151015 mir29A NEON a

Experiment

Creation Date	18/04/2020 04:53:39 p. m.	Last Modified Date	18/04/2020 05:22:16 p. m.
Operator	System Admin	Owner	System Admin
Start Time	15/10/2015 03:49:00 p. m.	End Time	15/10/2015 05:32:21 p. m.
Run State	Completed	Software Version	LCS480 1.5.0.39 (Converted from LCS4 4.
Macro		Macro Owner	
Macro Status			
Templates	04FEB14_PATY Run Protocol	Plate ID	
Test ID		Lot ID	
Color Comp ID			
Run Notes			

Programs

Program Name	Program		
Cycles	1	Analysis Mode	None

Target (°C)	Acquisition Mode	Hold (hh:mm:ss)	Ramp Rate (°C/s)	Acquisitions (per °C)	Sec Target (°C)	Step size (°C)	Step Delay (cycles)
95	None	00:10:00	20.00		0	0	0

Program Name	Program		
Cycles	50	Analysis Mode	Quantification

Target (°C)	Acquisition Mode	Hold (hh:mm:ss)	Ramp Rate (°C/s)	Acquisitions (per °C)	Sec Target (°C)	Step size (°C)	Step Delay (cycles)
95	None	00:00:10	20.00		0	0	0
55	None	00:00:30	20.00		0	0	0
72	Single	00:00:30	20.00		0	0	0

Program Name	Program		
Cycles	1	Analysis Mode	None

Target (°C)	Acquisition Mode	Hold (hh:mm:ss)	Ramp Rate (°C/s)	Acquisitions (per °C)	Sec Target (°C)	Step size (°C)	Step Delay (cycles)
40	None	00:10:00	20.00		0	0	0

Samples

Sample Count	32
Subset	All Samples

Pos	Name	ID	Repl. Of	Sample Notes
A1	M1		A1	
A2	M1		A1	

Samples

Sample Count	32
Subset	All Samples

Pos	Name	ID	Repl. Of	Sample Notes
A3	M2		A3	
A4	M2		A3	
A5	M3		A5	
A6	M3		A5	
A7	M4		A7	
A8	M4		A7	
B1	M5		B1	
B2	M5		B1	
B3	M6		B3	
B4	M6		B3	
B5	M7		B5	
B6	M7		B5	
B7	M8		B7	
B8	M8		B7	
C1	M9		C1	
C2	M9		C1	
C3	M10		C3	
C4	M10		C3	
C5	M11		C5	
C6	M11		C5	
C7	M12		C7	
C8	M12		C7	
D1	M13		D1	
D2	M13		D1	
D3	M14		D3	
D4	M14		D3	
D5	M15		D5	
D6	M15		D5	
D7	NEG RT			
D8	NTC			

Revision History

Revision	Date	User	Reason

Abs Quant/2nd Derivative Max for All Samples (Abs Quant/2nd Derivative Max)

Settings

Channel	470-530		
Color Compensation	Off		
Program	Program	Units	
Mode	High Confidence		

Subset Name	All Samples

Results

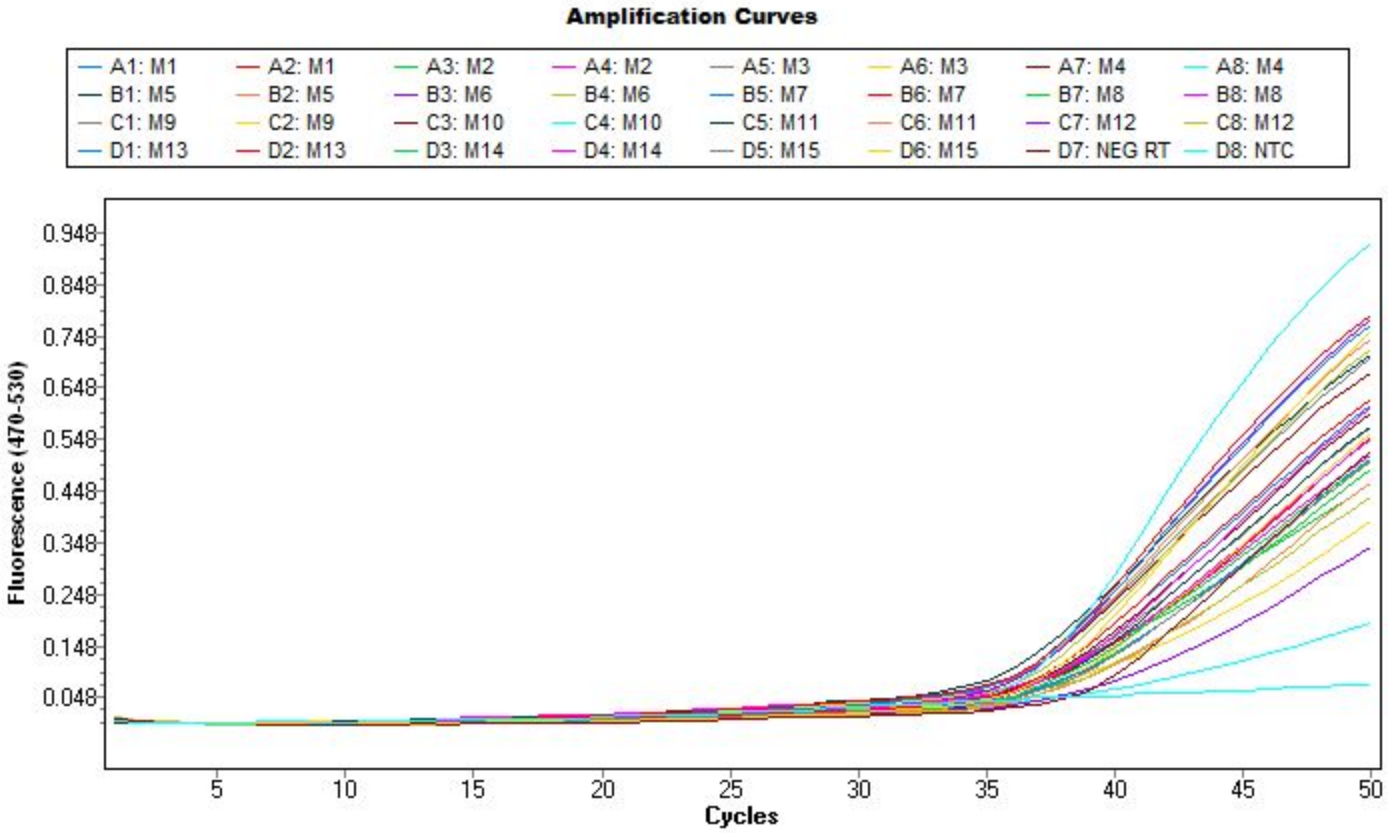
Inc	Pos	Name	Type	CP	Concentration	Standard	Status
☑	A1	M1	Unknown	36.65			
☑	A2	M1	Unknown	37.88			
☑	A3	M2	Unknown	36.77			
☑	A4	M2	Unknown	37.99			
☑	A5	M3	Unknown	36.64			
☑	A6	M3	Unknown	38.90			
☑	A7	M4	Unknown	36.07			
☑	A8	M4	Unknown	38.34			
☑	B1	M5	Unknown	36.02			
☑	B2	M5	Unknown	36.33			
☑	B3	M6	Unknown	36.79			
☑	B4	M6	Unknown	36.94			
☑	B5	M7	Unknown	36.83			
☑	B6	M7	Unknown	36.85			
☑	B7	M8	Unknown	37.27			
☑	B8	M8	Unknown	37.10			
☑	C1	M9	Unknown	36.78			
☑	C2	M9	Unknown	37.85			
☑	C3	M10	Unknown	36.95			
☑	C4	M10	Unknown	37.00			
☑	C5	M11	Unknown	37.35			
☑	C6	M11	Unknown	37.92			
☑	C7	M12	Unknown	38.92			
☑	C8	M12	Unknown	37.28			
☑	D1	M13	Unknown	37.92			
☑	D2	M13	Unknown	36.75			
☑	D3	M14	Unknown	36.98			
☑	D4	M14	Unknown	37.37			
☑	D5	M15	Unknown	37.92			
☑	D6	M15	Unknown	37.28			

Results

Inc	Pos	Name	Type	CP	Concentration	Standard	Status
☑	D7	NEG RT	Unknown	39.26			
☑	D8	NTC	Unknown				

Statistics

Samples	Mean Cp	Std Cp	Mean conc	Std conc
A1, A2	37.26	0.87		
A3, A4	37.38	0.87		
A5, A6	37.77	1.60		
A7, A8	37.20	1.61		
B1, B2	36.18	0.22		
B3, B4	36.86	0.10		
B5, B6	36.84	0.02		
B7, B8	37.18	0.12		
C1, C2	37.32	0.75		
C3, C4	36.97	0.04		
C5, C6	37.64	0.41		
C7, C8	38.10	1.16		
D1, D2	37.34	0.82		
D3, D4	37.17	0.28		
D5, D6	37.60	0.46		


Amplification Curves
A1: M1
A2: M1
A3: M2
A4: M2
A5: M3
A6: M3
A7: M4
A8: M4
B1: M5
B2: M5
B3: M6
B4: M6
B5: M7
B6: M7
B7: M8
B8: M8
C1: M9
C2: M9
C3: M10
C4: M10
C5: M11
C6: M11
C7: M12
C8: M12
D1: M13
D2: M13
D3: M14
D4: M14
D5: M15
D6: M15
D7: NEG RT
D8: NTC
Fluorescence (470-530)
0.948
0.848
0.748
0.648
0.548
0.448
0.348
0.248
0.148
0.048
5
10
15
20
25
30
35
40
45
50
Cycles

180815MIR 486 5P NEONATOS_b

Experiment

Creation Date	18/04/2020 04:53:46 p. m.	Last Modified Date	18/04/2020 05:23:20 p. m.
Operator	System Admin	Owner	System Admin
Start Time	18/08/2015 12:57:21 p. m.	End Time	18/08/2015 02:15:11 p. m.
Run State	Completed	Software Version	LCS480 1.5.0.39 (Converted from LCS4 4.
Macro		Macro Owner	
Macro Status			
Templates	04FEB14_PATY Run Protocol	Plate ID	
Test ID		Lot ID	
Color Comp ID			
Run Notes			

Programs

Program Name	Program		
Cycles	1	Analysis Mode	None

Target (°C)	Acquisition Mode	Hold (hh:mm:ss)	Ramp Rate (°C/s)	Acquisitions (per °C)	Sec Target (°C)	Step size (°C)	Step Delay (cycles)
95	None	00:10:00	20.00		0	0	0

Program Name	Program		
Cycles	50	Analysis Mode	Quantification

Target (°C)	Acquisition Mode	Hold (hh:mm:ss)	Ramp Rate (°C/s)	Acquisitions (per °C)	Sec Target (°C)	Step size (°C)	Step Delay (cycles)
95	None	00:00:10	20.00		0	0	0
60	None	00:00:30	20.00		0	0	0
72	Single	00:00:01	20.00		0	0	0

Program Name	Program		
Cycles	1	Analysis Mode	None

Target (°C)	Acquisition Mode	Hold (hh:mm:ss)	Ramp Rate (°C/s)	Acquisitions (per °C)	Sec Target (°C)	Step size (°C)	Step Delay (cycles)
40	None	00:10:00	20.00		0	0	0

Samples

Sample Count	32
Subset	All Samples

Pos	Name	ID	Repl. Of	Sample Notes
A1	M47		A1	
A2	M47		A1	

Samples

Sample Count	32
Subset	All Samples

Pos	Name	ID	Repl. Of	Sample Notes
A3	M48		A3	
A4	M48		A3	
A5	M49		A5	
A6	M49		A5	
A7	M50		A7	
A8	M50		A7	
B1	M135J		B1	
B2	M135J		B1	
B3	M136		B3	
B4	M136		B3	
B5	M137		B5	
B6	M137		B5	
B7	M138		B7	
B8	M138		B7	
C1	M139		C1	
C2	M139		C1	
C3	M140		C3	
C4	M140		C3	
C5	M141		C5	
C6	M141		C5	
C7	M142		C7	
C8	M142		C7	
D1	M143		D1	
D2	M143		D1	
D3	M144		D3	
D4	M144		D3	
D5	M88		D5	
D6	M88		D5	
D7	NEG RT			
D8	NTC			

Revision History

Revision	Date	User	Reason

Abs Quant/2nd Derivative Max for All Samples (Abs Quant/2nd Derivative Max)

Settings

Channel	470-530		
Color Compensation	Off		
Program	Program	Units	
Mode	High Confidence		

Subset Name	All Samples

Results

Inc	Pos	Name	Type	CP	Concentration	Standard	Status
☑	A1	M47	Unknown	24.06			
☑	A2	M47	Unknown	24.03			
☑	A3	M48	Unknown	22.94			
☑	A4	M48	Unknown	22.78			
☑	A5	M49	Unknown	23.04			
☑	A6	M49	Unknown	23.04			
☑	A7	M50	Unknown	24.46			
☑	A8	M50	Unknown	24.95			
☑	B1	M135J	Unknown	23.02			
☑	B2	M135J	Unknown	22.99			
☑	B3	M136	Unknown	24.78			
☑	B4	M136	Unknown	24.98			
☑	B5	M137	Unknown	23.16			
☑	B6	M137	Unknown	23.18			
☑	B7	M138	Unknown	24.45			
☑	B8	M138	Unknown	24.48			
☑	C1	M139	Unknown	25.53			
☑	C2	M139	Unknown	25.60			
☑	C3	M140	Unknown	27.13			
☑	C4	M140	Unknown	27.15			
☑	C5	M141	Unknown	24.68			
☑	C6	M141	Unknown	24.68			
☑	C7	M142	Unknown	25.91			
☑	C8	M142	Unknown	25.94			
☑	D1	M143	Unknown	24.46			
☑	D2	M143	Unknown	24.53			
☑	D3	M144	Unknown	24.91			
☑	D4	M144	Unknown	24.91			
☑	D5	M88	Unknown	25.04			
☑	D6	M88	Unknown	25.04			

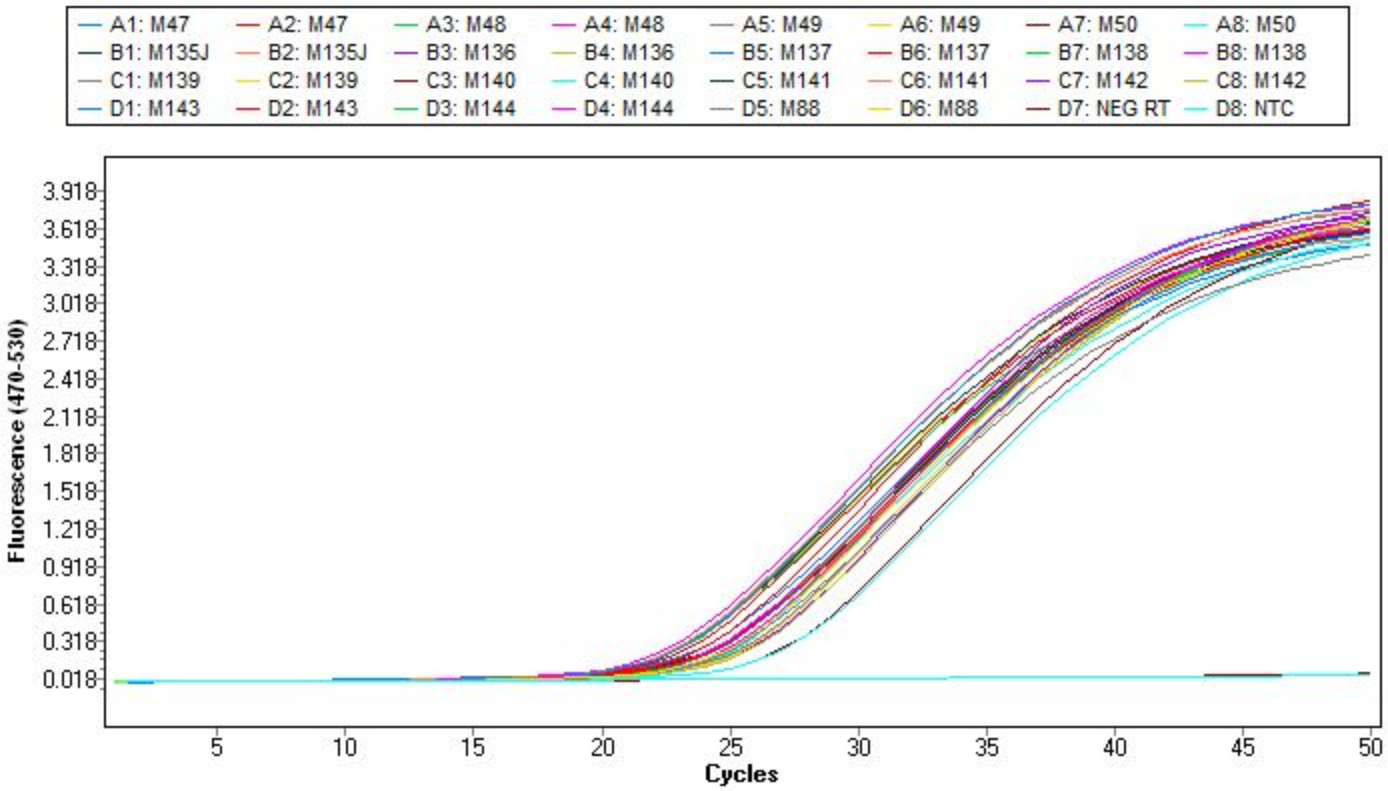
Results

Inc	Pos	Name	Type	CP	Concentration	Standard	Status
☑	D7	NEG RT	Unknown				
☑	D8	NTC	Unknown				

Statistics

Samples	Mean Cp	Std Cp	Mean conc	Std conc
A1, A2	24.05	0.02		
A3, A4	22.86	0.12		
A5, A6	23.04	0.00		
A7, A8	24.71	0.35		
B1, B2	23.01	0.02		
B3, B4	24.88	0.14		
B5, B6	23.17	0.02		
B7, B8	24.46	0.02		
C1, C2	25.57	0.05		
C3, C4	27.14	0.02		
C5, C6	24.68	0.00		
C7, C8	25.93	0.02		
D1, D2	24.49	0.05		
D3, D4	24.91	0.00		
D5, D6	25.04	0.00		

Amplification Curves



070715 16 5P 106A ALTO PESO

Experiment

Creation Date	18/04/2020 04:53:10 p. m.	Last Modified Date	18/04/2020 05:03:22 p. m.
Operator	System Admin	Owner	System Admin
Start Time	07/07/2015 11:19:22 a. m.	End Time	07/07/2015 12:36:18 p. m.
Run State	Completed	Software Version	LCS480 1.5.0.39 (Converted from LCS4 4.
Macro		Macro Owner	
Macro Status			
Templates	04FEB14_PATY Run Protocol	Plate ID	
Test ID		Lot ID	
Color Comp ID			
Run Notes			

Programs

Program Name	Program		
Cycles	1	Analysis Mode	None

Target (°C)	Acquisition Mode	Hold (hh:mm:ss)	Ramp Rate (°C/s)	Acquisitions (per °C)	Sec Target (°C)	Step size (°C)	Step Delay (cycles)
95	None	00:10:00	20.00		0	0	0

Program Name	Program		
Cycles	50	Analysis Mode	Quantification

Target (°C)	Acquisition Mode	Hold (hh:mm:ss)	Ramp Rate (°C/s)	Acquisitions (per °C)	Sec Target (°C)	Step size (°C)	Step Delay (cycles)
95	None	00:00:10	20.00		0	0	0
60	None	00:00:30	20.00		0	0	0
72	Single	00:00:01	20.00		0	0	0

Program Name	Program		
Cycles	1	Analysis Mode	None

Target (°C)	Acquisition Mode	Hold (hh:mm:ss)	Ramp Rate (°C/s)	Acquisitions (per °C)	Sec Target (°C)	Step size (°C)	Step Delay (cycles)
40	None	00:10:00	20.00		0	0	0

Samples

Sample Count	32
Subset	All Samples

Pos	Name	ID	Repl. Of	Sample Notes
A1	16 5P 88		A1	
A2	16 5P 88		A1	

Samples

Sample Count	32
Subset	All Samples

Pos	Name	ID	Repl. Of	Sample Notes
A3	16 5P 89		A3	
A4	16 5P 89		A3	
A5	16 5P 90		A5	
A6	16 5P 90		A5	
A7	16 5P 145		A7	
A8	16 5P 145		A7	
B1	16 5P 146		B1	
B2	16 5P 146		B1	
B3	16 5P 147		B3	
B4	16 5P 147		B3	
B5	16 5P 148		B5	
B6	16 5P 148		B5	
B7	16 5P 149		B7	
B8	16 5P 149		B7	
C1	16 5P 150		C1	
C2	16 5P 150		C1	
C3	16 5P 151		C3	
C4	16 5P 151		C3	
C5	16 5P NEG RT			
C6	16 5P NTC			
C7	106A 88		C7	
C8	106A 88		C7	
D1	106A 89		D1	
D2	106A 89		D1	
D3	106A 90		D3	
D4	106A 90		D3	
D5	106A 145		D5	
D6	106A 145		D5	
D7	106A 146		D7	
D8	106A 146		D7	

Revision History

Revision	Date	User	Reason

Abs Quant/2nd Derivative Max for All Samples (Abs Quant/2nd Derivative Max)

Settings

Channel	470-530		
Color Compensation	Off		
Program	Program	Units	
Mode	High Confidence		

Subset Name	All Samples

Results

Inc	Pos	Name	Type	CP	Concentration	Standard	Status
☑	A1	16 5P 88	Unknown	26.72			
☑	A2	16 5P 88	Unknown	26.61			
☑	A3	16 5P 89	Unknown	26.24			
☑	A4	16 5P 89	Unknown	26.31			
☑	A5	16 5P 90	Unknown	26.57			
☑	A6	16 5P 90	Unknown	26.48			
☑	A7	16 5P 145	Unknown	26.07			
☑	A8	16 5P 145	Unknown	26.14			
☑	B1	16 5P 146	Unknown	24.73			
☑	B2	16 5P 146	Unknown	24.69			
☑	B3	16 5P 147	Unknown	25.63			
☑	B4	16 5P 147	Unknown	25.60			
☑	B5	16 5P 148	Unknown	25.71			
☑	B6	16 5P 148	Unknown	25.85			
☑	B7	16 5P 149	Unknown	25.07			
☑	B8	16 5P 149	Unknown	25.05			
☑	C1	16 5P 150	Unknown	25.66			
☑	C2	16 5P 150	Unknown	25.71			
☑	C3	16 5P 151	Unknown	25.41			
☑	C4	16 5P 151	Unknown	25.38			
☑	C5	16 5P NEG RT	Unknown				
☑	C6	16 5P NTC	Unknown				
☑	C7	106A 88	Unknown	32.22			
☑	C8	106A 88	Unknown	32.22			
☑	D1	106A 89	Unknown	31.61			
☑	D2	106A 89	Unknown	31.59			
☑	D3	106A 90	Unknown	33.69			
☑	D4	106A 90	Unknown	33.57			
☑	D5	106A 145	Unknown	32.55			
☑	D6	106A 145	Unknown	32.63			

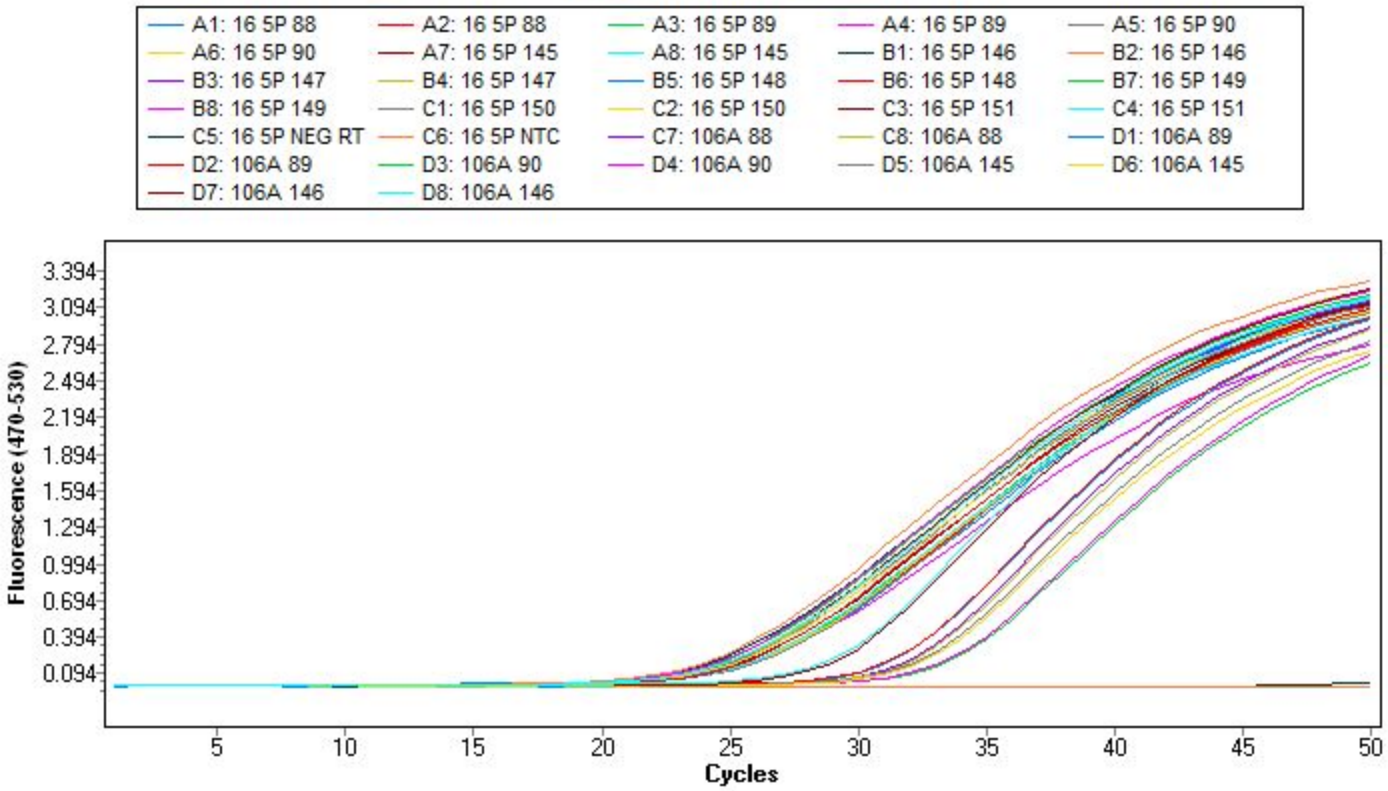
Results

Inc	Pos	Name	Type	CP	Concentration	Standard	Status
☑	D7	106A 146	Unknown	29.51			
☑	D8	106A 146	Unknown	29.48			

Statistics

Samples	Mean Cp	Std Cp	Mean conc	Std conc
A1, A2	26.67	0.07		
A3, A4	26.27	0.05		
A5, A6	26.53	0.06		
A7, A8	26.11	0.05		
B1, B2	24.71	0.03		
B3, B4	25.62	0.02		
B5, B6	25.78	0.10		
B7, B8	25.06	0.01		
C1, C2	25.68	0.04		
C3, C4	25.40	0.02		
C7, C8	32.22	0.00		
D1, D2	31.60	0.01		
D3, D4	33.63	0.08		
D5, D6	32.59	0.06		
D7, D8	29.49	0.02		

Amplification Curves



070715 106A ALTO PESO b

Experiment

Creation Date	18/04/2020 04:53:12 p. m.	Last Modified Date	18/04/2020 05:04:59 p. m.
Operator	System Admin	Owner	System Admin
Start Time	07/07/2015 12:40:39 p. m.	End Time	07/07/2015 01:52:34 p. m.
Run State	Completed	Software Version	LCS480 1.5.0.39 (Converted from LCS4 4.
Macro		Macro Owner	
Macro Status			
Templates	04FEB14_PATY Run Protocol	Plate ID	
Test ID		Lot ID	
Color Comp ID			
Run Notes			

Programs

Program Name	Program		
Cycles	1	Analysis Mode	None

Target (°C)	Acquisition Mode	Hold (hh:mm:ss)	Ramp Rate (°C/s)	Acquisitions (per °C)	Sec Target (°C)	Step size (°C)	Step Delay (cycles)
95	None	00:10:00	20.00		0	0	0

Program Name	Program		
Cycles	50	Analysis Mode	Quantification

Target (°C)	Acquisition Mode	Hold (hh:mm:ss)	Ramp Rate (°C/s)	Acquisitions (per °C)	Sec Target (°C)	Step size (°C)	Step Delay (cycles)
95	None	00:00:10	20.00		0	0	0
60	None	00:00:30	20.00		0	0	0
72	Single	00:00:01	20.00		0	0	0

Program Name	Program		
Cycles	1	Analysis Mode	None

Target (°C)	Acquisition Mode	Hold (hh:mm:ss)	Ramp Rate (°C/s)	Acquisitions (per °C)	Sec Target (°C)	Step size (°C)	Step Delay (cycles)
40	None	00:10:00	20.00		0	0	0

Samples

Sample Count	14
Subset	All Samples

Pos	Name	ID	Repl. Of	Sample Notes
A1	106a M147		A1	
A2	106a M147		A1	

Samples

Sample Count	14
Subset	All Samples

Pos	Name	ID	Repl. Of	Sample Notes
A3	106A M148		A3	
A4	106A M148		A3	
A5	106A M149		A5	
A6	106A M149		A5	
A7	106A M150		A7	
A8	106A M150		A7	
B1	106A M151		B1	
B2	106A M151		B1	
B3	106A M50 LBW		B3	
B4	106A M50 LBW		B3	
B5	106A NEG RT			
B6	106A NTC			

Revision History

Revision	Date	User	Reason

Abs Quant/2nd Derivative Max for All Samples (Abs Quant/2nd Derivative Max)

Settings

Channel	470-530		
Color Compensation	Off		
Program	Program	Units	
Mode	High Confidence		

Subset Name	All Samples

Results

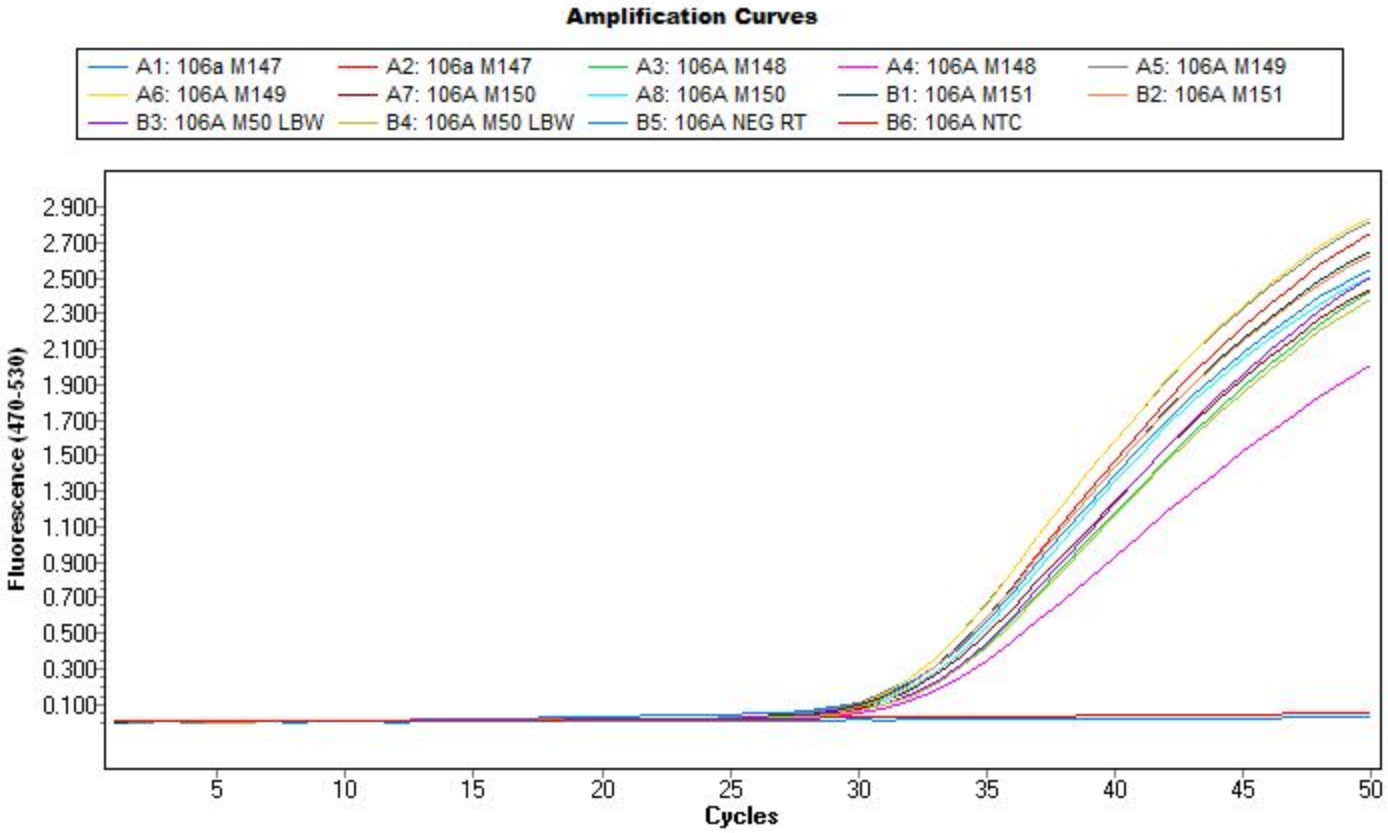
Inc	Pos	Name	Type	CP	Concentration	Standard	Status
☑	A1	106a M147	Unknown	32.39			
☑	A2	106a M147	Unknown	32.28			
☑	A3	106A M148	Unknown	32.80			
☑	A4	106A M148	Unknown	32.74			
☑	A5	106A M149	Unknown	32.00			
☑	A6	106A M149	Unknown	32.02			
☑	A7	106A M150	Unknown	32.32			
☑	A8	106A M150	Unknown	32.49			
☑	B1	106A M151	Unknown	32.11			

Results

Inc	Pos	Name	Type	CP	Concentration	Standard	Status
☑	B2	106A M151	Unknown	32.12			
☑	B3	106A M50 LBW	Unknown	32.91			
☑	B4	106A M50 LBW	Unknown	32.87			
☑	B5	106A NEG RT	Unknown				
☑	B6	106A NTC	Unknown				

Statistics

Samples	Mean Cp	Std Cp	Mean conc	Std conc
A1, A2	32.34	0.08		
A3, A4	32.77	0.04		
A5, A6	32.01	0.02		
A7, A8	32.40	0.12		
B1, B2	32.12	0.01		
B3, B4	32.89	0.03		



011015 MIR 126 3P NBW MACRO a

Experiment

Creation Date	18/04/2020 04:53:03 p. m.	Last Modified Date	18/04/2020 04:59:37 p. m.
Operator	System Admin	Owner	System Admin
Start Time	01/10/2015 01:02:13 p. m.	End Time	01/10/2015 02:43:13 p. m.
Run State	Completed	Software Version	LCS480 1.5.0.39 (Converted from LCS4 4.
Macro		Macro Owner	
Macro Status			
Templates	04FEB14_PATY Run Protocol	Plate ID	
Test ID		Lot ID	
Color Comp ID			
Run Notes			

Programs

Program Name	Program		
Cycles	1	Analysis Mode	None

Target (°C)	Acquisition Mode	Hold (hh:mm:ss)	Ramp Rate (°C/s)	Acquisitions (per °C)	Sec Target (°C)	Step size (°C)	Step Delay (cycles)
95	None	00:10:00	20.00		0	0	0

Program Name	Program		
Cycles	50	Analysis Mode	Quantification

Target (°C)	Acquisition Mode	Hold (hh:mm:ss)	Ramp Rate (°C/s)	Acquisitions (per °C)	Sec Target (°C)	Step size (°C)	Step Delay (cycles)
95	None	00:00:10	20.00		0	0	0
60	None	00:00:30	20.00		0	0	0
72	Single	00:00:30	20.00		0	0	0

Program Name	Program		
Cycles	1	Analysis Mode	None

Target (°C)	Acquisition Mode	Hold (hh:mm:ss)	Ramp Rate (°C/s)	Acquisitions (per °C)	Sec Target (°C)	Step size (°C)	Step Delay (cycles)
40	None	00:10:00	20.00		0	0	0

Samples

Sample Count	32
Subset	All Samples

Pos	Name	ID	Repl. Of	Sample Notes
A1	M11		A1	
A2	M11		A1	

Samples

Sample Count	32
Subset	All Samples

Pos	Name	ID	Repl. Of	Sample Notes
A3	M12		A3	
A4	M12		A3	
A5	M13		A5	
A6	M13		A5	
A7	M14		A7	
A8	M14		A7	
B1	M15		B1	
B2	M15		B1	
B3	M16		B3	
B4	M16		B3	
B5	M17		B5	
B6	M17		B5	
B7	M18		B7	
B8	M18		B7	
C1	M19		C1	
C2	M19		C1	
C3	M20		C3	
C4	M20		C3	
C5	M135		C5	
C6	M135		C5	
C7	M136		C7	
C8	M136		C7	
D1	M137		D1	
D2	M137		D1	
D3	M138		D3	
D4	M138		D3	
D5	M139		D5	
D6	M139		D5	
D7	NEG RT			
D8	NTC			

Revision History

Revision	Date	User	Reason

Abs Quant/2nd Derivative Max for All Samples (Abs Quant/2nd Derivative Max)

Settings

Channel	470-530		
Color Compensation	Off		
Program	Program	Units	
Mode	High Confidence		

Subset Name	All Samples

Results

Inc	Pos	Name	Type	CP	Concentration	Standard	Status
☑	A1	M11	Unknown	32.87			
☑	A2	M11	Unknown	32.83			
☑	A3	M12	Unknown	33.28			
☑	A4	M12	Unknown	33.40			
☑	A5	M13	Unknown	32.73			
☑	A6	M13	Unknown	32.61			
☑	A7	M14	Unknown	32.83			
☑	A8	M14	Unknown	32.84			
☑	B1	M15	Unknown	32.59			
☑	B2	M15	Unknown	32.65			
☑	B3	M16	Unknown	32.54			
☑	B4	M16	Unknown	32.78			
☑	B5	M17	Unknown	33.81			
☑	B6	M17	Unknown	33.93			
☑	B7	M18	Unknown	33.13			
☑	B8	M18	Unknown	33.20			
☑	C1	M19	Unknown	32.34			
☑	C2	M19	Unknown	32.21			
☑	C3	M20	Unknown	32.58			
☑	C4	M20	Unknown	32.49			
☑	C5	M135	Unknown	31.51			
☑	C6	M135	Unknown	31.57			
☑	C7	M136	Unknown	33.18			
☑	C8	M136	Unknown	33.04			
☑	D1	M137	Unknown	35.19			
☑	D2	M137	Unknown	34.87			
☑	D3	M138	Unknown	32.61			
☑	D4	M138	Unknown	32.58			
☑	D5	M139	Unknown	32.71			
☑	D6	M139	Unknown	32.70			

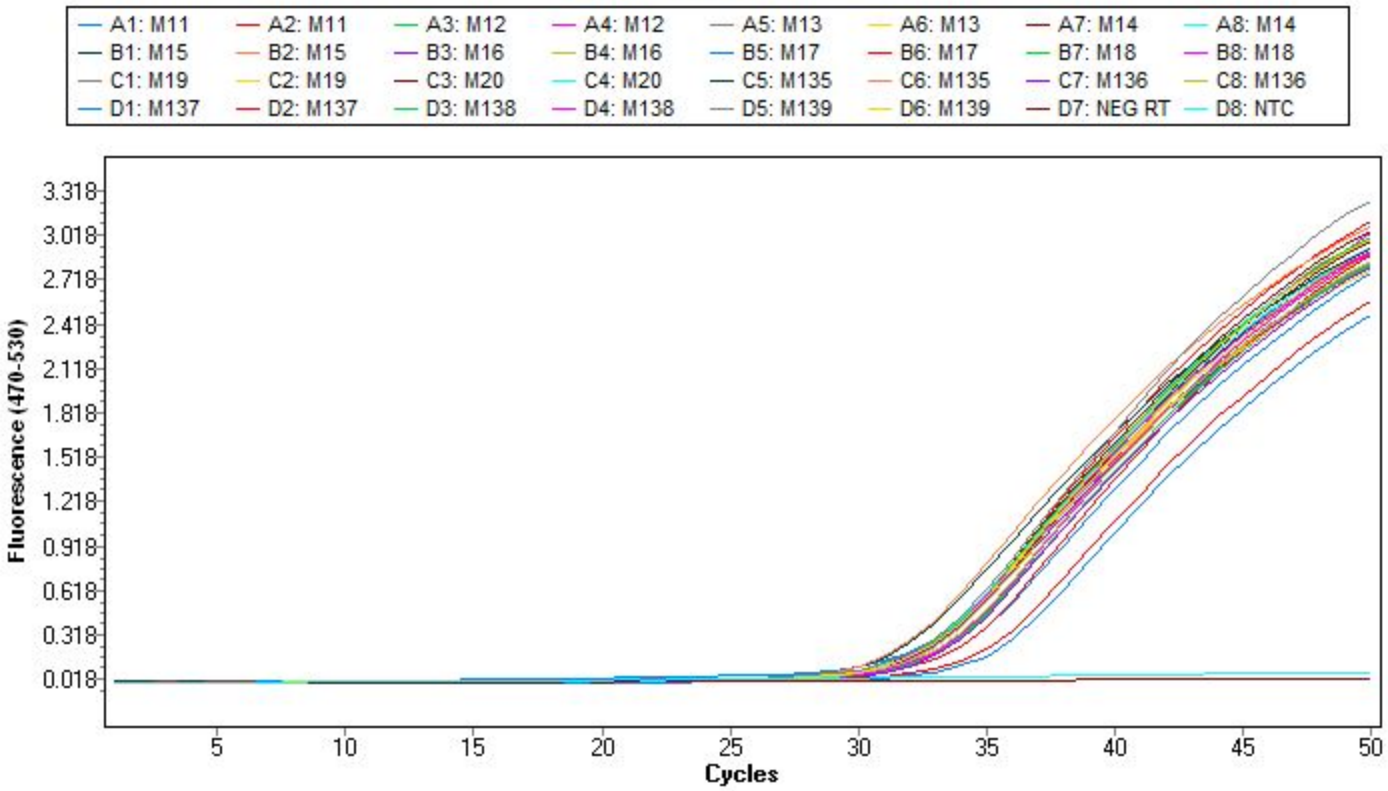
Results

Inc	Pos	Name	Type	CP	Concentration	Standard	Status
☑	D7	NEG RT	Unknown				
☑	D8	NTC	Unknown				

Statistics

Samples	Mean Cp	Std Cp	Mean conc	Std conc
A1, A2	32.85	0.03		
A3, A4	33.34	0.09		
A5, A6	32.67	0.08		
A7, A8	32.83	0.01		
B1, B2	32.62	0.04		
B3, B4	32.66	0.17		
B5, B6	33.87	0.09		
B7, B8	33.16	0.05		
C1, C2	32.28	0.10		
C3, C4	32.53	0.07		
C5, C6	31.54	0.05		
C7, C8	33.11	0.10		
D1, D2	35.03	0.22		
D3, D4	32.60	0.02		
D5, D6	32.70	0.00		

Amplification Curves



081215 MIR 221 3P NBW a

Experiment

Creation Date	18/04/2020 04:53:18 p. m.	Last Modified Date	18/04/2020 05:07:42 p. m.
Operator	System Admin	Owner	System Admin
Start Time	08/12/2015 11:28:59 a. m.	End Time	08/12/2015 01:12:22 p. m.
Run State	Completed	Software Version	LCS480 1.5.0.39 (Converted from LCS4 4.
Macro		Macro Owner	
Macro Status			
Templates	04FEB14_PATY Run Protocol	Plate ID	
Test ID		Lot ID	
Color Comp ID			
Run Notes			

Programs

Program Name	Program		
Cycles	1	Analysis Mode	None

Target (°C)	Acquisition Mode	Hold (hh:mm:ss)	Ramp Rate (°C/s)	Acquisitions (per °C)	Sec Target (°C)	Step size (°C)	Step Delay (cycles)
95	None	00:10:00	20.00		0	0	0

Program Name	Program		
Cycles	50	Analysis Mode	Quantification

Target (°C)	Acquisition Mode	Hold (hh:mm:ss)	Ramp Rate (°C/s)	Acquisitions (per °C)	Sec Target (°C)	Step size (°C)	Step Delay (cycles)
95	None	00:00:10	20.00		0	0	0
55	None	00:00:30	20.00		0	0	0
72	Single	00:00:30	20.00		0	0	0

Program Name	Program		
Cycles	1	Analysis Mode	None

Target (°C)	Acquisition Mode	Hold (hh:mm:ss)	Ramp Rate (°C/s)	Acquisitions (per °C)	Sec Target (°C)	Step size (°C)	Step Delay (cycles)
40	None	00:10:00	20.00		0	0	0

Samples

Sample Count	32
Subset	All Samples

Pos	Name	ID	Repl. Of	Sample Notes
A1	M1		A1	
A2	M1		A1	

Samples

Sample Count	32
Subset	All Samples

Pos	Name	ID	Repl. Of	Sample Notes
A3	M2		A3	
A4	M2		A3	
A5	M3		A5	
A6	M3		A5	
A7	M4		A7	
A8	M4		A7	
B1	M5		B1	
B2	M5		B1	
B3	M6		B3	
B4	M6		B3	
B5	M7		B5	
B6	M7		B5	
B7	M8		B7	
B8	M8		B7	
C1	M9		C1	
C2	M9		C1	
C3	M10		C3	
C4	M10		C3	
C5	M11		C5	
C6	M11		C5	
C7	M12		C7	
C8	M12		C7	
D1	M13		D1	
D2	M13		D1	
D3	M14		D3	
D4	M14		D3	
D5	M15		D5	
D6	M15		D5	
D7	NEG RT 221			
D8	NTC 221			

Revision History

Revision	Date	User	Reason

Abs Quant/2nd Derivative Max for All Samples (Abs Quant/2nd Derivative Max)

Settings

Channel	470-530		
Color Compensation	Off		
Program	Program	Units	
Mode	High Confidence		

Subset Name	All Samples

Results

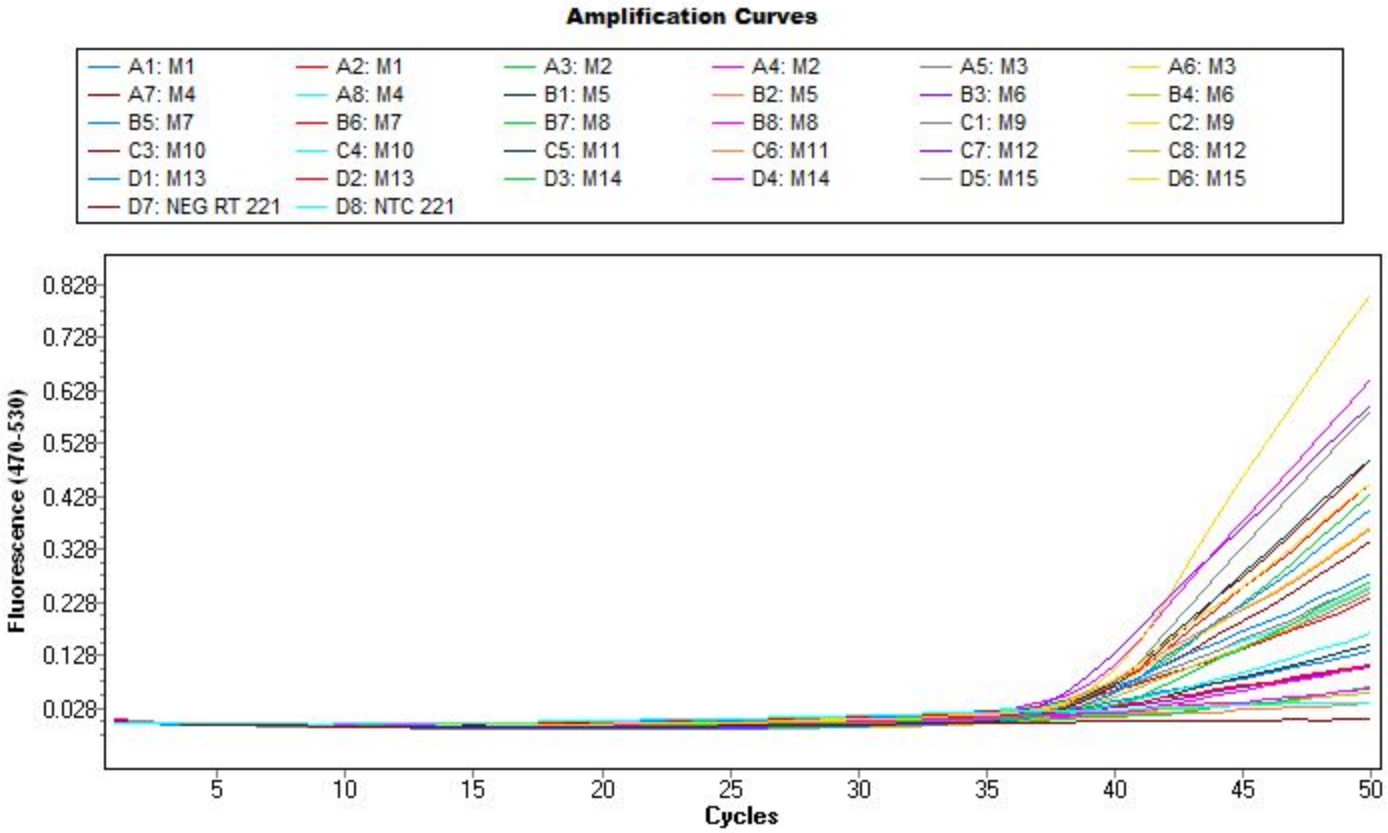
Inc	Pos	Name	Type	CP	Concentration	Standard	Status
☑	A1	M1	Unknown	38.07			
☑	A2	M1	Unknown	37.22			
☑	A3	M2	Unknown	40.05			
☑	A4	M2	Unknown	38.87			
☑	A5	M3	Unknown	38.66			
☑	A6	M3	Unknown	39.63			
☑	A7	M4	Unknown	38.84			
☑	A8	M4	Unknown	37.91			
☑	B1	M5	Unknown	39.02			
☑	B2	M5	Unknown				
☑	B3	M6	Unknown	39.04			
☑	B4	M6	Unknown				
☑	B5	M7	Unknown	38.13			
☑	B6	M7	Unknown	39.18			
☑	B7	M8	Unknown	41.51			
☑	B8	M8	Unknown	40.14			
☑	C1	M9	Unknown	38.24			
☑	C2	M9	Unknown	38.35			
☑	C3	M10	Unknown	39.05			
☑	C4	M10	Unknown	38.09			
☑	C5	M11	Unknown	38.67			
☑	C6	M11	Unknown	37.58			
☑	C7	M12	Unknown	37.50			
☑	C8	M12	Unknown	37.54			
☑	D1	M13	Unknown	38.78			
☑	D2	M13	Unknown	37.03			
☑	D3	M14	Unknown	39.86			
☑	D4	M14	Unknown				
☑	D5	M15	Unknown	39.38			
☑	D6	M15	Unknown	38.57			

Results

Inc	Pos	Name	Type	CP	Concentration	Standard	Status
☑	D7	NEG RT 221	Unknown				
☑	D8	NTC 221	Unknown				

Statistics

Samples	Mean Cp	Std Cp	Mean conc	Std conc
A1, A2	37.64	0.60		
A3, A4	39.46	0.84		
A5, A6	39.14	0.69		
A7, A8	38.38	0.66		
B1, B2	39.02			
B3, B4	39.04			
B5, B6	38.66	0.74		
B7, B8	40.82	0.96		
C1, C2	38.30	0.08		
C3, C4	38.57	0.68		
C5, C6	38.12	0.77		
C7, C8	37.52	0.03		
D1, D2	37.90	1.24		
D3, D4	39.86			
D5, D6	38.97	0.57		


Amplification Curves
A1: M1
A2: M1
A3: M2
A4: M2
A5: M3
A6: M3
A7: M4
A8: M4
B1: M5
B2: M5
B3: M6
B4: M6
B5: M7
B6: M7
B7: M8
B8: M8
C1: M9
C2: M9
C3: M10
C4: M10
C5: M11
C6: M11
C7: M12
C8: M12
D1: M13
D2: M13
D3: M14
D4: M14
D5: M15
D6: M15
D7: NEG RT 221
D8: NTC 221
Fluorescence (470-530)
0.828
0.728
0.628
0.528
0.428
0.328
0.228
0.128
0.028
5
10
15
20
25
30
35
40
45
50
Cycles

131115 mir320a NORMO MACRO a

Experiment

Creation Date	18/04/2020 04:02:54 p. m.	Last Modified Date	18/04/2020 04:05:31 p. m.
Operator	System Admin	Owner	System Admin
Start Time	13/11/2015 09:19:32 a. m.	End Time	13/11/2015 11:02:54 a. m.
Run State	Completed	Software Version	LCS480 1.5.0.39 (Converted from LCS4 4.
Macro		Macro Owner	
Macro Status			
Templates	04FEB14_PATY Run Protocol	Plate ID	
Test ID		Lot ID	
Color Comp ID			
Run Notes			

Programs

Program Name	Program		
Cycles	1	Analysis Mode	None

Target (°C)	Acquisition Mode	Hold (hh:mm:ss)	Ramp Rate (°C/s)	Acquisitions (per °C)	Sec Target (°C)	Step size (°C)	Step Delay (cycles)
95	None	00:10:00	20.00		0	0	0

Program Name	Program		
Cycles	50	Analysis Mode	Quantification

Target (°C)	Acquisition Mode	Hold (hh:mm:ss)	Ramp Rate (°C/s)	Acquisitions (per °C)	Sec Target (°C)	Step size (°C)	Step Delay (cycles)
95	None	00:00:10	20.00		0	0	0
55	None	00:00:30	20.00		0	0	0
72	Single	00:00:30	20.00		0	0	0

Program Name	Program		
Cycles	1	Analysis Mode	None

Target (°C)	Acquisition Mode	Hold (hh:mm:ss)	Ramp Rate (°C/s)	Acquisitions (per °C)	Sec Target (°C)	Step size (°C)	Step Delay (cycles)
40	None	00:10:00	20.00		0	0	0

Samples

Sample Count	32
Subset	All Samples

Pos	Name	ID	Repl. Of	Sample Notes
A1	M14		A1	
A2	M14		A1	

Samples

Sample Count	32
Subset	All Samples

Pos	Name	ID	Repl. Of	Sample Notes
A3	M15		A3	
A4	M15		A3	
A5	M16		A5	
A6	M16		A5	
A7	M17		A7	
A8	M17		A7	
B1	M18		B1	
B2	M18		B1	
B3	M19		B3	
B4	M19		B3	
B5	M20		B5	
B6	M20		B5	
B7	M135		B7	
B8	M135		B7	
C1	M136		C1	
C2	M136		C1	
C3	M137		C3	
C4	M137		C3	
C5	M138		C5	
C6	M138		C5	
C7	M139		C7	
C8	M139		C7	
D1	M140		D1	
D2	M140		D1	
D3	M141		D3	
D4	M141		D3	
D5	M142		D5	
D6	M142		D5	
D7	NEG RT			
D8	NTC			

Revision History

Revision	Date	User	Reason

Abs Quant/2nd Derivative Max for All Samples (Abs Quant/2nd Derivative Max)

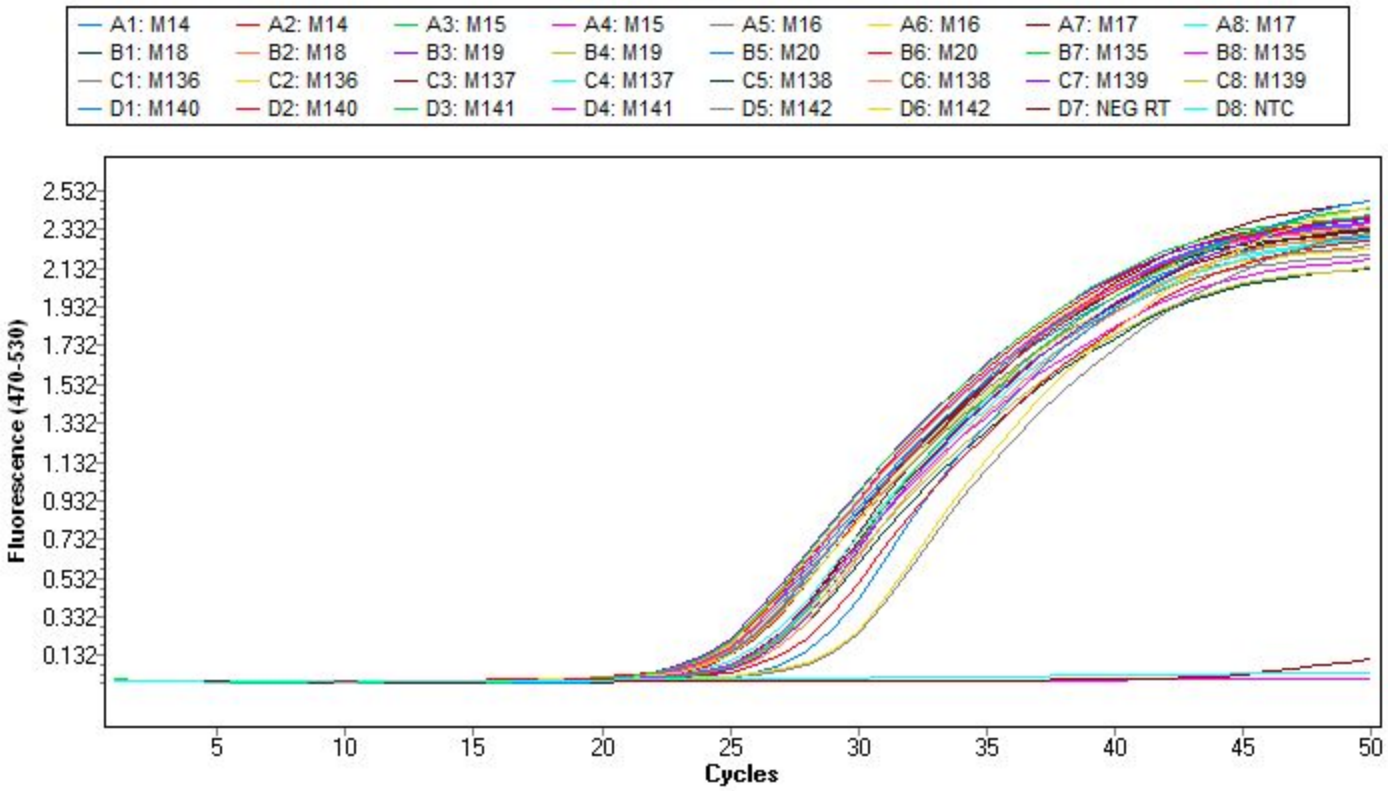
Results

Inc	Pos	Name	Type	CP	Concentration	Standard	Status

Results

Inc	Pos	Name	Type	CP	Concentration	Standard	Status
☑	A1	M14	Unknown				
☑	A2	M14	Unknown				
☑	A3	M15	Unknown				
☑	A4	M15	Unknown				
☑	A5	M16	Unknown				
☑	A6	M16	Unknown				
☑	A7	M17	Unknown				
☑	A8	M17	Unknown				
☑	B1	M18	Unknown				
☑	B2	M18	Unknown				
☑	B3	M19	Unknown				
☑	B4	M19	Unknown				
☑	B5	M20	Unknown				
☑	B6	M20	Unknown				
☑	B7	M135	Unknown				
☑	B8	M135	Unknown				
☑	C1	M136	Unknown				
☑	C2	M136	Unknown				
☑	C3	M137	Unknown				
☑	C4	M137	Unknown				
☑	C5	M138	Unknown				
☑	C6	M138	Unknown				
☑	C7	M139	Unknown				
☑	C8	M139	Unknown				
☑	D1	M140	Unknown				
☑	D2	M140	Unknown				
☑	D3	M141	Unknown				
☑	D4	M141	Unknown				
☑	D5	M142	Unknown				
☑	D6	M142	Unknown				
☑	D7	NEG RT	Unknown				
☑	D8	NTC	Unknown				

Amplification Curves



080415 mir106a NEWBORNS

8-abr-15

	CAPILLARY		SAMPLE NEWBORN	Cp	
			LOW BW		MEAN Cp
True	7	FEB13 M31 MIR 106A		27.3	27.27
True	8	Repl. of FEB13 M31 MIR 106A		27.24	
True	1	M32		25.72	25.73
True	2	Repl. of M32		25.74	
True	3	M33		27.29	27.2
True	4	Repl. of M33		27.11	
True	5	M34		25.26	25.27
True	6	Repl. of M34		25.28	
True	7	M35		26.01	25.865
True	8	Repl. of M35		25.72	
True	9	M36		28	27.935
True	10	Repl. of M36		27.87	
True	11	M37		25.59	25.585
True	12	Repl. of M37		25.58	
True	13	M38		25.53	25.555
True	14	Repl. of M38		25.58	
True	15	M39		25.51	25.515
True	16	Repl. of M39		25.52	
True	17	M40		27.49	27.54
True	18	Repl. of M40		27.59	
			NORMAL BW		
True	19	M1		28.11	28.075
True	20	Repl. of M1		28.04	
True	21	M2		28.97	28.985
True	22	Repl. of M2		29	
True	23	M3		27.19	27.225
True	24	Repl. of M3		27.26	
True	25	M4		27.87	27.845
True	26	Repl. of M4		27.82	
True	27	M5		28.29	28.325
True	28	Repl. of M5		28.36	
True	29	NEG RT LOW BW		>45.00	
True	30	NEG RT NORMAL BW		>45.00	
True	31	NTC			
True	1	M6		28.38	28.36
True	2	Repl. of M6		28.34	
True	3	M7		27.19	27.175
True	4	Repl. of M7		27.16	
True	5	M8		28.12	28.14
True	6	Repl. of M8		28.16	
True	7	M9		28.8	28.83
True	8	Repl. of M9		28.86	
True	9	M10		29.07	29.08
True	10	Repl. of M10		29.09	

		MACROSOMIA		
True	11	M61	25.95	25.985
True	12	Repl. of M61	26.02	
True	13	M62	25.73	25.77
True	14	Repl. of M62	25.81	
True	15	M63	26.15	26.19
True	16	Repl. of M63	26.23	
True	17	M64	25.97	26.01
True	18	Repl. of M64	26.05	
True	19	M65	26.05	26.13
True	20	Repl. of M65	26.21	
True	21	M66	26.77	26.815
True	22	Repl. of M66	26.86	
True	23	M67	25.69	25.7
True	24	Repl. of M67	25.71	
True	25	M68	24.87	24.97
True	26	Repl. of M68	25.07	
True	27	M69	26.87	26.89
True	28	Repl. of M69	26.91	
True	29	M70	25.23	25.41
True	30	Repl. of M70	25.59	
True	31	NEG RT MACROSOMIA	>45.00	
True	32	NTC	[15.50]	

RUN1

Crossing Point Cp mir 106a

BIRTH WEIGHT

miRNA	Cp Mean LOW	miRNA	Cp Mean NORMO
M31	27.27	M1	28.075
M32	25.73	M2	28.985
M33	27.2	M3	27.225
M34	25.27	M4	27.845
M35	25.865	M5	28.325
M36	27.935	M6	28.36
M37	25.585	M7	27.175
M38	25.555	M8	28.14
M39	25.515	M9	28.83
M40	27.54	M10	29.08
MEAN	26.35		28.20
SD	1.01		0.66
SEM	0.32		0.21

	Cp Mean
miRNA	MACROSOMIA
M61	25.985
M62	25.77
M63	26.19
M64	26.01
M65	26.13
M66	26.815
M67	25.7
M68	24.97
M69	26.89
M70	25.41
	25.99
	0.58
	0.18

Expression miR-16-5p

True	CAPILLARY	SAMPLE NEWBORN	Cp	MEAN Cp	
	1	M31	24.34	24.27	0
True	2	Repl. of M31	24.2		0
True	3	M32	22.12	22.1	0
True	4	Repl. of M32	22.08		0
True	5	M33	23.99	24.025	0
True	6	Repl. of M33	24.06		0
True	7	M34	21.88	21.9	0
True	8	Repl. of M34	21.92		0
True	9	M35	22.73	22.685	0
True	10	Repl. of M35	22.64		0
True	11	M36	23.98	23.99	0
True	12	Repl. of M36	24		0
True	13	M37	22.21	22.24	0
True	14	Repl. of M37	22.27		0
True	15	M38	22.55	22.6	0
True	16	Repl. of M38	22.65		0
True	17	M39	22.48	22.52	0
True	18	Repl. of M39	22.56		0
True	19	M40	23.45	23.29	0
True	20	Repl. of M40	23.13		0
True	21	M1	23.28	23.3	0
True	22	Repl. of M1	23.32		0
True	23	M2	24.64	24.685	0
True	24	Repl. of M2	24.73		0
True	25	M3	23.12	23.115	0
True	26	Repl. of M3	23.11		0
True	27	M4	23.29	23.26	0
True	28	Repl. of M4	23.23		0
True	29	NEG RT LOW BW			0
True	30	NEG RT NORMAL BW			0
True	31	NEG RT HIGH BW	[>45.00]		0
True	32	NTC			0
True	1	M5	24	23.99	0
True	2	Repl. of M5	23.98		0
True	3	M6	24.18	24.14	0
True	4	Repl. of M6	24.1		0
True	5	M7	22.78	22.76	0
True	6	Repl. of M7	22.74		0
True	7	M8	23.92	23.92	0
True	8	Repl. of M8	23.92		0
True	9	M9	24.75	24.755	0
True	10	Repl. of M9	24.76		0
True	11	M10	24.2	24.195	0
True	12	Repl. of M10	24.19		0
True	31	NTC			0

True	3	M61	22.29	21.86	0
True	4	Repl. of M61	21.43		0
True	5	M62	21.08	21.115	0
True	6	Repl. of M62	21.15		0
True	7	M63	22.1	22.12	0
True	8	Repl. of M63	22.14		0
True	9	M64	22.05	21.985	0
True	10	Repl. of M64	21.92		0
True	11	M65	22.3	22.13	0
True	12	Repl. of M65	21.96		0
True	13	M66	22.98	22.99	0
True	14	Repl. of M66	23		0
True	15	M67	21.67	21.65	0
True	16	Repl. of M67	21.63		0
True	17	M68	21.5	21.525	0
True	18	Repl. of M68	21.55		0
True	19	M69	23.55	23.475	0
True	20	Repl. of M69	23.4		0
True	21	M70	21.56	21.565	0
True	22	Repl. of M70	21.57		0
True	25	NEG RT MACROSOMIC			0
True	26	NTC			0

Crossing Point Cp mir 16-5p BIRTH WEIGHT

	Cp Mean		Cp Mean	
miRNA	LOW	miRNA	NORMAL	miRNA
M31	24.27	M1	23.3	M61
M32	22.1	M2	24.685	M62
M33	24.025	M3	23.115	M63
M34	21.9	M4	23.26	M64
M35	22.685	M5	23.99	M65
M36	23.99	M6	24.14	M66
M37	22.24	M7	22.76	M67
M38	22.6	M8	23.92	M68
M39	22.52	M9	24.755	M69
M40	23.29	M10	24.195	M70
MEAN	22.96		23.81	
SD	0.87		0.68	
SEM	0.27		0.21	

RELATIVE QUANTIFICATION OF GENE EXPRESSION OF miRNAs USING LIGHTCYCLER (ROCHE)

miRNA EXPRESSION IN NEONATAL SCREENING CARDS
SAMPLES FROM SAN LUIS POTOSÍ (SLP)

qPCR Experiment	Duplicate per type of sample	2 miRNAs REFERENCE (HK) Specific Cp for each gene per capillary		TARGET
	BIRTH WEIGHT	mir16-5p	mir106a	mir486-5p
	Normal M1	23.28	28.11	25.13
	M1 Rep	23.32	28.04	25.12
	M2	24.64	28.97	23.98
	M2	24.73	29	24.16
	M3	23.12	27.19	22.31
	M3	23.11	27.26	22.26
	M4	23.29	27.87	24.41
	M4	23.23	27.82	24.45
	M5	24	28.29	27.02
	M5	23.98	28.36	26.95
	M6	24.18	28.38	24.83
	M6	24.1	28.34	24.83
	M7	22.78	27.19	22.18
	M7	22.74	27.16	22.41
	M8	23.92	28.12	23.66
	M8	23.92	28.16	23.64
	M9	24.75	28.8	22.95
	M9	24.76	28.86	22.95
	M10	24.2	29.07	24.11
	M10	24.19	29.09	24.06
	Normal M11	22.99	28.81	22.69
	M11	21.96	27.85	22.74
	M12	23.16	27.67	22.07
	M12	22.24	28.52	22.17
	M13	22.4	28.16	22.25
	M13	21.79	29.29	22.4
	M14	22.8	31.39	22.21
	M14	22.27	31.95	22.29
	M15	21.05	27.74	20.74
	M15	22.34	28.69	20.9
	M16	23.45	28.31	22.83
	M16	23.21	29.86	22.81
	M17	24.12	30.41	23.76
	M17	25.15	29.94	23.6
	M18	22.82	30.03	22.91
	M18	23.12	30	22.85
	M19	25.18	29.31	23.32
	M19	24.47	29.32	23.24
	Low M31	24.34	27.3	29
	M31	24.2	27.24	28.99

M32	22.12	25.72	22.24
M32	22.08	25.74	22.23
M33	23.99	27.29	24.03
M33	24.06	27.11	24.06
M34	21.88	25.26	22.23
M34	21.92	25.28	22.2
M35	22.73	26.01	23.34
M35	22.64	25.72	23.37
M36	23.98	28	24.27
M36	24	27.87	24.22
M37	22.21	25.59	22.56
M37	22.27	25.58	22.6
M38	22.55	25.53	22.41
M38	22.65	25.58	22.53
M39	22.48	25.51	22.86
M39	22.56	25.52	22.91
M40	23.45	27.49	23.13
M40	23.13	27.59	23.13
Low M41	24.05	28.69	22.79
M41	24.07	28.65	22.81
M42	25.99	29.47	23.11
M42	25.92	29.35	23.12
M43	23.38	28.7	22.23
M43	23.27	28.4	22.23
M44	24.87	29.88	22.29
M44	24.94	30.07	22.42
M45	24.48	28.77	21.67
M45	24.43	28.86	21.83
M46	25.14	29.49	22.58
M46	25.07	29.61	22.58
M47	25.34	30.4	23.06
M47	25.3	30.35	23.03
M48	23.37	28.78	21.94
M48	24.13	28.8	21.78
M49	23.33	28.43	22.04
M49	23.67	28.43	22.04
Macrosomia M135	20.87	26.51	22.02
M135	20.81	26.4	21.99
M136	22.76	26.8	23.78
M136	21.61	26.75	23.98
M137	22.12	27.57	22.16
M137	22.13	26.91	22.18
M138	21.62	26.99	23.45
M138	21.6	26.95	23.48
M139	22.36	27.14	24.53
M139	21.64	27.15	24.6
M140	23.96	29.28	26.13
M140	23.15	29.27	26.15

M141	22.58	27.75	23.68
M141	22.55	27.74	23.68
M142	23.03	28.95	24.91
M142	22.99	28.98	24.94
M143	22.3	28.13	23.46
M143	22.13	28.1	23.53
M144	23.08	28.55	23.91
M144	22.99	28.83	23.91
Macrosomia M88	25.72	31.22	24.04
M88	25.61	31.22	24.04
M89	25.24	30.61	22.67
M89	25.31	30.59	22.64
M90	25.57	32.69	23.15
M90	25.48	32.57	22.96
M145	25.07	31.55	22.62
M145	25.14	31.63	22.77
M146	23.73	28.51	22.05
M146	23.69	28.48	22.18
M147	24.63	31.39	22.35
M147	24.6	31.28	22.39
M148	24.71	31.8	22.89
M148	24.85	31.74	22.9
M149	24.07	31	22.27
M149	24.05	31.02	22.34
M150	24.66	31.32	23.02
M150	24.71	31.49	22.98
M151	24.41	31.11	22.53
M151	24.38	31.12	22.54

	EXAMPLE	
REL EXP	LOG BASE 10	LOG BASE 2
0.5	-0.301029996	-1
1	0	0
2	0.301029996	1

M50 NO	**M50**	26.04	31.91	23.46
PREVIOUS MIRNAS	**M50**	25.89	31.87	23.95
NOT USED	M20	26.54	29.97	22.73
	M20	26.29	30.03	22.76

NBW
LBW
HBW

CALIBRATOR:
NBW 1

MED GEOM 2 HK	ΔCT mir486-5p	ΔΔCT mir486-5p	2^-(ΔΔCT mir486-5p)
25.58125876	-0.446293229	2.144203368	0.226
25.57132769	-0.456293229	2.134203368	0.228
26.71742503	-2.768727449	-0.178230852	1.131
26.78002987	-2.588727449	0.001769148	0.999
25.07255073	-2.775962611	-0.185466014	1.137
25.09937449	-2.825962611	-0.235466014	1.177
25.47728989	-1.039453336	1.551043261	0.341
25.42161679	-0.999453336	1.591043261	0.332
26.0568609	0.95246682	3.542963417	0.086
26.07820546	0.88246682	3.472963417	0.090
26.19596152	-1.33505771	1.255438888	0.419
26.1341539	-1.33505771	1.255438888	0.419
24.88751092	-2.689720213	-0.099223616	1.071
24.8519295	-2.459720213	0.130776384	0.913
25.93511905	-2.284338785	0.306157812	0.809
25.95355852	-2.304338785	0.286157812	0.820
26.69831455	-3.764912025	-1.174415428	2.257
26.7315095	-3.764912025	-1.174415428	2.257
26.52346131	-2.415281274	0.175215323	0.886
26.52710124	-2.465281274	0.125215323	0.917
25.73600396	-2.543134411	0.047362186	0.968
24.73026486	-2.493134411	0.097362186	0.935
25.31476249	-3.179886954	-0.589390356	1.505
25.18501142	-3.079886954	-0.489390356	1.404
25.11541359	-2.939305073	-0.348808475	1.274
25.26319655	-2.789305073	-0.198808475	1.148
26.75242045	-4.503437261	-1.912940664	3.766
26.67445407	-4.423437261	-1.832940664	3.563
24.16458152	-4.000633858	-1.410137261	2.658
25.3166862	-3.840633858	-1.250137261	2.379
25.76566514	-3.215759675	-0.625263078	1.542
26.32585421	-3.235759675	-0.645263078	1.564
27.08300574	-3.50184361	-0.911347013	1.881
27.44068148	-3.66184361	-1.071347013	2.101
26.1779411	-3.347113925	-0.756617327	1.690
26.33628675	-3.407113925	-0.816617327	1.761
27.16663027	-3.65604077	-1.065544173	2.093
26.78545127	-3.73604077	-1.145544173	2.212
25.77754837	3.273702689	5.864199287	0.017
25.67504625	3.263702689	5.854199287	0.017

23.8521781	-1.606021935	0.984474663	0.505
23.83986577	-1.616021935	0.974474663	0.509
25.58685405	-1.533182307	1.057314291	0.481
25.53951057	-1.503182307	1.087314291	0.471
23.50933432	-1.294730879	1.295765718	0.407
23.54012744	-1.324730879	1.265765718	0.416
24.31475478	-0.882832209	1.707664388	0.306
24.13090964	-0.852832209	1.737664388	0.300
25.91215931	-1.617436891	0.973059706	0.509
25.86271447	-1.667436891	0.923059706	0.527
23.84017408	-1.293931767	1.296564831	0.407
23.86768946	-1.253931767	1.336564831	0.396
23.99378044	-1.622119759	0.968376839	0.511
24.07045907	-1.502119759	1.088376839	0.470
23.94712509	-1.110762217	1.47973438	0.359
23.99439935	-1.060762217	1.52973438	0.346
25.38977156	-2.195767579	0.394729018	0.761
25.2617636	-2.195767579	0.394729018	0.761
26.26774638	-3.474043601	-0.883547004	1.845
26.26034082	-3.454043601	-0.863547004	1.820
27.67535546	-4.518544274	-1.928047677	3.805
27.58173309	-4.508544274	-1.918047677	3.779
25.90378351	-3.575568271	-0.985071673	1.979
25.70735303	-3.575568271	-0.985071673	1.979
27.26014673	-5.03264252	-2.442145923	5.434
27.38513831	-4.90264252	-2.312145923	4.966
26.53845512	-4.875614492	-2.285117894	4.874
26.55277387	-4.715614492	-2.125117894	4.362
27.2282684	-4.656934022	-2.066437424	4.189
27.24559964	-4.656934022	-2.066437424	4.189
27.75492749	-4.672562085	-2.082065487	4.234
27.71019668	-4.702562085	-2.112065487	4.323
25.93431318	-4.208051854	-1.617555257	3.069
26.36179053	-4.368051854	-1.777555257	3.428
25.7540657	-3.807558089	-1.217061492	2.325
25.94105048	-3.807558089	-1.217061492	2.325
23.5215582	-1.460250076	1.130246521	0.457
23.43894196	-1.490250076	1.100246521	0.466
24.69753024	-0.590282288	2.00021431	0.250
24.04303433	-0.390282288	2.20021431	0.218
24.69510883	-2.389176232	0.201320365	0.870
24.40324364	-2.369176232	0.221320365	0.858
24.15623729	-0.691700203	1.898796395	0.268
24.12716312	-0.661700203	1.928796395	0.263
24.63433376	0.093365308	2.683861905	0.156
24.23893562	0.163365308	2.753861905	0.148
26.48676651	-0.128763578	2.461733019	0.182
26.03076065	-0.108763578	2.481733019	0.179

25.03187967	-1.341308684	1.249187914	0.421
25.01073769	-1.341308684	1.249187914	0.421
25.8208927	-0.906357788	1.68413881	0.311
25.81182287	-0.876357788	1.71413881	0.305
25.04593779	-1.531459183	1.059037415	0.480
24.93698057	-1.461459183	1.129037415	0.457
25.66970978	-1.7973226	0.793173997	0.577
25.74493542	-1.7973226	0.793173997	0.577
28.3368735	-4.266543061	-1.676046464	3.196
28.27621262	-4.266543061	-1.676046464	3.196
27.79561836	-5.14032962	-2.549833023	5.856
27.82504088	-5.17032962	-2.579833023	5.979
28.91164644	-5.709673401	-3.119176803	8.689
28.80770036	-5.899673401	-3.309176803	9.912
28.12398443	-5.54144433	-2.950947733	7.733
28.19890423	-5.39144433	-2.800947733	6.969
26.01042676	-3.942622665	-1.352126068	2.553
25.97481857	-3.812622665	-1.222126068	2.333
27.80531784	-5.422482277	-2.83198568	7.121
27.73964672	-5.382482277	-2.79198568	6.926
28.03173202	-5.168114761	-2.577618164	5.970
28.0844975	-5.158114761	-2.567618164	5.928
27.31611246	-5.044840259	-2.454343662	5.481
27.31356806	-4.974840259	-2.384343662	5.221
27.79120724	-4.822985992	-2.232489395	4.699
27.89476474	-4.862985992	-2.272489395	4.832
27.55712431	-5.020867697	-2.4303711	5.390
27.54461109	-5.010867697	-2.4203711	5.353

28.82596746	-5.315385166	-2.724888568	6.611
28.72480287	-4.825385166	-2.234888568	4.707

28.20290411	-5.42037283	-2.689132421	6.449254584
28.09784155	-5.39037283	-2.659132421	6.316530843

Rep= replicate

FINAL WITH SOME REPETITIONS INCLUDED

Below the name of each sample

OK

	LOG BASE 2
	LOG2 EXPRESSION
	-2.144203368
	-2.134203368
	0.178230852
	-0.001769148
	0.185466014
	0.235466014
	-1.551043261
	-1.591043261
	-3.542963417
	-3.472963417
	-1.255438888
	-1.255438888
	0.099223616
	-0.130776384
	-0.306157812
	-0.286157812
	1.174415428
	1.174415428
	-0.175215323
	-0.125215323
	-0.047362186
	-0.097362186
	0.589390356
	0.489390356
	0.348808475
	0.198808475
	1.912940664
	1.832940664
	1.410137261
	1.250137261
	0.625263078
	0.645263078
	0.911347013
	1.071347013
	0.756617327
	0.816617327
MEAN NORMAL	1.065544173
1.341	1.145544173
SD	-5.864199287
0.886	-5.854199287

SEM	-0.984474663
0.144	-0.974474663
	-1.057314291
	-1.087314291
	-1.295765718
	-1.265765718
	-1.707664388
	-1.737664388
	-0.973059706
	-0.923059706
	-1.296564831
	-1.336564831
	-0.968376839
	-1.088376839
	-1.47973438
	-1.52973438
	-0.394729018
	-0.394729018
	0.883547004
	0.863547004
	1.928047677
	1.918047677
	0.985071673
	0.985071673
	2.442145923
	2.312145923
	2.285117894
	2.125117894
	2.066437424
	2.066437424
	2.082065487
	2.112065487
	1.617555257
	1.777555257
MEAN LOW	1.217061492
1.879	1.217061492
SD	-1.130246521
1.756	-1.100246521
SEM	-2.00021431
0.285	-2.20021431
	-0.201320365
	-0.221320365
	-1.898796395
	-1.928796395
	-2.683861905
	-2.753861905
	-2.461733019
	-2.481733019

	-1.249187914
	-1.249187914
	-1.68413881
	-1.71413881
	-1.059037415
	-1.129037415
	-0.793173997
	-0.793173997
	1.676046464
	1.676046464
	2.549833023
	2.579833023
	3.119176803
	3.309176803
	2.950947733
	2.800947733
	1.352126068
	1.222126068
	2.83198568
	2.79198568
	2.577618164
	2.567618164
	2.454343662
	2.384343662
	2.232489395
	2.272489395
MEAN MACRO	2.4303711
3.030	2.4203711
SD	
3.001	
SEM	
0.474	

2.259479552	MACRO VS NORMAL
1.612506685	MACRO VS LOW

RELATIVE QUANTIFICATION OF GENE EXPRESSION OF miRNAs USING LIGHTCYCLER (ROCHE)

miRNA EXPRESSION IN NEONATAL SCREENING CARDS

NEW MIRNAS

	Duplicate per type	2 miRNAs REFERENCIA (HK)		TARGET
qPCR	of sample	Specific Cp for each gene per capillary		
Experiment	BIRTH WEIGHT	mir16-5p	mir106a	mir126-3p
	Normal M1	23.28	28.11	31.87
	M1 Rep	23.32	28.04	31.9
	M2	24.64	28.97	31.84
	M2	24.73	29	31.79
	M3	23.12	27.19	31.61
	M3	23.11	27.26	31.66
	M4	23.29	27.87	31.12
	M4	23.23	27.82	31.15
	M5	24	28.29	32.68
	M5	23.98	28.36	32.7
	M6	24.18	28.38	32.85
	M6	24.1	28.34	32.84
	M7	22.78	27.19	30.72
	M7	22.74	27.16	30.7
	M8	23.92	28.12	32.22
	M8	23.92	28.16	32.04
	M9	24.75	28.8	32.95
	M9	24.76	28.86	33.09
	M10	24.2	29.07	32.12
	M10	24.19	29.09	32.12
	Normal M11	22.99	28.81	31.87
	M11	21.96	27.85	31.83
	M12	23.16	27.67	32.28
	M12	22.24	28.52	32.4
	M13	22.4	28.16	31.73
	M13	21.79	29.29	31.61
	M14	22.8	31.39	31.83
	M14	22.27	31.95	31.84
	M15	21.05	27.74	31.59
	M15	22.34	28.69	31.65
	M16	23.45	28.31	31.54
	M16	23.21	29.86	31.78
	M17	24.12	30.41	32.81
	M17	25.15	29.94	32.93
	M18	22.82	30.03	32.13
	M18	23.12	30	32.2
	M19	25.18	29.31	31.34
	M19	24.47	29.32	31.21
	Low M31	24.34	27.3	31.75
	M31	24.2	27.24	31.73

	M32	22.12	25.72	30
	M32	22.08	25.74	30.06
	M33	23.99	27.29	31.27
	M33	24.06	27.11	31.2
	M34	21.88	25.26	30.9
	M34	21.92	25.28	31.02
	M35	22.73	26.01	30.81
	M35	22.64	25.72	30.82
	M36	23.98	28	32.15
	M36	24	27.87	32.09
RE-PERFORMED M37 AND M38	M37	22.21	25.59	37.36
	M37	22.27	25.58	37.24
	M38	22.55	25.53	37.33
	M38	22.65	25.58	37.7
	M39	22.48	25.51	31.51
	M39	22.56	25.52	31.55
	M40	23.45	27.49	32.36
	M40	23.13	27.59	32.42
	Low M41	24.05	28.69	31.35
	M41	24.07	28.65	31.36
	M42	25.99	29.47	32.11
	M42	25.92	29.35	32.04
	M43	23.38	28.7	31.26
	M43	23.27	28.4	31.25
	M44	24.87	29.88	33.2
	M44	24.94	30.07	33.06
	M45	24.48	28.77	31.89
	M45	24.43	28.86	31.86
	M46	25.14	29.49	31.92
	M46	25.07	29.61	31.96
	M47	25.34	30.4	31.76
	M47	25.3	30.35	31.68
	M48	23.37	28.78	31.4
	M48	24.13	28.8	31.38
	M49	23.33	28.43	31.06
	M49	23.67	28.43	31.12
	Macrosomia M135	20.87	26.51	30.51
	M135	20.81	26.4	30.57
	M136	22.76	26.8	32.18
	M136	21.61	26.75	32.04
	M137	22.12	27.57	34.19
	M137	22.13	26.91	33.87
	M138	21.62	26.99	31.61
	M138	21.6	26.95	31.58
	M139	22.36	27.14	31.71
	M139	21.64	27.15	31.7
	M140	23.96	29.28	33.77
	M140	23.15	29.27	33.61

M141	22.58	27.75	32.32
M141	22.55	27.74	32.37
M142	23.03	28.95	33.06
M142	22.99	28.98	33.1
M143	22.3	28.13	32.38
M143	22.13	28.1	32.17
M144	23.08	28.55	33.47
M144	22.99	28.83	33.39
Macrosomia M88	25.72	31.22	33.18
M88	25.61	31.22	33.32
M89	25.24	30.61	32.37
M89	25.31	30.59	32.3
M90	25.57	32.69	33.08
M90	25.48	32.57	33.07
M145	25.07	31.55	31.78
M145	25.14	31.63	31.78
M146	23.73	28.51	30.8
M146	23.69	28.48	30.74
M147	24.63	31.39	31.81
M147	24.6	31.28	31.88
M148	24.71	31.8	31.65
M148	24.85	31.74	31.62
M149	24.07	31	30.94
M149	24.05	31.02	30.96
M150	24.66	31.32	31.1
M150	24.71	31.49	31.09
M151	24.41	31.11	30.88
M151	24.38	31.12	31.04

	EXAMPLE	
REL EXP	LOG BASE 10	LOG BASE 2
0.5	-0.301029996	-1
1	0	0
2	0.301029996	1

M50 NO	**M50**	26.04	31.91	32.17
PREVIOUS MIRNAS	**M50**	25.89	31.87	32.21
	M20	26.54	29.97	31.58
	M20	26.29	30.03	31.49

NBW
LBW
HBW

CALIBRATOR:
NBW 1

MED GEOM 2 HK	ΔCT mir126-3p	ΔΔCT mir126-3p	2^-(ΔΔCT mir126-3p)
25.58125876	6.293706771	0.269729684	0.829
25.57132769	6.323706771	0.299729684	0.812
26.71742503	5.091272551	-0.932704536	1.909
26.78002987	5.041272551	-0.982704536	1.976
25.07255073	6.524037389	0.500060302	0.707
25.09937449	6.574037389	0.550060302	0.683
25.47728989	5.670546664	-0.353430423	1.278
25.42161679	5.700546664	-0.323430423	1.251
26.0568609	6.61246682	0.588489733	0.665
26.07820546	6.63246682	0.608489733	0.656
26.19596152	6.68494229	0.660965203	0.632
26.1341539	6.67494229	0.650965203	0.637
24.88751092	5.850279787	-0.1736973	1.128
24.8519295	5.830279787	-0.1936973	1.144
25.93511905	6.275661215	0.251684128	0.840
25.95355852	6.095661215	0.071684128	0.952
26.69831455	6.235087975	0.211110888	0.864
26.7315095	6.375087975	0.351110888	0.784
26.52346131	5.594718726	-0.429258361	1.347
26.52710124	5.594718726	-0.429258361	1.347
25.73600396	6.636865589	0.612888502	0.654
24.73026486	6.596865589	0.572888502	0.672
25.31476249	7.030113046	1.00613596	0.498
25.18501142	7.150113046	1.12613596	0.458
25.11541359	6.540694927	0.51671784	0.699
25.26319655	6.420694927	0.39671784	0.760
26.75242045	5.116562739	-0.907414348	1.876
26.67445407	5.126562739	-0.897414348	1.863
24.16458152	6.849366142	0.825389055	0.564
25.3166862	6.909366142	0.885389055	0.541
25.76566514	5.494240325	-0.529736762	1.444
26.32585421	5.734240325	-0.289736762	1.222
27.08300574	5.54815639	-0.475820697	1.391
27.44068148	5.66815639	-0.355820697	1.280
26.1779411	5.872886075	-0.151091012	1.110
26.33628675	5.942886075	-0.081091012	1.058
27.16663027	4.36395923	-1.660017857	3.160
26.78545127	4.23395923	-1.790017857	3.458
25.77754837	6.023702689	-0.000274398	1.000
25.67504625	6.003702689	-0.020274398	1.014

23.8521781	6.153978065	0.130000979	0.914
23.83986577	6.213978065	0.190000979	0.877
25.58685405	5.706817693	-0.317159394	1.246
25.53951057	5.636817693	-0.387159394	1.308
23.50933432	7.375269121	1.351292034	0.392
23.54012744	7.495269121	1.471292034	0.361
24.31475478	6.587167791	0.563190704	0.677
24.13090964	6.597167791	0.573190704	0.672
25.91215931	6.262563109	0.238586022	0.848
25.86271447	6.202563109	0.178586022	0.884
23.84017408	13.50606823	7.482091147	0.006
23.86768946	13.38606823	7.362091147	0.006
23.99378044	13.29788024	7.273903155	0.006
24.07045907	13.66788024	7.643903155	0.005
23.94712509	7.539237783	1.515260696	0.350
23.99439935	7.579237783	1.555260696	0.340
25.38977156	7.034232421	1.010255334	0.496
25.2617636	7.094232421	1.070255334	0.476
26.26774638	5.085956399	-0.938020688	1.916
26.26034082	5.095956399	-0.928020688	1.903
27.67535546	4.481455726	-1.542521361	2.913
27.58173309	4.411455726	-1.612521361	3.058
25.90378351	5.454431729	-0.569545357	1.484
25.70735303	5.444431729	-0.579545357	1.494
27.26014673	5.87735748	-0.146619607	1.107
27.38513831	5.73735748	-0.286619607	1.220
26.53845512	5.344385508	-0.679591578	1.602
26.55277387	5.314385508	-0.709591578	1.635
27.2282684	4.683065978	-1.340911109	2.533
27.24559964	4.723065978	-1.300911109	2.464
27.75492749	4.027437915	-1.996539172	3.990
27.71019668	3.947437915	-2.076539172	4.218
25.93431318	5.251948146	-0.772028941	1.708
26.36179053	5.231948146	-0.792028941	1.732
25.7540657	5.212441911	-0.811535176	1.755
25.94105048	5.272441911	-0.751535176	1.684
23.5215582	7.029749924	1.005772837	0.498
23.43894196	7.089749924	1.065772837	0.478
24.69753024	7.809717712	1.785740626	0.290
24.04303433	7.669717712	1.645740626	0.320
24.69510883	9.640823768	3.616846681	0.082
24.40324364	9.320823768	3.296846681	0.102
24.15623729	7.468299797	1.444322711	0.367
24.12716312	7.438299797	1.414322711	0.375
24.63433376	7.273365308	1.249388221	0.421
24.23893562	7.263365308	1.239388221	0.424
26.48676651	7.511236422	1.487259335	0.357
26.03076065	7.351236422	1.327259335	0.399

25.03187967	7.298691316	1.274714229	0.413
25.01073769	7.348691316	1.324714229	0.399
25.8208927	7.243642212	1.219665125	0.429
25.81182287	7.283642212	1.259665125	0.418
25.04593779	7.388540817	1.364563731	0.388
24.93698057	7.178540817	1.154563731	0.449
25.66970978	7.7626774	1.738700313	0.300
25.74493542	7.6826774	1.658700313	0.317
28.3368735	4.873456939	-1.150520148	2.220
28.27621262	5.013456939	-1.010520148	2.015
27.79561836	4.55967038	-1.464306707	2.759
27.82504088	4.48967038	-1.534306707	2.896
28.91164644	4.220326599	-1.803650488	3.491
28.80770036	4.210326599	-1.813650488	3.515
28.12398443	3.61855567	-2.405421417	5.298
28.19890423	3.61855567	-2.405421417	5.298
26.01042676	4.807377335	-1.216599752	2.324
25.97481857	4.747377335	-1.276599752	2.423
27.80531784	4.037517723	-1.986459364	3.963
27.73964672	4.107517723	-1.916459364	3.775
28.03173202	3.591885239	-2.432091848	5.397
28.0844975	3.561885239	-2.462091848	5.510
27.31611246	3.625159741	-2.398817346	5.274
27.31356806	3.645159741	-2.378817346	5.201
27.79120724	3.257014008	-2.766963079	6.807
27.89476474	3.247014008	-2.776963079	6.854
27.55712431	3.329132303	-2.694844784	6.475
27.54461109	3.489132303	-2.534844784	5.795

NOT USED

28.82596746	3.394614834	-2.629362252	6.188
28.72480287	3.434614834	-2.589362252	6.018
28.20290411	3.42962717	-2.462382421	5.511260884
28.09784155	3.33962717	-2.552382421	5.866021752

OK

Rep= replicate
Below the name of each sample

	LOG BASE 2
	LOG2 EXPRESSION
	-0.269729684
	-0.299729684
	0.932704536
	0.982704536
	-0.500060302
	-0.550060302
	0.353430423
	0.323430423
	-0.588489733
	-0.608489733
	-0.660965203
	-0.650965203
	0.1736973
	0.1936973
	-0.251684128
	-0.071684128
	-0.211110888
	-0.351110888
	0.429258361
	0.429258361
	-0.612888502
	-0.572888502
	-1.00613596
	-1.12613596
	-0.51671784
	-0.39671784
	0.907414348
	0.897414348
	-0.825389055
	-0.885389055
	0.529736762
	0.289736762
	0.475820697
	0.355820697
	0.151091012
	0.081091012
MEAN NORMAL	1.660017857
1.135	1.790017857
MACRO/NORMAL	0.000274398
2.081	0.020274398

MACRO/LBW	-0.130000979
1.785	-0.190000979
	0.317159394
	0.387159394
	-1.351292034
	-1.471292034
	-0.563190704
	-0.573190704
	-0.238586022
	-0.178586022
	-7.482091147
	-7.362091147
	-7.273903155
	-7.643903155
	-1.515260696
	-1.555260696
	-1.010255334
	-1.070255334
	0.938020688
	0.928020688
	1.542521361
	1.612521361
	0.569545357
	0.579545357
	0.146619607
	0.286619607
	0.679591578
	0.709591578
	1.340911109
	1.300911109
	1.996539172
	2.076539172
	0.772028941
	0.792028941
MEAN LOW	0.811535176
1.323	0.751535176
	-1.005772837
	-1.065772837
	-1.785740626
	-1.645740626
	-3.616846681
	-3.296846681
	-1.444322711
	-1.414322711
	-1.249388221
	-1.239388221
	-1.487259335
	-1.327259335

	-1.274714229
	-1.324714229
	-1.219665125
	-1.259665125
	-1.364563731
	-1.154563731
	-1.738700313
	-1.658700313
	1.150520148
	1.010520148
	1.464306707
	1.534306707
	1.803650488
	1.813650488
	2.405421417
	2.405421417
	1.216599752
	1.276599752
	1.986459364
	1.916459364
	2.432091848
	2.462091848
	2.398817346
	2.378817346
	2.766963079
	2.776963079
MEAN MACRO	2.694844784
2.363	2.534844784

RELATIVE QUANTIFICATION OF GENE EXPRESSION OF miRNAs USING LIGHTCYCLER (ROCHE)
miRNA EXPRESSION IN NEONATAL SCREENING CARDS

qPCR Experiment	Duplicate per type of sample BIRTH WEIGHT	2 miRNAs REFERENCIA (HK) Specific Cp for each gene per capillary mir16-5p	mir106a	TARGET mir29a 5p
	Normopeso M1	23.28	28.11	35.65
	M1 Rep	23.32	28.04	36.88
	M2	24.64	28.97	35.77
	M2	24.73	29	36.99
	M3	23.12	27.19	35.64
	M3	23.11	27.26	37.9
	M4	23.29	27.87	35.07
	M4	23.23	27.82	34.86
	M5	24	28.29	35.02
	M5	23.98	28.36	35.33
	M6	24.18	28.38	35.79
	M6	24.1	28.34	35.94
	M7	22.78	27.19	35.83
	M7	22.74	27.16	35.85
	M8	23.92	28.12	36.27
	M8	23.92	28.16	36.1
	M9	24.75	28.8	35.78
	M9	24.76	28.86	36.85
	M10	24.2	29.07	35.95
	M10	24.19	29.09	36
	Normopeso M11	22.99	28.81	36.35
	M11	21.96	27.85	36.92
	M12	23.16	27.67	36.28
	M12	22.24	28.52	36.28
	M13	22.4	28.16	36.92
	M13	21.79	29.29	35.75
	M14	22.8	31.39	35.98
	M14	22.27	31.95	36.37
	M15	21.05	27.74	36.92
	M15	22.34	28.69	36.28
	M16	23.45	28.31	36.14
	M16	23.21	29.86	36.14
	M18	22.82	30.03	33.65
	M18	23.12	30	33.85
	Bajo peso M31	24.34	27.3	33.67
	M31	24.2	27.24	34.09
	M32	22.12	25.72	33.82
	M32	22.08	25.74	33.97
	M33	23.99	27.29	34.16
	M33	24.06	27.11	33.93

M34	21.88	25.26	33.96
M34	21.92	25.28	33.37
M35	22.73	26.01	33.95
M35	22.64	25.72	33.87
M36	23.98	28	34
M36	24	27.87	33.09
M37	22.21	25.59	33.93
M37	22.27	25.58	33.9
M38	22.55	25.53	33.53
M38	22.65	25.58	33.06
M39	22.48	25.51	34.01
M39	22.56	25.52	34.09
M40	23.45	27.49	33.89
M40	23.13	27.59	33.83
Bajo peso M41	24.05	28.69	34.39
M41	24.07	28.65	34.03
M42	25.99	29.47	35.4
M42	25.92	29.35	35.54
M43	23.38	28.7	35.77
M43	23.27	28.4	35.41
M44	24.87	29.88	35.07
M44	24.94	30.07	35.15
M45	24.48	28.77	35.6
M45	24.43	28.86	34.95
M46	25.14	29.49	35.72
M46	25.07	29.61	35.81
M47	25.34	30.4	35.85
M47	25.3	30.35	35.9
M48	23.37	28.78	35.79
M48	24.13	28.8	36.08
M49	23.33	28.43	35.4
M49	23.67	28.43	35
M50	26.04	31.91	35.15
M50	25.89	31.87	35.86
Alto peso M135	20.87	26.51	34.79
M135	20.81	26.4	35.68
M136	22.76	26.8	35.63
M136	21.61	26.75	36.08
M137	22.12	27.57	36.7
M137	22.13	26.91	36.28
M138	21.62	26.99	35.3
M138	21.6	26.95	35.51
M139	22.36	27.14	35.5
M139	21.64	27.15	35.42
M140	23.96	29.28	36.74
M140	23.15	29.27	35.92
M141	22.58	27.75	33.41
M141	22.55	27.74	33.16

	M142	23.03	28.95	32.99
	M142	22.99	28.98	33.36
	M143	22.3	28.13	33.6
	M143	22.13	28.1	33.27
	M144	23.08	28.55	33.32
	M144	22.99	28.83	33.13
	M146	23.73	28.51	33.15
	M146	23.69	28.48	32.81
	M147	24.63	31.39	33.23
	M147	24.6	31.28	33.32
	M148	24.71	31.8	33.13
	M148	24.85	31.74	33.08
	M149	24.07	31	33.14
	M149	24.05	31.02	33.18
	M150	24.66	31.32	33.13
	M150	24.71	31.49	33.51
	M151	24.41	31.11	32.94
	M151	24.38	31.12	32.77

NOT USED		**mir16-5p**	**mir106a**	**mir29a 5p**
NORMOPESO	M20	26.54	29.97	33.85
	M20	26.29	30.03	33.87
	M17	24.12	30.41	33.92
	M17	25.15	29.94	33.64
	M19	25.18	29.31	33.94
	M19	24.47	29.32	34.05
MACROSOMIC	M90	25.57	32.69	33.29
	M90	25.48	32.57	33.22
	Alto peso M88	25.72	31.22	33.44
	M88	25.61	31.22	33.05
	M89	25.24	30.61	32.83
	M89	25.31	30.59	33.08
	M145	25.07	31.55	33.23
	M145	25.14	31.63	33.19

NBW
LBW
HBW

CALIBRATOR:
NBW 1

MED GEOM 2 HK	ΔCT mir29a 5p	ΔΔCT mir29a 5p	2^-(ΔΔCT mir29a 5p)
25.58125876	10.07370677	-0.107084349	1.077
25.57132769	11.30370677	1.122915651	0.459
26.71742503	9.021272551	-1.159518569	2.234
26.78002987	10.24127255	0.060481431	0.959
25.07255073	10.55403739	0.37324627	0.772
25.09937449	12.81403739	2.63324627	0.161
25.47728989	9.620546664	-0.560244456	1.475
25.42161679	9.410546664	-0.770244456	1.706
26.0568609	8.95246682	-1.2283243	2.343
26.07820546	9.26246682	-0.9183243	1.890
26.19596152	9.62494229	-0.555848829	1.470
26.1341539	9.77494229	-0.405848829	1.325
24.88751092	10.96027979	0.779488667	0.583
24.8519295	10.98027979	0.799488667	0.575
25.93511905	10.32566121	0.144870096	0.904
25.95355852	10.15566121	-0.025129904	1.018
26.69831455	9.065087975	-1.115703145	2.167
26.7315095	10.13508797	-0.045703145	1.032
26.52346131	9.424718726	-0.756072394	1.689
26.52710124	9.474718726	-0.706072394	1.631
25.73600396	11.11686559	0.936074469	0.523
24.73026486	11.68686559	1.506074469	0.352
25.31476249	11.03011305	0.849321927	0.555
25.18501142	11.03011305	0.849321927	0.555
25.11541359	11.73069493	1.549903808	0.342
25.26319655	10.56069493	0.379903808	0.768
26.75242045	9.266562739	-0.914228381	1.885
26.67445407	9.656562739	-0.524228381	1.438
24.16458152	12.17936614	1.998575023	0.250
25.3166862	11.53936614	1.358575023	0.390
25.76566514	10.09424032	-0.086550794	1.062
26.32585421	10.09424032	-0.086550794	1.062
26.1779411	7.392886075	-2.787905044	6.906
26.33628675	7.592886075	-2.587905044	6.012
25.77754837	7.943702689	-2.23708843	4.714
25.67504625	8.363702689	-1.81708843	3.524
23.8521781	9.973978065	-0.206813054	1.154
23.83986577	10.12397807	-0.056813054	1.040
25.58685405	8.596817693	-1.583973426	2.998
25.53951057	8.366817693	-1.813973426	3.516

23.50933432	10.43526912	0.254478001	0.838
23.54012744	9.845269121	-0.335521999	1.262
24.31475478	9.727167791	-0.453623329	1.369
24.13090964	9.647167791	-0.533623329	1.448
25.91215931	8.112563109	-2.068228011	4.194
25.86271447	7.202563109	-2.978228011	7.880
23.84017408	10.07606823	-0.104722886	1.075
23.86768946	10.04606823	-0.134722886	1.098
23.99378044	9.497880241	-0.682910878	1.605
24.07045907	9.027880241	-1.152910878	2.224
23.94712509	10.03923778	-0.141553337	1.103
23.99439935	10.11923778	-0.061553337	1.044
25.38977156	8.564232421	-1.616558699	3.066
25.2617636	8.504232421	-1.676558699	3.197
26.26774638	8.125956399	-2.054834721	4.155
26.26034082	7.765956399	-2.414834721	5.333
27.67535546	7.771455726	-2.409335394	5.312
27.58173309	7.911455726	-2.269335394	4.821
25.90378351	9.964431729	-0.21635939	1.162
25.70735303	9.604431729	-0.57635939	1.491
27.26014673	7.74735748	-2.433433639	5.402
27.38513831	7.82735748	-2.353433639	5.110
26.53845512	9.054385508	-1.126405611	2.183
26.55277387	8.404385508	-1.776405611	3.426
27.2282684	8.483065978	-1.697725141	3.244
27.24559964	8.573065978	-1.607725141	3.048
27.75492749	8.117437915	-2.063353204	4.180
27.71019668	8.167437915	-2.013353204	4.037
25.93431318	9.641948146	-0.538842974	1.453
26.36179053	9.931948146	-0.248842974	1.188
25.7540657	9.552441911	-0.628349209	1.546
25.94105048	9.152441911	-1.028349209	2.040
28.82596746	7.76649103	-2.414300089	5.331
28.72480287	7.084614834	-3.096176285	8.551
23.5215582	11.30974992	1.128958804	0.457
23.43894196	12.19974992	2.018958804	0.247
24.69753024	11.25971771	1.078926593	0.473
24.04303433	11.70971771	1.528926593	0.347
24.69510883	12.15082377	1.970032648	0.255
24.40324364	11.73082377	1.550032648	0.342
24.15623729	11.1582998	0.977508678	0.508
24.12716312	11.3682998	1.187508678	0.439
24.63433376	11.06336531	0.882574189	0.542
24.23893562	10.98336531	0.802574189	0.573
26.48676651	10.48123642	0.300445302	0.812
26.03076065	9.661236422	-0.519554698	1.434
25.03187967	8.388691316	-1.792099803	3.463
25.01073769	8.138691316	-2.042099803	4.118

25.8208927	7.173642212	-3.007148907	8.040
25.81182287	7.543642212	-2.637148907	6.221
25.04593779	8.608540817	-1.572250302	2.974
24.93698057	8.278540817	-1.902250302	3.738
25.66970978	7.6126774	-2.56811372	5.930
25.74493542	7.4226774	-2.75811372	6.765
26.01042676	7.157377335	-3.023413785	8.131
25.97481857	6.817377335	-3.363413785	10.292
27.80531784	5.457517723	-4.723273396	26.415
27.73964672	5.547517723	-4.633273396	24.817
28.03173202	5.071885239	-5.108905881	34.509
28.0844975	5.021885239	-5.158905881	35.726
27.31611246	5.825159741	-4.355631378	20.473
27.31356806	5.865159741	-4.315631378	19.913
27.79120724	5.287014008	-4.893777112	29.729
27.89476474	5.667014008	-4.513777112	22.845
27.55712431	5.389132303	-4.791658816	27.697
27.54461109	5.219132303	-4.961658816	31.161

			PLOT
MED GEOM 2 HK	**ΔCT mir29a 5p**	**ΔΔCT mir29a 5p**	**2^-(ΔΔCT mir29a 5p)**
28.20290411	5.69962717	-3.916382421	15.09901384
28.09784155	5.71962717	-3.896382421	14.89114125
27.08300574	6.65815639	-3.163452276	8.959711482
27.44068148	6.37815639	-3.443452276	10.87883585
27.16663027	6.96395923	-3.041174563	8.231609607
26.78545127	7.07395923	-2.931174563	7.627311192
28.91164644	4.430326599	-5.75046452	53.83470153
28.80770036	4.360326599	-5.82046452	56.51118435
28.3368735	5.133456939	-5.04733418	33.06731911
28.27621262	4.743456939	-5.43733418	43.33119684
27.79561836	5.01967038	-5.161120739	35.78097362
27.82504088	5.26967038	-4.911120739	30.08809245
28.12398443	5.06855567	-5.112235449	34.58885734
28.19890423	5.02855567	-5.152235449	35.56128248

Rep= replicate

OK Below each sample

RAW DATA

LOG BASE 2			
LOG2 EXPRESSION			
0.107084349			
-1.122915651			
1.159518569			
-0.060481431			
-0.37324627			
-2.63324627			
0.560244456			
0.770244456			
1.2283243			
0.9183243			
0.555848829			
0.405848829			
-0.779488667			
-0.799488667			
-0.144870096			
0.025129904			
1.115703145			
0.045703145			
0.756072394			
0.706072394			
-0.936074469			
-1.506074469			
-0.849321927			
-0.849321927			
-1.549903808			
-0.379903808			
0.914228381			
0.524228381			
-1.998575023			
-1.358575023			
0.086550794		**MEAN NORMO**	
0.086550794		**1.399**	
2.787905044			
2.587905044			
2.23708843	0.5	-0.301029996	-1
1.81708843	1	0	0
0.206813054	2	0.301029996	1
0.056813054			
1.583973426			
1.813973426			

-0.254478001
0.335521999
0.453623329
0.533623329
2.068228011
2.978228011
0.104722886
0.134722886
0.682910878
1.152910878
0.141553337
0.061553337
1.616558699
1.676558699
2.054834721
2.414834721
2.409335394
2.269335394
0.21635939
0.57635939
2.433433639
2.353433639
1.126405611
1.776405611
1.697725141
1.607725141
2.063353204
2.013353204
0.538842974
0.248842974
0.628349209
1.028349209
2.414300089
3.096176285
-1.128958804
-2.018958804
-1.078926593
-1.528926593
-1.970032648
-1.550032648
-0.977508678
-1.187508678
-0.882574189
-0.802574189
-0.300445302
0.519554698
1.792099803
2.042099803

MEAN BAJO
3.034

3.007148907
2.637148907
1.572250302
1.902250302
2.56811372
2.75811372
3.023413785
3.363413785
4.723273396
4.633273396
5.108905881
5.158905881
4.355631378
4.315631378
4.893777112
4.513777112
4.791658816
4.961658816

MACRO/NORMO
7.580552261
MACRO/BAJO
3.495604838

MEAN MACRO
10.606

LOG BASE 2

LOG2 EXPRESSION

3.916382421
3.896382421
3.163452276
3.443452276
3.041174563
2.931174563

5.75046452
5.82046452
5.04733418
5.43733418
5.161120739
4.911120739
5.112235449
5.152235449

RELATIVE QUANTIFICATION OF GENE EXPRESSION OF miRNAs USING LIGHTCYCLER (ROCHE)

miRNA EXPRESSION IN NEONATAL SCREENING CARDS

NEW MIRNAS

qPCR Experiment	Duplicate per type of sample BIRTH WEIGHT	2 miRNAs REFERENCIA (HK) Specific Cp for each gene per capillary mir16-5p	mir106a
	Normal M1	23.28	28.11
	M1 Rep	23.32	28.04
	M2	24.64	28.97
	M2	24.73	29
	M3	23.12	27.19
	M3	23.11	27.26
	M4	23.29	27.87
	M4	23.23	27.82
	M5	24	28.29
	M5	23.98	28.36
	M6	24.18	28.38
	M6	24.1	28.34
	M7	22.78	27.19
	M7	22.74	27.16
	M8	23.92	28.12
	M8	23.92	28.16
	M9	24.75	28.8
	M9	24.76	28.86
	M10	24.2	29.07
	M10	24.19	29.09
	Normal M11	22.99	28.81
	M11	21.96	27.85
	M12	23.16	27.67
	M12	22.24	28.52
	M13	22.4	28.16
	M13	21.79	29.29
	M14	22.8	31.39
	M14	22.27	31.95
	M16	23.45	28.31
	M16	23.21	29.86
	M17	24.12	30.41
	M17	25.15	29.94
	M18	22.82	30.03
	M18	23.12	30
	M19	25.18	29.31
	M19	24.47	29.32
	Low M32	22.12	25.72
	M32	22.08	25.74
	M33	23.99	27.29
	M33	24.06	27.11

M34	21.88	25.26
M34	21.92	25.28
M35	22.73	26.01
M35	22.64	25.72
M36	23.98	28
M36	24	27.87
M37	22.21	25.59
M37	22.27	25.58
M38	22.55	25.53
M38	22.65	25.58
M39	22.48	25.51
M39	22.56	25.52
M40	23.45	27.49
M40	23.13	27.59
Low M41	24.05	28.69
M41	24.07	28.65
M42	25.99	29.47
M42	25.92	29.35
M43	23.38	28.7
M43	23.27	28.4
M44	24.87	29.88
M44	24.94	30.07
M45	24.48	28.77
M45	24.43	28.86
M46	25.14	29.49
M46	25.07	29.61
M47	25.34	30.4
M47	25.3	30.35
M48	23.37	28.78
M48	24.13	28.8
M49	23.33	28.43
M49	23.67	28.43
M50	26.04	31.91
M50	25.89	31.87
MAcrosomia M135	20.87	26.51
M135	20.81	26.4
M136	22.76	26.8
M136	21.61	26.75
M137	22.12	27.57
M137	22.13	26.91
M138	21.62	26.99
M138	21.6	26.95
M139	22.36	27.14
M139	21.64	27.15
M140	23.96	29.28
M140	23.15	29.27
M141	22.58	27.75
M141	22.55	27.74

	M142	23.03	28.95
	M142	22.99	28.98
	M143	22.3	28.13
	M143	22.13	28.1
	M144	23.08	28.55
	M144	22.99	28.83
	Macrosomia M88	25.72	31.22
	M88	25.61	31.22
	M89	25.24	30.61
	M89	25.31	30.59
	M90	25.57	32.69
	M90	25.48	32.57
	M145	25.07	31.55
	M145	25.14	31.63
	M146	23.73	28.51
	M146	23.69	28.48
	M147	24.63	31.39
	M147	24.6	31.28
	M148	24.71	31.8
	M148	24.85	31.74
	M149	24.07	31
	M149	24.05	31.02
	M150	24.66	31.32
	M150	24.71	31.49
	M151	24.41	31.11
	M151	24.38	31.12

	EXAMPLE	
REL EXP	LOG BASE 10	LOG BASE 2
0.5	-0.301029996	-1
1	0	0
2	0.301029996	1

M50 NOT
PREVIOUS MIRNAS

	M15	21.05	27.74
	M15	22.34	28.69
RE-PERFORMED	**Low M31**	24.34	27.3
	M31	24.2	27.24

NOT INCLUDED:

	M20	26.54	29.97
	M20	26.29	30.03

NBW
LBW
HBW

TARGET			CALIBRATOR: NBW 1	
miR-320a	MED GEOM 2 HK	ΔCT mir320a	ΔΔCT mir320a	2^-(ΔΔCT mir320a)
23.66	25.58125876	-1.916293229	-0.010804257	1.008
23.08	25.57132769	-2.496293229	-0.590804257	1.506
24.66	26.71742503	-2.088727449	-0.183238477	1.135
24.49	26.78002987	-2.258727449	-0.353238477	1.277
23.09	25.07255073	-1.995962611	-0.090473639	1.065
23.05	25.09937449	-2.035962611	-0.130473639	1.095
24.36	25.47728989	-1.089453336	0.816035635	0.568
24.36	25.42161679	-1.089453336	0.816035635	0.568
25.63	26.0568609	-0.43753318	1.467955792	0.361
25.36	26.07820546	-0.70753318	1.197955792	0.436
25.18	26.19596152	-0.98505771	0.920431262	0.528
25.24	26.1341539	-0.92505771	0.980431262	0.507
22.91	24.88751092	-1.959720213	-0.054231242	1.038
23.55	24.8519295	-1.319720213	0.585768758	0.666
24.22	25.93511905	-1.724338785	0.181150187	0.882
24	25.95355852	-1.944338785	-0.038849813	1.027
24.57	26.69831455	-2.144912025	-0.239423054	1.181
24.63	26.7315095	-2.084912025	-0.179423054	1.132
24.87	26.52346131	-1.655281274	0.250207697	0.841
24.73	26.52710124	-1.795281274	0.110207697	0.926
24.1	25.73600396	-1.133134411	0.772354561	0.585
24.12	24.73026486	-1.113134411	0.792354561	0.577
23.79	25.31476249	-1.459886954	0.445602018	0.734
23.54	25.18501142	-1.709886954	0.195602018	0.873
23.54	25.11541359	-1.649305073	0.256183899	0.837
23.57	25.26319655	-1.619305073	0.286183899	0.820
23.7	26.75242045	-3.013437261	-1.107948289	2.155
23.61	26.67445407	-3.103437261	-1.197948289	2.294
23.71	25.76566514	-2.335759675	-0.430270703	1.347
23.67	26.32585421	-2.375759675	-0.470270703	1.385
25.13	27.08300574	-2.13184361	-0.226354638	1.170
24.79	27.44068148	-2.47184361	-0.566354638	1.481
24	26.1779411	-2.257113925	-0.351624953	1.276
24.02	26.33628675	-2.237113925	-0.331624953	1.258
23.23	27.16663027	-3.74604077	-1.840551799	3.581
23.39	26.78545127	-3.58604077	-1.680551799	3.206
23.59	23.8521781	-0.256021935	1.649467037	0.319
23.31	23.83986577	-0.536021935	1.369467037	0.387
24.84	25.58685405	-0.723182307	1.182306665	0.441
24.78	25.53951057	-0.783182307	1.122306665	0.459

23.08	23.50933432	-0.444730879	1.460758092	0.363
23.08	23.54012744	-0.444730879	1.460758092	0.363
24.23	24.31475478	0.007167791	1.912656763	0.266
23.98	24.13090964	-0.242832209	1.662656763	0.316
25.48	25.91215931	-0.407436891	1.498052081	0.354
25.62	25.86271447	-0.267436891	1.638052081	0.321
24.33	23.84017408	0.476068233	2.381557205	0.192
23.93	23.86768946	0.076068233	1.981557205	0.253
23.82	23.99378044	-0.212119759	1.693369213	0.309
23.77	24.07045907	-0.262119759	1.643369213	0.320
23.2	23.94712509	-0.770762217	1.134726754	0.455
23.18	23.99439935	-0.790762217	1.114726754	0.462
24.21	25.38977156	-1.115767579	0.789721392	0.578
24.62	25.2617636	-0.705767579	1.199721392	0.435
24.23	26.26774638	-2.034043601	-0.128554629	1.093
24.02	26.26034082	-2.244043601	-0.338554629	1.264
24.75	27.67535546	-2.878544274	-0.973055302	1.963
24.9	27.58173309	-2.728544274	-0.823055302	1.769
23.25	25.90378351	-2.555568271	-0.650079299	1.569
23.41	25.70735303	-2.395568271	-0.490079299	1.405
24.39	27.26014673	-2.93264252	-1.027153548	2.038
24.64	27.38513831	-2.68264252	-0.777153548	1.714
24.48	26.53845512	-2.065614492	-0.16012552	1.117
24.13	26.55277387	-2.415614492	-0.51012552	1.424
24.1	27.2282684	-3.136934022	-1.23144505	2.348
24.15	27.24559964	-3.086934022	-1.18144505	2.268
24.29	27.75492749	-3.442562085	-1.537073113	2.902
24.4	27.71019668	-3.332562085	-1.427073113	2.689
23.16	25.93431318	-2.988051854	-1.082562883	2.118
23.38	26.36179053	-2.768051854	-0.862562883	1.818
23.19	25.7540657	-2.657558089	-0.752069117	1.684
23.01	25.94105048	-2.837558089	-0.932069117	1.908
25.91	28.82596746	-1.47350897	0.431980002	0.741
25.51	28.72480287	-3.265385166	-1.359896194	2.567
23.48	23.5215582	-0.000250076	1.905238896	0.267
23.76	23.43894196	0.279749924	2.185238896	0.220
24.03	24.69753024	-0.340282288	1.565206684	0.338
24.16	24.04303433	-0.210282288	1.695206684	0.309
24.95	24.69510883	0.400823768	2.30631274	0.202
25	24.40324364	0.450823768	2.35631274	0.195
25.47	24.15623729	1.328299797	3.233788769	0.106
25.58	24.12716312	1.438299797	3.343788769	0.098
25.37	24.63433376	0.933365308	2.83885428	0.140
25.05	24.23893562	0.613365308	2.51885428	0.174
27.03	26.48676651	0.771236422	2.676725393	0.156
26.27	26.03076065	0.011236422	1.916725393	0.265
25.28	25.03187967	0.258691316	2.164180288	0.223
24.9	25.01073769	-0.121308684	1.784180288	0.290

28.1	25.8208927	2.283642212	4.189131184	0.055
28.11	25.81182287	2.293642212	4.199131184	0.054
25.17	25.04593779	0.178540817	2.084029789	0.236
24.95	24.93698057	-0.041459183	1.864029789	0.275
24.73	25.66970978	-0.9773226	0.928166372	0.526
24.52	25.74493542	-1.1873226	0.718166372	0.608
25.75	28.3368735	-2.556543061	-0.651054089	1.570
26.12	28.27621262	-2.186543061	-0.281054089	1.215
24.68	27.79561836	-3.13032962	-1.224840648	2.337
24.55	27.82504088	-3.26032962	-1.354840648	2.558
25.58	28.91164644	-3.279673401	-1.374184429	2.592
25.23	28.80770036	-3.629673401	-1.724184429	3.304
24.7	28.12398443	-3.46144433	-1.555955358	2.940
24.87	28.19890423	-3.29144433	-1.385955358	2.613
24.14	26.01042676	-1.852622665	0.052866307	0.964
24.27	25.97481857	-1.722622665	0.182866307	0.881
25.07	27.80531784	-2.702482277	-0.796993305	1.737
25.01	27.73964672	-2.762482277	-0.856993305	1.811
24.82	28.03173202	-3.238114761	-1.332625789	2.519
24.79	28.0844975	-3.268114761	-1.362625789	2.572
23.9	27.31611246	-3.414840259	-1.509351287	2.847
23.84	27.31356806	-3.474840259	-1.569351287	2.968
24.85	27.79120724	-2.992985992	-1.08749702	2.125
24.79	27.89476474	-3.052985992	-1.14749702	2.215
24.34	27.55712431	-3.210867697	-1.305378725	2.471
24.47	27.54461109	-3.080867697	-1.175378725	2.259

	24.16458152	-24.74063386	-22.80201691	7312923.873
	25.3166862	-24.74063386	-22.80201691	7312923.873
28.56	25.77754837	2.833702689	4.772319634	0.037
28.72	25.67504625	2.993702689	4.932319634	0.033

24.11	28.20290411	-4.04037283	-2.134883858	4.392
24.34	28.09784155	-3.81037283	-1.904883858	3.745

OK

Rep= replicate
below each sample label

qPCR

FINAL FOR PLOTS

	LOG BASE 2
	LOG2 EXPRESSION
	0.010804257
	0.590804257
	0.183238477
	0.353238477
	0.090473639
	0.130473639
	-0.816035635
	-0.816035635
	-1.467955792
	-1.197955792
	-0.920431262
	-0.980431262
	0.054231242
	-0.585768758
	-0.181150187
	0.038849813
	0.239423054
	0.179423054
	-0.250207697
	-0.110207697
	-0.772354561
	-0.792354561
	-0.445602018
	-0.195602018
	-0.256183899
	-0.286183899
	1.107948289
	1.197948289
	0.430270703
	0.470270703
	0.226354638
	0.566354638
	0.351624953
	0.331624953
MEAN NORMAL	1.840551799
1.148	1.680551799
	-1.649467037
	-1.369467037
	-1.182306665
	-1.122306665

-1.460758092
-1.460758092
-1.912656763
-1.662656763
-1.498052081
-1.638052081
-2.381557205
-1.981557205
-1.693369213
-1.643369213
-1.134726754
-1.114726754
-0.789721392
-1.199721392
0.128554629
0.338554629
0.973055302
0.823055302
0.650079299
0.490079299
1.027153548
0.777153548
0.16012552
0.51012552
1.23144505
1.18144505
1.537073113
1.427073113
1.082562883
0.862562883
0.752069117
0.932069117

MEAN LOW
1.131

-1.905238896
-2.185238896
-1.565206684
-1.695206684
-2.30631274
-2.35631274
-3.233788769
-3.343788769
-2.83885428
-2.51885428
-2.676725393
-1.916725393
-2.164180288
-1.784180288

	-4.189131184
	-4.199131184
	-2.084029789
	-1.864029789
	-0.928166372
	-0.718166372
	0.651054089
	0.281054089
	1.224840648
	1.354840648
	1.374184429
	1.724184429
	1.555955358
	1.385955358
	-0.052866307
	-0.182866307
	0.796993305
	0.856993305
	1.332625789
	1.362625789
	1.509351287
	1.569351287
	1.08749702
	1.14749702
MEAN MACRO	1.305378725
1.231	1.175378725

	22.80201691
	22.80201691
	-4.772319634
	-4.932319634

RELATIVE QUANTIFICATION OF GENE EXPRESSION OF miRNAs USING LIGHTCYCLER (ROCHE)

miRNA EXPRESSION IN NEONATAL SCREENING CARDS

NEW MIRNAS

qPCR Experiment	Duplicate of type of sample BIRTH WEIGHT	2 miRNAs REFERENCE (HK) Specific Cp for each gene per capillary mir16-5p	mir106a	TARGET mir221-3p
	Normal M1	23.28	28.11	37.07
	M1 Rep	23.32	28.04	36.22
	M2	24.64	28.97	39.05
	M2	24.73	29	37.87
	M3	23.12	27.19	37.66
	M3	23.11	27.26	38.63
	M4	23.29	27.87	37.84
	M4	23.23	27.82	36.91
	M5	24	28.29	38.02
	M5	23.98	28.36	38.02
	M6	24.18	28.38	35.25
	M6	24.1	28.34	35.25
	M7	22.78	27.19	37.13
	M7	22.74	27.16	38.18
	M8	23.92	28.12	40.51
	M8	23.92	28.16	39.14
	M9	24.75	28.8	37.24
	M9	24.76	28.86	37.35
	M10	24.2	29.07	38.05
	M10	24.19	29.09	37.09
	Normal M11	22.99	28.81	37.67
	M11	21.96	27.85	36.58
	M12	23.16	27.67	36.5
	M12	22.24	28.52	36.54
	M13	22.4	28.16	37.78
	M13	21.79	29.29	37.78
	M14	22.8	31.39	38.86
	M14	22.27	31.95	38.86
	M15	21.05	27.74	38.38
	M15	22.34	28.69	37.57
	M16	23.45	28.31	35.43
	M16	23.21	29.86	37.49
	M17	24.12	30.41	35.78
	M17	25.15	29.94	36.13
	M18	22.82	30.03	36.21
	M18	23.12	30	36.21
	M19	25.18	29.31	37.08
	M19	24.47	29.32	35.83
	Low M31	24.34	27.3	39.72
	M31	24.2	27.24	39.72

M32	22.12	25.72	37.11
M32	22.08	25.74	36.36
M33	23.99	27.29	35.99
M33	24.06	27.11	35.99
M34	21.88	25.26	38.98
M34	21.92	25.28	38.98
M35	22.73	26.01	37.96
M35	22.64	25.72	37.96
M36	23.98	28	35.61
M36	24	27.87	35.96
M37	22.21	25.59	36.33
M37	22.27	25.58	35.85
M38	22.55	25.53	35.99
M38	22.65	25.58	35.43
M39	22.48	25.51	36.42
M39	22.56	25.52	36.34
M40	23.45	27.49	37.54
M40	23.13	27.59	35.87
Low M41	24.05	28.69	35.99
M41	24.07	28.65	35.36
M42	25.99	29.47	37.94
M42	25.92	29.35	38.22
M43	23.38	28.7	37.87
M43	23.27	28.4	38.84
M44	24.87	29.88	36.1
M44	24.94	30.07	37.6
M45	24.48	28.77	36.81
M45	24.43	28.86	39.18
M46	25.14	29.49	37.58
M46	25.07	29.61	37.9
M47	25.34	30.4	37.74
M47	25.3	30.35	39.92
M48	23.37	28.78	38.59
M48	24.13	28.8	37.49
M49	23.33	28.43	37.95
M49	23.67	28.43	37.95
M50	26.04	31.91	38.02
M50	25.89	31.87	38.29
High M135	20.87	26.51	38.1
M135	20.81	26.4	38.1
M136	22.76	26.8	38.78
M136	21.61	26.75	39.3
M137	22.12	27.57	37.63
M137	22.13	26.91	37.63
M138	21.62	26.99	36.14
M138	21.6	26.95	38.58
M139	22.36	27.14	35.5
M139	21.64	27.15	35.5

M141	22.58	27.75	33.04
M141	22.55	27.74	33.04
M143	22.3	28.13	35.44
M143	22.13	28.1	35.44
M144	23.08	28.55	38.14
M144	22.99	28.83	38.14
High M88	25.72	31.22	34.76
M88	25.61	31.22	34.55
M89	25.24	30.61	36.71
M89	25.31	30.59	36.99
M145	25.07	31.55	36.98
M145	25.14	31.63	36.43
M146	23.73	28.51	35.04
M146	23.69	28.48	33.2
M147	24.63	31.39	35.26
M147	24.6	31.28	35.26
M148	24.71	31.8	37.46
M148	24.85	31.74	37.46
M149	24.07	31	37.7
M149	24.05	31.02	37.7
M150	24.66	31.32	37.09
M150	24.71	31.49	37.09

EXAMPLE

REL EXP	LOG BASE 10	LOG BASE 2
0.5	-0.301029996	-1
1	0	0
2	0.301029996	1

M50 NO
PREVIOUS MIRNAS

NO AMPLIFICATION:

M140	23.96	29.28
M140	23.15	29.27
M142	23.03	28.95
M142	22.99	28.98

NOT USED FOR FURTHER ANALYSIS, HIGH VARIABILITY:

M20	26.54	29.97	36.64
M20	26.29	30.03	35.22
M151	24.41	31.11	31.56
M151	24.38	31.12	31.27
M90	25.57	32.69	33.76
M90	25.48	32.57	33.76

NBW
LBW
HBW

CALIBRATOR:
NORMAL BW 1

MED GEOM 2 HK	ΔCT mir221-3p	ΔΔCT mir221-3p	2^-(ΔΔCT mir221-3p)
25.58125876	11.49370677	0.084992842	0.943
25.57132769	10.64370677	-0.765007158	1.699
26.71742503	12.30127255	0.892558622	0.539
26.78002987	11.12127255	-0.287441378	1.220
25.07255073	12.57403739	1.16532346	0.446
25.09937449	13.54403739	2.13532346	0.228
25.47728989	12.39054666	0.981832735	0.506
25.42161679	11.46054666	0.051832735	0.965
26.0568609	11.95246682	0.543752891	0.686
26.07820546	11.95246682	0.543752891	0.686
26.19596152	9.08494229	-2.323771639	5.006
26.1341539	9.08494229	-2.323771639	5.006
24.88751092	12.26027979	0.851565858	0.554
24.8519295	13.31027979	1.901565858	0.268
25.93511905	14.56566121	3.156947286	0.112
25.95355852	13.19566121	1.786947286	0.290
26.69831455	10.52508797	-0.883625954	1.845
26.7315095	10.63508797	-0.773625954	1.710
26.52346131	11.52471873	0.116004797	0.923
26.52710124	10.56471873	-0.843995203	1.795
25.73600396	12.43686559	1.02815166	0.490
24.73026486	11.34686559	-0.06184834	1.044
25.31476249	11.25011305	-0.158600882	1.116
25.18501142	11.29011305	-0.118600882	1.086
25.11541359	12.59069493	1.181980998	0.441
25.26319655	12.59069493	1.181980998	0.441
26.75242045	12.14656274	0.73784881	0.600
26.67445407	12.14656274	0.73784881	0.600
24.16458152	13.63936614	2.230652213	0.213
25.3166862	12.82936614	1.420652213	0.374
25.76566514	9.384240325	-2.024473604	4.068
26.32585421	11.44424032	0.035526396	0.976
27.08300574	8.51815639	-2.890557539	7.416
27.44068148	8.86815639	-2.540557539	5.818
26.1779411	9.952886075	-1.455827854	2.743
26.33628675	9.952886075	-1.455827854	2.743
27.16663027	10.10395923	-1.304754699	2.470
26.78545127	8.85395923	-2.554754699	5.876
25.77754837	13.99370269	2.58498876	0.167
25.67504625	13.99370269	2.58498876	0.167

23.8521781	13.26397807	1.855264137	0.276
23.83986577	12.51397807	1.105264137	0.465
25.58685405	10.42681769	-0.981896236	1.975
25.53951057	10.42681769	-0.981896236	1.975
23.50933432	15.45526912	4.046555192	0.061
23.54012744	15.45526912	4.046555192	0.061
24.31475478	13.73716779	2.328453862	0.199
24.13090964	13.73716779	2.328453862	0.199
25.91215931	9.722563109	-1.68615082	3.218
25.86271447	10.07256311	-1.33615082	2.525
23.84017408	12.47606823	1.067354305	0.477
23.86768946	11.99606823	0.587354305	0.666
23.99378044	11.95788024	0.549166312	0.683
24.07045907	11.39788024	-0.010833688	1.008
23.94712509	12.44923778	1.040523854	0.486
23.99439935	12.36923778	0.960523854	0.514
25.38977156	12.21423242	0.805518492	0.572
25.2617636	10.54423242	-0.864481508	1.821
26.26774638	9.725956399	-1.68275753	3.210
26.26034082	9.095956399	-2.31275753	4.968
27.67535546	10.31145573	-1.097258203	2.139
27.58173309	10.59145573	-0.817258203	1.762
25.90378351	12.06443173	0.655717801	0.635
25.70735303	13.03443173	1.625717801	0.324
27.26014673	8.77735748	-2.631356449	6.196
27.38513831	10.27735748	-1.131356449	2.191
26.53845512	10.26438551	-1.144328421	2.210
26.55277387	12.63438551	1.225671579	0.428
27.2282684	10.34306598	-1.065647951	2.093
27.24559964	10.66306598	-0.745647951	1.677
27.75492749	10.00743792	-1.401276014	2.641
27.71019668	12.18743792	0.778723986	0.583
25.93431318	12.44194815	1.033234217	0.489
26.36179053	11.34194815	-0.066765783	1.047
25.7540657	12.10244191	0.693727982	0.618
25.94105048	12.10244191	0.693727982	0.618
28.82596746	10.63649103	-0.772222899	1.708
28.72480287	9.514614834	-1.894099095	3.717
23.5215582	14.61974992	3.211035995	0.108
23.43894196	14.61974992	3.211035995	0.108
24.69753024	14.40971771	3.001003784	0.125
24.04303433	14.92971771	3.521003784	0.087
24.69510883	13.08082377	1.672109839	0.314
24.40324364	13.08082377	1.672109839	0.314
24.15623729	11.9982998	0.589585869	0.665
24.12716312	14.4382998	3.029585869	0.122
24.63433376	11.06336531	-0.345348621	1.270
24.23893562	11.06336531	-0.345348621	1.270

25.03187967	8.018691316	-3.390022613	10.483
25.01073769	8.018691316	-3.390022613	10.483
25.04593779	10.44854082	-0.960173112	1.946
24.93698057	10.44854082	-0.960173112	1.946
25.66970978	12.4326774	1.023963471	0.492
25.74493542	12.4326774	1.023963471	0.492
28.3368735	6.453456939	-4.95525699	31.023
28.27621262	6.243456939	-5.16525699	35.884
27.79561836	8.89967038	-2.509043549	5.692
27.82504088	9.17967038	-2.229043549	4.688
28.12398443	8.81855567	-2.590158259	6.022
28.19890423	8.26855567	-3.140158259	8.816
26.01042676	9.047377335	-2.361336594	5.138
25.97481857	7.207377335	-4.201336594	18.396
27.80531784	7.487517723	-3.921196206	15.149
27.73964672	7.487517723	-3.921196206	15.149
28.03173202	9.401885239	-2.00682869	4.019
28.0844975	9.401885239	-2.00682869	4.019
27.31611246	10.38515974	-1.023554188	2.033
27.31356806	10.38515974	-1.023554188	2.033
27.79120724	9.247014008	-2.161699921	4.474
27.89476474	9.247014008	-2.161699921	4.474

26.48676651	-26.25876358	-37.66747751	218293392692.909
26.03076065	-26.25876358	-37.66747751	218293392692.909
25.8208927	-25.81635779	-37.22507172	160643507322.920
25.81182287	-25.81635779	-37.22507172	160643507322.920

28.20290411	8.48962717	-2.737632421	6.669748773
28.09784155	7.06962717	-4.157632421	17.84728133
27.55712431	4.009132303	-7.399581626	168.8480404
27.54461109	3.719132303	-7.689581626	206.440415
28.91164644	4.900326599	-6.50838733	91.0373924
28.80770036	4.900326599	-6.50838733	91.0373924

Rep= replicate

OK

Below the name of each sample

FOR PLOTS

ANALYZED

HIGH VARIABILITY AMONG SAMPLES

LOG BASE 2

LOG2 EXPRESSION

-0.084992842
0.765007158
-0.892558622
0.287441378
-1.16532346
-2.13532346
-0.981832735
-0.051832735
-0.543752891
-0.543752891
2.323771639
2.323771639
-0.851565858
-1.901565858
-3.156947286
-1.786947286
0.883625954
0.773625954
-0.116004797
0.843995203
-1.02815166
0.06184834
0.158600882
0.118600882
-1.181980998
-1.181980998
-0.73784881
-0.73784881
-2.230652213
-1.420652213
2.024473604
-0.035526396
2.890557539
2.540557539
1.455827854
1.455827854
1.304754699
2.554754699
-2.58498876
-2.58498876

MEAN NORMAL

1.683

1.863

	-1.855264137
	-1.105264137
	0.981896236
	0.981896236
	-4.046555192
	-4.046555192
	-2.328453862
	-2.328453862
	1.68615082
	1.33615082
	-1.067354305
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