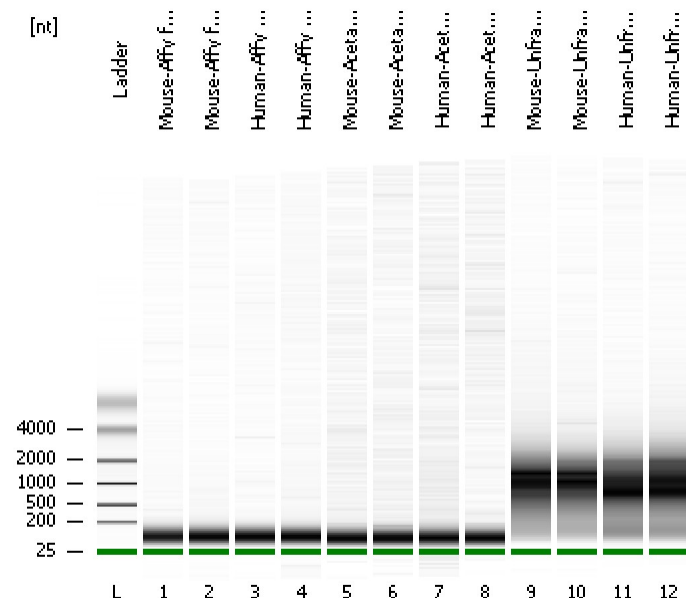


Assay Class: mRNA Nano
Data Path: C:\...20\2100 expert_mRNA Nano_DE24802235_2009-08-20_15-08-02.xad

Created: 8/20/2009 3:08:02 PM
Modified: 8/21/2009 10:33:52 AM

Electrophoresis File Run Summary



Instrument Information:

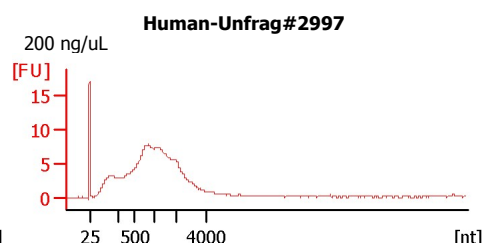
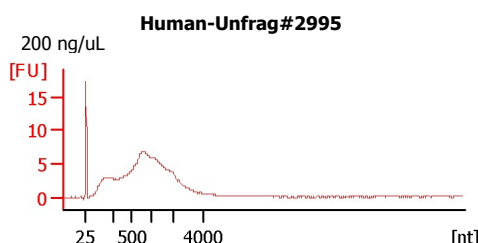
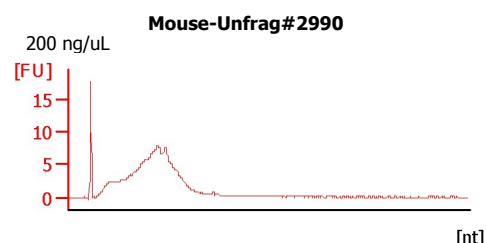
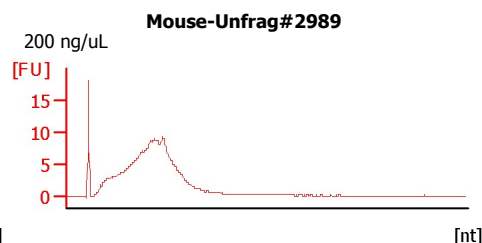
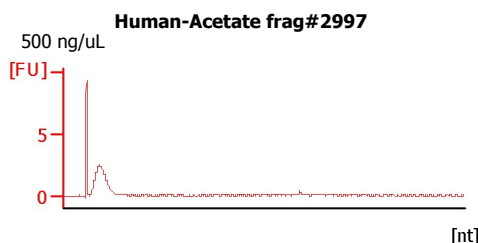
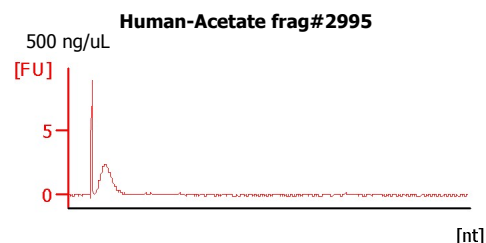
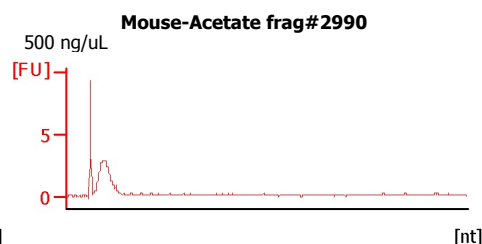
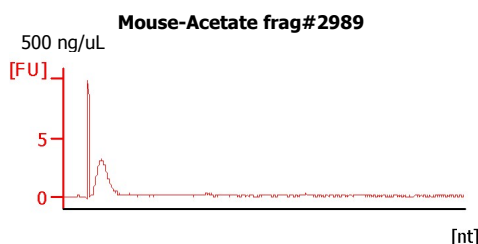
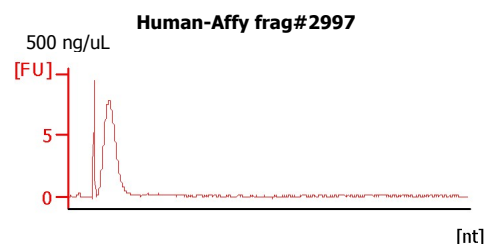
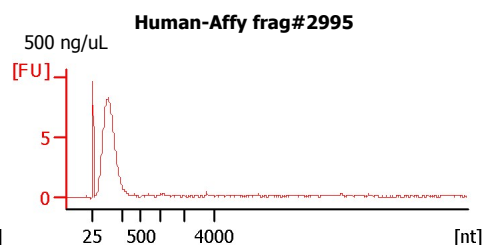
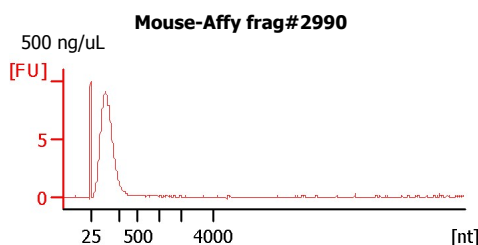
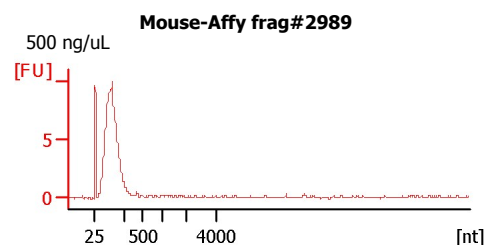
Instrument Name: Ann's baby
Serial#: DE24802235
Firmware: C.01.069
Type: G2938B

Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\mRNA Nano Series II.xsy
Title: mRNA Nano Series II
Version: 2.4
Assay Comments: Copyright © 2003-2006 Agilent Technologies

Chip Information:

Chip Lot:
Reagent Kit Lot:
Chip Comments: Internal test fragmentation of labeled cRNA with Affy 5x frag buffer vs. homemade 5x Tris-Acetate, pH 8.1 buffer. Used 4 actual samples run on chips, 2 mouse and 2 human. Used actual Affy frag tu...



Assay Class: mRNA Nano
Data Path: C:\...20\2100 expert_mRNA Nano_DE24802235_2009-08-20_15-08-02.xad

Created: 8/20/2009 3:08:02 PM
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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Mouse-Affy frag#2989	500 ng/uL	✓		
Mouse-Affy frag#2990	500 ng/uL	✓		
Human-Affy frag#2995	500 ng/uL	✓		
Human-Affy frag#2997	500 ng/uL	✓		
Mouse-Acetate frag#2989	500 ng/uL	✓		
Mouse-Acetate frag#2990	500 ng/uL	✓		
Human-Acetate frag#2995	500 ng/uL	✓		
Human-Acetate frag#2997	500 ng/uL	✓		
Mouse-Unfrag#2989	200 ng/uL	✓		
Mouse-Unfrag#2990	200 ng/uL	✓		
Human-Unfrag#2995	200 ng/uL	✓		
Human-Unfrag#2997	200 ng/uL	✓		

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

Internal test fragmentation of labeled cRNA with Affy 5x frag buffer vs. homemade 5x Tris-Acetate, pH 8.1 buffer. Used 4 actual samples run on chips, 2 mouse and 2 human. Used actual Affy frag tubes, plus fragged same samples with same proportions and thermal cycler protocol with the homemade buffer. Thus the fragged samples were at

Assay Class: mRNA Nano
Data Path: C:\...20\2100 expert_mRNA Nano_DE24802235_2009-08-20_15-08-02.xad

Created: 8/20/2009 3:08:02 PM
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Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 13

Minimum Visible Range [s] : 14

Maximum Visible Range [s] : 85

Start Analysis Time Range [s] : 15

End Analysis Time Range [s] : 84

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] : 15

Integration End Time [s] : 84

Slope Threshold : 0.2

Height Threshold [FU] : 0.5

Area Threshold : 0.1

Width Threshold [s] : 0.2

Baseline Plateau [s] : 0.5

Filter Settings

Filter Width [s] : 0.5

Polynomial Order : 4

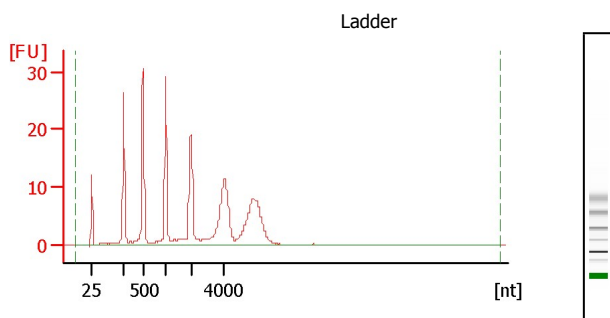
Ladder

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

Assay Class: mRNA Nano
 Data Path: C:\...20\2100 expert_mRNA Nano_DE24802235_2009-08-20_15-08-02.xad

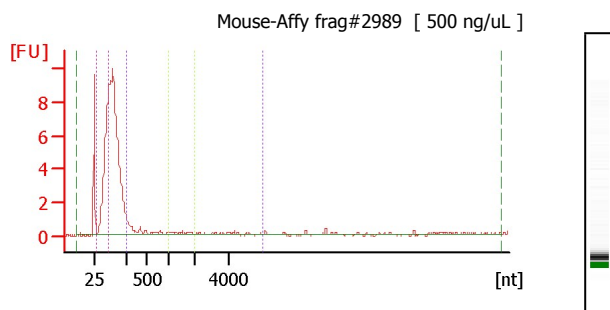
Created: 8/20/2009 3:08:02 PM
 Modified: 8/21/2009 10:33:52 AM

Electropherogram Summary



Overall Results for Ladder

RNA Area: 297.9
 RNA Concentration: 150 ng/μl

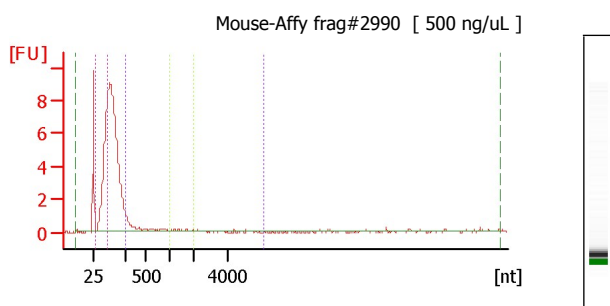


Overall Results for sample 1 : Mouse-Affy frag#2989

RNA Area: 115.8
 RNA Concentration: 58 ng/μl
 rRNA Contamination: 0.0 %
 Corr. Area 1: 104.7
 Corr. Area 2: 27.3
 Corr. Area 3: 1.5
 Corr. Area 4: 9.4

Region table for sample 1 : Mouse-Affy frag#2989

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	35	200	104.7	90	Red
Region 2	35	100	27.3	24	Blue
Region 4	1,000	2,000	1.5	1	Green
Region 3	200	6,000	9.4	8	Yellow

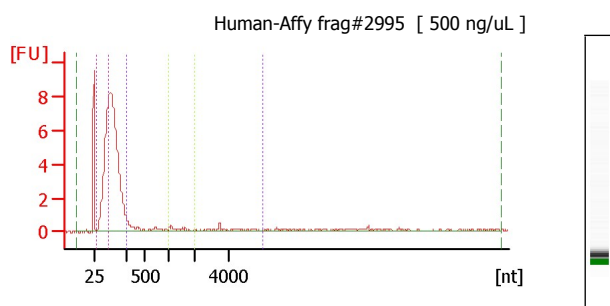


Overall Results for sample 2 : Mouse-Affy frag#2990

RNA Area: 105.8
 RNA Concentration: 53 ng/μl
 rRNA Contamination: 0.0 %
 Corr. Area 1: 98.8
 Corr. Area 2: 26.2
 Corr. Area 3: 0.7
 Corr. Area 4: 6.3

Region table for sample 2 : Mouse-Affy frag#2990

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	35	200	98.8	93	Red
Region 2	35	100	26.2	25	Blue
Region 4	1,000	2,000	0.7	1	Green
Region 3	200	6,000	6.3	6	Yellow



Overall Results for sample 3 : Human-Affy frag#2995

RNA Area: 102.8
 RNA Concentration: 52 ng/μl
 rRNA Contamination: 0.0 %
 Corr. Area 1: 91.6
 Corr. Area 2: 24.6
 Corr. Area 3: 1.5
 Corr. Area 4: 8.4

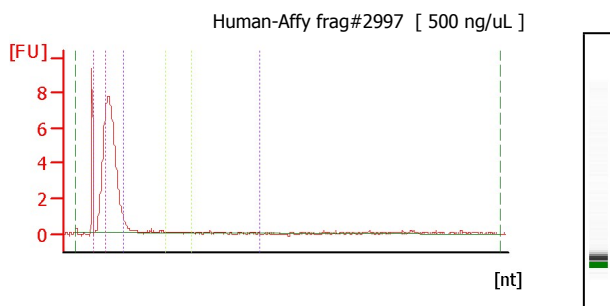
Region table for sample 3 : Human-Affy frag#2995

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	35	200	91.6	89	Red
Region 2	35	100	24.6	24	Blue
Region 4	1,000	2,000	1.5	1	Green
Region 3	200	6,000	8.4	8	Yellow

Assay Class: mRNA Nano
 Data Path: C:\...20\2100 expert_mRNA Nano_DE24802235_2009-08-20_15-08-02.xad

Created: 8/20/2009 3:08:02 PM
 Modified: 8/21/2009 10:33:52 AM

Electropherogram Summary Continued ...

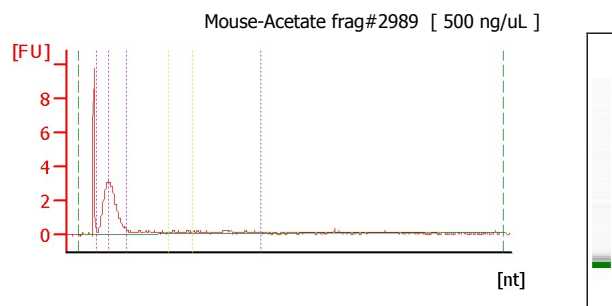


Overall Results for sample 4 : Human-Affy frag#2997

RNA Area: 87.9
 RNA Concentration: 44 ng/ul
 rRNA Contamination: 0.0 %
 Corr. Area 1: 83.4
 Corr. Area 2: 20.7
 Corr. Area 3: 0.1
 Corr. Area 4: 2.5

Region table for sample 4 : Human-Affy frag#2997

Name	From [nt]	To [nt]	Corr. Area	% of Total	Colo r
Region 1	35	200	83.4	95	
Region 2	35	100	20.7	24	
Region 4	1,000	2,000	0.1	0	
Region 3	200	6,000	2.5	3	

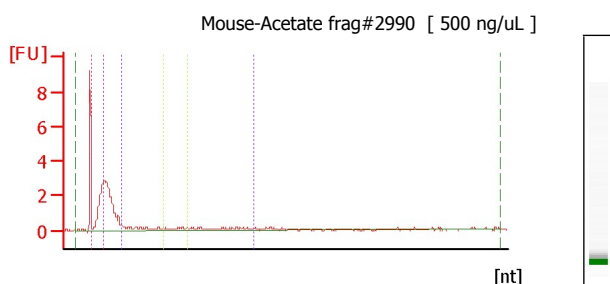


Overall Results for sample 5 : Mouse-Acetate frag#2989

RNA Area: 46.7
 RNA Concentration: 24 ng/ul
 rRNA Contamination: 0.0 %
 Corr. Area 1: 35.0
 Corr. Area 2: 12.4
 Corr. Area 3: 1.6
 Corr. Area 4: 8.5

Region table for sample 5 : Mouse-Acetate frag#2989

Name	From [nt]	To [nt]	Corr. Area	% of Total	Colo r
Region 1	35	200	35.0	75	
Region 2	35	100	12.4	27	
Region 4	1,000	2,000	1.6	3	
Region 3	200	6,000	8.5	18	

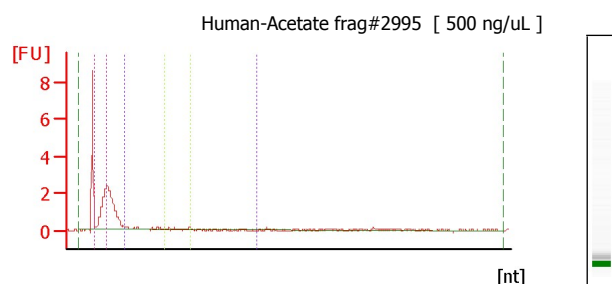


Overall Results for sample 6 : Mouse-Acetate frag#2990

RNA Area: 42.7
 RNA Concentration: 21 ng/ul
 rRNA Contamination: 0.0 %
 Corr. Area 1: 33.0
 Corr. Area 2: 11.5
 Corr. Area 3: 1.4
 Corr. Area 4: 7.1

Region table for sample 6 : Mouse-Acetate frag#2990

Name	From [nt]	To [nt]	Corr. Area	% of Total	Colo r
Region 1	35	200	33.0	77	
Region 2	35	100	11.5	27	
Region 4	1,000	2,000	1.4	3	
Region 3	200	6,000	7.1	17	



Overall Results for sample 7 : Human-Acetate frag#2995

RNA Area: 31.1
 RNA Concentration: 16 ng/ul
 rRNA Contamination: 0.0 %
 Corr. Area 1: 25.4
 Corr. Area 2: 8.4
 Corr. Area 3: 0.6
 Corr. Area 4: 3.5

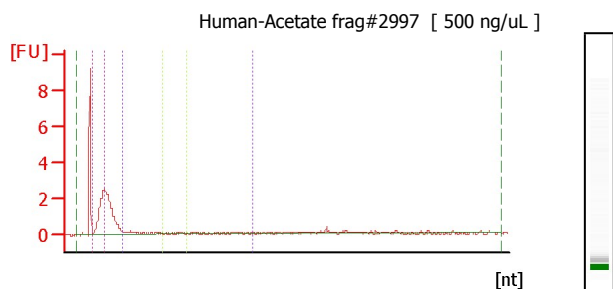
Region table for sample 7 : Human-Acetate frag#2995

Name	From [nt]	To [nt]	Corr. Area	% of Total	Colo r
Region 1	35	200	25.4	82	
Region 2	35	100	8.4	27	
Region 4	1,000	2,000	0.6	2	
Region 3	200	6,000	3.5	11	

Assay Class: mRNA Nano
 Data Path: C:\...20\2100 expert_mRNA Nano_DE24802235_2009-08-20_15-08-02.xad

Created: 8/20/2009 3:08:02 PM
 Modified: 8/21/2009 10:33:52 AM

Electropherogram Summary Continued ...



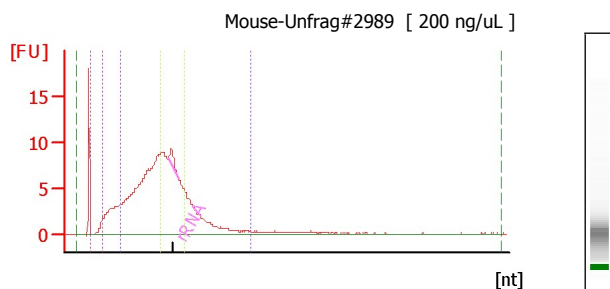
Overall Results for sample 8 : Human-Acetate frag#2997

RNA Area: 37.4
 RNA Concentration: 19 ng/μl
 rRNA Contamination: 0.0 %
 Corr. Area 1: 27.8
 Corr. Area 2: 9.2
 Corr. Area 3: 0.9
 Corr. Area 4: 5.2

Region table for sample 8 : Human-Acetate frag#2997

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	35	200	27.8	74	
Region 2	35	100	9.2	25	
Region 4	1,000	2,000	0.9	2	
Region 3	200	6,000	5.2	14	

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 2	35	100	3.3	1	
Region 4	1,000	2,000	93.5	30	
Region 3	200	6,000	269.1	86	



Overall Results for sample 9 : Mouse-Unfrag#2989

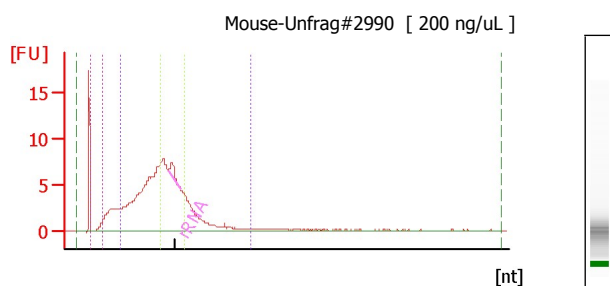
RNA Area: 313.8
 RNA Concentration: 158 ng/μl
 rRNA Contamination: 1.3 %
 Corr. Area 1: 37.6
 Corr. Area 2: 3.3
 Corr. Area 3: 93.5
 Corr. Area 4: 269.1

Fragment table for sample 9 : Mouse-Unfrag#2989

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA	1,331	1,744	4.2	1.3

Region table for sample 9 : Mouse-Unfrag#2989

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	35	200	37.6	12	



Overall Results for sample 10 : Mouse-Unfrag#2990

RNA Area: 247.8
 RNA Concentration: 125 ng/μl
 rRNA Contamination: 1.3 %
 Corr. Area 1: 30.7
 Corr. Area 2: 2.6
 Corr. Area 3: 76.6
 Corr. Area 4: 210.9

Fragment table for sample 10 : Mouse-Unfrag#2990

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA	1,322	1,798	3.2	1.3

Region table for sample 10 : Mouse-Unfrag#2990

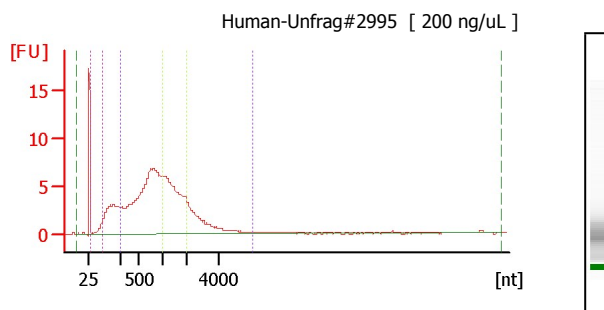
Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	35	200	30.7	12	
Region 2	35	100	2.6	1	

Assay Class: mRNA Nano
 Data Path: C:\...20\2100 expert_mRNA Nano_DE24802235_2009-08-20_15-08-02.xad

Created: 8/20/2009 3:08:02 PM
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Electropherogram Summary Continued ...

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 4	1,000	2,000	76.6	31	
Region 3	200	6,000	210.9	85	

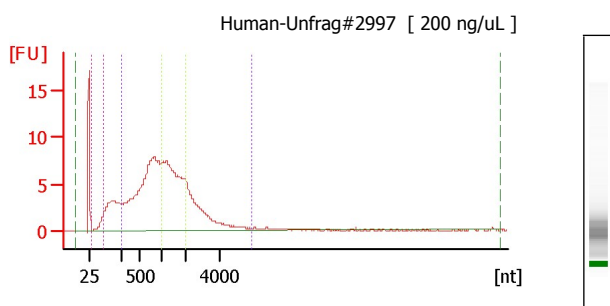


Overall Results for sample 11 : Human-Unfrag#2995

RNA Area: 234.9
 RNA Concentration: 118 ng/μl
 rRNA Contamination: 0.0 %
 Corr. Area 1: 37.6
 Corr. Area 2: 3.3
 Corr. Area 3: 60.4
 Corr. Area 4: 195.6

Region table for sample 11 : Human-Unfrag#2995

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	35	200	37.6	16	
Region 2	35	100	3.3	1	
Region 4	1,000	2,000	60.4	26	
Region 3	200	6,000	195.6	83	



Overall Results for sample 12 : Human-Unfrag#2997

RNA Area: 287.5
 RNA Concentration: 145 ng/μl
 rRNA Contamination: 0.0 %
 Corr. Area 1: 40.3
 Corr. Area 2: 3.7
 Corr. Area 3: 78.7
 Corr. Area 4: 242.6

Region table for sample 12 : Human-Unfrag#2997

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	35	200	40.3	14	
Region 2	35	100	3.7	1	
Region 4	1,000	2,000	78.7	27	
Region 3	200	6,000	242.6	84	

Assay Class: mRNA Nano
Data Path: C:\...20\2100 expert_mRNA Nano_DE24802235_2009-08-20_15-08-02.xad

Created: 8/20/2009 3:08:02 PM
Modified: 8/21/2009 10:33:52 AM

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