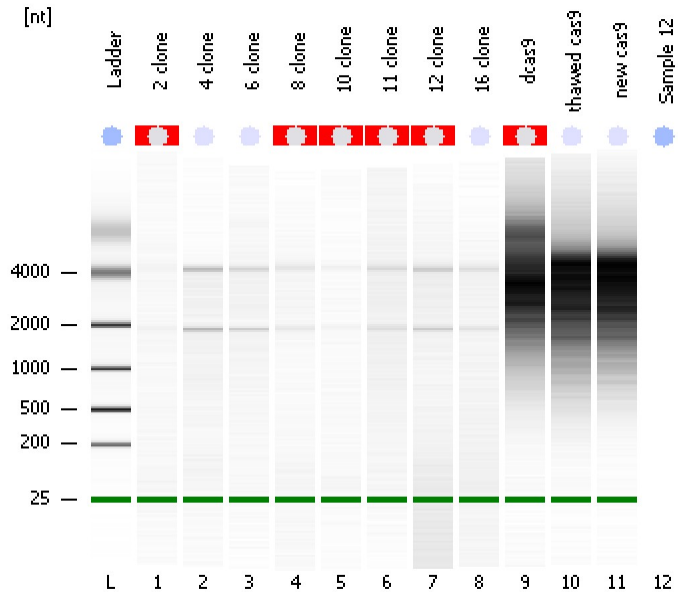


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-28\2015-01-28_001.xad

Created: 1/28/2015 9:41:54 AM
Modified: 1/28/2015 10:04:22 AM

Electrophoresis File Run Summary



Instrument Information:

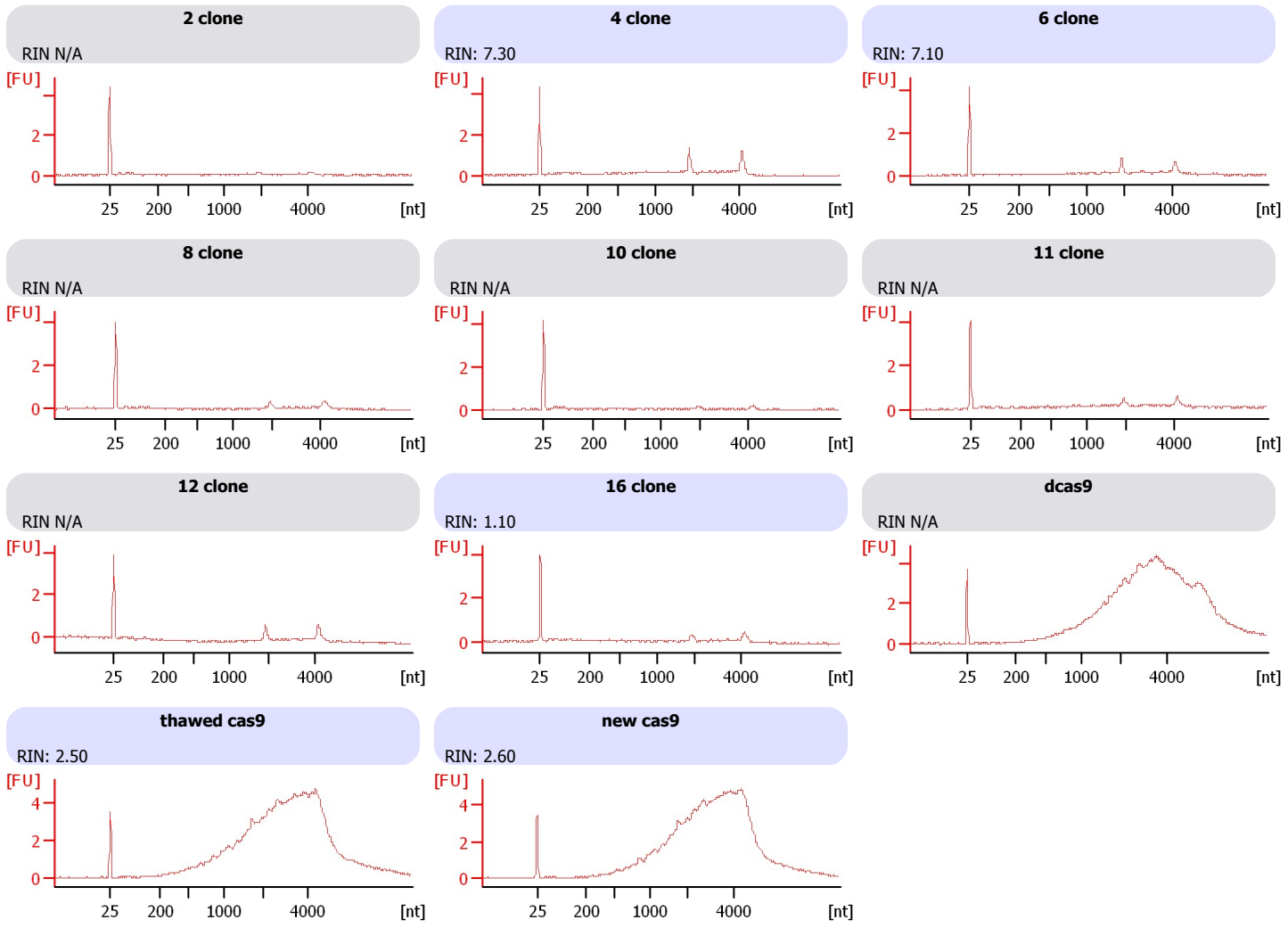
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA 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:



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-28\2015-01-28_001.xad

Created: 1/28/2015 9:41:54 AM
 Modified: 1/28/2015 10:04:22 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
2 clone		✓	RIN N/A	
4 clone		✓	RIN: 7.30	
6 clone		✓	RIN: 7.10	
8 clone		✓	RIN N/A	
10 clone		✓	RIN N/A	
11 clone		✓	RIN N/A	
12 clone		✓	RIN N/A	
16 clone		✓	RIN: 1.10	
dcas9		✓	RIN N/A	
thawed cas9		✓	RIN: 2.50	
new cas9		✓	RIN: 2.60	
Sample 12				
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-28\2015-01-28_001.xad

Created: 1/28/2015 9:41:54 AM
Modified: 1/28/2015 10:04:22 AM

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

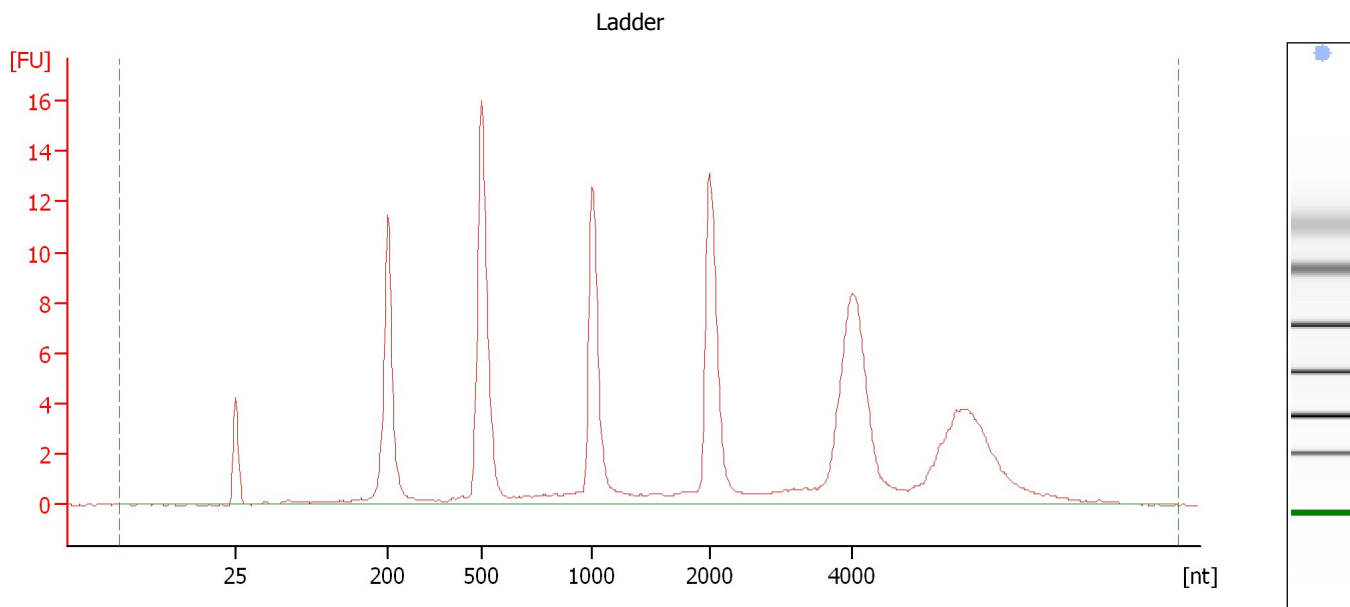
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-28\2015-01-28_001.xad

Created: 1/28/2015 9:41:54 AM
Modified: 1/28/2015 10:04:22 AM

Electropherogram Summary



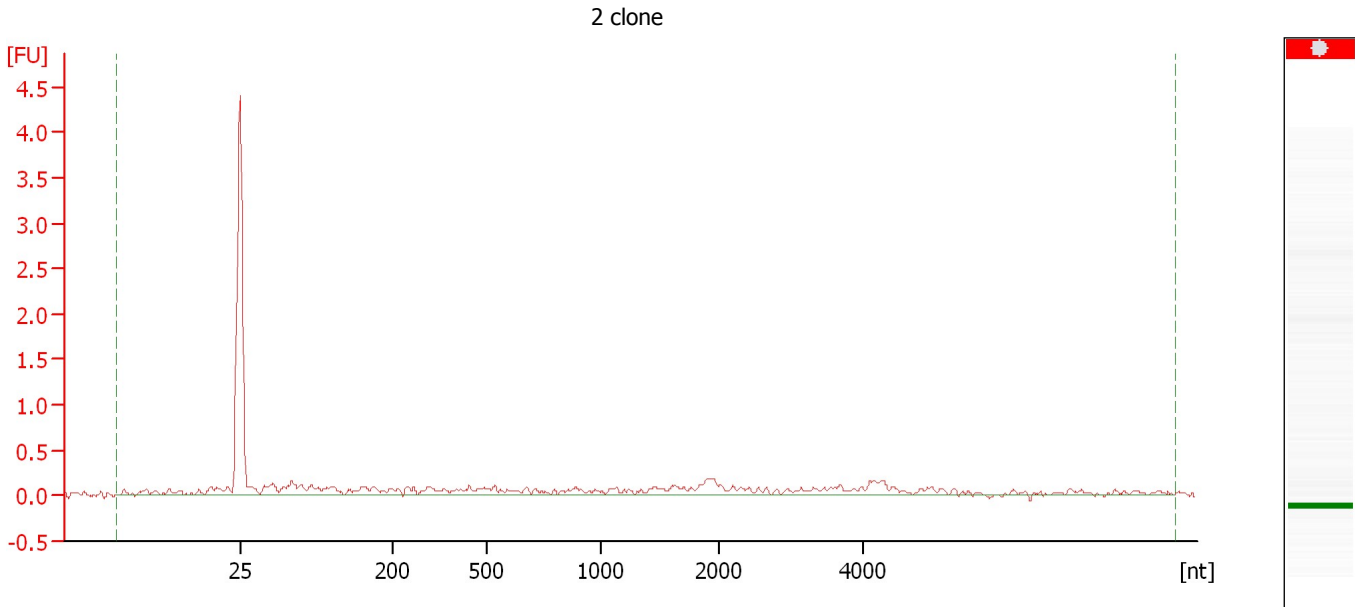
Overall Results for Ladder

RNA Area:	134.0	Result Flagging Color:	
RNA Concentration:	150 ng/ μ l	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-28\2015-01-28_001.xad

Created: 1/28/2015 9:41:54 AM
Modified: 1/28/2015 10:04:22 AM

Electropherogram Summary Continued ...



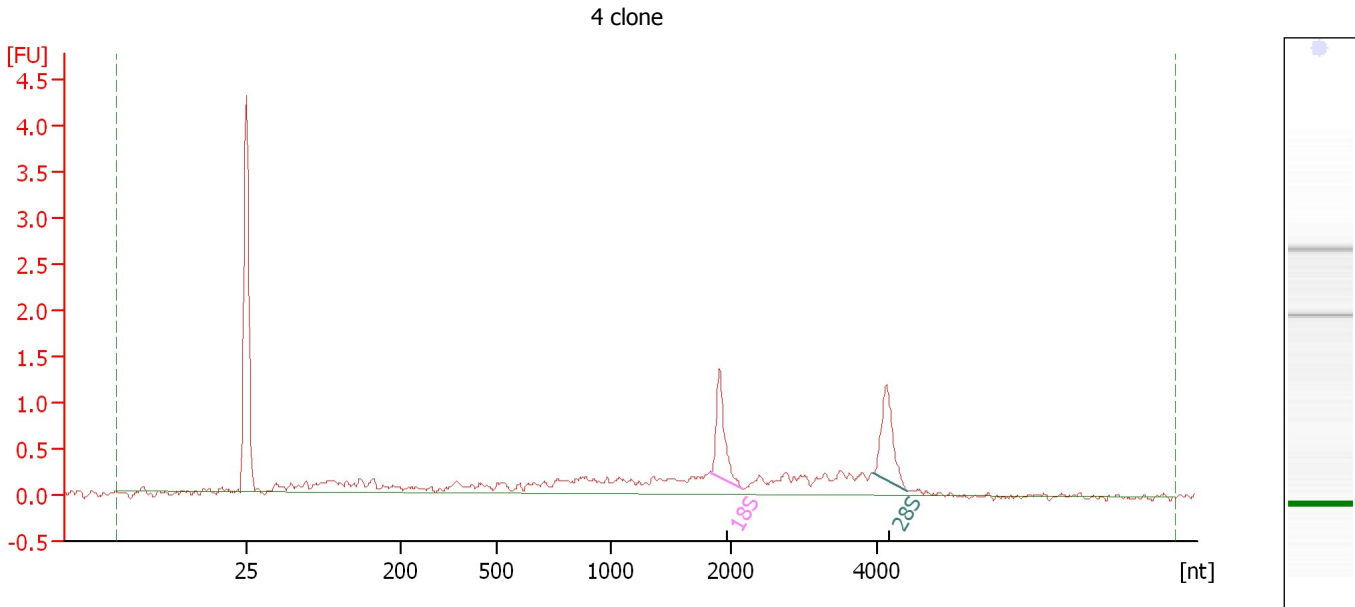
Overall Results for sample 1 : 2 clone

RNA Area:	6.2	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	7 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-28\2015-01-28_001.xad

Created: 1/28/2015 9:41:54 AM
Modified: 1/28/2015 10:04:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 4 clone

RNA Area: 10.9 RNA Integrity Number (RIN): 7.3 (B.02.08)
RNA Concentration: 12 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.1 Result Flagging Label: RIN: 7.30

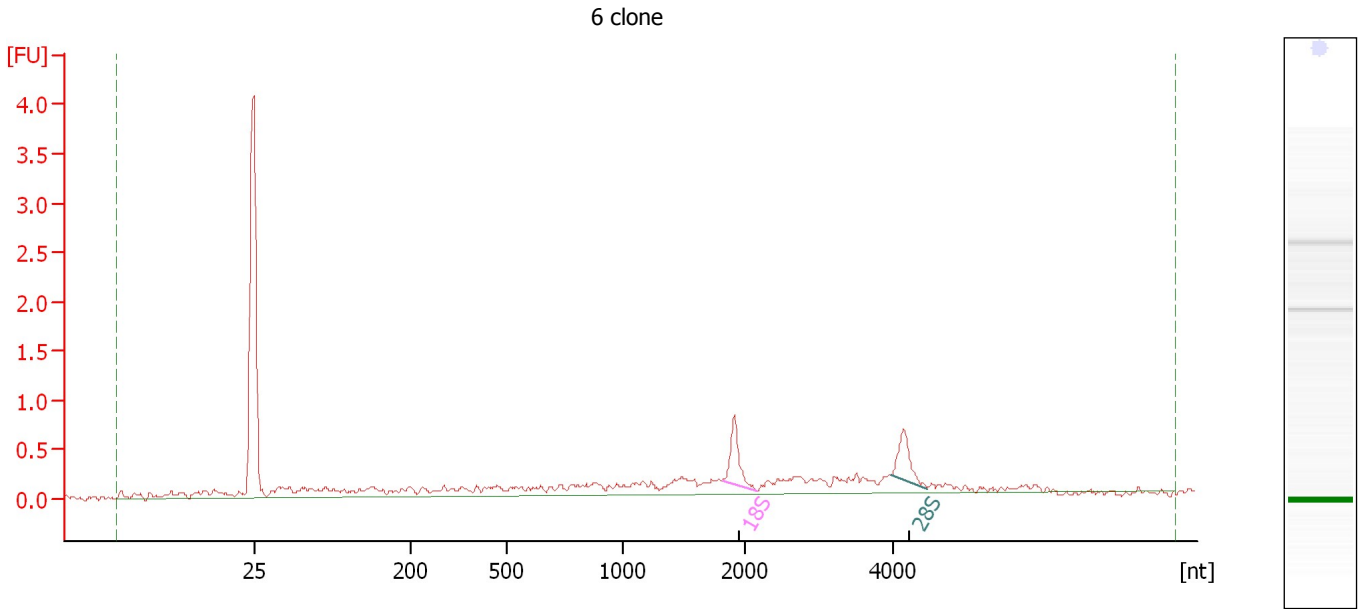
Fragment table for sample 2 : 4 clone

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,834	2,165	1.1	10.1
28S	3,928	4,409	1.2	10.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-28\2015-01-28_001.xad

Created: 1/28/2015 9:41:54 AM
Modified: 1/28/2015 10:04:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 6 clone

RNA Area: 9.5 RNA Integrity Number (RIN): 7.1 (B.02.08)
RNA Concentration: 11 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.8 Result Flagging Label: RIN: 7.10

Fragment table for sample 3 : 6 clone

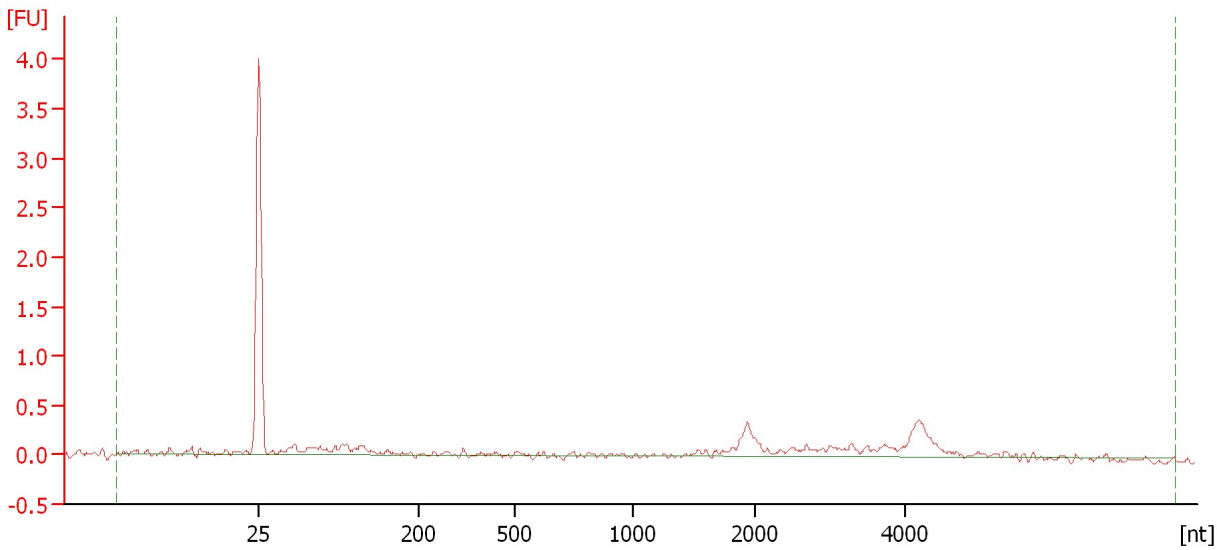
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,817	2,160	0.7	7.2
28S	3,957	4,446	0.6	6.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-28\2015-01-28_001.xad

Created: 1/28/2015 9:41:54 AM
Modified: 1/28/2015 10:04:22 AM

Electropherogram Summary Continued ...

8 clone



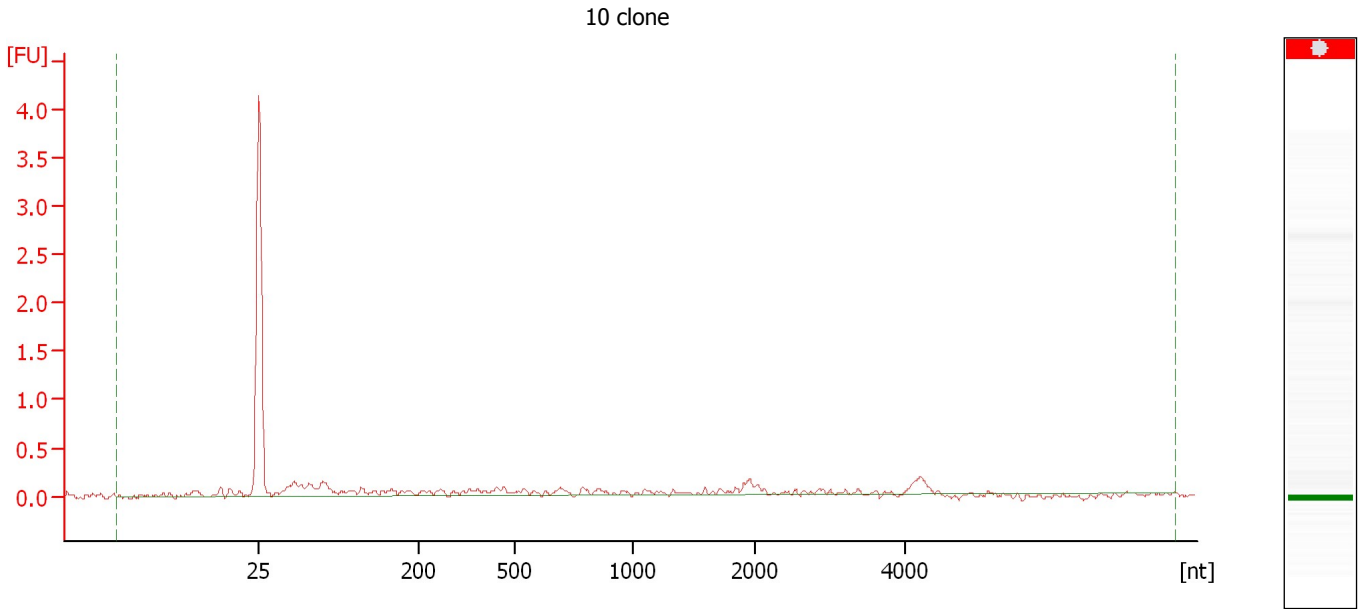
Overall Results for sample 4 : 8 clone

RNA Area:	4.8	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	5 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-28\2015-01-28_001.xad

Created: 1/28/2015 9:41:54 AM
Modified: 1/28/2015 10:04:22 AM

Electropherogram Summary Continued ...



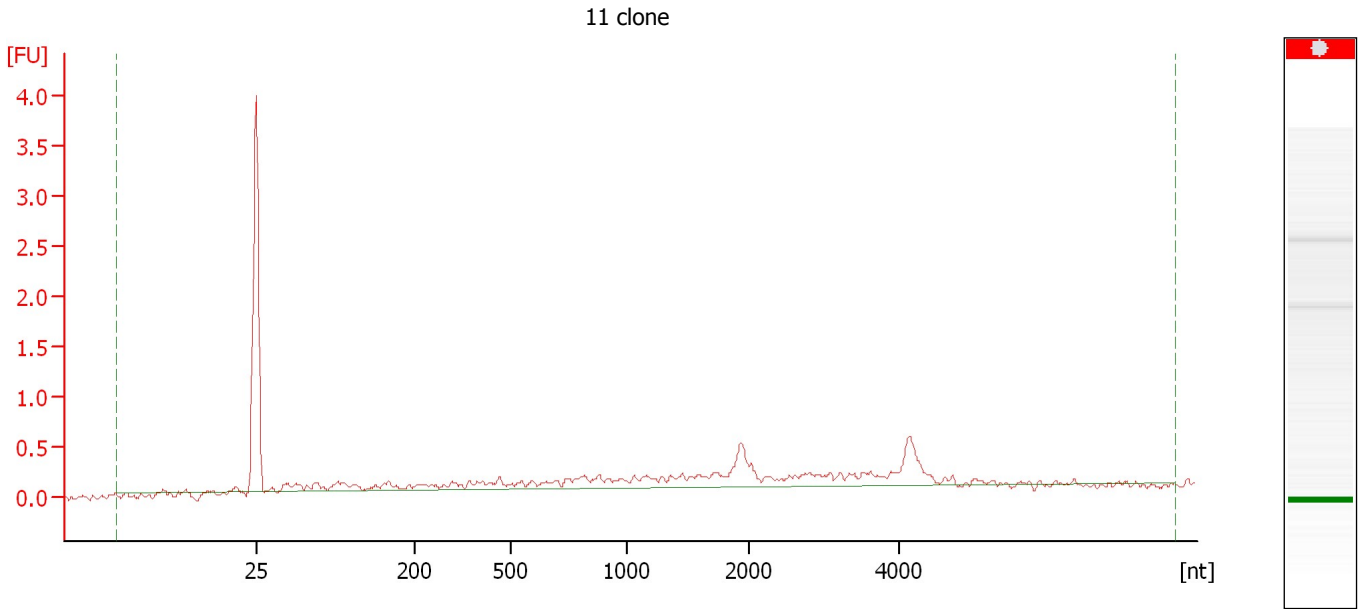
Overall Results for sample 5 : 10 clone

RNA Area:	3.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	4 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-28\2015-01-28_001.xad

Created: 1/28/2015 9:41:54 AM
Modified: 1/28/2015 10:04:22 AM

Electropherogram Summary Continued ...



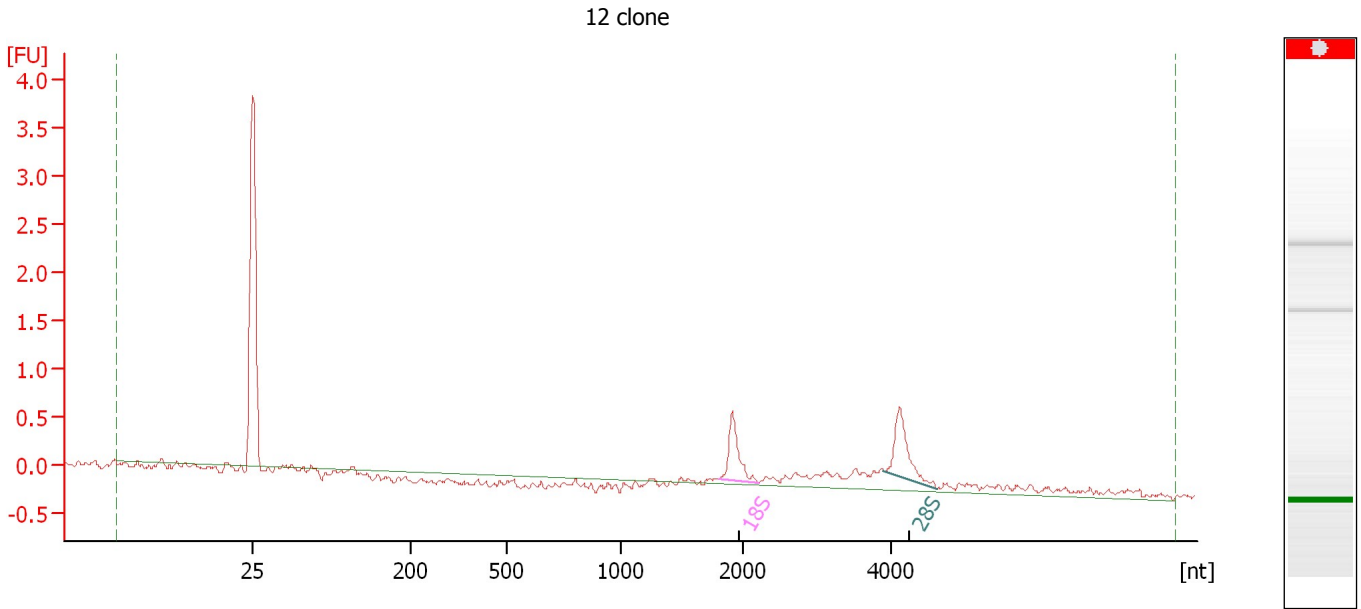
Overall Results for sample 6 : 11 clone

RNA Area:	7.5	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	8 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-28\2015-01-28_001.xad

Created: 1/28/2015 9:41:54 AM
Modified: 1/28/2015 10:04:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 12 clone

RNA Area:	4.9	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	6 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN N/A

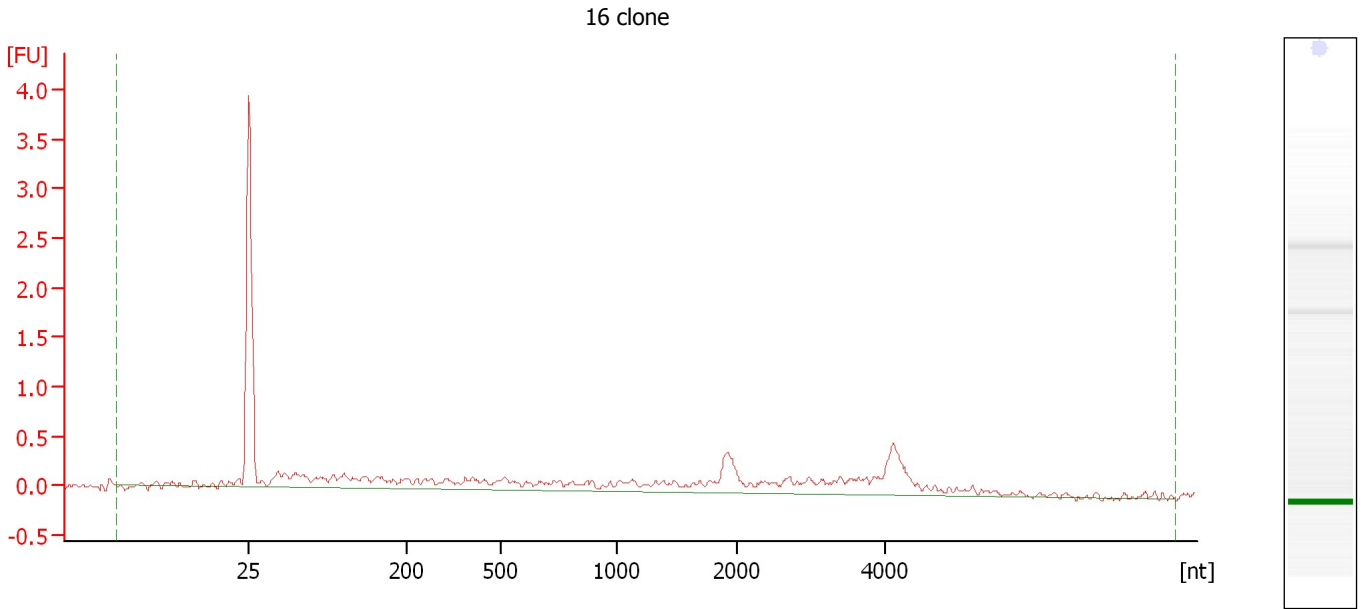
Fragment table for sample 7 : 12 clone

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,807	2,216	0.8	15.9
28S	3,887	4,622	0.9	18.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-28\2015-01-28_001.xad

Created: 1/28/2015 9:41:54 AM
Modified: 1/28/2015 10:04:22 AM

Electropherogram Summary Continued ...



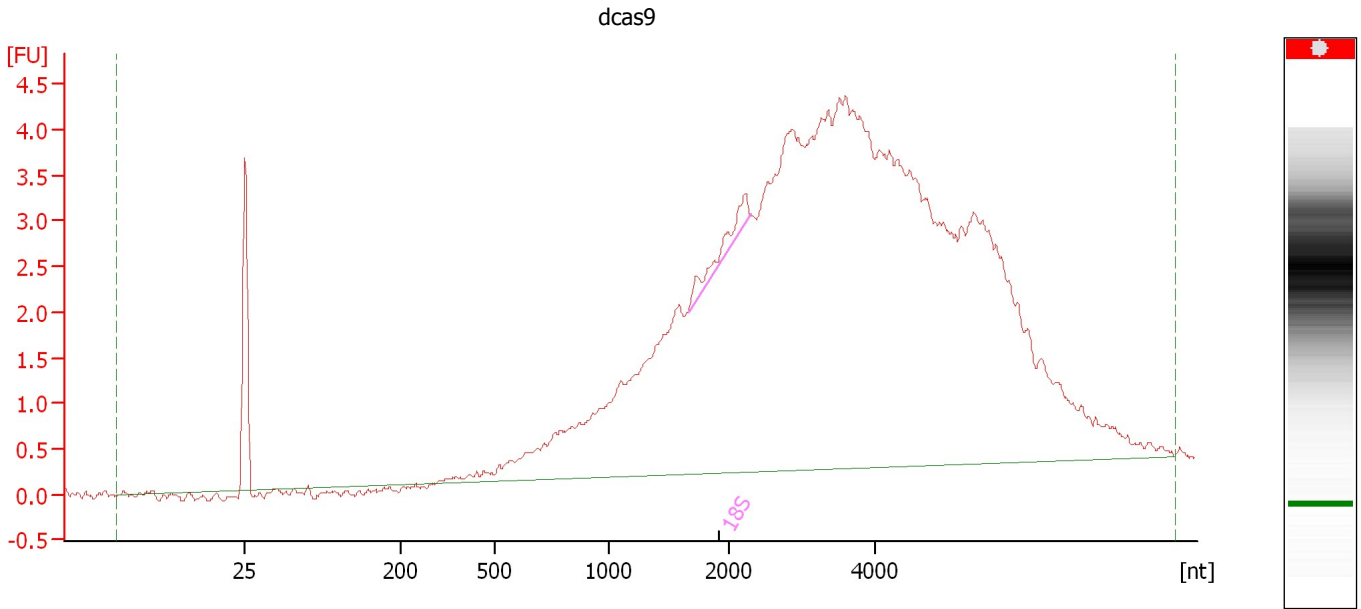
Overall Results for sample 8 : 16 clone

RNA Area:	9.1	RNA Integrity Number (RIN):	1.1 (B.02.08)
RNA Concentration:	10 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.10

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-28\2015-01-28_001.xad

Created: 1/28/2015 9:41:54 AM
Modified: 1/28/2015 10:04:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : dcas9

RNA Area:	110.7	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	124 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

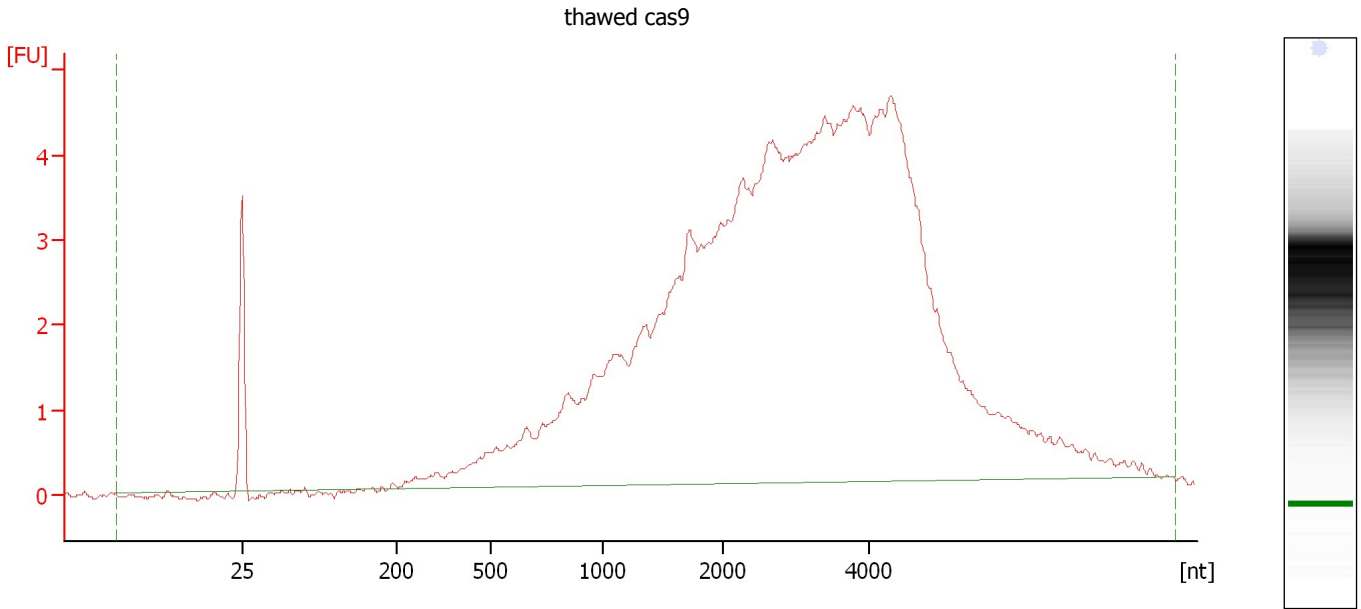
Fragment table for sample 9 : dcas9

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,664	2,295	0.9	0.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-28\2015-01-28_001.xad

Created: 1/28/2015 9:41:54 AM
Modified: 1/28/2015 10:04:22 AM

Electropherogram Summary Continued ...



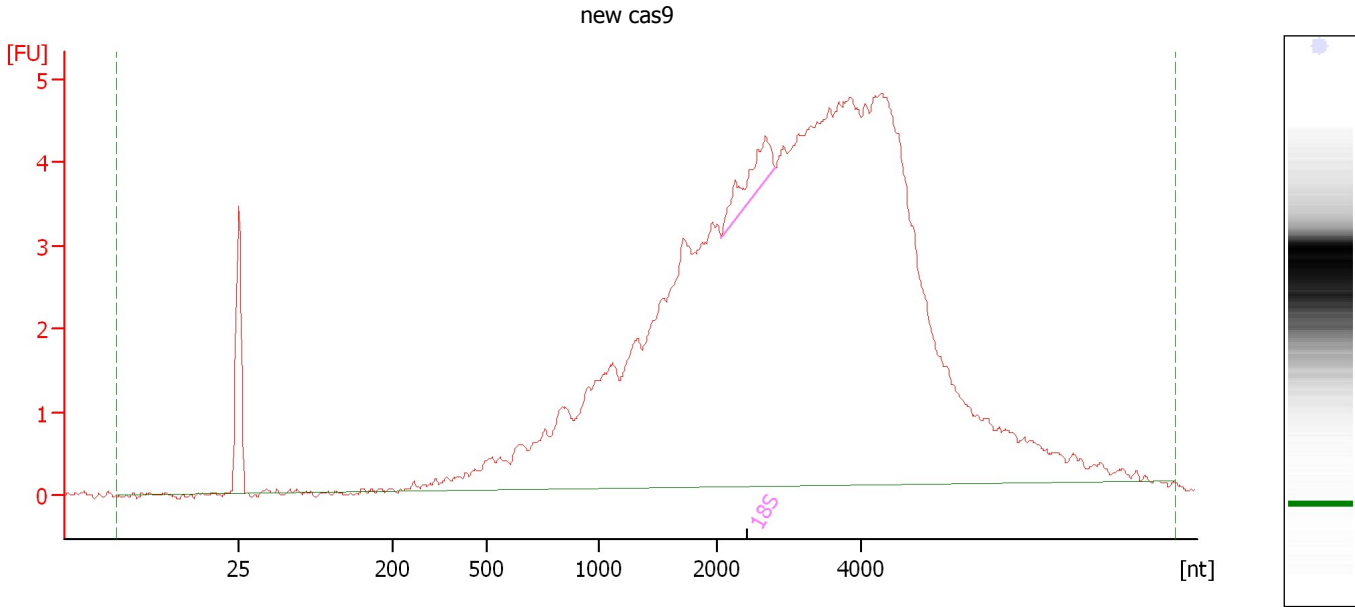
Overall Results for sample 10 : thawed cas9

RNA Area:	121.6	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	136 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-28\2015-01-28_001.xad

Created: 1/28/2015 9:41:54 AM
Modified: 1/28/2015 10:04:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : new cas9

RNA Area:	123.2	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	138 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

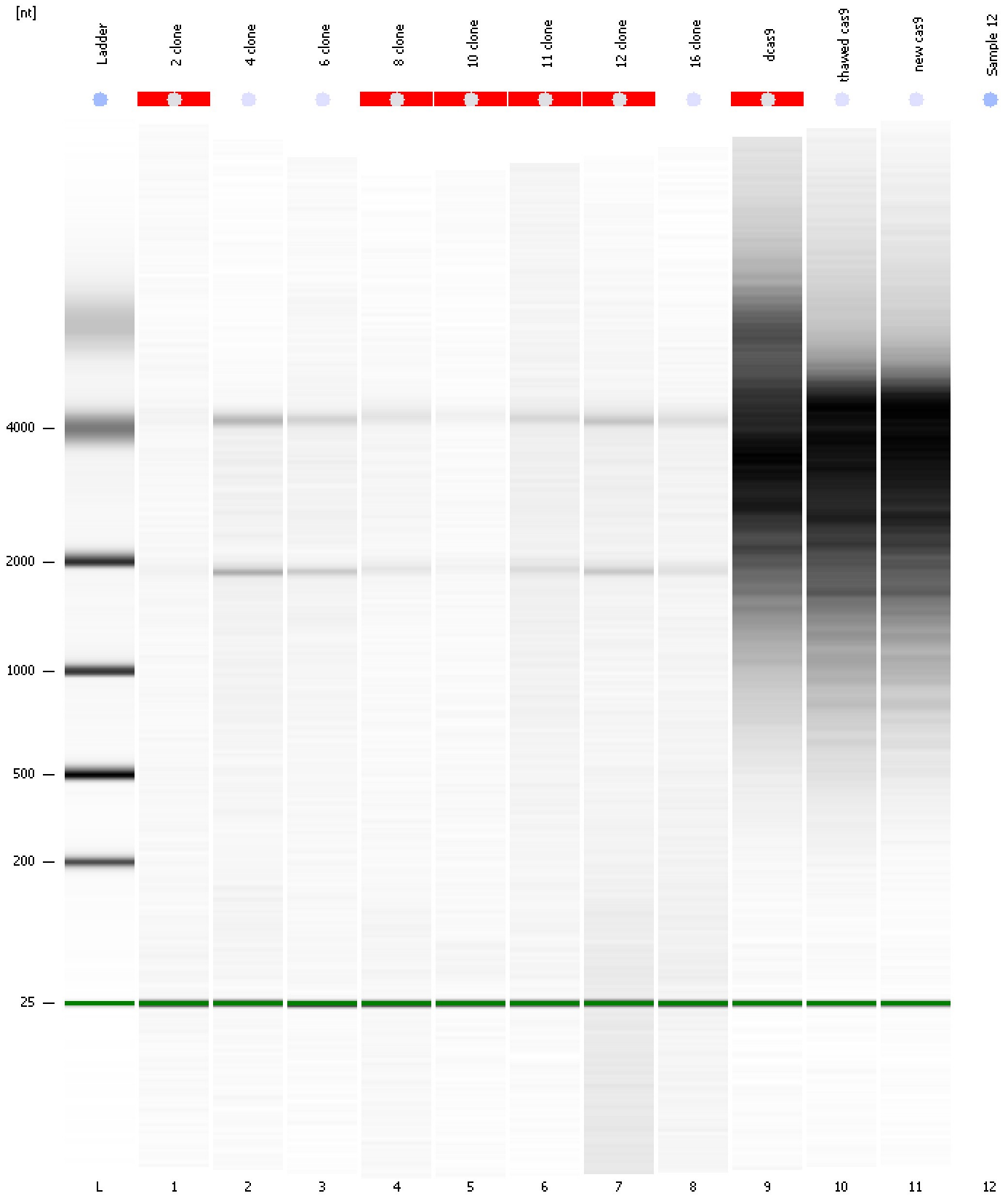
Fragment table for sample 11 : new cas9

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,067	2,806	1.6	1.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-28\2015-01-28_001.xad

Created: 1/28/2015 9:41:54 AM
Modified: 1/28/2015 10:04:22 AM

Gel Image



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-28\2015-01-28_001.xad

Created: 1/28/2015 9:41:54 AM
Modified: 1/28/2015 10:04:22 AM

Invalid Samples

Sample 12 has not been run, no results available.

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-28\2015-01-28_001.xad

Created: 1/28/2015 9:41:54 AM
 Modified: 1/28/2015 10:04:22 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		1/28/2015 10:04:20 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-01-28\2015-01-28_001.xad)		Instrument	Run		1/28/2015 9:41:59 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/28/2015 9:41:59 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/28/2015 9:41:59 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/28/2015 9:41:59 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/28/2015 9:41:59 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/28/2015 9:41:59 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/28/2015 9:41:59 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1