

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-16\2013-04-16\_003.xad

Created: 4/16/2013 3:30:26 PM  
Modified: 4/16/2013 3:53:22 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 Pico Series II.xsy

Assay Class: Eukaryote Total RNA Pico

Version: 2.6

Assay Comments: Total RNA Analysis pg sensitivity (Eukaryote)

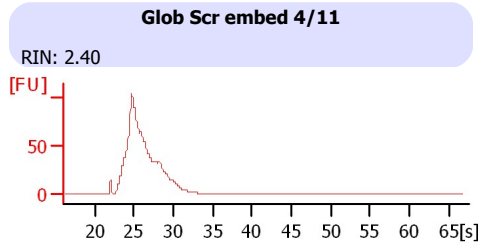
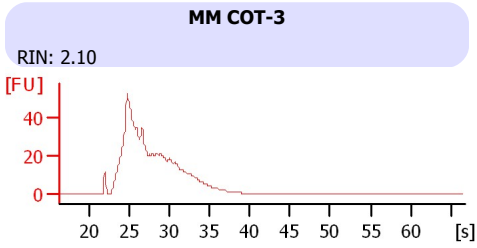
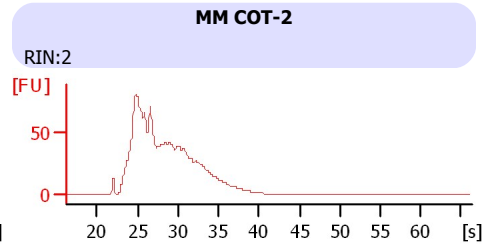
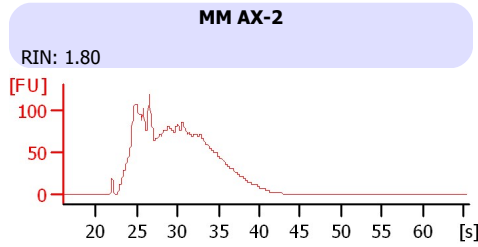
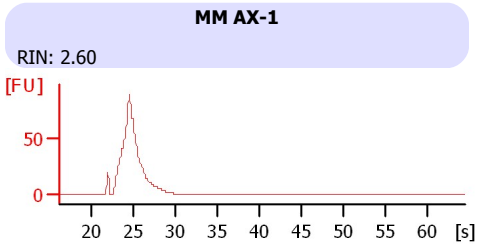
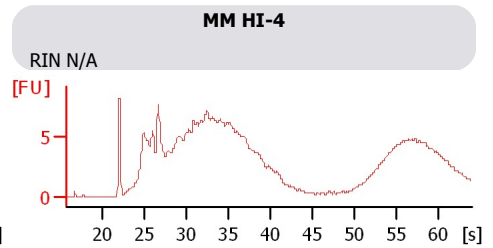
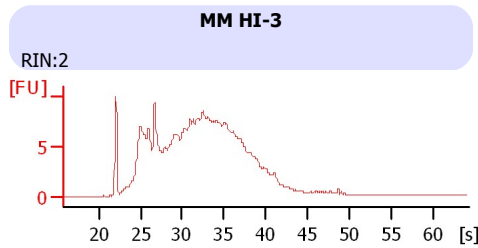
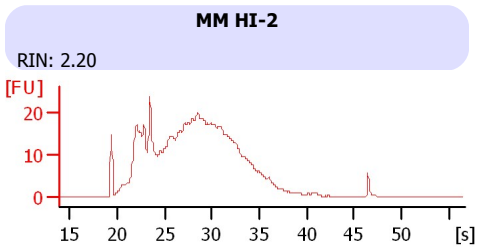
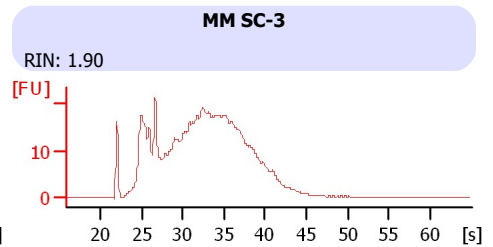
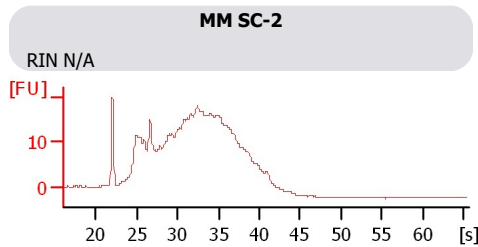
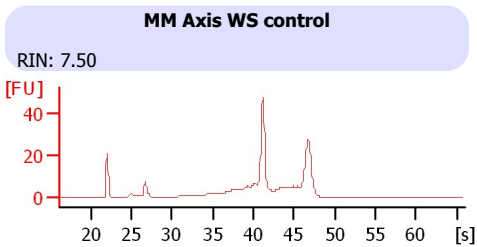
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Chip Information:

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
MM Axis WS control		✓	RIN: 7.50	
MM SC-2		✓	RIN N/A	
MM SC-3		✓	RIN: 1.90	
MM HI-2		✓	RIN: 2.20	
MM HI-3		✓	RIN:2	
MM HI-4		✓	RIN N/A	
MM AX-1		✓	RIN: 2.60	
MM AX-2		✓	RIN: 1.80	
MM COT-2		✓	RIN:2	
MM COT-3		✓	RIN: 2.10	
Glob Scr embed 4/11		✓	RIN: 2.40	
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

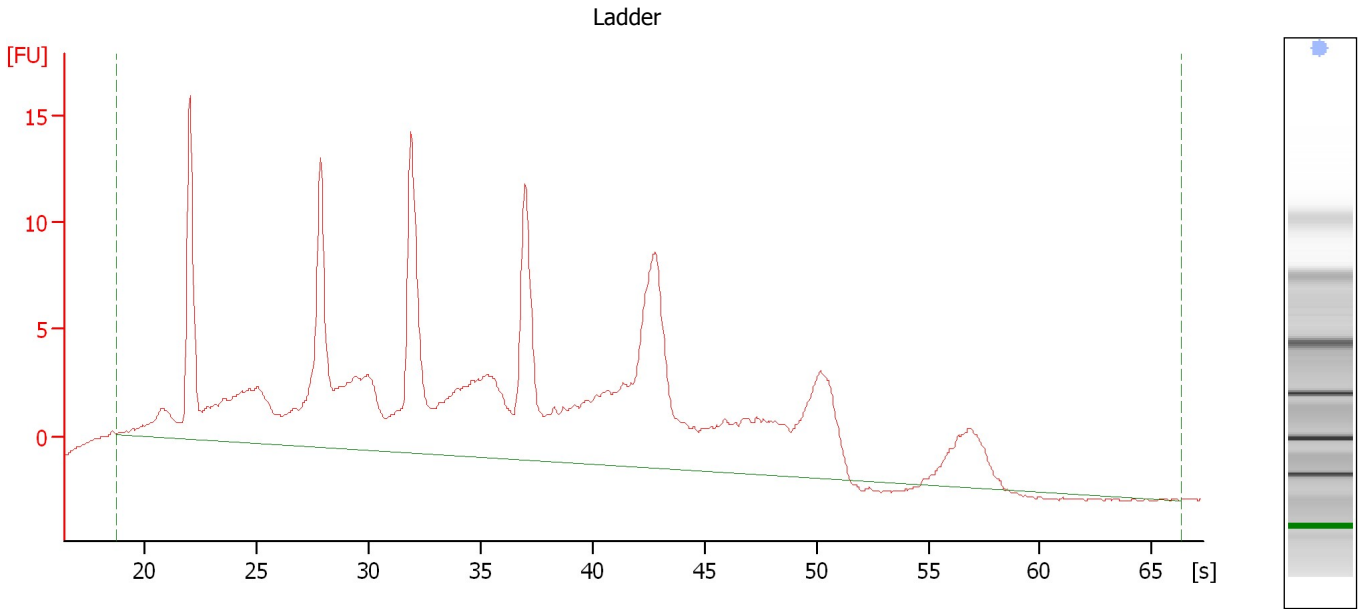
**Ladder**

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

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**Electropherogram Summary**



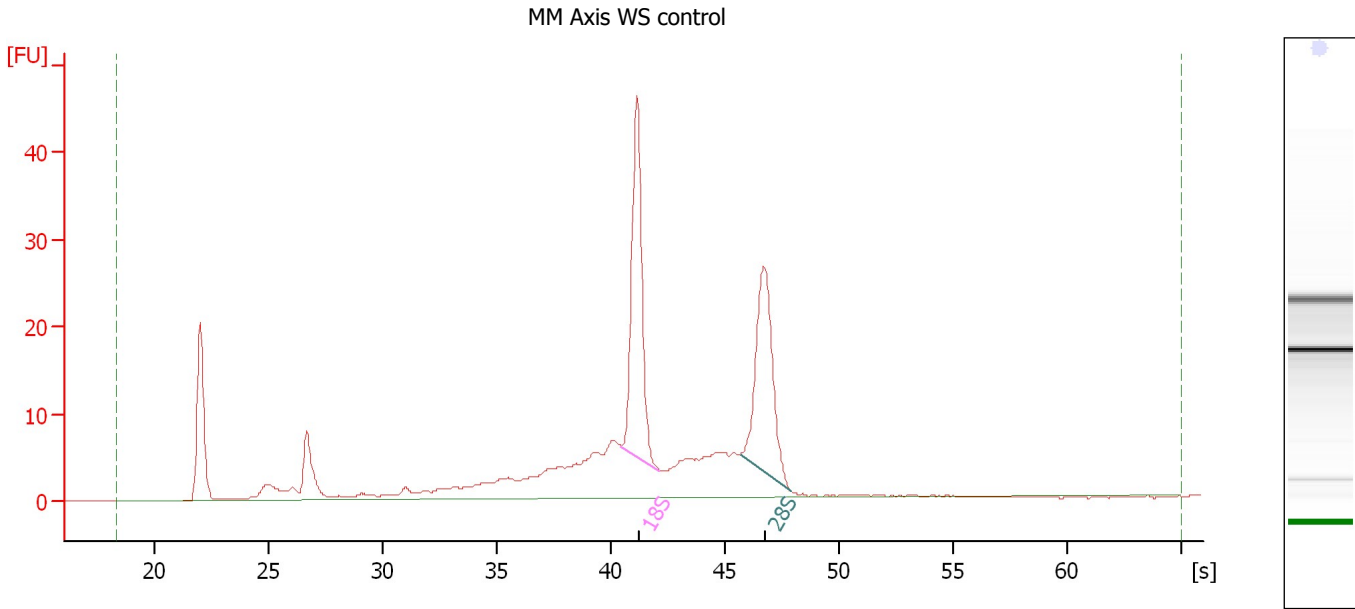
**Overall Results for Ladder**

RNA Area:	287.4	Result Flagging Color:	<span style="background-color: blue; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	1,000 pg/ $\mu$ l	Result Flagging Label:	All Other Samples

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : MM Axis WS control**

RNA Area: 263.9 RNA Integrity Number (RIN): 7.5 (B.02.08)  
RNA Concentration: 918 µg/µl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.8 Result Flagging Label: RIN: 7.50

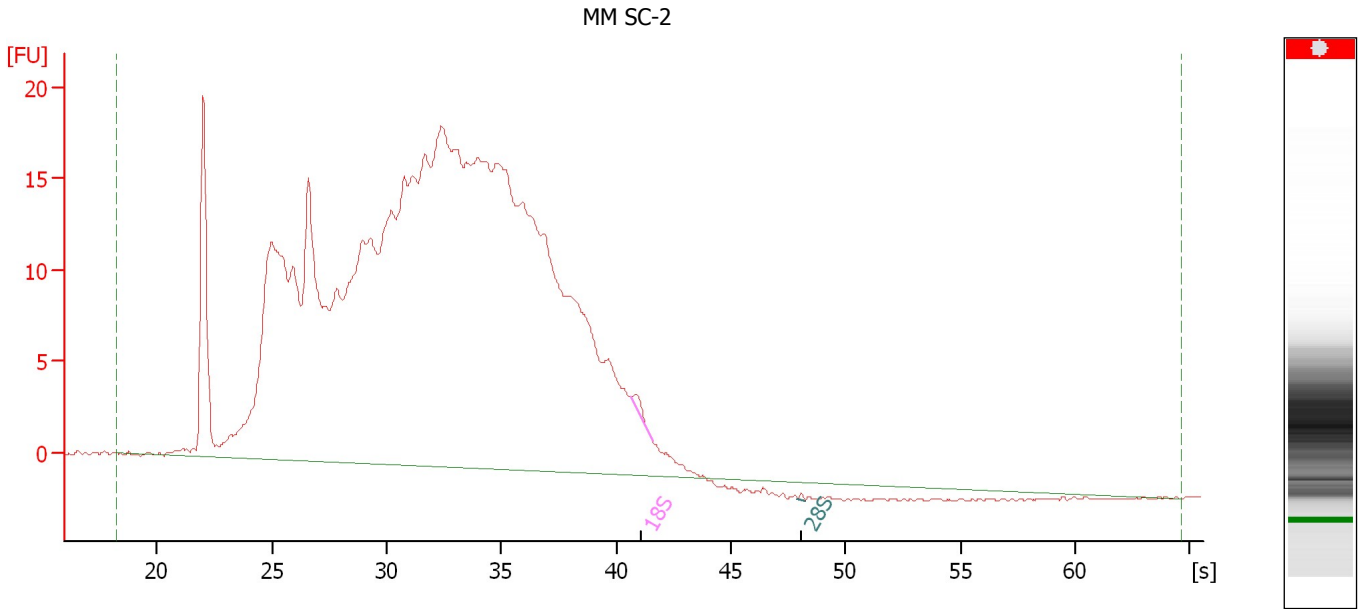
**Fragment table for sample 1 : MM Axis WS control**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.47	42.16	50.8	19.2
28S	45.70	47.96	42.8	16.2

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : MM SC-2**

RNA Area: 646.5 RNA Integrity Number (RIN): N/A (B.02.08)  
RNA Concentration: 2,249 pg/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.2 Result Flagging Label: RIN N/A

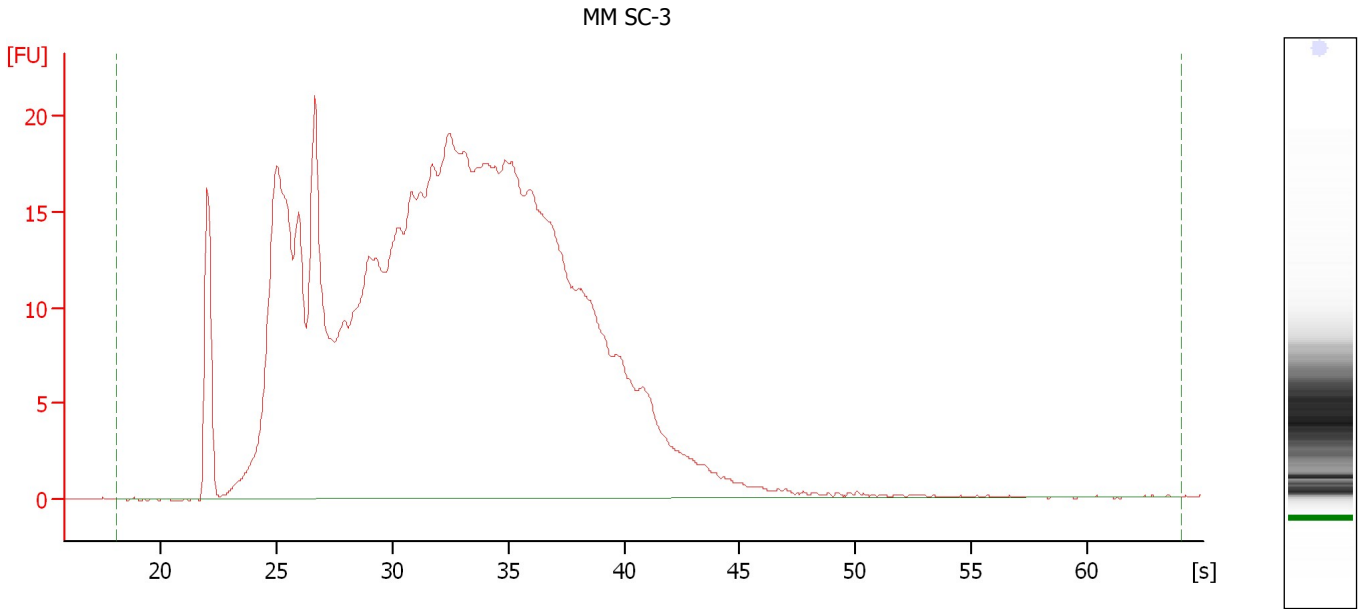
**Fragment table for sample 2 : MM SC-2**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.68	41.57	0.8	0.1
28S	47.89	48.26	0.1	0.0

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**Electropherogram Summary Continued ...**



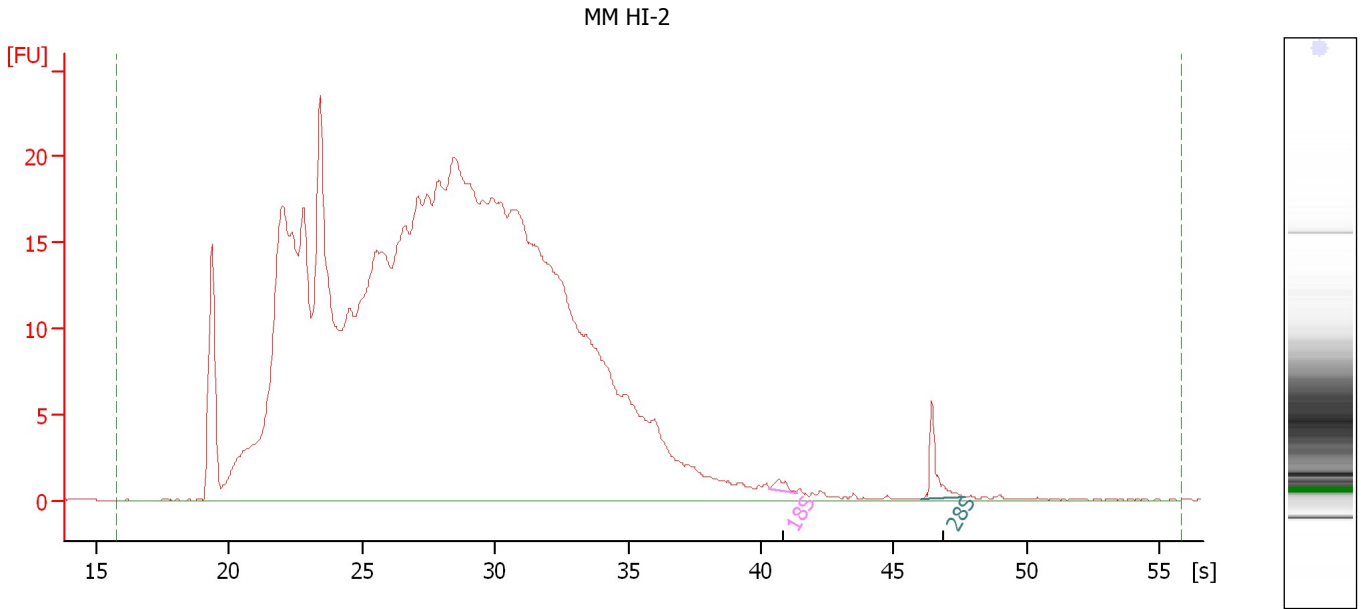
**Overall Results for sample 3 : MM SC-3**

RNA Area:	720.9	RNA Integrity Number (RIN):	1.9 (B.02.08)
RNA Concentration:	2,508 pg/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]:	0.0	Result Flagging Label:	RIN: 1.90

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-16\2013-04-16\_003.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : MM HI-2**

RNA Area: 692.7                      RNA Integrity Number (RIN): 2.2 (B.02.08)  
RNA Concentration: 2,410 pg/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 4.4                      Result Flagging Label: RIN: 2.20

**Fragment table for sample 4 : MM HI-2**

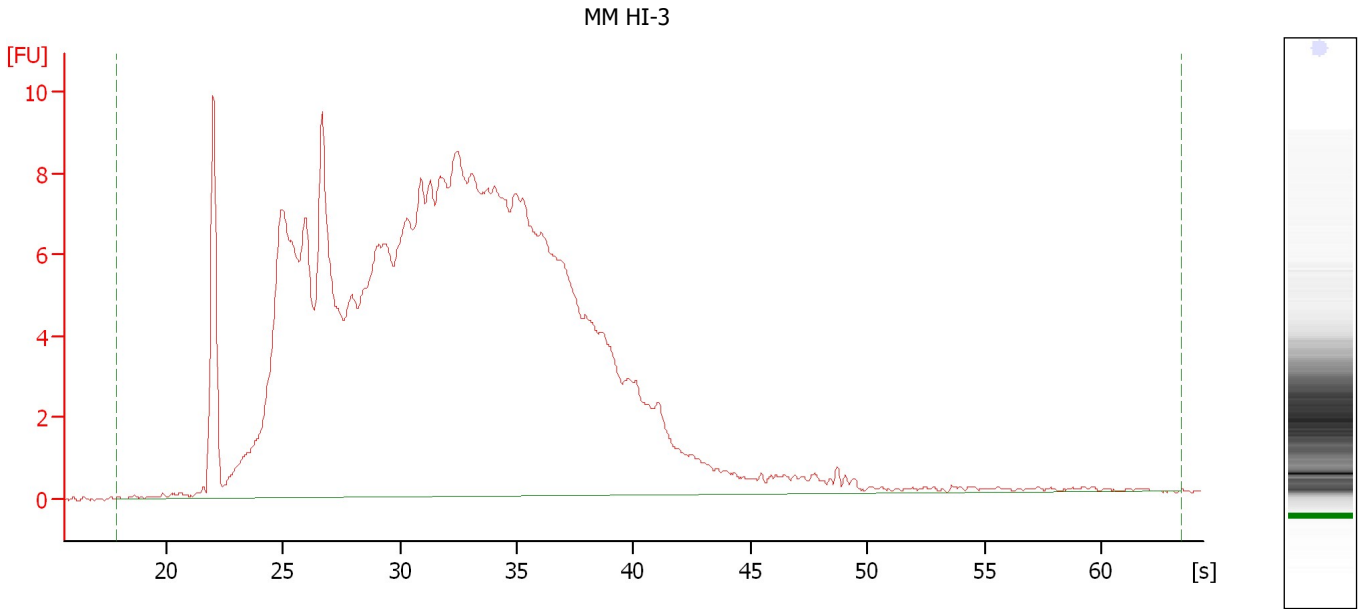
Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.32	41.33	0.8	0.1
28S	46.06	47.68	3.6	0.5



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**Electropherogram Summary Continued ...**



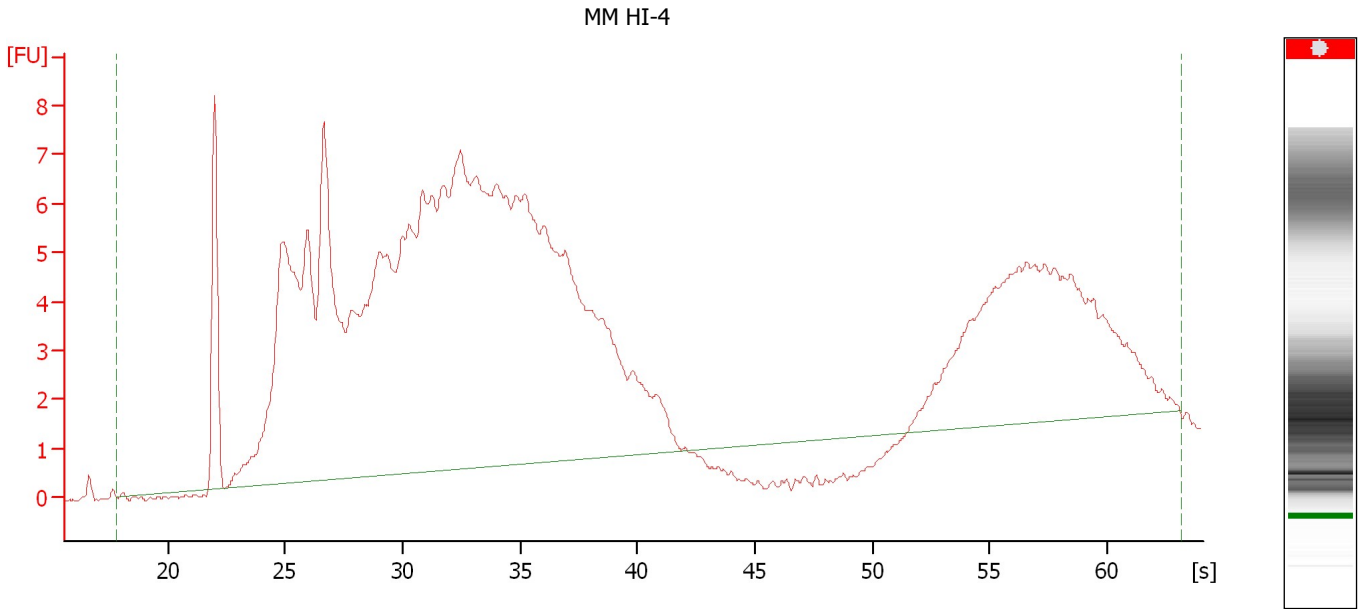
**Overall Results for sample 5 : MM HI-3**

RNA Area:	328.5	RNA Integrity Number (RIN):	2 (B.02.08)
RNA Concentration:	1,143 pg/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]:	0.0	Result Flagging Label:	RIN:2

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-16\2013-04-16\_003.xad

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**Electropherogram Summary Continued ...**



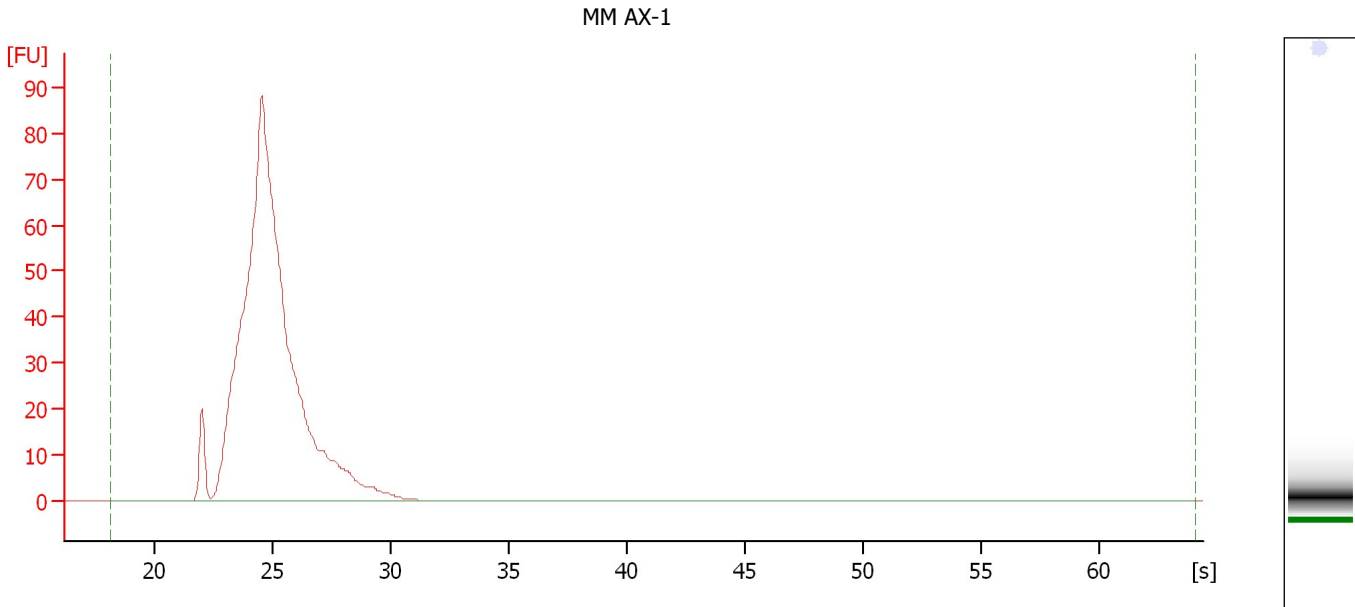
**Overall Results for sample 6 : MM HI-4**

RNA Area:	266.8	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	928 µg/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

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-16\2013-04-16\_003.xad

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**Electropherogram Summary Continued ...**



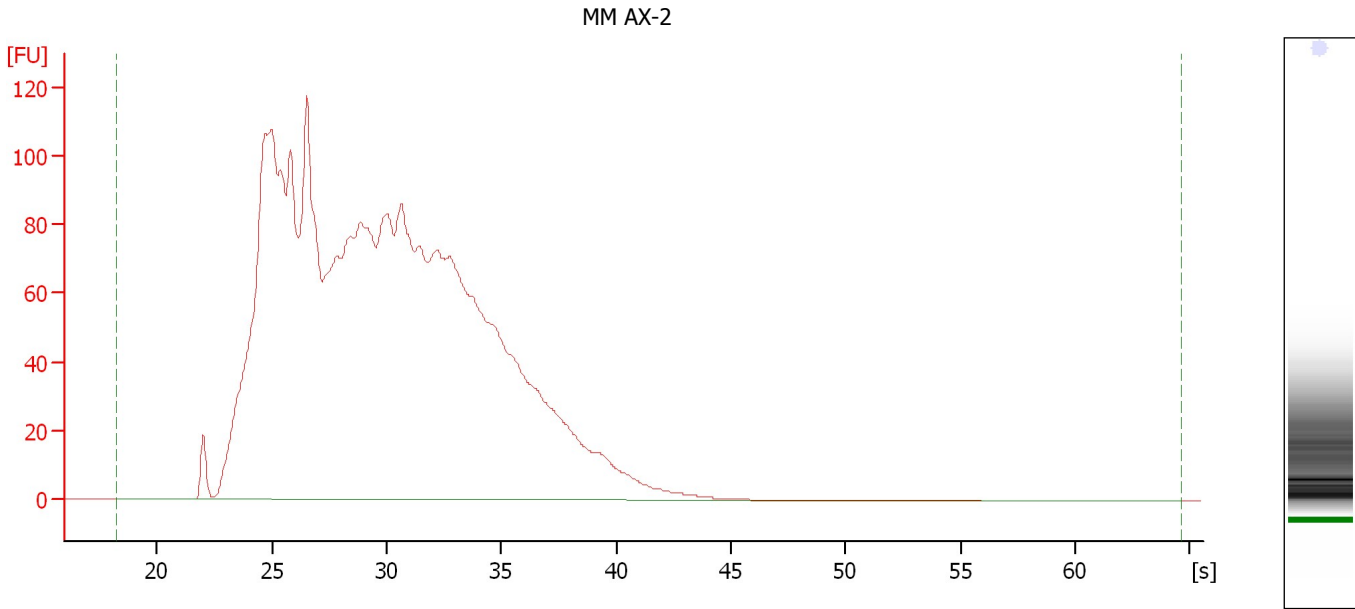
**Overall Results for sample 7 : MM AX-1**

RNA Area:	735.3	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	2,558 pg/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]:	0.0	Result Flagging Label:	RIN: 2.60

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**Electropherogram Summary Continued ...**



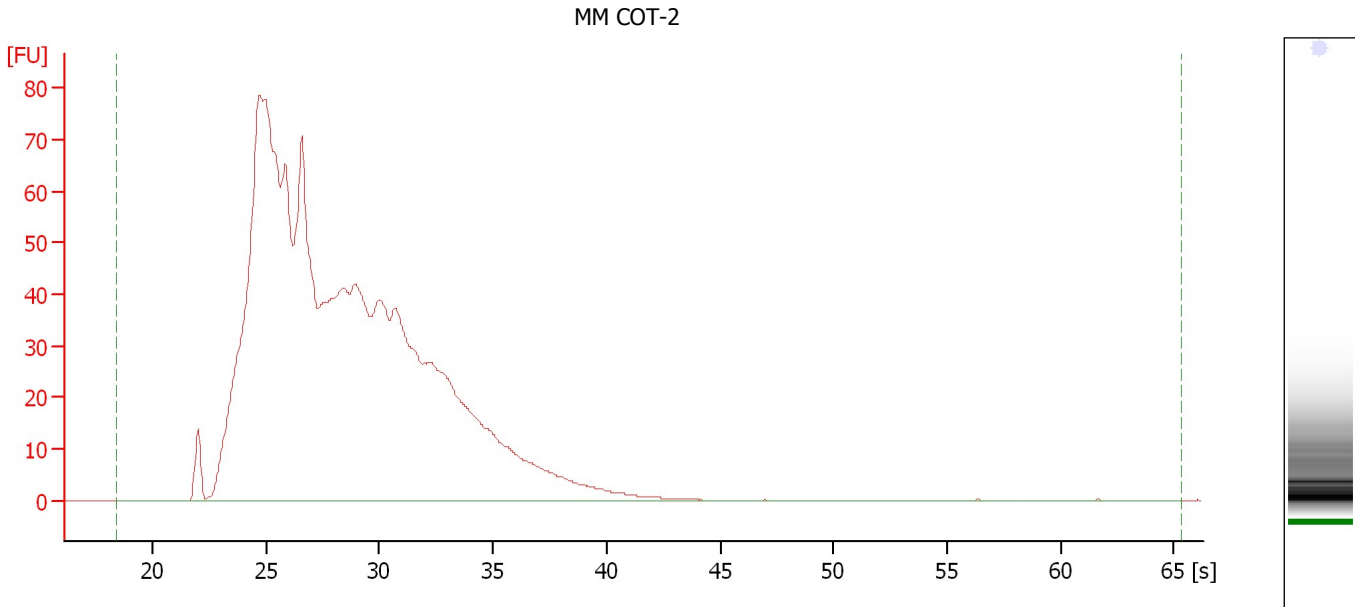
**Overall Results for sample 8 : MM AX-2**

RNA Area:	3,382.1	RNA Integrity Number (RIN):	1.8 (B.02.08)
RNA Concentration:	11,766 pg/ $\mu$ l	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.80

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-16\2013-04-16\_003.xad

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**Electropherogram Summary Continued ...**



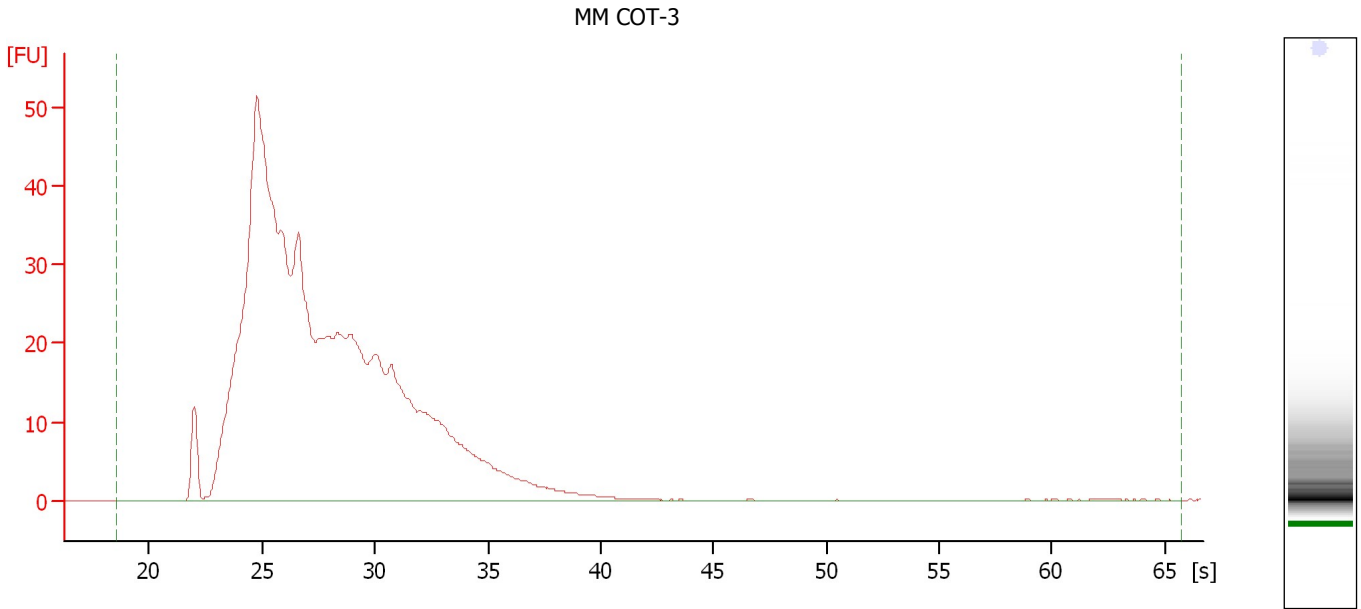
**Overall Results for sample 9 : MM COT-2**

RNA Area:	1,714.9	RNA Integrity Number (RIN):	2 (B.02.08)
RNA Concentration:	5,966 pg/ $\mu$ l	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:2

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-16\2013-04-16\_003.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : MM COT-3**

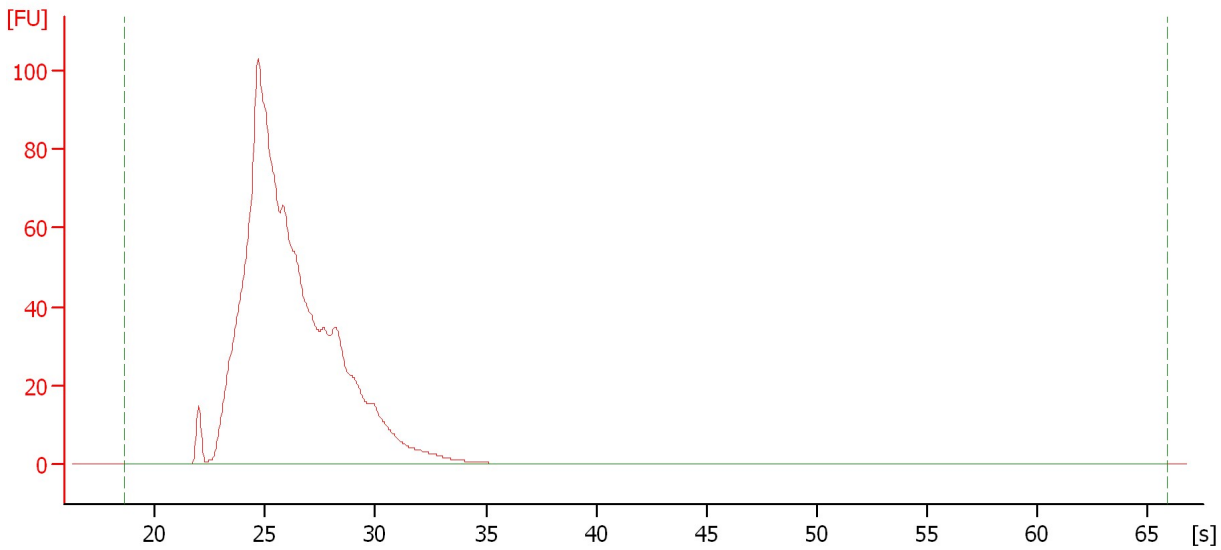
RNA Area:	882.1	RNA Integrity Number (RIN):	2.1 (B.02.08)
RNA Concentration:	3,069 pg/ $\mu$ l	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.10

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-16\2013-04-16\_003.xad

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**Electropherogram Summary Continued ...**

Glob Scr embed 4/11



**Overall Results for sample 11 : Glob Scr embed 4/11**

RNA Area:	1,271.4	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	4,423 pg/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]:	0.0	Result Flagging Label:	RIN: 2.40

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-16\2013-04-16\_003.xad

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**Gel Image**



Assay Class: Eukaryote Total RNA Pico  
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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: 12)		Instrument	Run		4/16/2013 3:53:19 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-04-16\2013-04-16_003.xad)		Instrument	Run		4/16/2013 3:30:32 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/16/2013 3:30:32 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/16/2013 3:30:32 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/16/2013 3:30:32 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/16/2013 3:30:32 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/16/2013 3:30:32 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/16/2013 3:30:32 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1