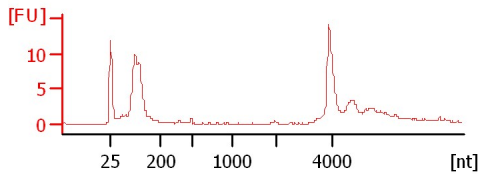
Chip Information:

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

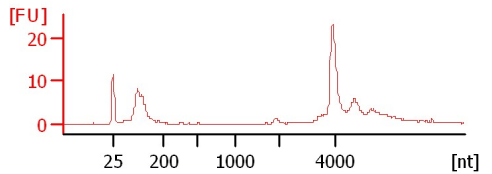
**Wt #1**  
RIN: 8.80



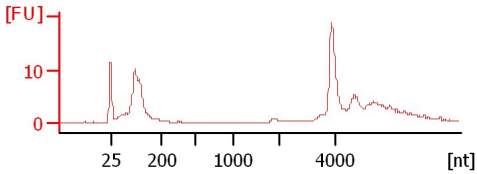
**Wt #2**  
RIN: 9.20



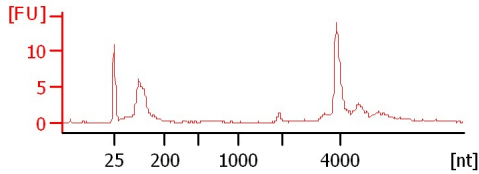
**Wt #3**  
RIN: 7.40



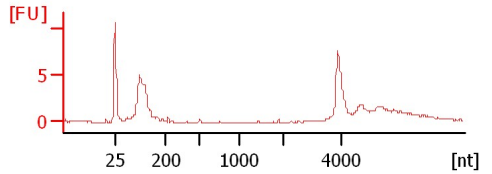
**Wt #4**  
RIN: 9.10



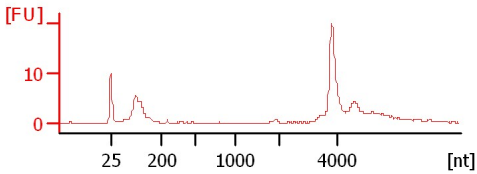
**Wt #5**  
RIN: 7.20



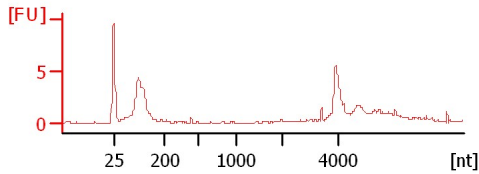
**Wt #6**  
RIN: 6.70



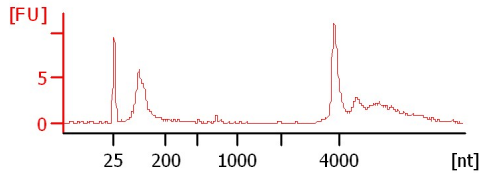
**Mtch2 ko #1**  
RIN: 7.40



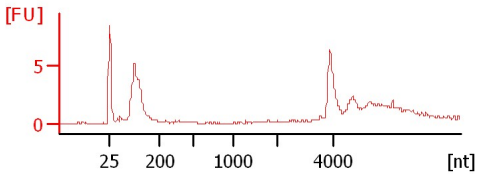
**Mtch2 ko #2**  
RIN: 7.90



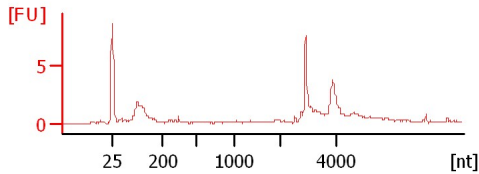
**Mtch2 ko #3**  
RIN: 8.90



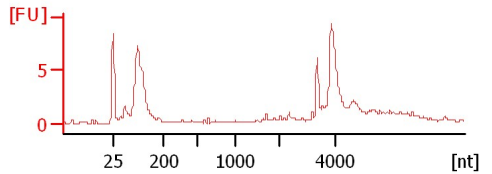
**Mtch2 ko #4**  
RIN: 8.90



**Mtch2 ko #5**  
RIN: 3.50



**Mtch2 ko #6**  
RIN: 5.20



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-15\2017-11-15\_001.xad

Created: 11/15/2017 3:44:33 PM  
 Modified: 11/15/2017 4:10:06 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
Wt #1		✓	RIN: 8.80	
Wt #2		✓	RIN: 9.20	
Wt #3		✓	RIN: 7.40	
Wt #4		✓	RIN: 9.10	
Wt #5		✓	RIN: 7.20	
Wt #6		✓	RIN: 6.70	
Mtch2 ko #1		✓	RIN: 7.40	
Mtch2 ko #2		✓	RIN: 7.90	
Mtch2 ko #3		✓	RIN: 8.90	
Mtch2 ko #4		✓	RIN: 8.90	
Mtch2 ko #5		✓	RIN: 3.50	
Mtch2 ko #6		✓	RIN: 5.20	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-15\2017-11-15\_001.xad

Created: 11/15/2017 3:44:33 PM  
Modified: 11/15/2017 4:10:06 PM

**Electrophoresis Assay Details**

**General Analysis Settings**

Number of Available Sample and Ladder Wells (Max.) : 13  
Minimum Visible Range [s] : 17  
Maximum Visible Range [s] : 70  
Start Analysis Time Range [s] : 19  
End Analysis Time Range [s] : 69  
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] : 19  
Integration End Time [s] : 69  
Slope Threshold : 0.6  
Height Threshold [FU] : 0.5  
Area Threshold : 0.2  
Width Threshold [s] : 0.5  
Baseline Plateau [s] : 6

**Filter Settings**

Filter Width [s] : 0.5  
Polynomial Order : 4

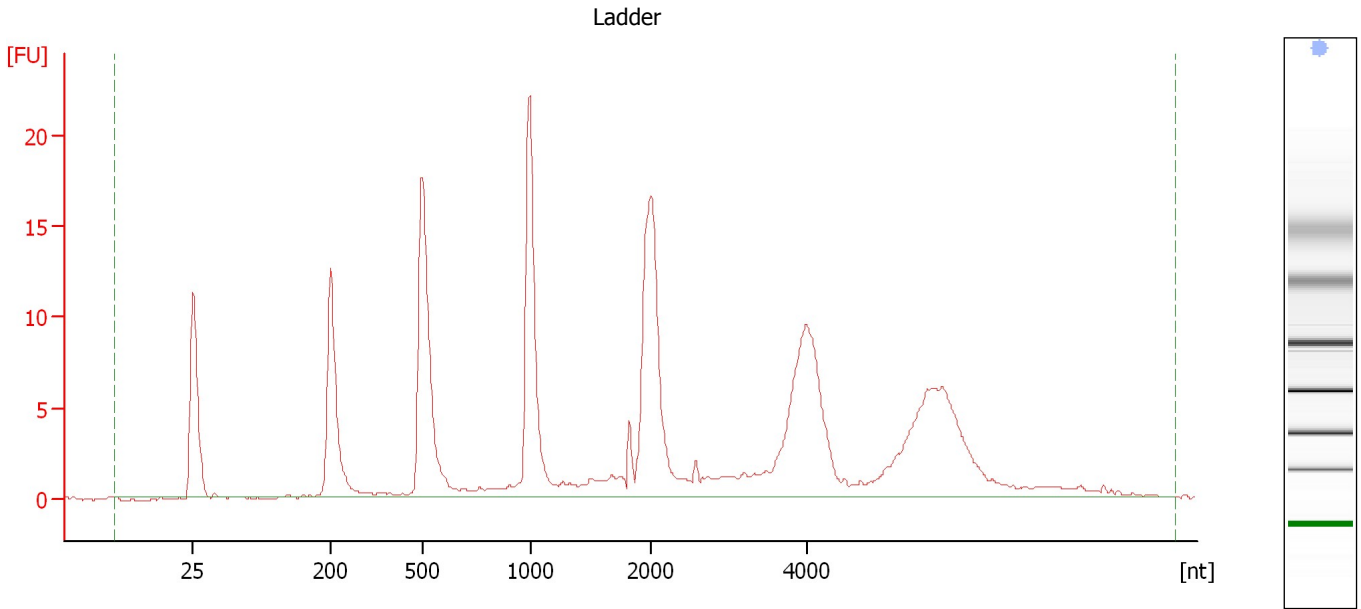
**Ladder**

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

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-15\2017-11-15\_001.xad

Created: 11/15/2017 3:44:33 PM  
Modified: 11/15/2017 4:10:06 PM

**Electropherogram Summary**



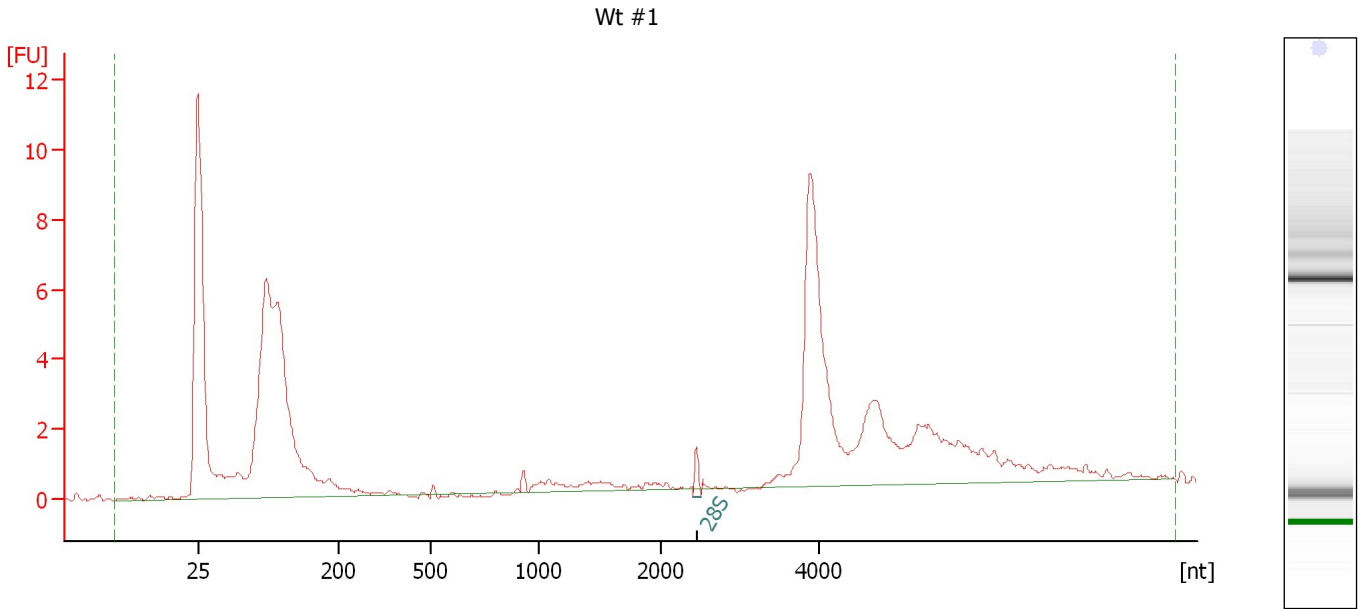
**Overall Results for Ladder**

RNA Area:	204.4	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\2017-11-15\2017-11-15\_001.xad

Created: 11/15/2017 3:44:33 PM  
Modified: 11/15/2017 4:10:06 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Wt #1**

RNA Area:	83.0	RNA Integrity Number (RIN):	8.8 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	61 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]:	0.0	Result Flagging Label:	RIN: 8.80

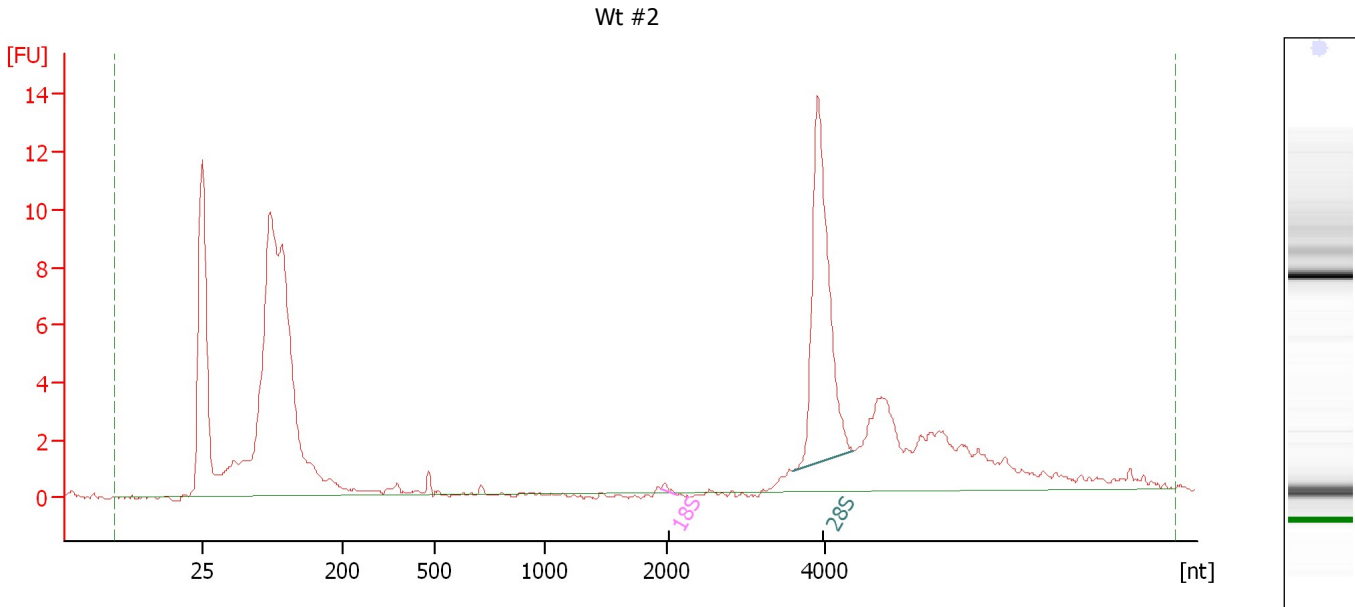
**Fragment table for sample 1 : Wt #1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	2,401	2,510	0.7	0.8

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-15\2017-11-15\_001.xad

Created: 11/15/2017 3:44:33 PM  
 Modified: 11/15/2017 4:10:06 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Wt #2**

RNA Area:	120.8	RNA Integrity Number (RIN):	9.2 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	89 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]:	130.8	Result Flagging Label:	RIN: 9.20

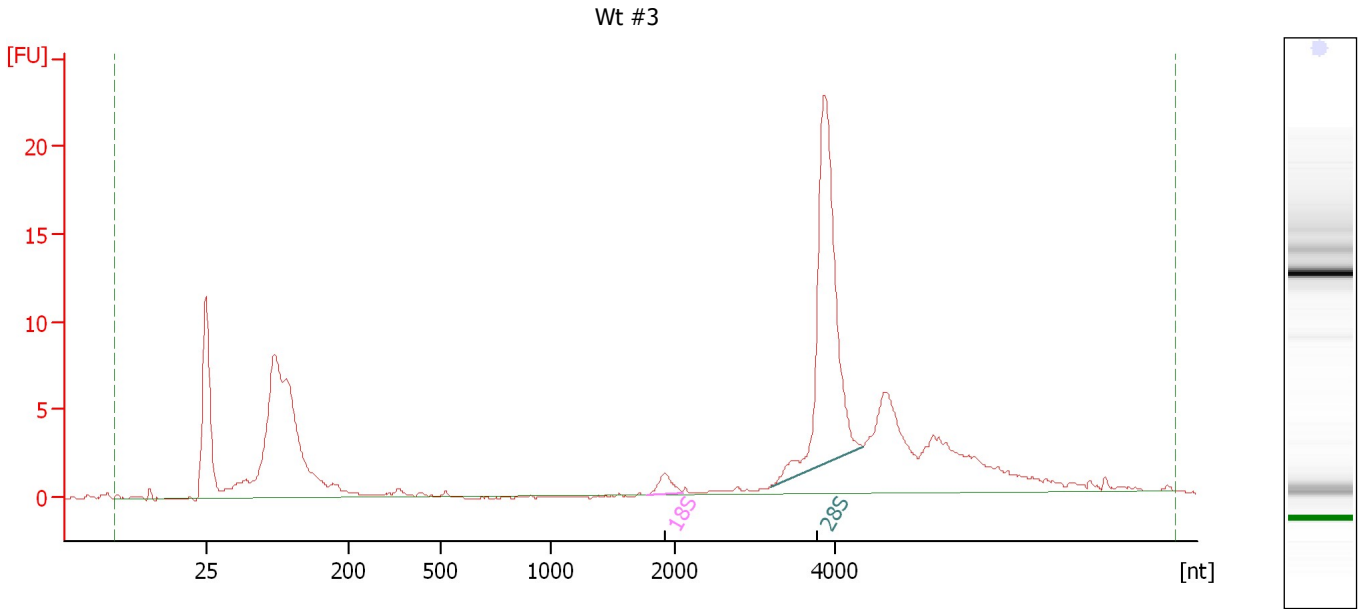
**Fragment table for sample 2 : Wt #2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,953	2,117	0.2	0.1
28S	3,595	4,354	21.0	17.4

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-15\2017-11-15\_001.xad

Created: 11/15/2017 3:44:33 PM  
 Modified: 11/15/2017 4:10:06 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Wt #3**

RNA Area:	146.8	RNA Integrity Number (RIN):	7.4 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	108 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]:	20.8	Result Flagging Label:	RIN: 7.40

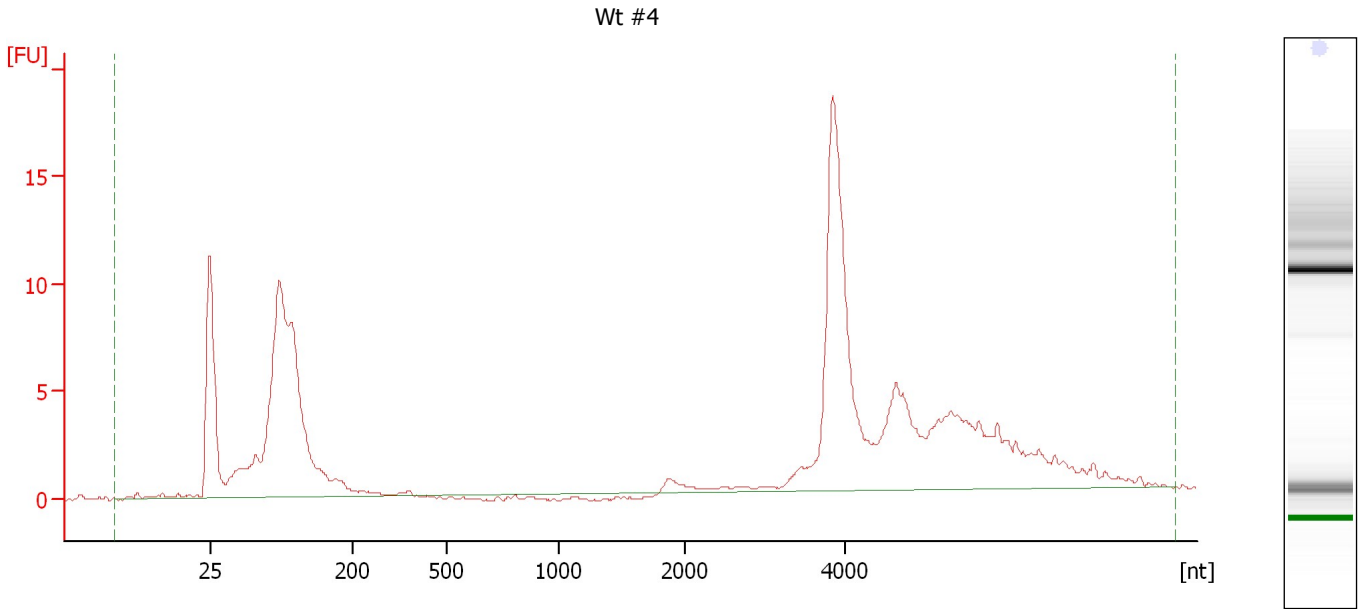
**Fragment table for sample 3 : Wt #3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,766	2,080	1.8	1.2
28S	3,182	4,338	38.1	26.0

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-15\2017-11-15\_001.xad

Created: 11/15/2017 3:44:33 PM  
Modified: 11/15/2017 4:10:06 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Wt #4**

RNA Area: 153.5  
RNA Concentration: 113 ng/μl  
rRNA Ratio [28s / 18s]: 0.0

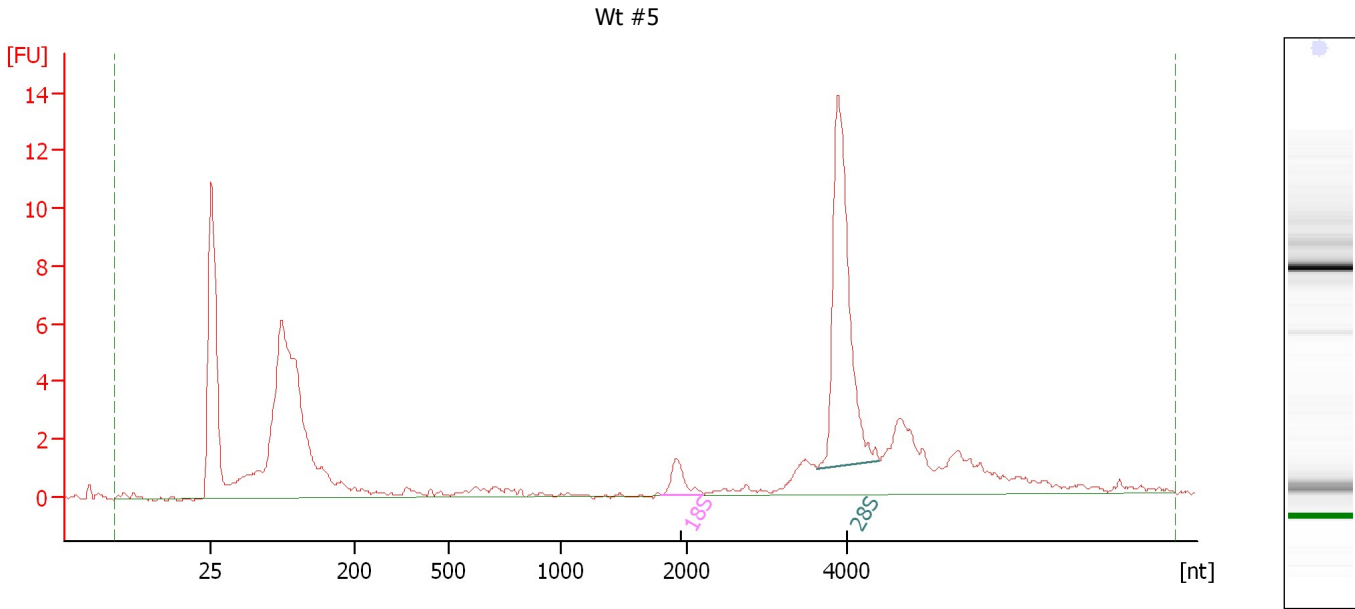
RNA Integrity Number (RIN): 9.1 (B.02.08, Anomaly Threshold(s) manually adapted)  
Result Flagging Color:   
Result Flagging Label: RIN: 9.10



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-15\2017-11-15\_001.xad

Created: 11/15/2017 3:44:33 PM  
Modified: 11/15/2017 4:10:06 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : Wt #5**

RNA Area:	93.8	RNA Integrity Number (RIN):	7.2 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	69 ng/μl		
rRNA Ratio [28s / 18s]:	11.0	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
		Result Flagging Label:	RIN: 7.20

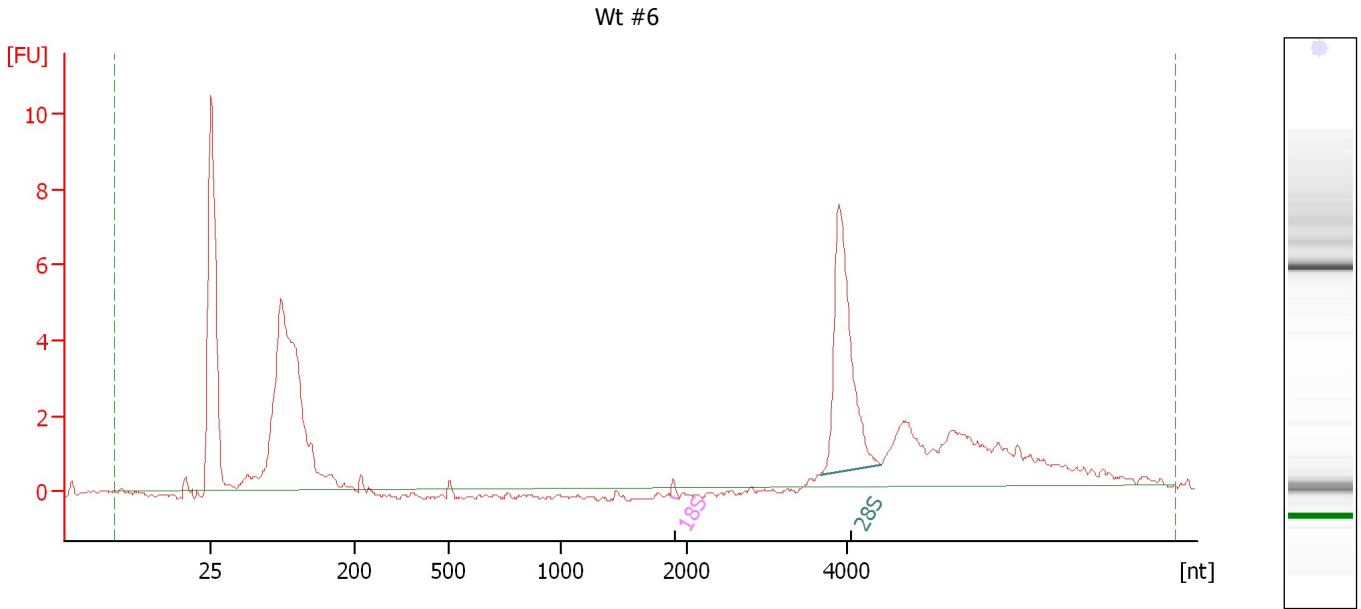
**Fragment table for sample 5 : Wt #5**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,806	2,217	1.9	2.0
28S	3,628	4,399	20.6	22.0

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-15\2017-11-15\_001.xad

Created: 11/15/2017 3:44:33 PM  
 Modified: 11/15/2017 4:10:06 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : Wt #6**

RNA Area:	59.1	RNA Integrity Number (RIN):	6.7 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	43 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]:	53.7	Result Flagging Label:	RIN: 6.70

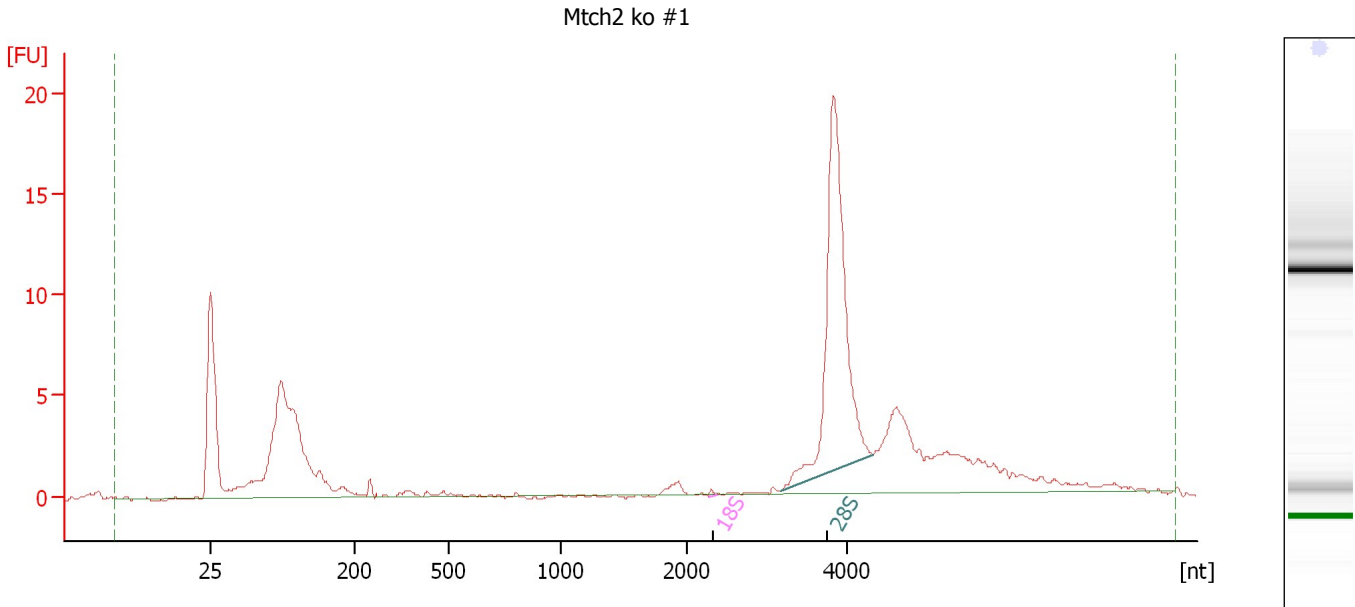
**Fragment table for sample 6 : Wt #6**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,874	1,943	0.2	0.4
28S	3,667	4,413	11.6	19.6

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-15\2017-11-15\_001.xad

Created: 11/15/2017 3:44:33 PM  
 Modified: 11/15/2017 4:10:06 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : Mtch2 ko #1**

RNA Area:	108.6	RNA Integrity Number (RIN):	7.4 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	80 ng/μl		
rRNA Ratio [28s / 18s]:	231.1	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
		Result Flagging Label:	RIN: 7.40

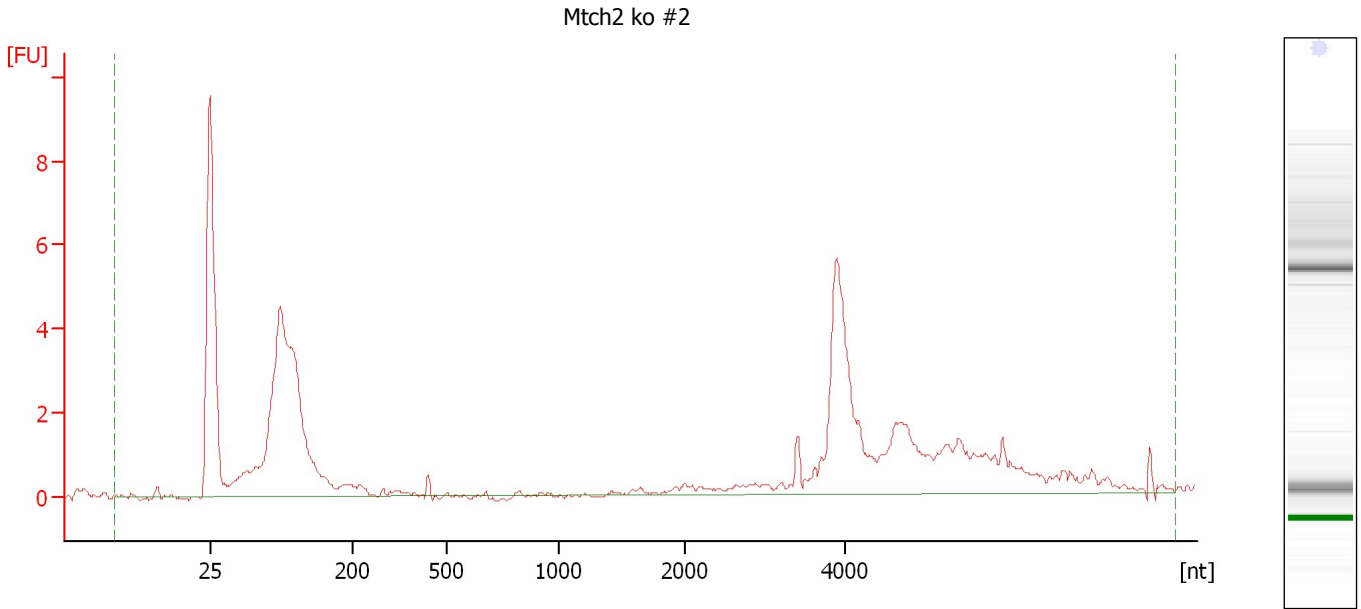
**Fragment table for sample 7 : Mtch2 ko #1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,270	2,377	0.1	0.1
28S	3,175	4,306	34.3	31.6

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-15\2017-11-15\_001.xad

Created: 11/15/2017 3:44:33 PM  
Modified: 11/15/2017 4:10:06 PM

**Electropherogram Summary Continued ...**



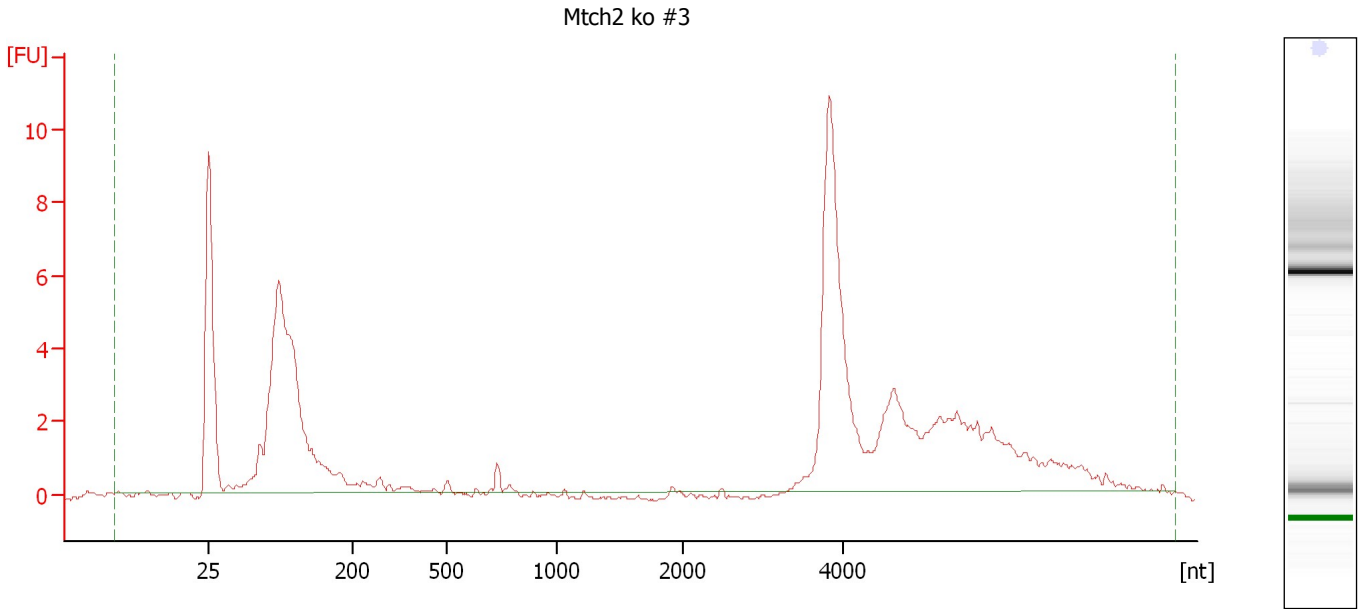
**Overall Results for sample 8 : Mtch2 ko #2**

RNA Area:	59.7	RNA Integrity Number (RIN):	7.9 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	44 ng/μl		
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
		Result Flagging Label:	RIN: 7.90

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-15\2017-11-15\_001.xad

Created: 11/15/2017 3:44:33 PM  
Modified: 11/15/2017 4:10:06 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : Mtch2 ko #3**

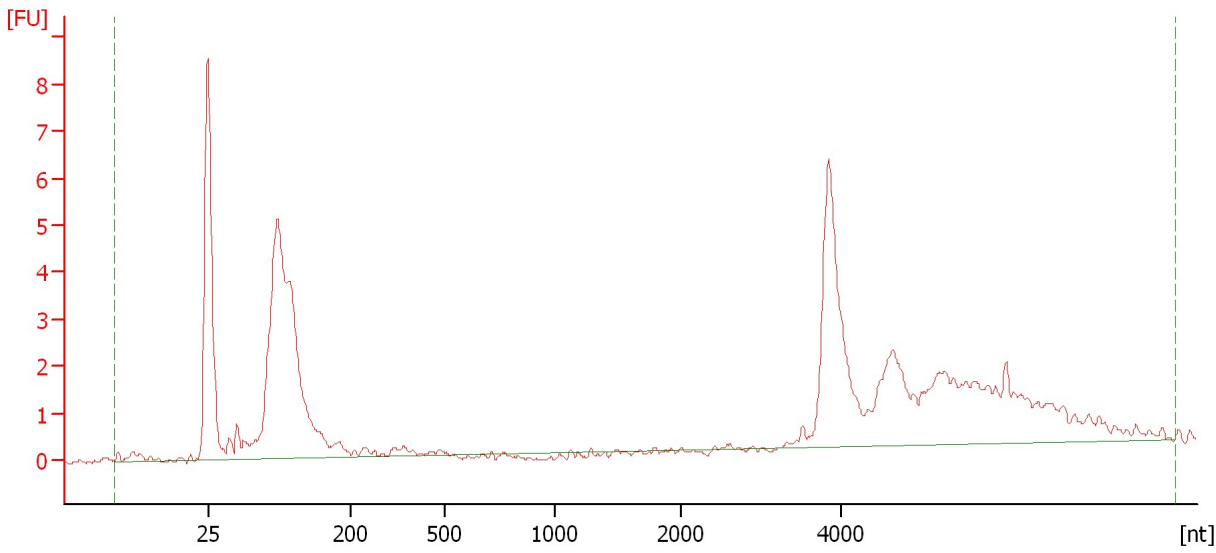
RNA Area:	85.8	RNA Integrity Number (RIN):	8.9 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	63 ng/μl		
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
		Result Flagging Label:	RIN: 8.90

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-15\2017-11-15\_001.xad

Created: 11/15/2017 3:44:33 PM  
Modified: 11/15/2017 4:10:06 PM

**Electropherogram Summary Continued ...**

Mtch2 ko #4



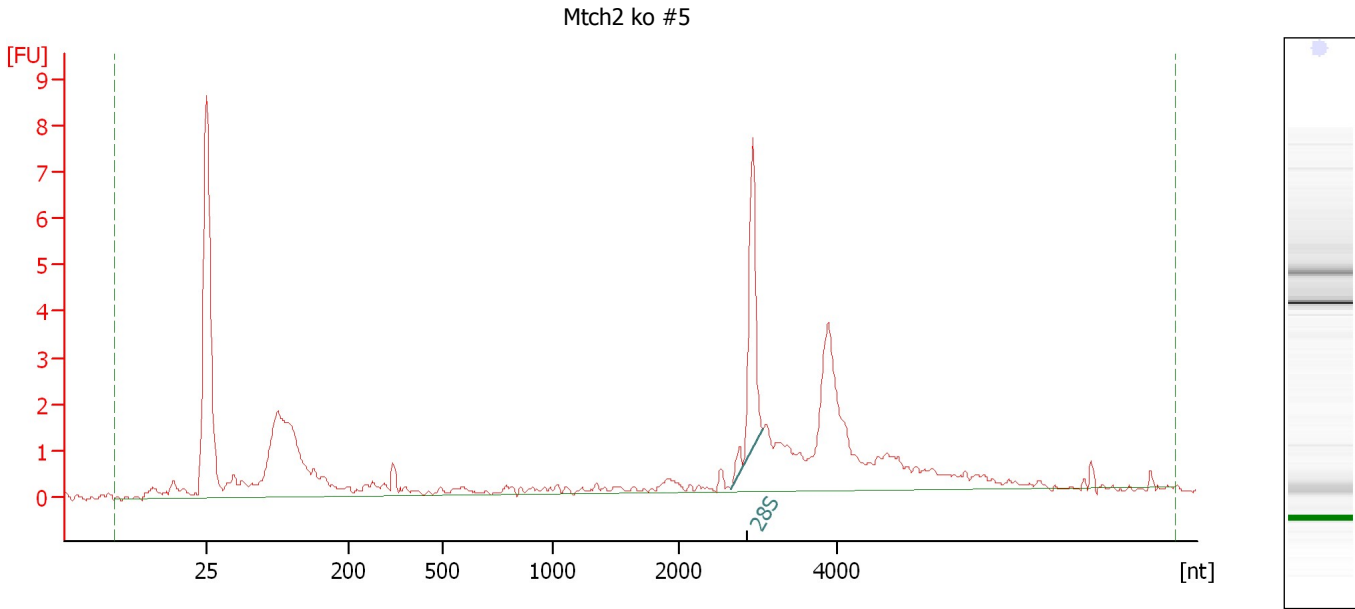
**Overall Results for sample 10 : Mtch2 ko #4**

RNA Area:	62.7	RNA Integrity Number (RIN):	8.9 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	46 ng/μl		
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
		Result Flagging Label:	RIN: 8.90

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-15\2017-11-15\_001.xad

Created: 11/15/2017 3:44:33 PM  
Modified: 11/15/2017 4:10:06 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : Mtch2 ko #5**

RNA Area:	45.4	RNA Integrity Number (RIN):	3.5 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	33 ng/μl		
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
		Result Flagging Label:	RIN: 3.50

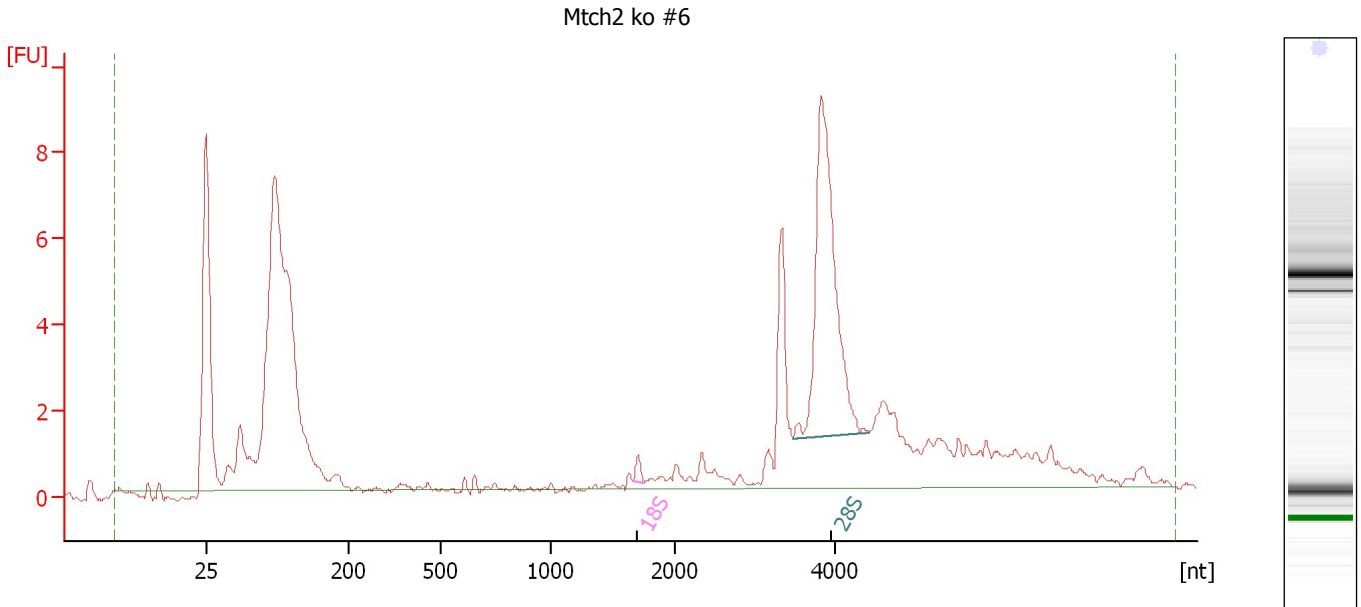
**Fragment table for sample 11 : Mtch2 ko #5**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	2,671	3,060	4.8	10.7

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-15\2017-11-15\_001.xad

Created: 11/15/2017 3:44:33 PM  
 Modified: 11/15/2017 4:10:06 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : Mtch2 ko #6**

RNA Area:	91.4	RNA Integrity Number (RIN):	5.2 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	67 ng/µl		
rRNA Ratio [28s / 18s]:	39.9	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
		Result Flagging Label:	RIN: 5.20

**Fragment table for sample 12 : Mtch2 ko #6**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,654	1,740	0.4	0.4
28S	3,478	4,433	15.3	16.7



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-15\2017-11-15\_001.xad

Created: 11/15/2017 3:44:33 PM  
Modified: 11/15/2017 4:10:06 PM

**Gel Image**

