

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...0 expert\data\2018-03-16\2018-03-16_003_HiSeq1321_RNAQC.xad

Created: 3/16/2018 12:51:05 PM
Modified: 3/16/2018 1:23:23 PM

Electrophoresis File Run Summary

Instrument Information:

Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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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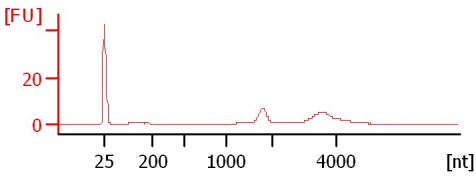
Chip Information:

Chip Lot #:

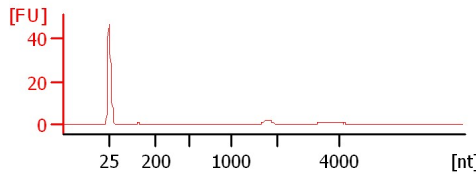
Reagent Kit Lot #:

Chip Comments:

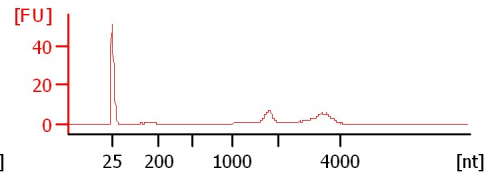
WT 1 (1:20)
HiSeq_1321
RIN: 9.40



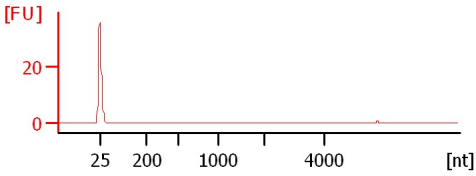
WT 2 (1:20)
HiSeq_1321
RIN: 7.90



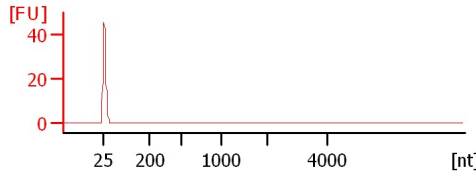
WT 3 (1:20)
HiSeq_1321
RIN: 7



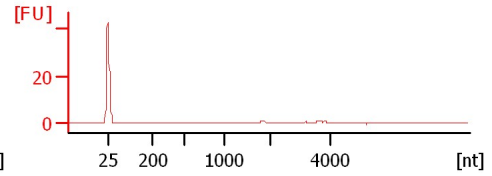
WT 4 (1:20)
HiSeq_1321
RIN: 1



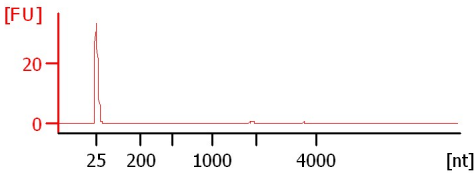
Kv1.3KO 1 (1:50)
HiSeq_1321
RIN: 1



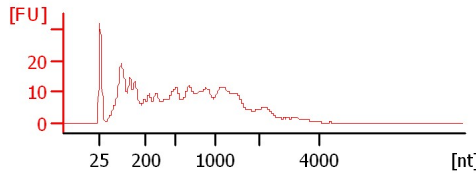
Kv1.3KO 2 (1:50)
HiSeq_1321
RIN: 2.60



Kv1.3KO 3 (1:20)
HiSeq_1321
RIN: 1



Kv1.3KO 4 (1:20)
HiSeq_1321
RIN: 2.90



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
WT 1 (1:20)	HiSeq_1321	✓	RIN: 9.40	
WT 2 (1:20)	HiSeq_1321	✓	RIN: 7.90	
WT 3 (1:20)	HiSeq_1321	✓	RIN:7	
WT 4 (1:20)	HiSeq_1321	✓	RIN:1	
Kv1.3KO 1 (1:50)	HiSeq_1321	✓	RIN:1	
Kv1.3KO 2 (1:50)	HiSeq_1321	✓	RIN: 2.60	
Kv1.3KO 3 (1:20)	HiSeq_1321	✓	RIN:1	
Kv1.3KO 4 (1:20)	HiSeq_1321	✓	RIN: 2.90	
Ladder		✓	All Other Samples	

Chip Lot #

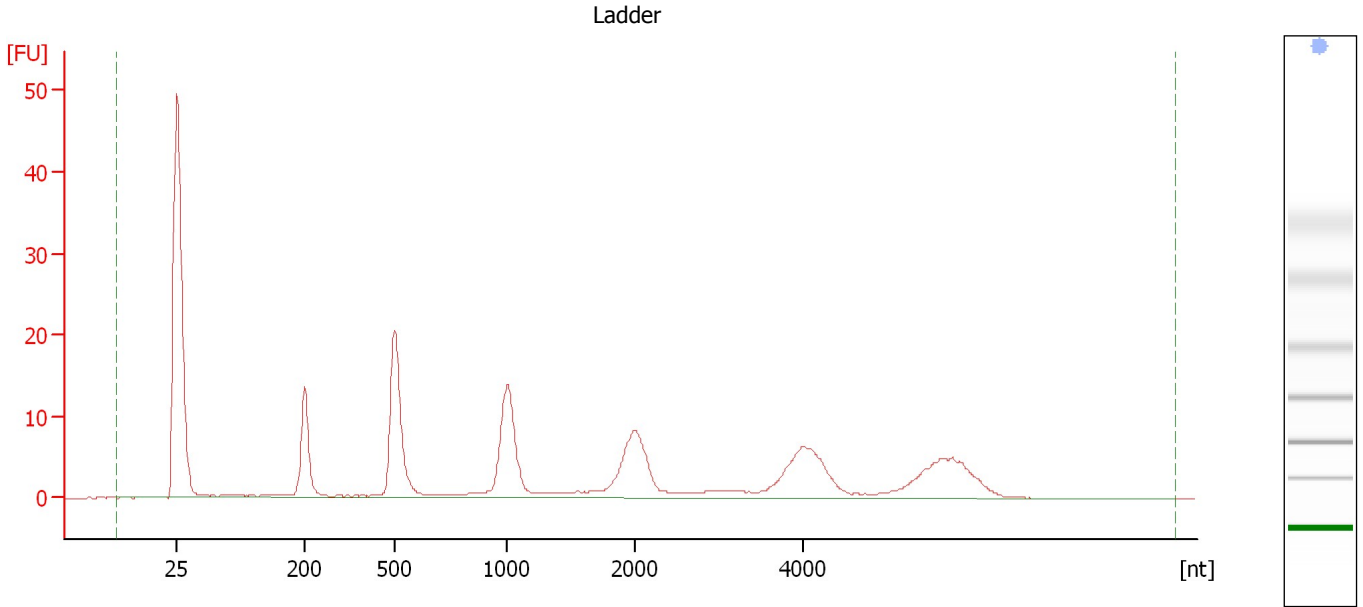
Reagent Kit Lot #

Chip Comments :

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Electropherogram Summary



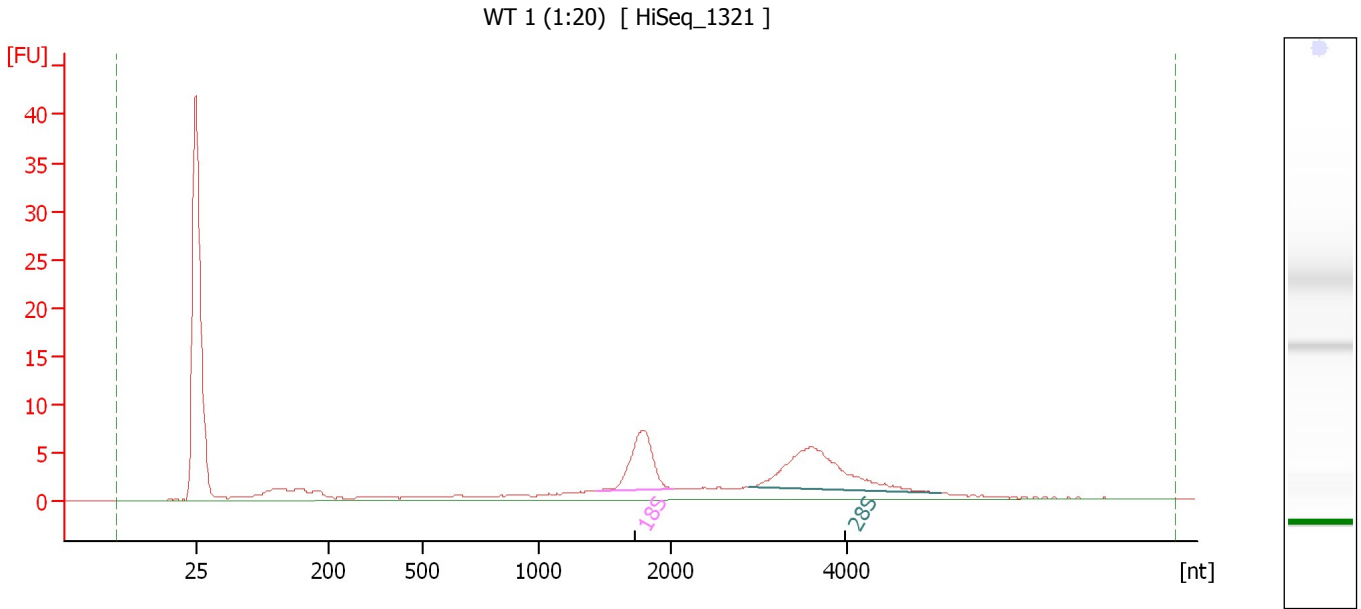
Overall Results for Ladder

RNA Area:	194.1	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

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Electropherogram Summary Continued ...



Overall Results for sample 3 : WT 1 (1:20)

RNA Area:	112.1	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	577 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 9.40

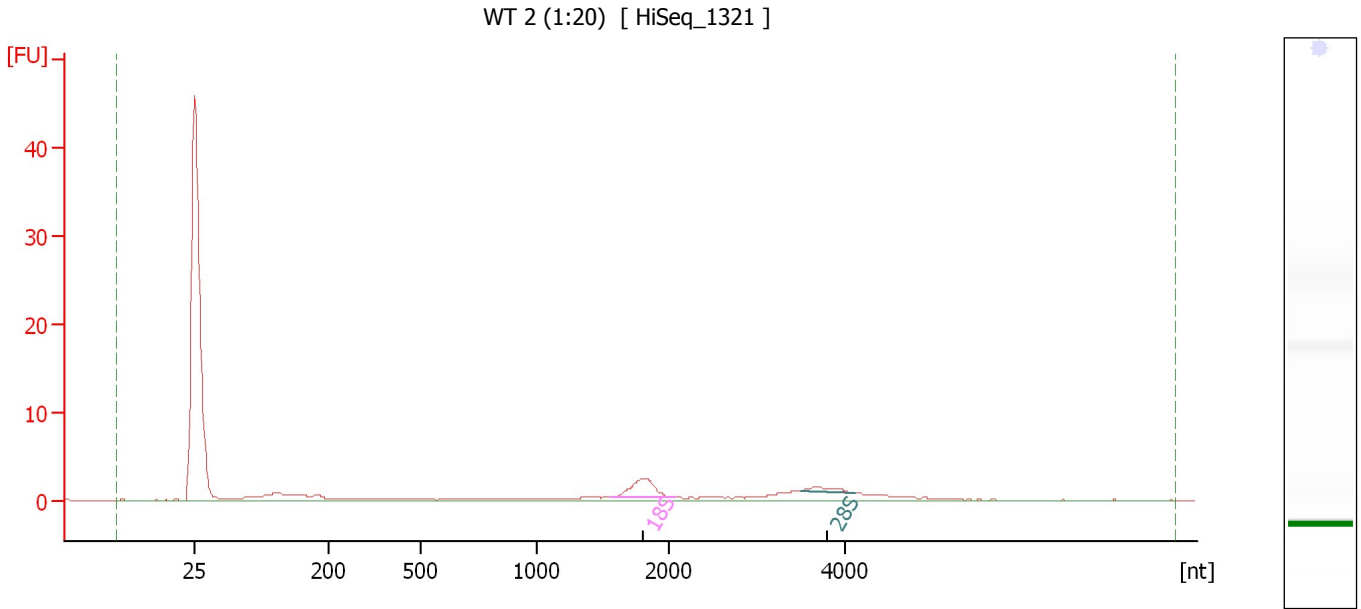
Fragment table for sample 3 : WT 1 (1:20)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,440	2,021	17.0	15.2
28S	2,884	5,062	26.8	23.9

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Electropherogram Summary Continued ...



Overall Results for sample 4 : WT 2 (1:20)

RNA Area:	39.5	RNA Integrity Number (RIN):	7.9 (B.02.08)
RNA Concentration:	203 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.2	Result Flagging Label:	RIN: 7.90

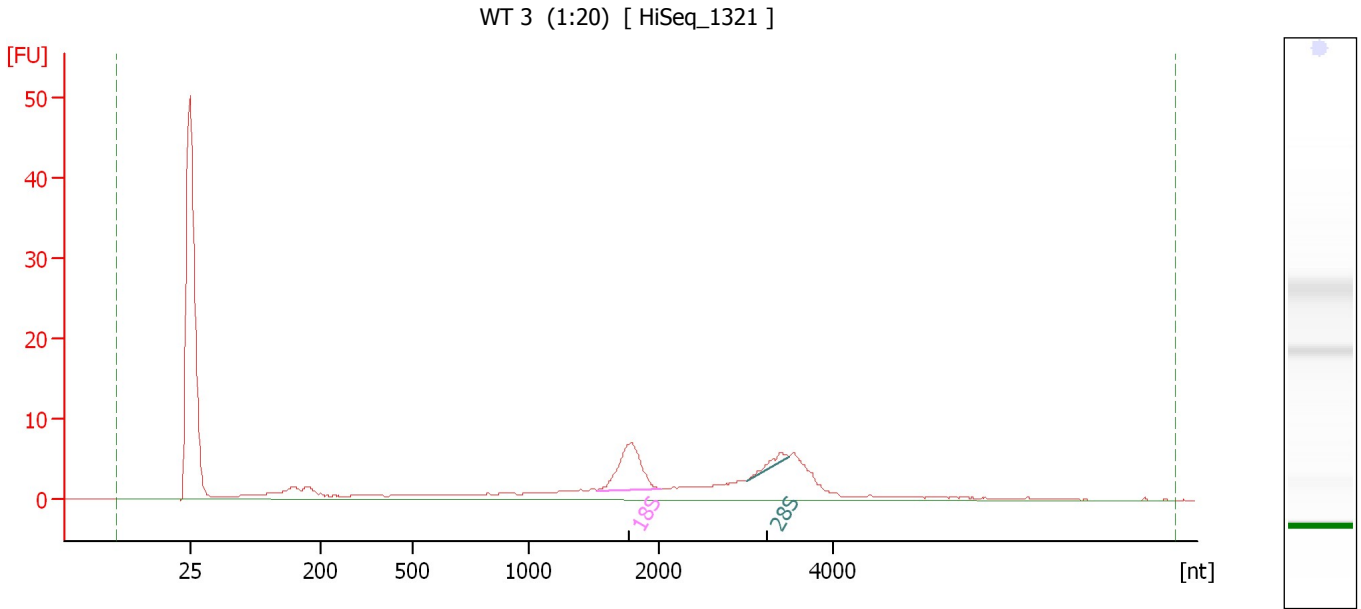
Fragment table for sample 4 : WT 2 (1:20)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,552	2,069	6.3	16.0
28S	3,508	4,117	1.4	3.6

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Electropherogram Summary Continued ...



Overall Results for sample 5 : WT 3 (1:20)

RNA Area:	117.2	RNA Integrity Number (RIN):	7 (B.02.08)
RNA Concentration:	604 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.1	Result Flagging Label:	RIN:7

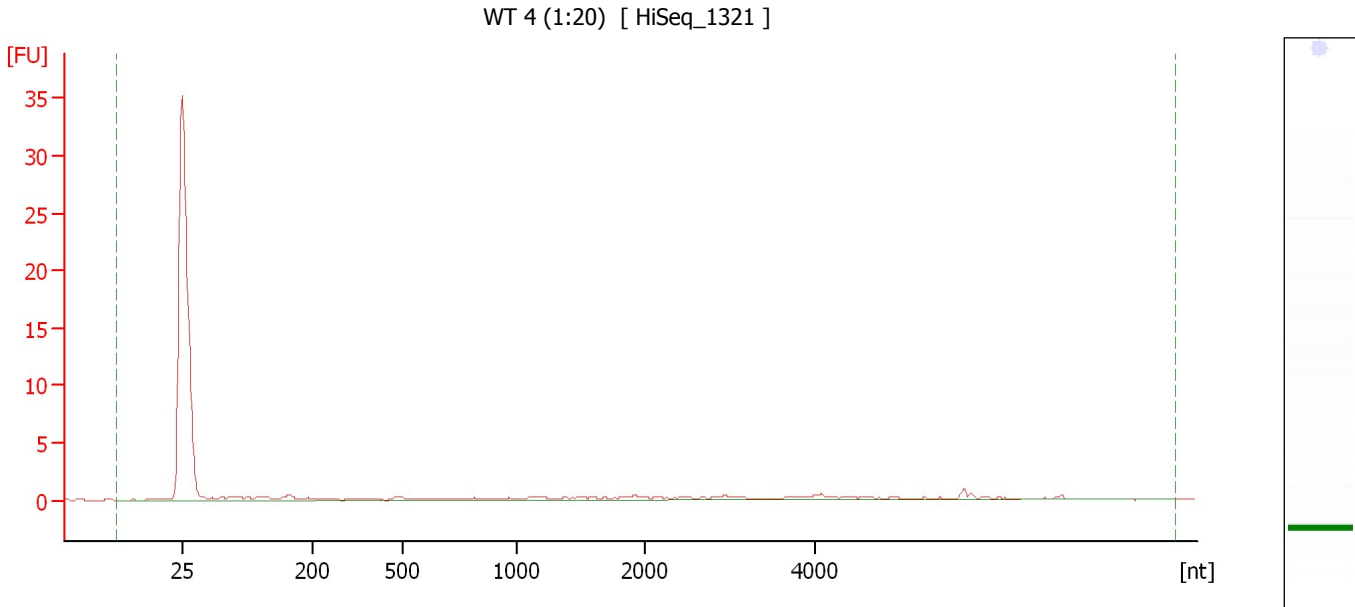
Fragment table for sample 5 : WT 3 (1:20)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,521	2,018	15.9	13.6
28S	3,016	3,485	1.8	1.5

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Electropherogram Summary Continued ...



Overall Results for sample 6 : WT 4 (1:20)

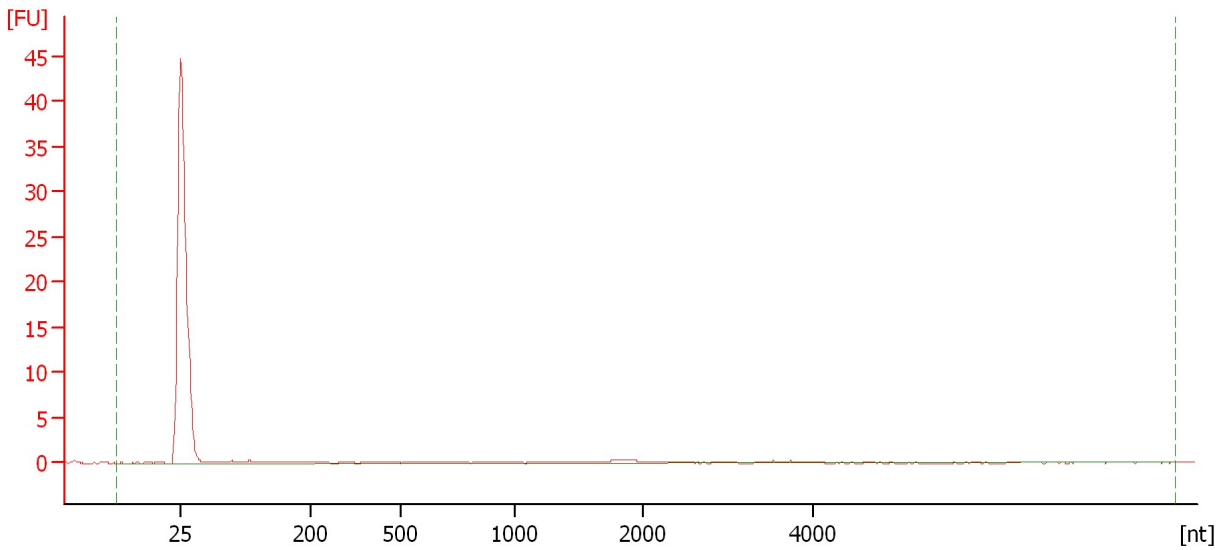
RNA Area:	19.6	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	101 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

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Electropherogram Summary Continued ...

Kv1.3KO 1 (1:50) [HiSeq_1321]



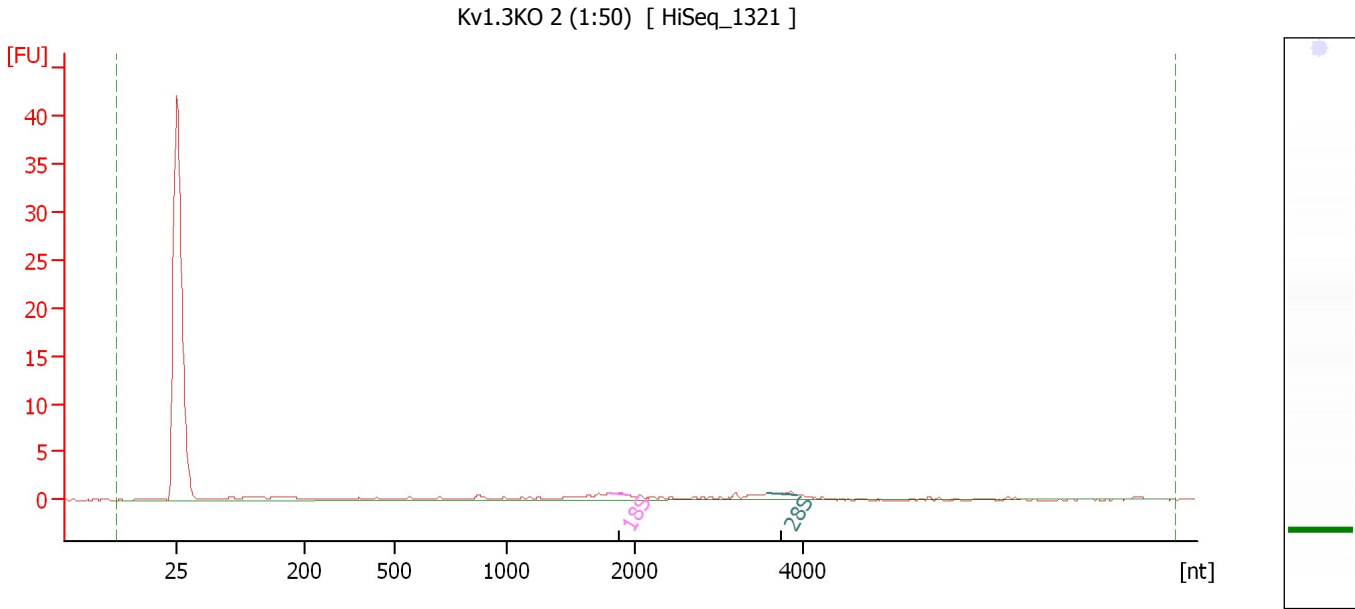
Overall Results for sample 7 : Kv1.3KO 1 (1:50)

RNA Area:	9.4	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	48 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico
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Electropherogram Summary Continued ...



Overall Results for sample 8 : Kv1.3KO 2 (1:50)

RNA Area:	23.2	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	120 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 2.60

Fragment table for sample 8 : Kv1.3KO 2 (1:50)

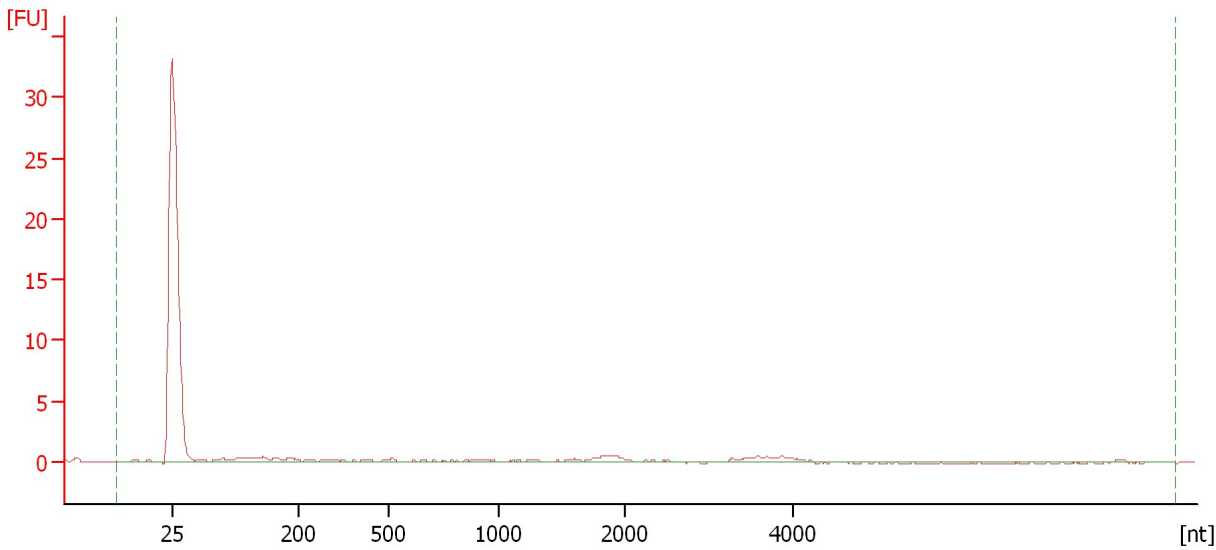
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,798	1,966	0.3	1.1
28S	3,569	3,924	0.4	1.7

Assay Class: Eukaryote Total RNA Pico
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Electropherogram Summary Continued ...

Kv1.3KO 3 (1:20) [HiSeq_1321]



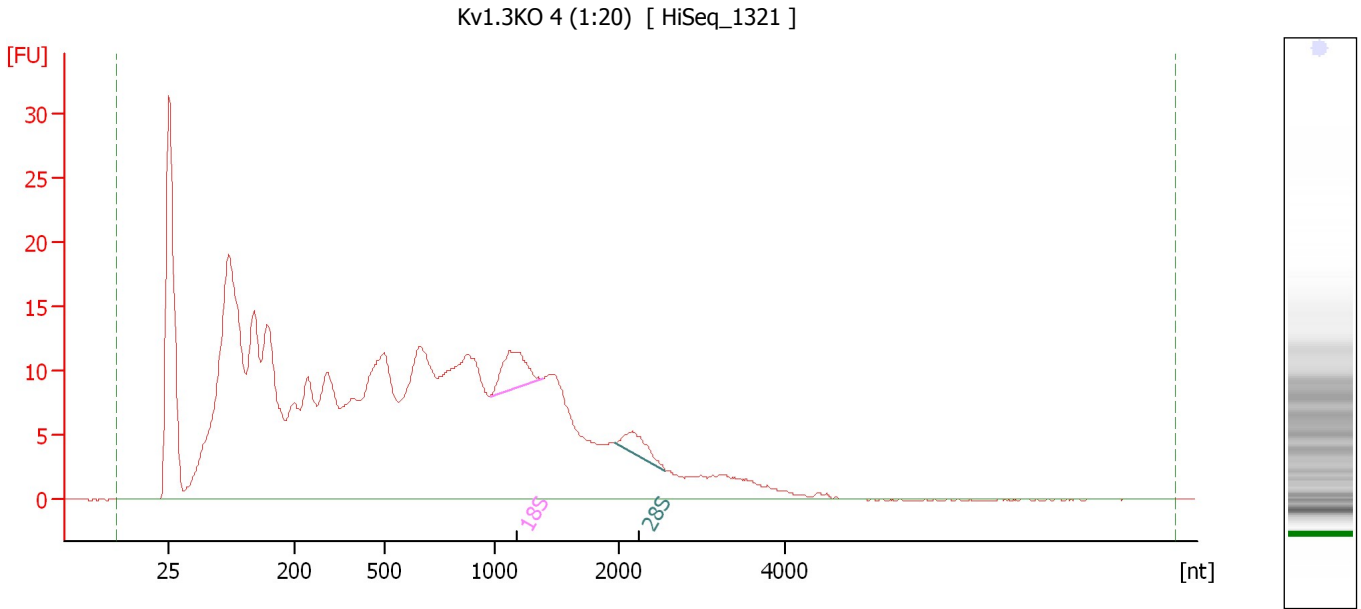
Overall Results for sample 9 : Kv1.3KO 3 (1:20)

RNA Area:	15.4	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	79 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

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Electropherogram Summary Continued ...



Overall Results for sample 10 : Kv1.3KO 4 (1:20)

RNA Area:	606.8	RNA Integrity Number (RIN):	2.9 (B.02.08)
RNA Concentration:	3,126 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.5	Result Flagging Label:	RIN: 2.90

Fragment table for sample 10 : Kv1.3KO 4 (1:20)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	979	1,391	9.9	1.6
28S	1,963	2,549	5.0	0.8

Assay Class: Eukaryote Total RNA Pico
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