

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...pert\data\2016-06-28\2016-06-28\_002\_HiSeq559\_TotalRNAQC.xad

Created: 6/28/2016 12:49:59 PM  
Modified: 6/28/2016 1:51:16 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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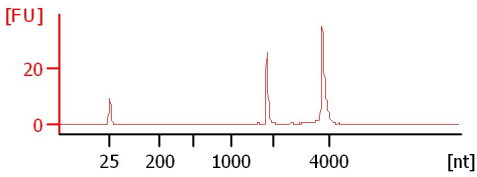
Chip Information:

Chip Lot #:

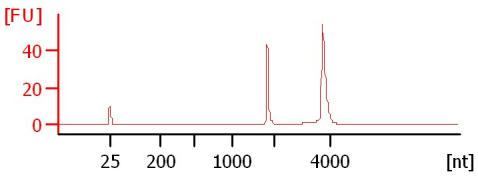
Reagent Kit Lot #:

Chip Comments:

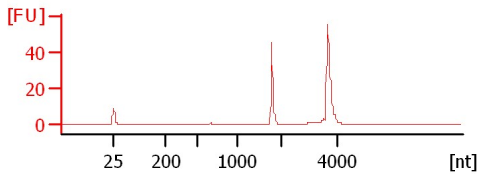
**PUC Nico 1**  
HiSeq\_559 Total RNA  
RIN:10



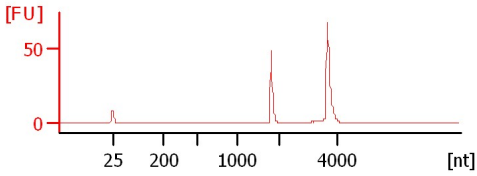
**PUC Nico 2**  
HiSeq\_559 Total RNA  
RIN:10



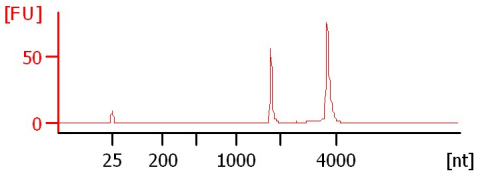
**PUC Nico 3**  
HiSeq\_559 Total RNA  
RIN:10



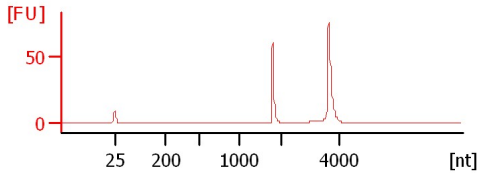
**PUC Nico 4**  
HiSeq\_559 Total RNA  
RIN:10



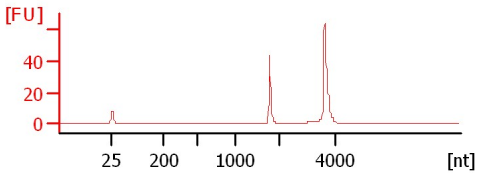
**PUC Nico 5**  
HiSeq\_559 Total RNA  
RIN:10



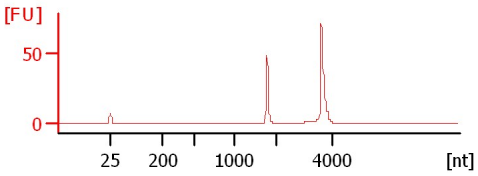
**PUC Nico 6**  
HiSeq\_559 Total RNA  
RIN:10



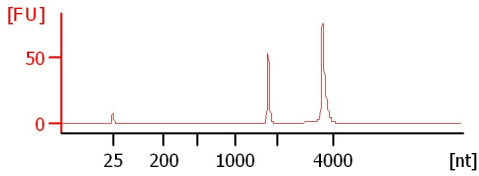
**PUC Nico 7**  
HiSeq\_559 Total RNA  
RIN:10



**PUC Nico 8**  
HiSeq\_559 Total RNA  
RIN:10



**PUC Nico 9**  
HiSeq\_559 Total RNA  
RIN:10



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

Sample Name	Sample Comment	Status	Result Label	Result Color
PUC Nico 1	HiSeq_559 Total RNA	✓	RIN:10	
PUC Nico 2	HiSeq_559 Total RNA	✓	RIN:10	
PUC Nico 3	HiSeq_559 Total RNA	✓	RIN:10	
PUC Nico 4	HiSeq_559 Total RNA	✓	RIN:10	
PUC Nico 5	HiSeq_559 Total RNA	✓	RIN:10	
PUC Nico 6	HiSeq_559 Total RNA	✓	RIN:10	
PUC Nico 7	HiSeq_559 Total RNA	✓	RIN:10	
PUC Nico 8	HiSeq_559 Total RNA	✓	RIN:10	
PUC Nico 9	HiSeq_559 Total RNA	✓	RIN:10	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
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## 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

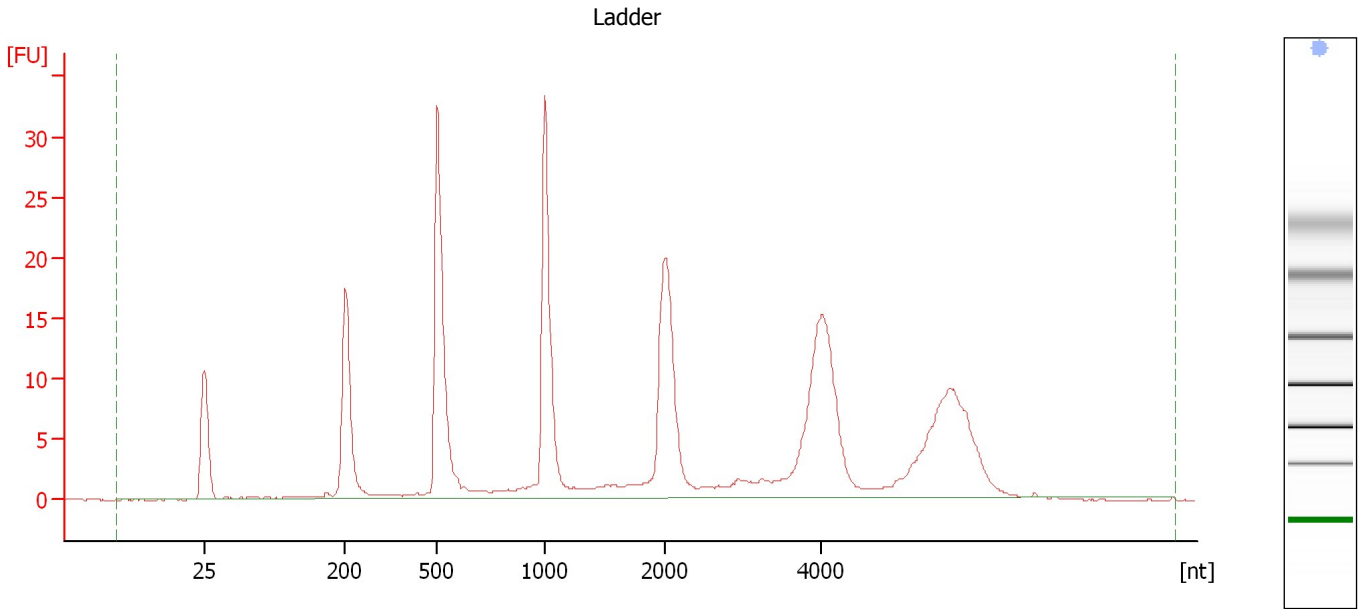
### Ladder

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

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**Electropherogram Summary**



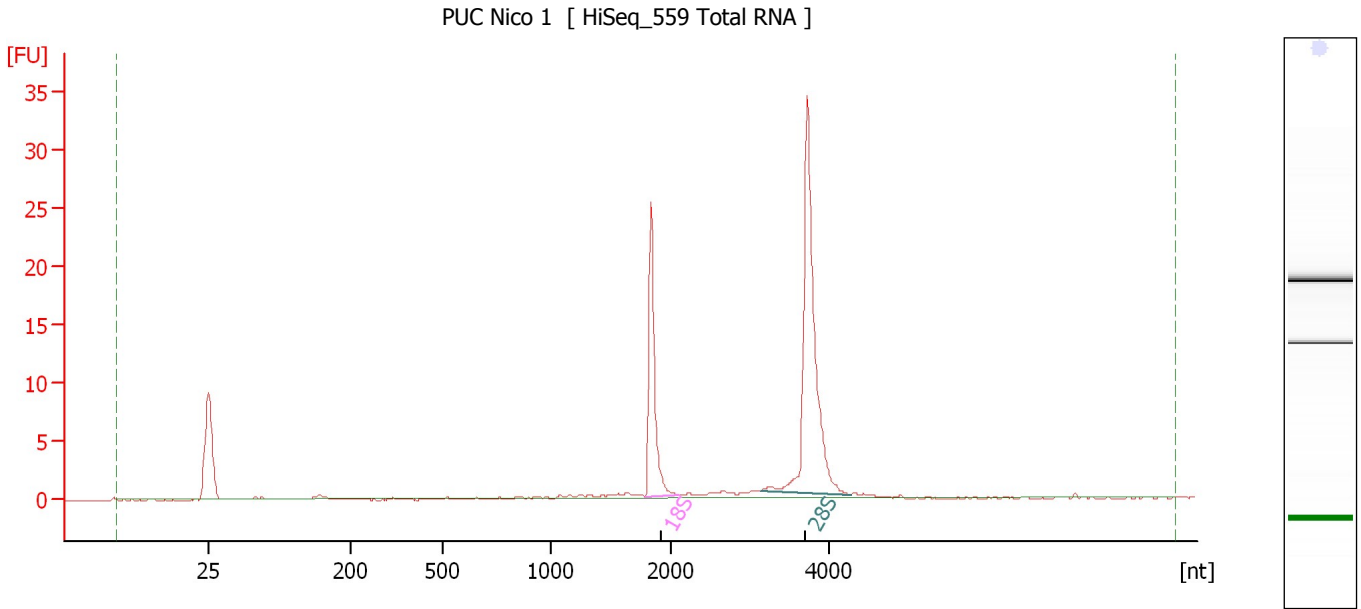
**Overall Results for Ladder**

RNA Area:	261.7	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:\...pert\data\2016-06-28\2016-06-28\_002\_HiSeq559\_TotalRNAQC.xad

Created: 6/28/2016 12:49:59 PM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : PUC Nico 1**

RNA Area:	68.0	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	39 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]:	2.0	Result Flagging Label:	RIN:10

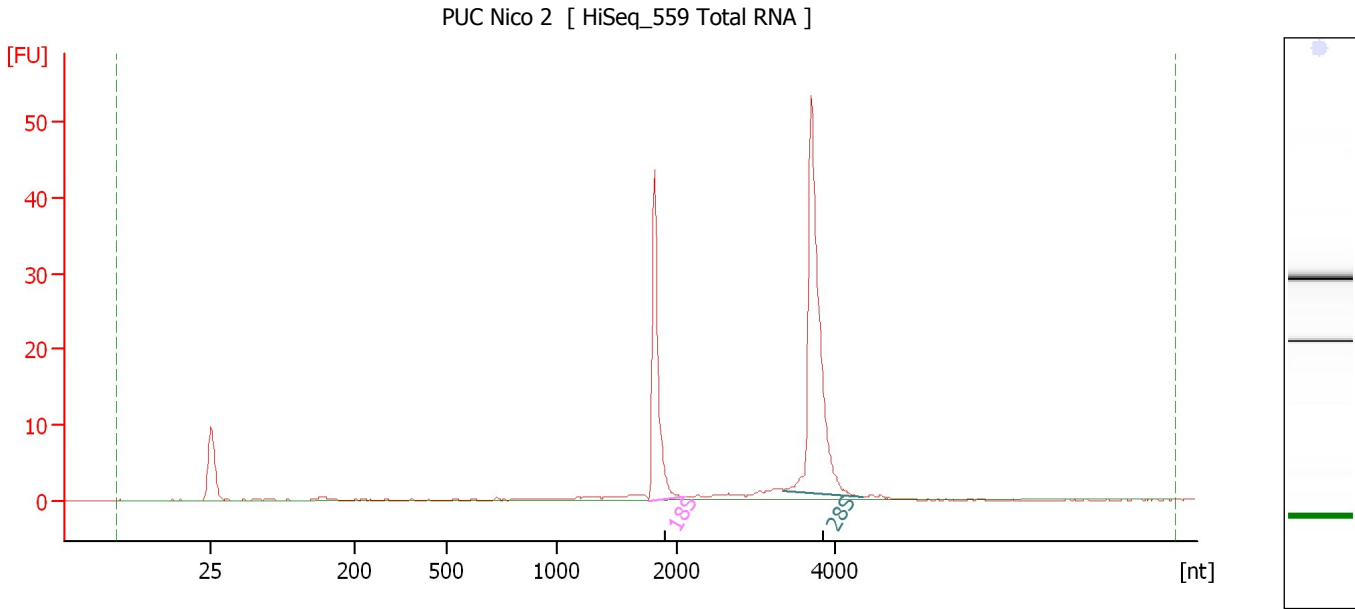
**Fragment table for sample 1 : PUC Nico 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,780	2,098	18.4	27.1
28S	3,133	4,290	37.6	55.4

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...pert\data\2016-06-28\2016-06-28\_002\_HiSeq559\_TotalRNAQC.xad

Created: 6/28/2016 12:49:59 PM  
 Modified: 6/28/2016 1:51:16 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : PUC Nico 2**

RNA Area:	115.9	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	66 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:10

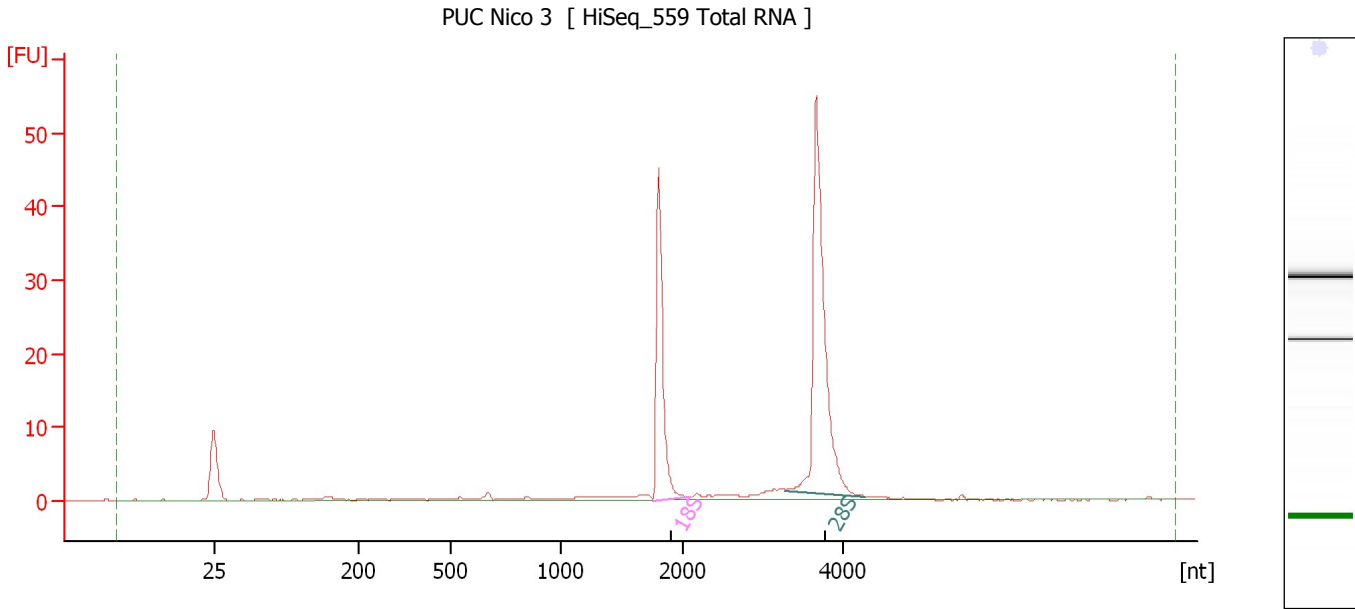
**Fragment table for sample 2 : PUC Nico 2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,766	2,074	32.0	27.6
28S	3,346	4,347	59.8	51.6

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...pert\data\2016-06-28\2016-06-28\_002\_HiSeq559\_TotalRNAQC.xad

Created: 6/28/2016 12:49:59 PM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : PUC Nico 3**

RNA Area: 118.7      RNA Integrity Number (RIN): 10 (B.02.08)  
RNA Concentration: 68 ng/μl      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.8      Result Flagging Label: RIN:10

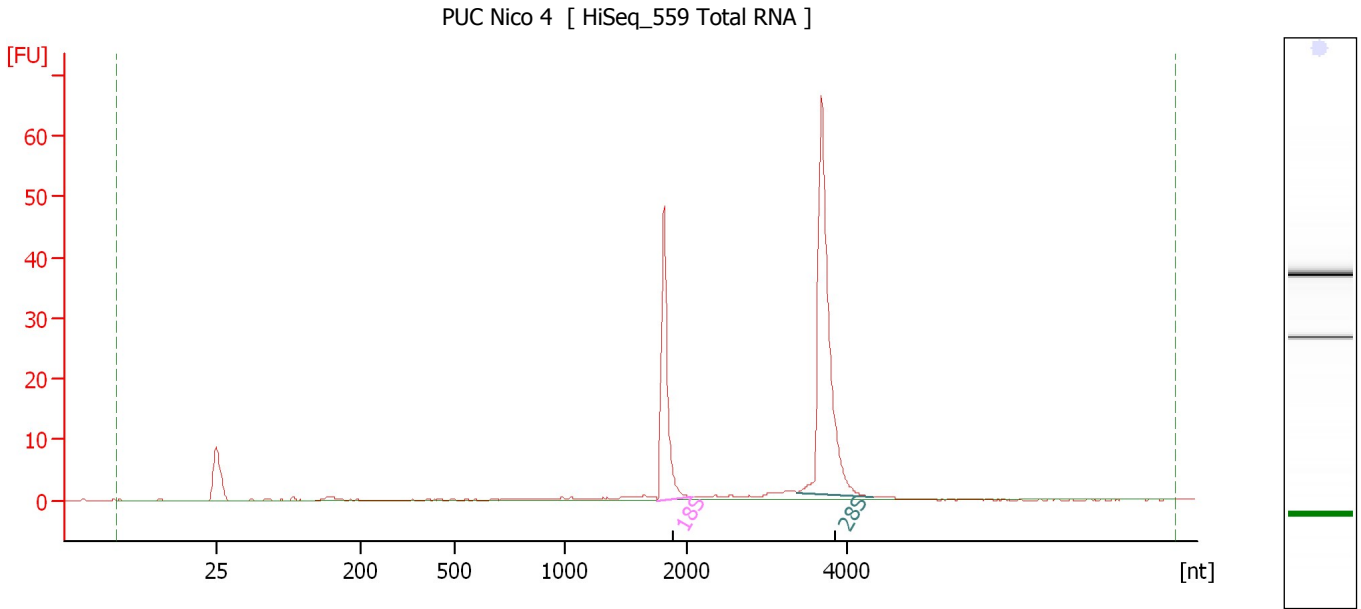
**Fragment table for sample 3 : PUC Nico 3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,752	2,064	33.1	27.9
28S	3,287	4,282	60.2	50.7

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...pert\data\2016-06-28\2016-06-28\_002\_HiSeq559\_TotalRNAQC.xad

Created: 6/28/2016 12:49:59 PM  
 Modified: 6/28/2016 1:51:16 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : PUC Nico 4**

RNA Area:	124.9	RNA Integrity Number (RIN):	10 (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]:	2.0	Result Flagging Label:	RIN:10

**Fragment table for sample 4 : PUC Nico 4**

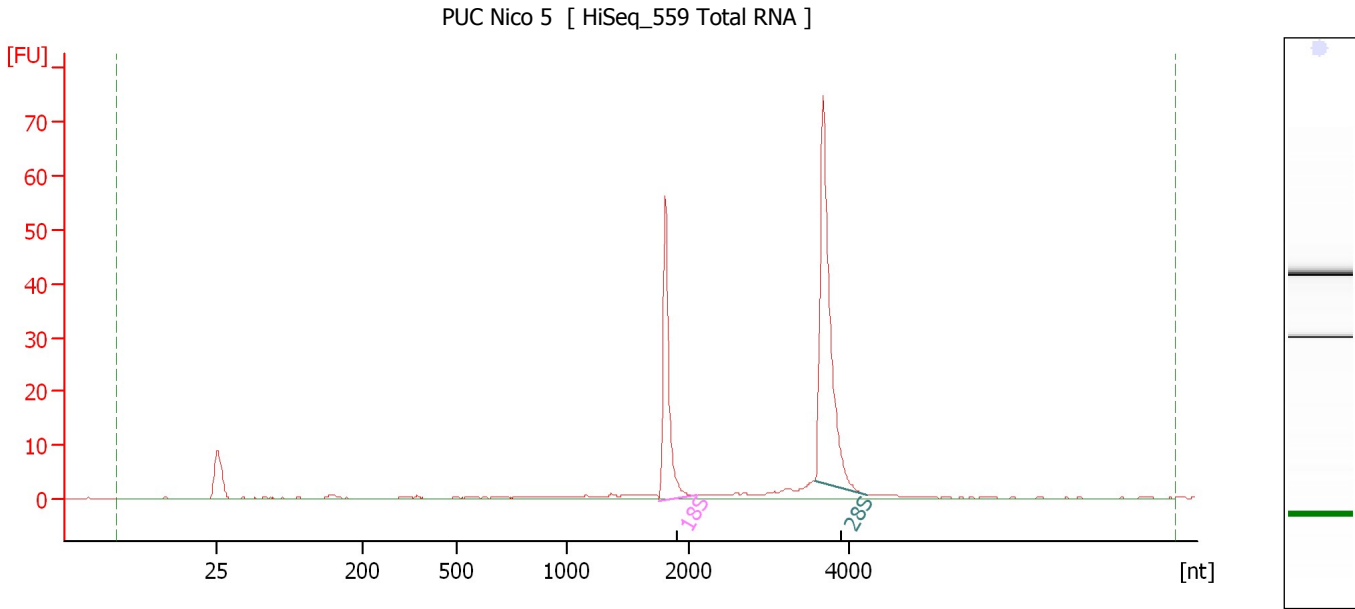
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,755	2,052	35.5	28.4
28S	3,378	4,315	70.3	56.3



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...pert\data\2016-06-28\2016-06-28\_002\_HiSeq559\_TotalRNAQC.xad

Created: 6/28/2016 12:49:59 PM  
 Modified: 6/28/2016 1:51:16 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : PUC Nico 5**

RNA Area:	149.0	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	85 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]:	1.8	Result Flagging Label:	RIN:10

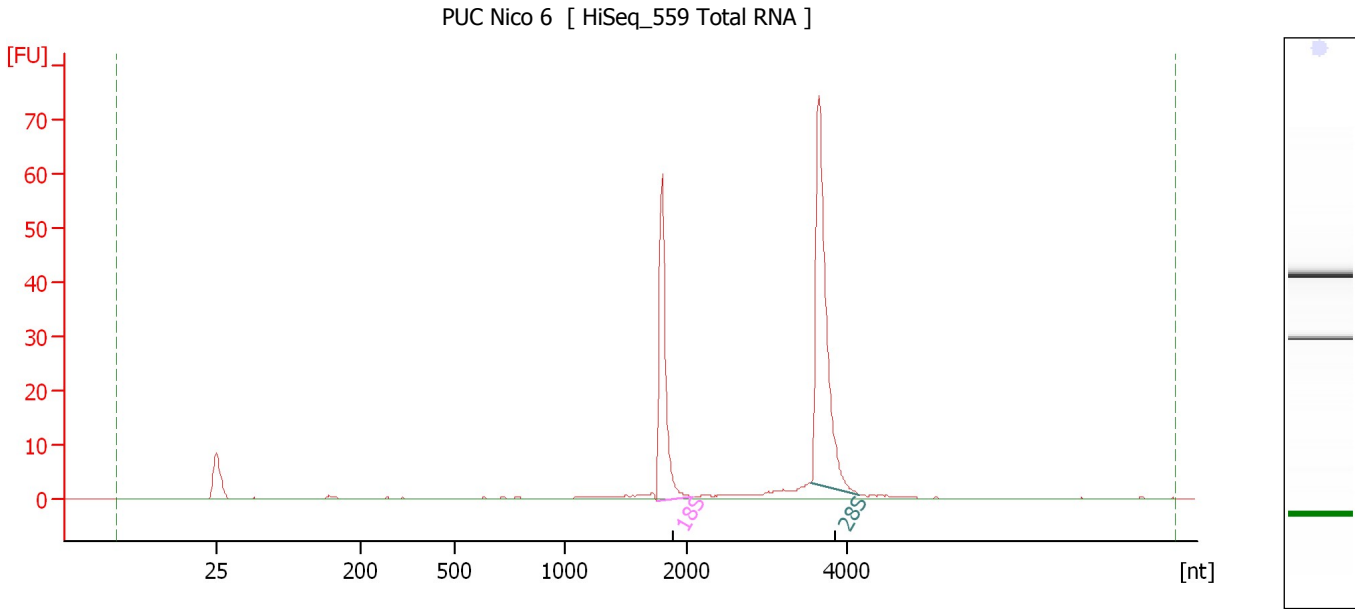
**Fragment table for sample 5 : PUC Nico 5**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,756	2,094	41.0	27.5
28S	3,576	4,204	72.8	48.9

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...pert\data\2016-06-28\2016-06-28\_002\_HiSeq559\_TotalRNAQC.xad

Created: 6/28/2016 12:49:59 PM  
 Modified: 6/28/2016 1:51:16 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : PUC Nico 6**

RNA Area:	150.1	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	86 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]:	1.7	Result Flagging Label:	RIN:10

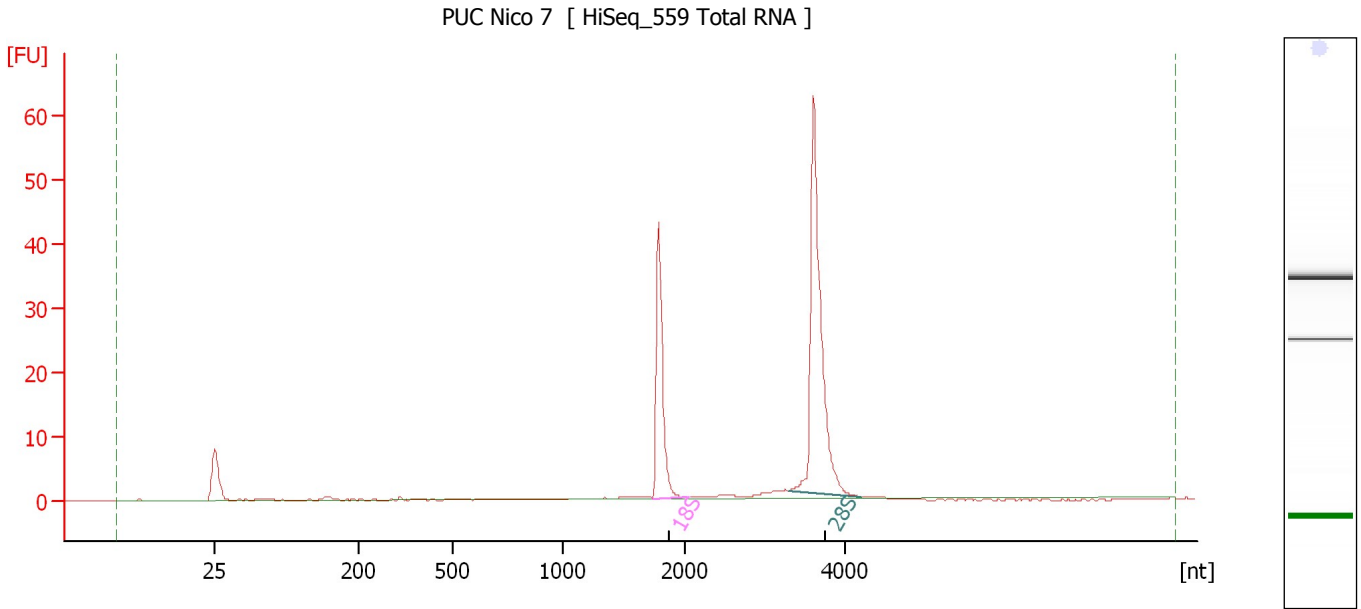
**Fragment table for sample 6 : PUC Nico 6**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,746	2,052	43.8	29.2
28S	3,552	4,154	73.3	48.8

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...pert\data\2016-06-28\2016-06-28\_002\_HiSeq559\_TotalRNAQC.xad

Created: 6/28/2016 12:49:59 PM  
 Modified: 6/28/2016 1:51:16 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : PUC Nico 7**

RNA Area:	115.6	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	66 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]:	2.1	Result Flagging Label:	RIN:10

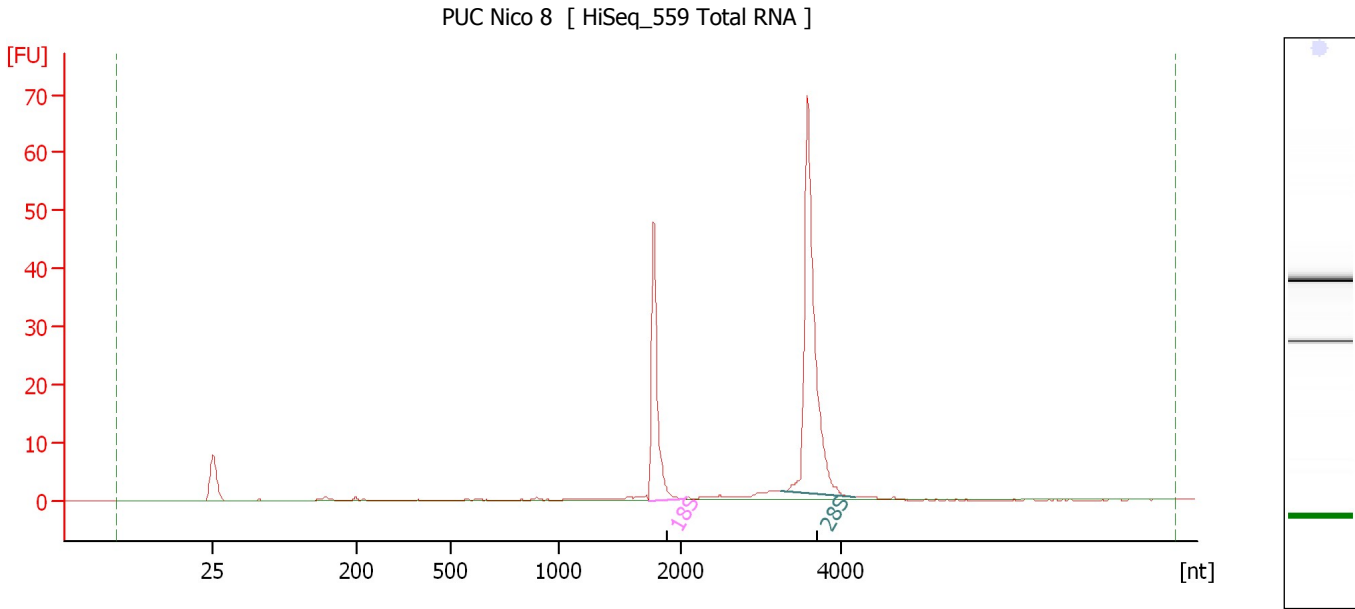
**Fragment table for sample 7 : PUC Nico 7**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,736	2,011	30.9	26.7
28S	3,286	4,211	64.4	55.7

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...pert\data\2016-06-28\2016-06-28\_002\_HiSeq559\_TotalRNAQC.xad

Created: 6/28/2016 12:49:59 PM  
 Modified: 6/28/2016 1:51:16 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : PUC Nico 8**

RNA Area:	127.1	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	73 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]:	2.1	Result Flagging Label:	RIN:10

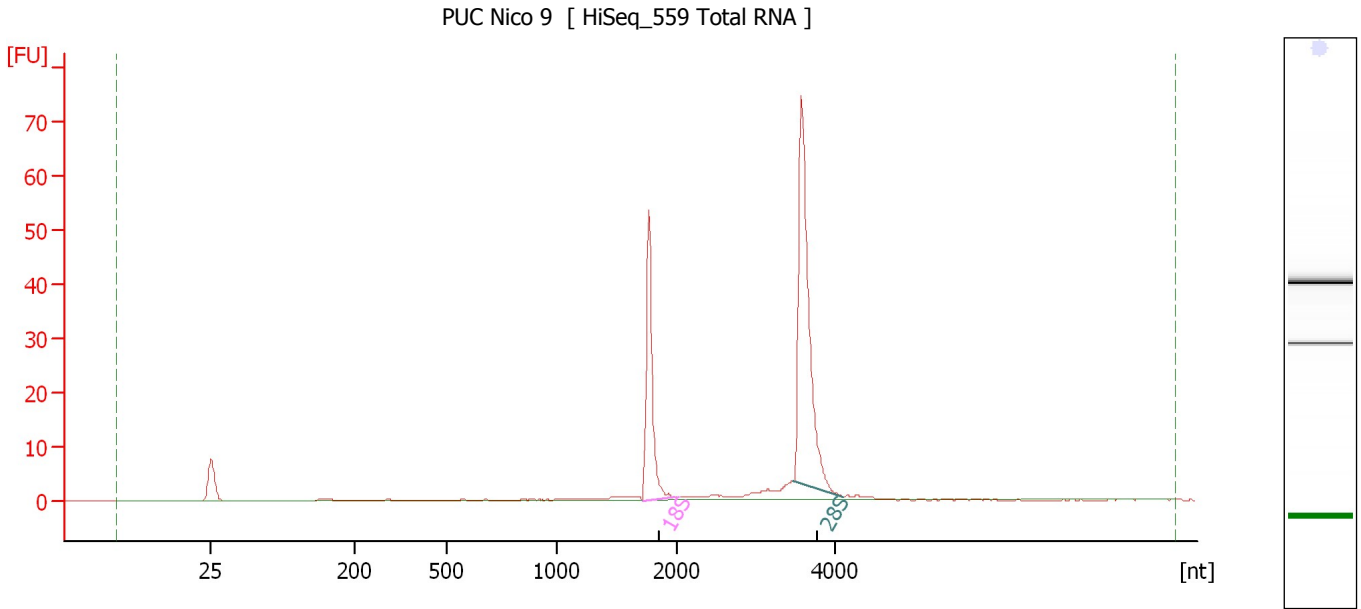
**Fragment table for sample 8 : PUC Nico 8**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,725	2,036	34.9	27.4
28S	3,248	4,178	72.1	56.8

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...pert\data\2016-06-28\2016-06-28\_002\_HiSeq559\_TotalRNAQC.xad

Created: 6/28/2016 12:49:59 PM  
 Modified: 6/28/2016 1:51:16 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : PUC Nico 9**

RNA Area:	143.3	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	82 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:10

**Fragment table for sample 9 : PUC Nico 9**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,713	1,978	39.5	27.6
28S	3,467	4,090	73.5	51.3

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...pert\data\2016-06-28\2016-06-28\_002\_HiSeq559\_TotalRNAQC.xad

Created: 6/28/2016 12:49:59 PM  
Modified: 6/28/2016 1:51:16 PM

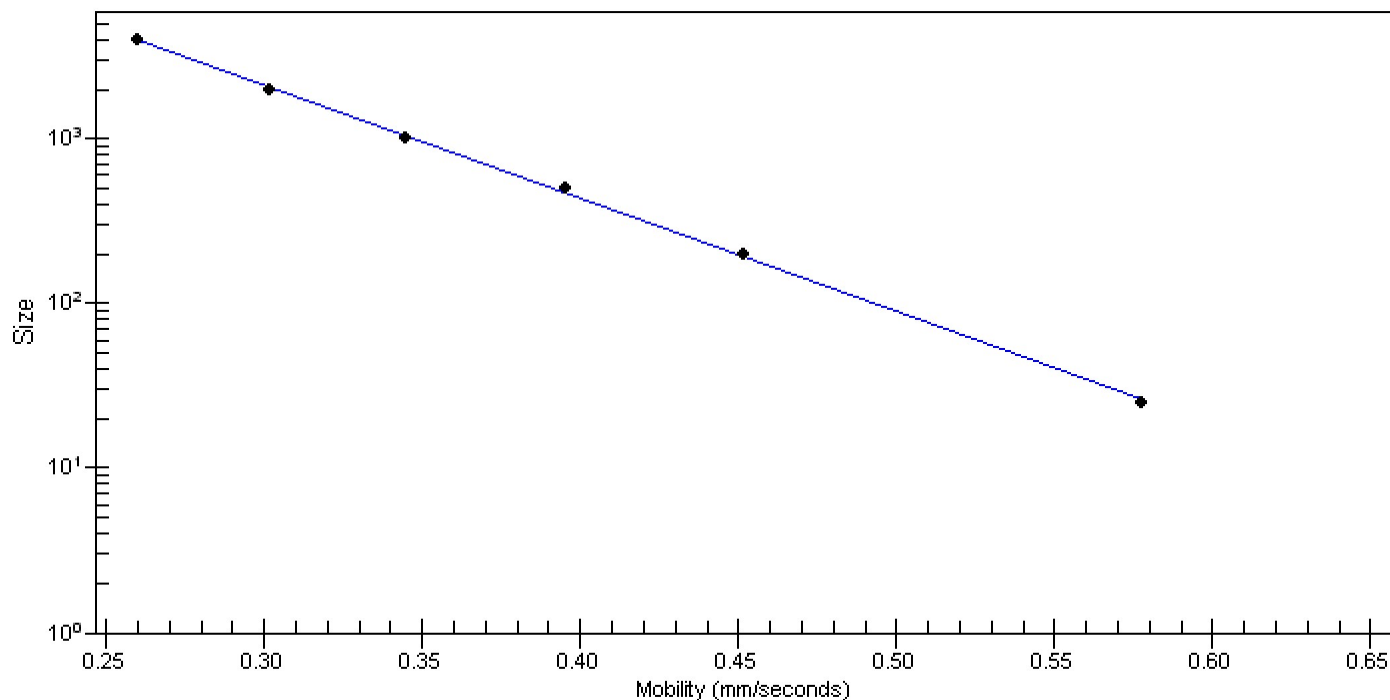
**Gel Image**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...pert\data\2016-06-28\2016-06-28\_002\_HiSeq559\_TotalRNAQC.xad

Created: 6/28/2016 12:49:59 PM  
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**Curves**

**Standard Curve**



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...pert\data\2016-06-28\2016-06-28\_002\_HiSeq559\_TotalRNAQC.xad

Created: 6/28/2016 12:49:59 PM  
 Modified: 6/28/2016 1:51:16 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		6/28/2016 1:13:45 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\2016-06-28\2016-06-28_002.xad)		Instrument	Run		6/28/2016 12:50:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/28/2016 12:50:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/28/2016 12:50:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/28/2016 12:50:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/28/2016 12:50:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/28/2016 12:50:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/28/2016 12:50:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1