

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...expert\data\2016-03-29\2016-03-29\_003\_HiSeq456\_TotalRNA.xad

Created: 3/29/2016 12:24:45 PM  
Modified: 3/31/2016 9:16:48 AM

**Electrophoresis File Run Summary**

Instrument Information:

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

Assay Information:

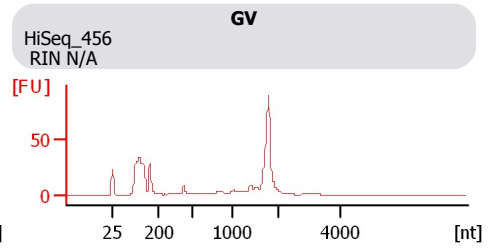
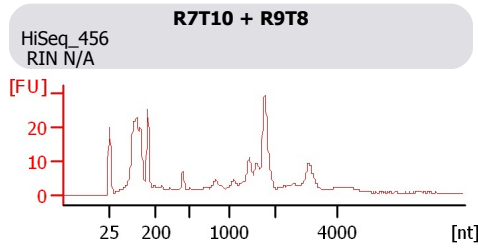
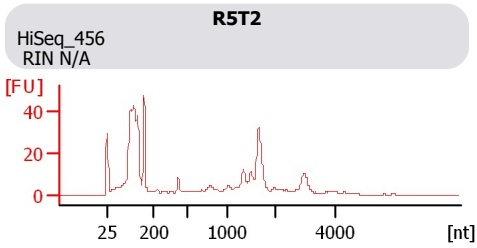
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100  
expert\assays\RNA\Eukaryote Total RNA Pico Series II.xsy

Assay Class: Eukaryote Total RNA Pico  
Version: 2.6  
Assay Comments: Total RNA Analysis pg sensitivity (Eukaryote)

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Chip Information:

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



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

Sample Name	Sample Comment	Status	Result Label	Result Color
R5T2	HiSeq_456	✓	RIN N/A	
R7T10 + R9T8	HiSeq_456	✓	RIN N/A	
GV	HiSeq_456	✓	RIN N/A	
Ladder		✓	All Other Samples	

**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.) : 12  
Minimum Visible Range [s] : 17  
Maximum Visible Range [s] : 70  
Start Analysis Time Range [s] : 18  
End Analysis Time Range [s] : 69  
Ladder Concentration [pg/ $\mu$ l] : 1000  
Lower Marker Concentration [pg/ $\mu$ l] : 0  
Upper Marker Concentration [pg/ $\mu$ l] : 0  
Used Lower Marker for Quantitation  
Standard Curve Fit is Logarithmic  
Show Data Aligned to Lower Marker

### Integrator Settings

Integration Start Time [s] : 18  
Integration End Time [s] : 69  
Slope Threshold : 0.6  
Height Threshold [FU] : 0.5  
Area Threshold : 0.2  
Width Threshold [s] : 0.3  
Baseline Plateau [s] : 6

### Filter Settings

Filter Width [s] : 0.5  
Polynomial Order : 4

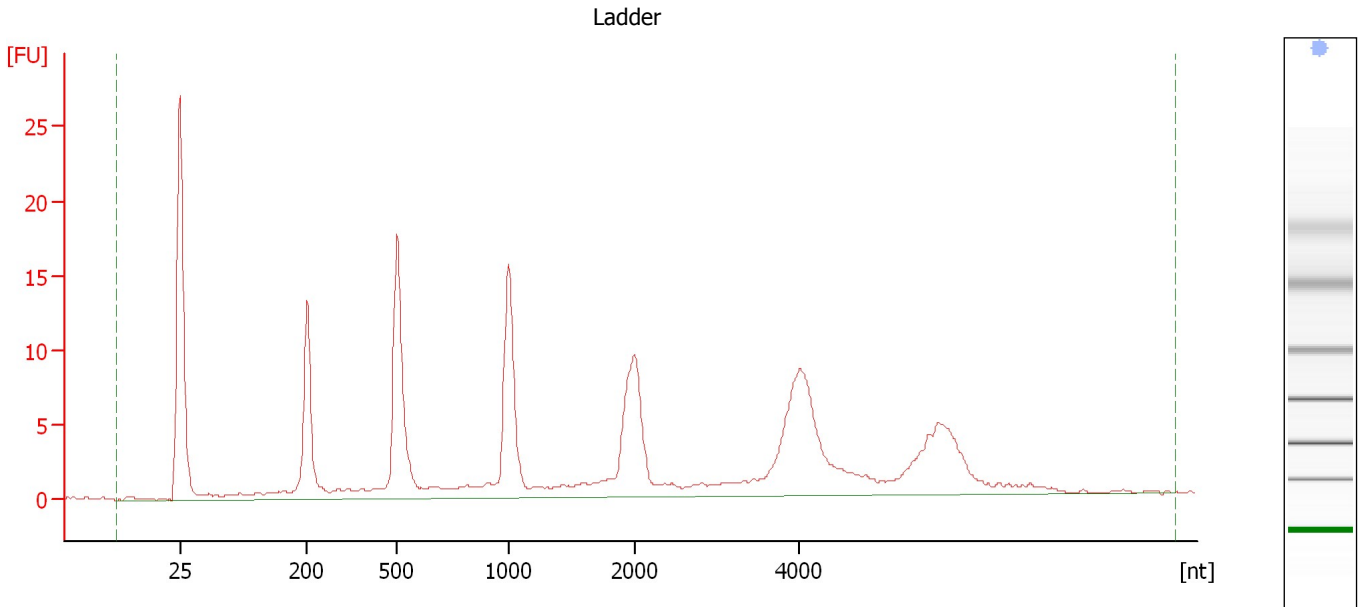
### Ladder

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

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**Electropherogram Summary**



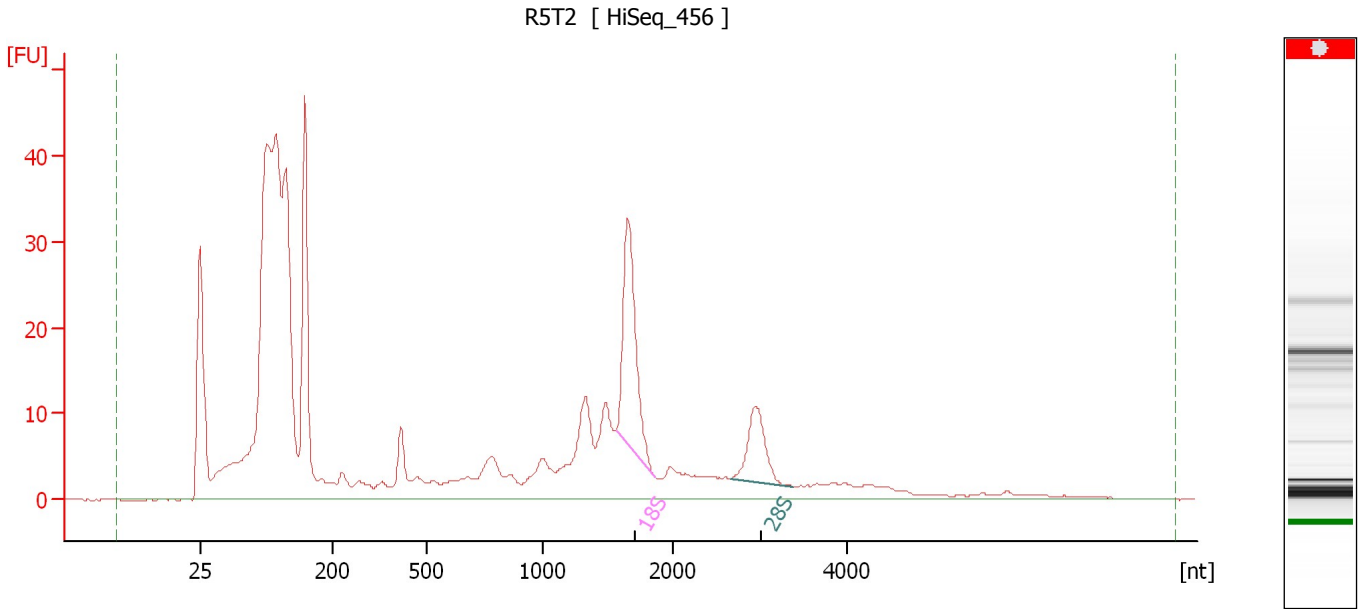
**Overall Results for Ladder**

RNA Area:	186.3	Result Flagging Color:	<span style="background-color: #ADD8E6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : R5T2**

RNA Area:	576.3	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	3,094 pg/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.4	Result Flagging Label:	RIN N/A

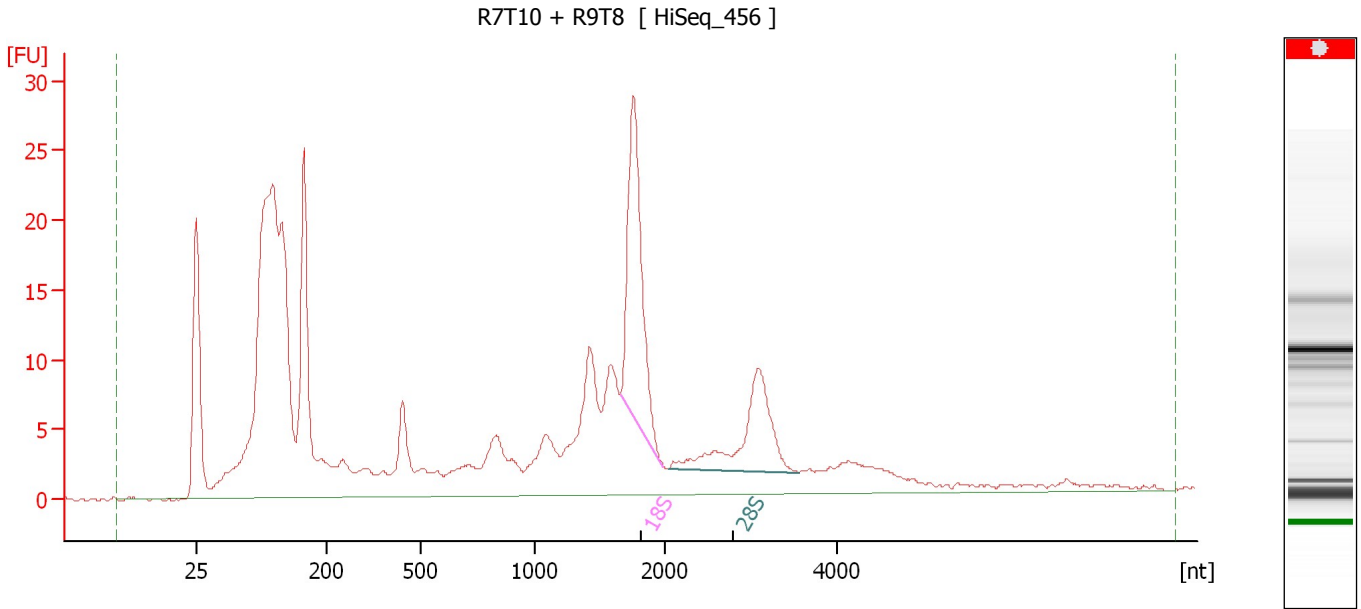
**Fragment table for sample 5 : R5T2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,561	1,853	40.8	7.1
28S	2,656	3,386	16.7	2.9

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : R7T10 + R9T8**

RNA Area:	425.6	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	2,285 pg/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.6	Result Flagging Label:	RIN N/A

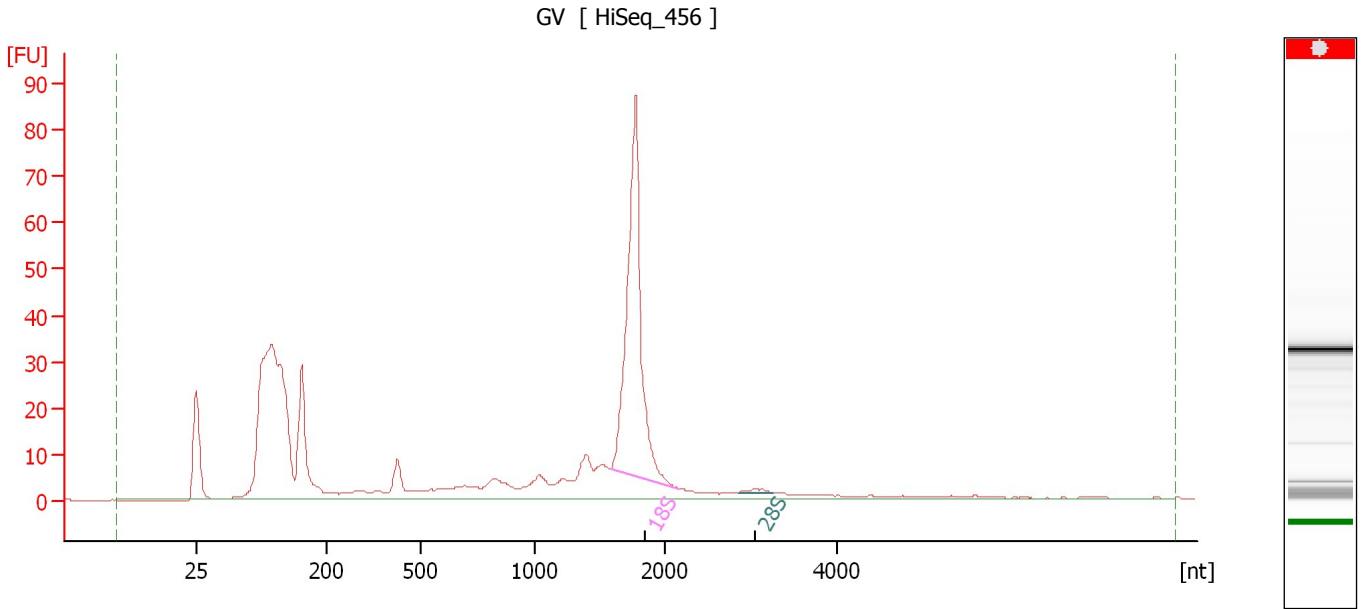
**Fragment table for sample 6 : R7T10 + R9T8**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,653	1,981	39.3	9.2
28S	2,034	3,558	23.9	5.6

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : GV**

RNA Area:	534.9	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	2,872 pg/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

**Fragment table for sample 7 : GV**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,580	2,147	136.6	25.5
28S	2,859	3,258	1.1	0.2

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**Gel Image**

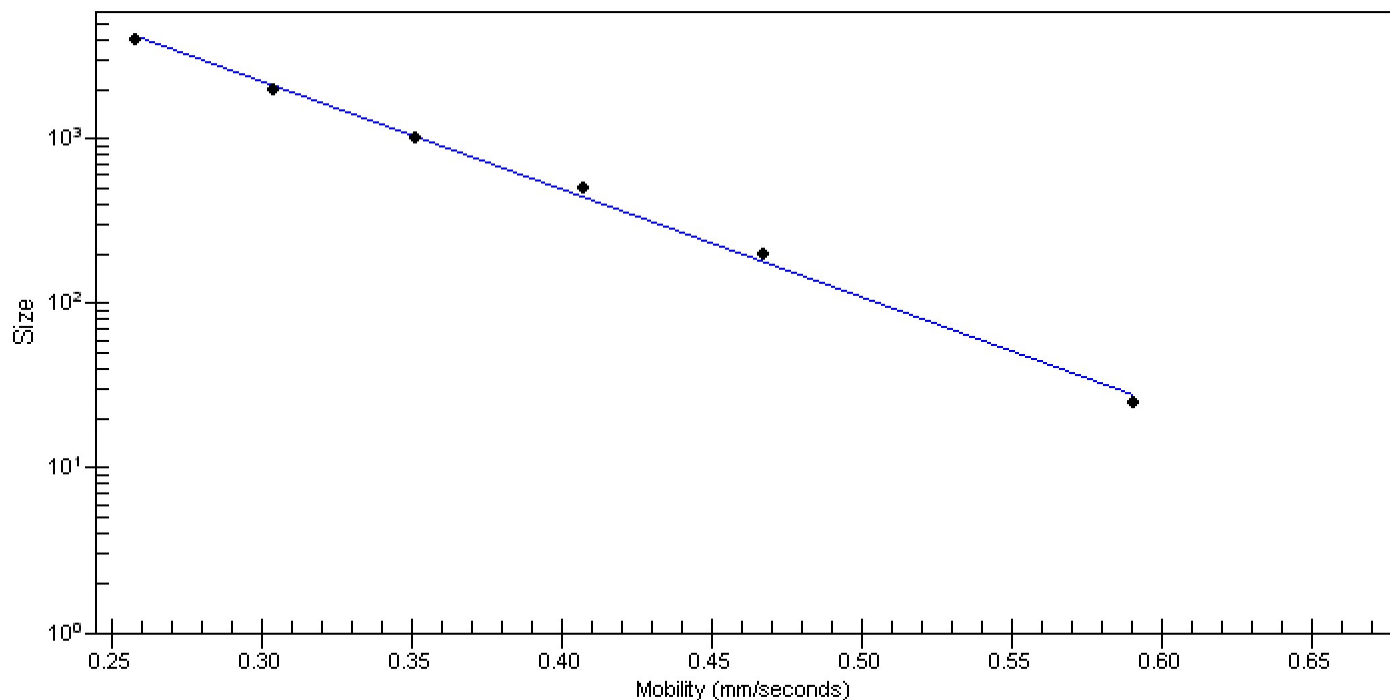


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**Curves**

**Standard Curve**



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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: 8)		Instrument	Run		3/29/2016 12:41:54 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\2016-03-29\2016-03-29_003.xad)		Instrument	Run		3/29/2016 12:24:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/29/2016 12:24:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/29/2016 12:24:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/29/2016 12:24:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/29/2016 12:24:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/29/2016 12:24:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/29/2016 12:24:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1