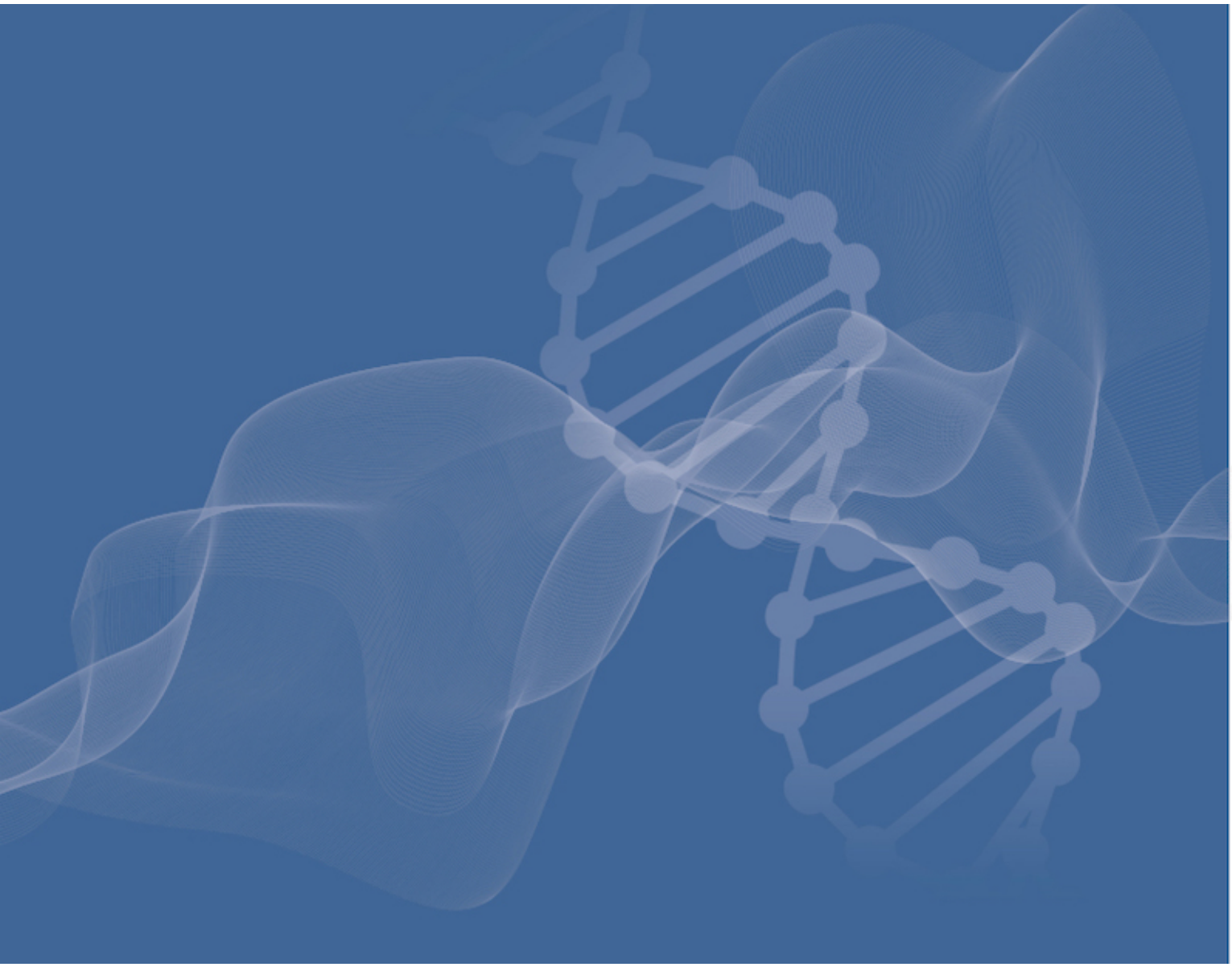
Plate Results Report

2023-05-26 pluripotency srcap clones JR_Copy.eds



Summary

Property	Details
Bar Code	-
File Name	2023-05-26 pluripotency srcap clones JR_Copy.eds
Run Start Date/Time	May 26, 2023 11:31:17 AM
Run End Date/Time	May 26, 2023 12:16:31 PM
Run Duration	45 minutes, and 13 seconds
Operator	DEFAULT
Instrument Name	278871664
Instrument Type	QuantStudio™ 7 System
Instrument Serial Number	278871664
Block Type	96-Well 0.2-mL
Block Serial Number	278022569
Heated Cover Serial Number	278122914
PCR Stage/Step Number	Stage 3, Step 2
Quantification Cycle Method	Baseline Threshold
Comment	-
Software Name and Version	Design & Analysis Software v2.6.0
Plugin Name and Version	Primary Analysis v1.7.0, Relative Quantification v1.5.0
Analysis Date/Time	May 26, 2023 3:04:15 PM

Well Table

Well	Sample	Target	Task	Cq	Cq Confidence	Amp Score	Amp Status	Cq Threshold	Baseline Start/End
A1	g3_1200_4	OCT4	Unknown	25.944	0.96	1.5	AMP	0.375	3-19
A2	g3_1200_4	OCT4	Unknown	26.111	0.945	1.488	AMP	0.375	3-20
A3	g3_1200_4	OCT4	Unknown	26.187	0.948	1.489	AMP	0.375	3-20
A4	g3_1200_7	OCT4	Unknown	27.264	0.942	1.489	AMP	0.375	3-21
A5	g3_1200_7	OCT4	Unknown	27.064	0.951	1.496	AMP	0.375	3-20
A6	g3_1200_7	OCT4	Unknown	27.315	0.95	1.485	AMP	0.375	3-22
A8	g3_1400_6/8	OCT4	Unknown	26.459	0.95	1.489	AMP	0.375	3-21
A9	g3_1400_6/8	OCT4	Unknown	26.488	0.957	1.484	AMP	0.375	3-20
A10	PHX WT	OCT4	Unknown	24.714	0.947	1.501	AMP	0.375	3-18
A11	PHX WT	OCT4	Unknown	24.881	0.954	1.496	AMP	0.375	3-18
A12	PHX WT	OCT4	Unknown	24.848	0.956	1.499	AMP	0.375	3-18
B1	g3_1200_4	SOX2	Unknown	29.339	0.965	1.455	AMP	0.391	3-23
B2	g3_1200_4	SOX2	Unknown	29.154	0.966	1.472	AMP	0.391	3-22
B3	g3_1200_4	SOX2	Unknown	29.3	0.968	1.469	AMP	0.391	3-23
B4	g3_1200_7	SOX2	Unknown	28.268	0.967	1.483	AMP	0.391	3-22
B5	g3_1200_7	SOX2	Unknown	28.602	0.97	1.48	AMP	0.391	3-22
B6	g3_1200_7	SOX2	Unknown	28.553	0.968	1.476	AMP	0.391	3-22
B7	g3_1400_6/8	SOX2	Unknown	27.799	0.97	1.481	AMP	0.391	3-21
B8	g3_1400_6/8	SOX2	Unknown	27.992	0.972	1.471	AMP	0.391	3-21
B9	g3_1400_6/8	SOX2	Unknown	28.049	0.965	1.472	AMP	0.391	3-22
B10	PHX WT	SOX2	Unknown	26.237	0.965	1.474	AMP	0.391	3-20
B11	PHX WT	SOX2	Unknown	26.391	0.967	1.49	AMP	0.391	3-20
B12	PHX WT	SOX2	Unknown	26.209	0.965	1.48	AMP	0.391	3-20
C1	g3_1200_4	GAPDH	Unknown	26.021	0.917	1.318	AMP	0.197	3-21
C2	g3_1200_4	GAPDH	Unknown	25.589	0.919	1.319	AMP	0.197	3-20
C3	g3_1200_4	GAPDH	Unknown	25.802	0.919	1.321	AMP	0.197	3-20
C4	g3_1200_7	GAPDH	Unknown	26.197	0.917	1.329	AMP	0.197	3-21
C5	g3_1200_7	GAPDH	Unknown	26.389	0.913	1.322	AMP	0.197	3-21
C6	g3_1200_7	GAPDH	Unknown	26.17	0.914	1.329	AMP	0.197	3-20
C7	g3_1400_6/8	GAPDH	Unknown	25.253	0.916	1.323	AMP	0.197	3-20

Well	Sample	Target	Task	Cq	Cq Confidence	Amp Score	Amp Status	Cq Threshold	Baseline Start/End
C8	g3_1400_6/8	GAPDH	Unknown	25.188	0.915	1.308	AMP	0.197	3-20
C9	g3_1400_6/8	GAPDH	Unknown	25.095	0.918	1.31	AMP	0.197	3-19
C10	PHX WT	GAPDH	Unknown	24.195	0.919	1.331	AMP	0.197	3-19
C11	PHX WT	GAPDH	Unknown	23.867	0.926	1.33	AMP	0.197	3-18
C12	PHX WT	GAPDH	Unknown	23.855	0.924	1.333	AMP	0.197	3-18
D1	g3_1200_4	NANOG	Unknown	29.153	0.955	1.326	AMP	0.216	3-24
D2	g3_1200_4	NANOG	Unknown	29.274	0.952	1.333	AMP	0.216	3-23
D3	g3_1200_4	NANOG	Unknown	29.269	0.95	1.33	AMP	0.216	3-23
D4	g3_1200_7	NANOG	Unknown	29.058	0.954	1.326	AMP	0.216	3-23
D5	g3_1200_7	NANOG	Unknown	29.11	0.951	1.321	AMP	0.216	3-24
D6	g3_1200_7	NANOG	Unknown	29.137	0.957	1.318	AMP	0.216	3-23
D7	g3_1400_6/8	NANOG	Unknown	28.799	0.955	1.324	AMP	0.216	3-23
D8	g3_1400_6/8	NANOG	Unknown	28.939	0.957	1.318	AMP	0.216	3-23
D9	g3_1400_6/8	NANOG	Unknown	28.707	0.958	1.332	AMP	0.216	3-23
D10	PHX WT	NANOG	Unknown	27.064	0.955	1.33	AMP	0.216	3-21
D11	PHX WT	NANOG	Unknown	27.15	0.958	1.334	AMP	0.216	3-22
D12	PHX WT	NANOG	Unknown	27.05	0.955	1.34	AMP	0.216	3-21
E1	g3_1200_4	RPS29	Unknown	24.989	0.987	1.307	AMP	0.205	3-19
E2	g3_1200_4	RPS29	Unknown	24.981	0.987	1.306	AMP	0.205	3-19
E3	g3_1200_4	RPS29	Unknown	25.084	0.983	1.302	AMP	0.205	3-19
E4	g3_1200_7	RPS29	Unknown	26.312	0.987	1.31	AMP	0.205	3-20
E5	g3_1200_7	RPS29	Unknown	26.23	0.984	1.312	AMP	0.205	3-20
E6	g3_1200_7	RPS29	Unknown	26.486	0.985	1.303	AMP	0.205	3-21
E7	g3_1400_6/8	RPS29	Unknown	25.131	0.977	1.299	AMP	0.205	3-19
E8	g3_1400_6/8	RPS29	Unknown	25.172	0.984	1.293	AMP	0.205	3-19
E9	g3_1400_6/8	RPS29	Unknown	25.255	0.984	1.286	AMP	0.205	3-19
E10	PHX WT	RPS29	Unknown	23.755	0.987	1.308	AMP	0.205	3-18
E11	PHX WT	RPS29	Unknown	23.523	0.987	1.316	AMP	0.205	3-17
E12	PHX WT	RPS29	Unknown	23.273	0.987	1.337	AMP	0.205	3-18
F1	NTC	OCT4	Negative Control	Undetermined	-	-	NO_AMP	0.375	3-39
F2	NTC	SOX2	Negative Control	Undetermined	-	-	NO_AMP	0.391	3-39

Well	Sample	Target	Task	Cq	Cq Confidence	Amp Score	Amp Status	Cq Threshold	Baseline Start/End
F3	NTC	GAPDH	Negative Control	Undetermined	-	0.511	NO_AMP	0.197	3-39
F4	NTC	NANOG	Negative Control	Undetermined	-	-	NO_AMP	0.216	3-39
F5	NTC	RPS29	Negative Control	Undetermined	-	-	NO_AMP	0.205	3-39
G1	-RT mix	OCT4	Negative Control	Undetermined	-	-	NO_AMP	0.375	3-39
G2	-RT mix	SOX2	Negative Control	Undetermined	-	-	NO_AMP	0.391	3-39
G3	-RT mix	GAPDH	Negative Control	Undetermined	-	-	NO_AMP	0.197	3-39
G4	-RT mix	NANOG	Negative Control	Undetermined	-	-	NO_AMP	0.216	3-39
G5	-RT mix	RPS29	Negative Control	Undetermined	-	-	NO_AMP	0.205	3-39
H1	-RT PHX WT	OCT4	Negative Control	Undetermined	-	1.038	Inconclusive	0.375	3-34
H2	-RT PHX WT	SOX2	Negative Control	Undetermined	-	-	NO_AMP	0.391	3-39
H3	-RT PHX WT	GAPDH	Negative Control	Undetermined	-	-	NO_AMP	0.197	3-39
H4	-RT PHX WT	NANOG	Negative Control	Undetermined	-	0.346	NO_AMP	0.216	3-39
H5	-RT PHX WT	RPS29	Negative Control	39.605	-	0.942	Inconclusive	0.205	3-34

Replicate Group Table

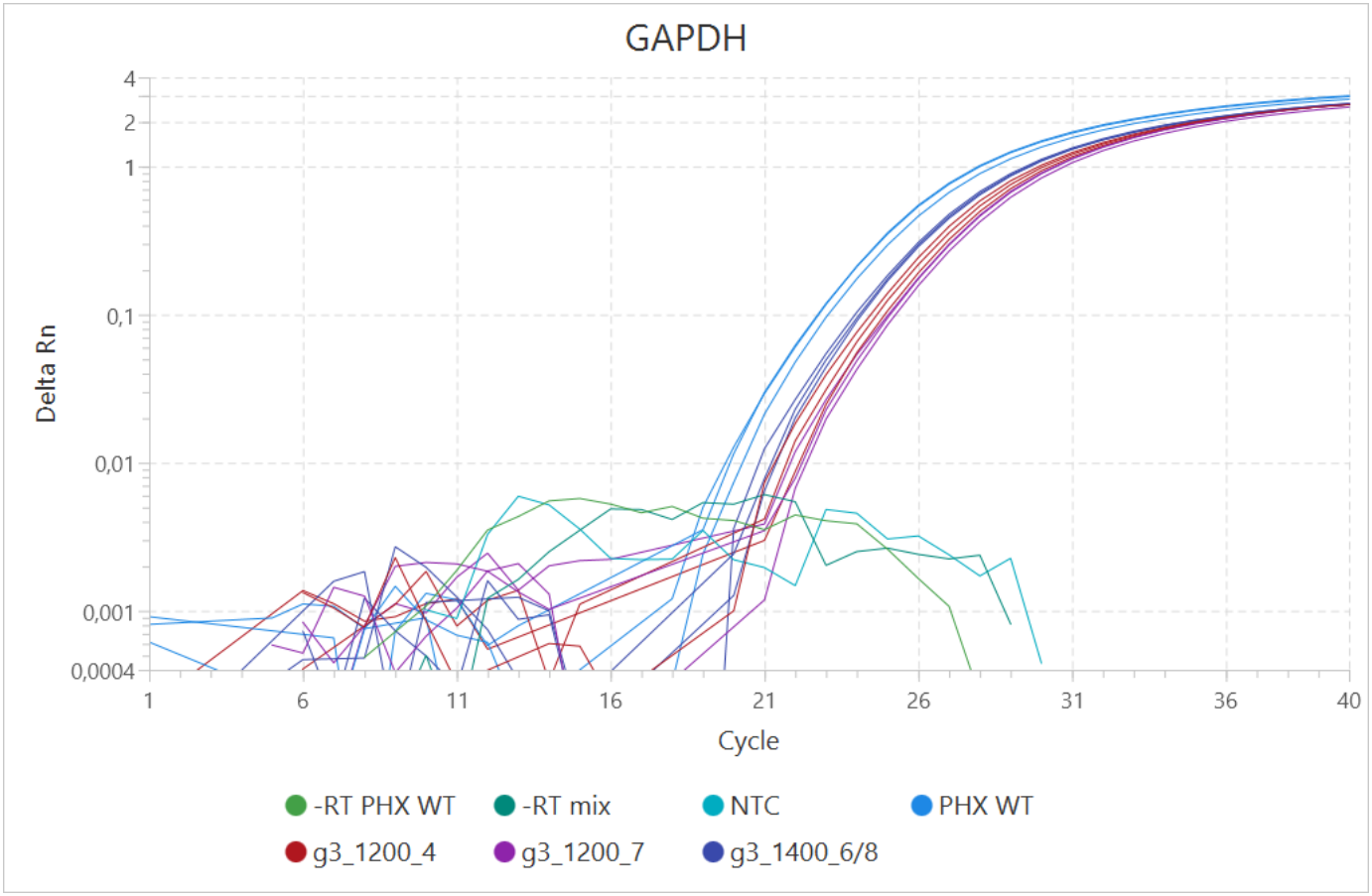
Sample	Target	No. of Replicates	Cq Mean	Cq SD
-RT PHX WT	GAPDH	1	-	-
-RT PHX WT	NANOG	1	-	-
-RT PHX WT	OCT4	1	-	-
-RT PHX WT	RPS29	1	39.605	-
-RT PHX WT	SOX2	1	-	-
-RT mix	GAPDH	1	-	-
-RT mix	NANOG	1	-	-
-RT mix	OCT4	1	-	-
-RT mix	RPS29	1	-	-
-RT mix	SOX2	1	-	-
NTC	GAPDH	1	-	-
NTC	NANOG	1	-	-
NTC	OCT4	1	-	-
NTC	RPS29	1	-	-
NTC	SOX2	1	-	-
PHX WT	GAPDH	3	23.972	0.193
PHX WT	NANOG	3	27.088	0.054
PHX WT	OCT4	3	24.814	0.088
PHX WT	RPS29	3	23.517	0.241
PHX WT	SOX2	3	26.279	0.098
g3_1200_4	GAPDH	3	25.804	0.216
g3_1200_4	NANOG	3	29.232	0.069
g3_1200_4	OCT4	3	26.081	0.124
g3_1200_4	RPS29	3	25.018	0.057
g3_1200_4	SOX2	3	29.264	0.097
g3_1200_7	GAPDH	3	26.252	0.12
g3_1200_7	NANOG	3	29.101	0.04
g3_1200_7	OCT4	3	27.214	0.132
g3_1200_7	RPS29	3	26.342	0.131
g3_1200_7	SOX2	3	28.474	0.18

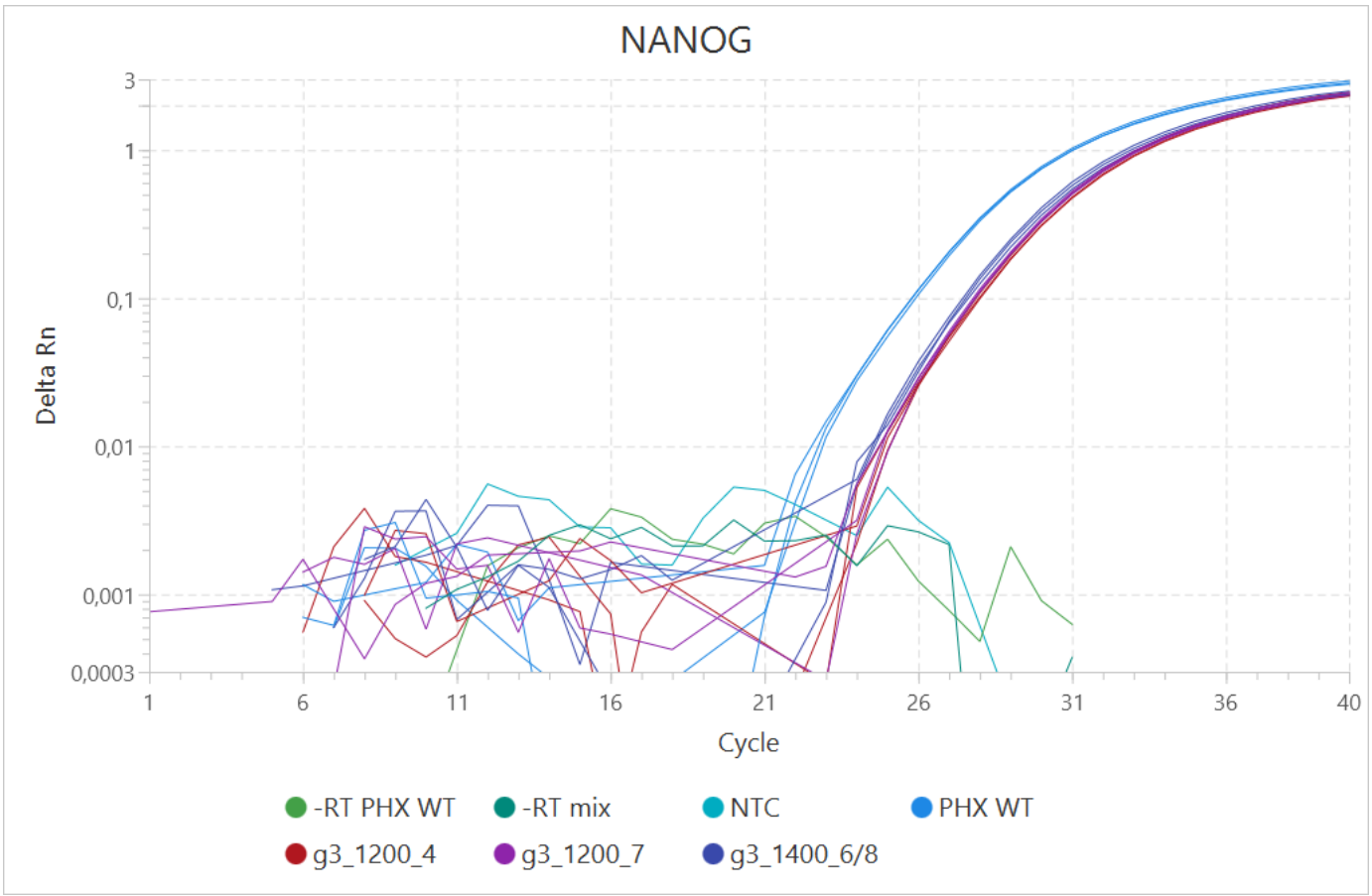
Sample	Target	No. of Replicates	Cq Mean	Cq SD
g3_1400_6/8	GAPDH	3	25.179	0.079
g3_1400_6/8	NANOG	3	28.815	0.117
g3_1400_6/8	OCT4	2	26.474	0.021
g3_1400_6/8	RPS29	3	25.186	0.063
g3_1400_6/8	SOX2	3	27.947	0.131

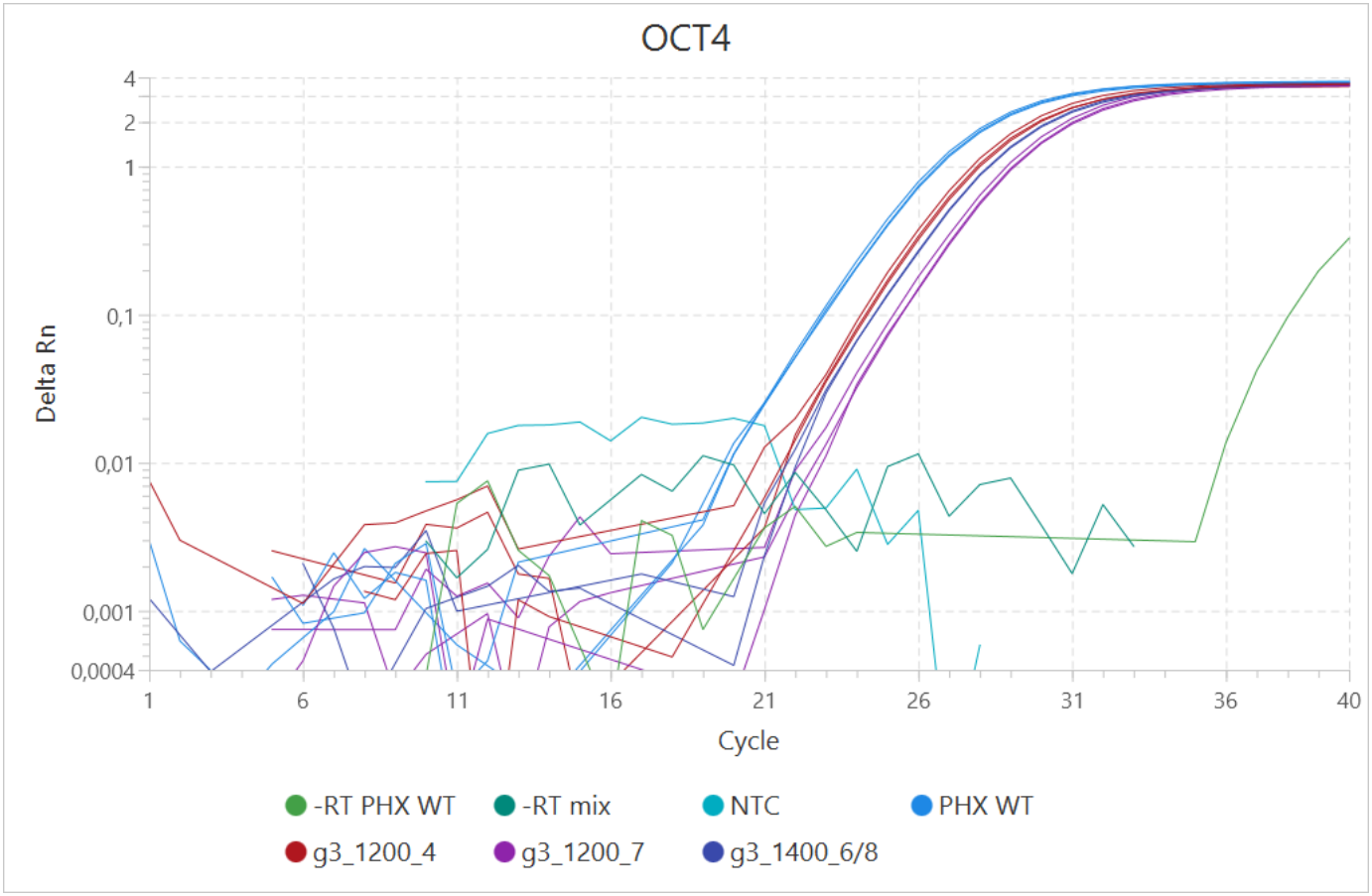
Plate Layout

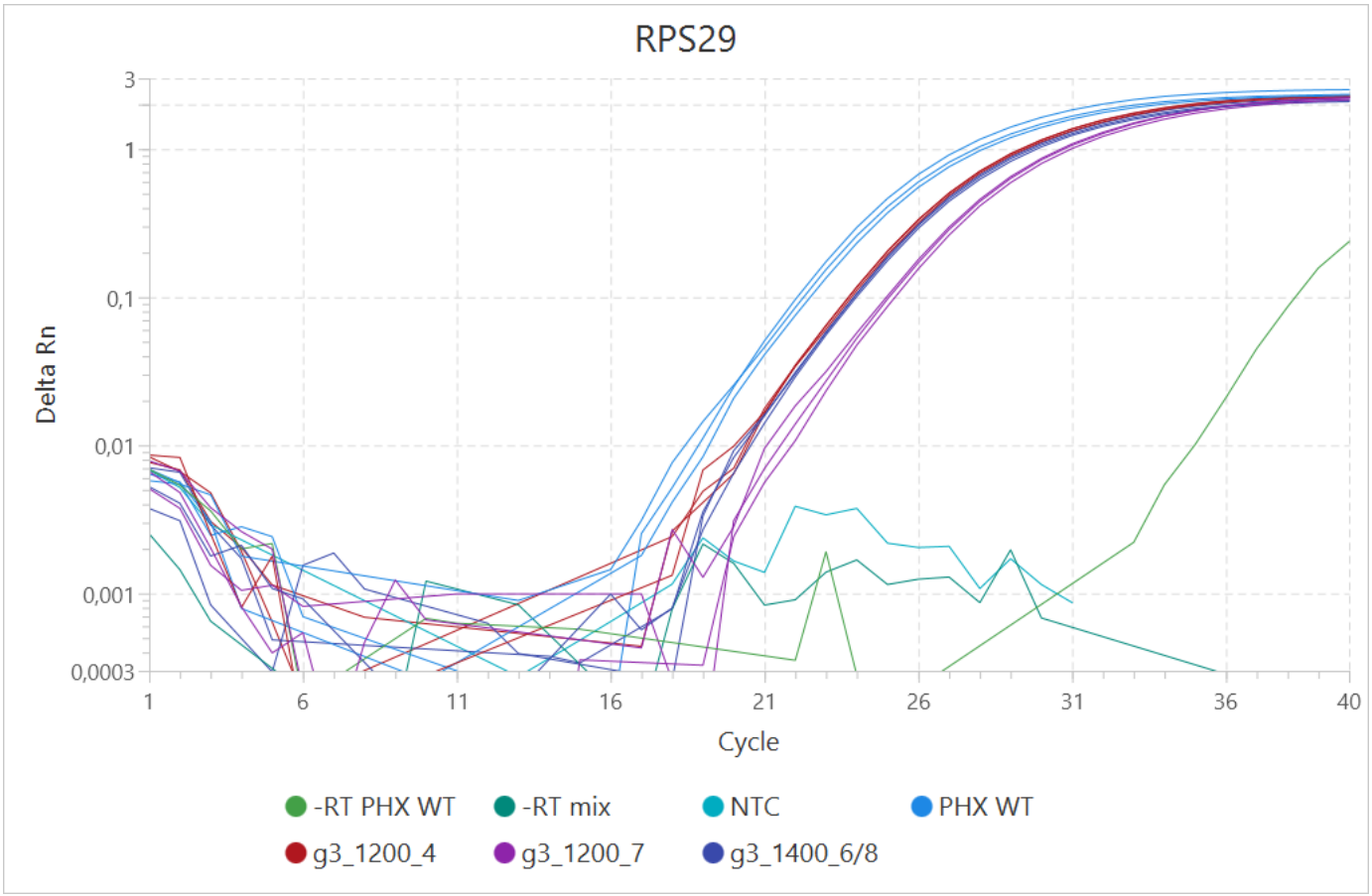
	1	2	3	4	5	6	7	8	9	10	11	12
A	g3_1200_4 OCT4 (25.944)	g3_1200_4 OCT4 (26.111)	g3_1200_4 OCT4 (26.187)	g3_1200_7 OCT4 (27.264)	g3_1200_7 OCT4 (27.064)	g3_1200_7 OCT4 (27.315)	g3_1400_6/8 OCT4 (n/a)	g3_1400_6/8 OCT4 (26.459)	g3_1400_6/8 OCT4 (26.488)	PHX WT OCT4 (24.714)	PHX WT OCT4 (24.881)	PHX WT OCT4 (24.848)
B	g3_1200_4 SOX2 (29.339)	g3_1200_4 SOX2 (29.154)	g3_1200_4 SOX2 (29.3)	g3_1200_7 SOX2 (28.268)	g3_1200_7 SOX2 (28.602)	g3_1200_7 SOX2 (28.553)	g3_1400_6/8 SOX2 (27.799)	g3_1400_6/8 SOX2 (27.992)	g3_1400_6/8 SOX2 (28.049)	PHX WT SOX2 (26.237)	PHX WT SOX2 (26.391)	PHX WT SOX2 (26.209)
C	g3_1200_4 GAPDH (26.021)	g3_1200_4 GAPDH (25.589)	g3_1200_4 GAPDH (25.802)	g3_1200_7 GAPDH (26.197)	g3_1200_7 GAPDH (26.389)	g3_1200_7 GAPDH (26.17)	g3_1400_6/8 GAPDH (25.253)	g3_1400_6/8 GAPDH (25.188)	g3_1400_6/8 GAPDH (25.095)	PHX WT GAPDH (24.195)	PHX WT GAPDH (23.867)	PHX WT GAPDH (23.855)
D	g3_1200_4 NANOG (29.153)	g3_1200_4 NANOG (29.274)	g3_1200_4 NANOG (29.269)	g3_1200_7 NANOG (29.058)	g3_1200_7 NANOG (29.11)	g3_1200_7 NANOG (29.137)	g3_1400_6/8 NANOG (28.799)	g3_1400_6/8 NANOG (28.939)	g3_1400_6/8 NANOG (28.707)	PHX WT NANOG (27.064)	PHX WT NANOG (27.15)	PHX WT NANOG (27.05)
E	g3_1200_4 RPS29 (24.989)	g3_1200_4 RPS29 (24.981)	g3_1200_4 RPS29 (25.084)	g3_1200_7 RPS29 (26.312)	g3_1200_7 RPS29 (26.23)	g3_1200_7 RPS29 (26.486)	g3_1400_6/8 RPS29 (25.131)	g3_1400_6/8 RPS29 (25.172)	g3_1400_6/8 RPS29 (25.255)	PHX WT RPS29 (23.755)	PHX WT RPS29 (23.523)	PHX WT RPS29 (23.273)
F	NTC OCT4 (n/a)	NTC SOX2 (n/a)	NTC GAPDH (n/a)	NTC NANOG (n/a)	NTC RPS29 (n/a)							
G	-RT mix OCT4 (n/a)	-RT mix SOX2 (n/a)	-RT mix GAPDH (n/a)	-RT mix NANOG (n/a)	-RT mix RPS29 (n/a)							
H	-RT PHX WT OCT4 (n/a)	-RT PHX WT SOX2 (n/a)	-RT PHX WT GAPDH (n/a)	-RT PHX WT NANOG (n/a)	-RT PHX WT RPS29 (39.605)							

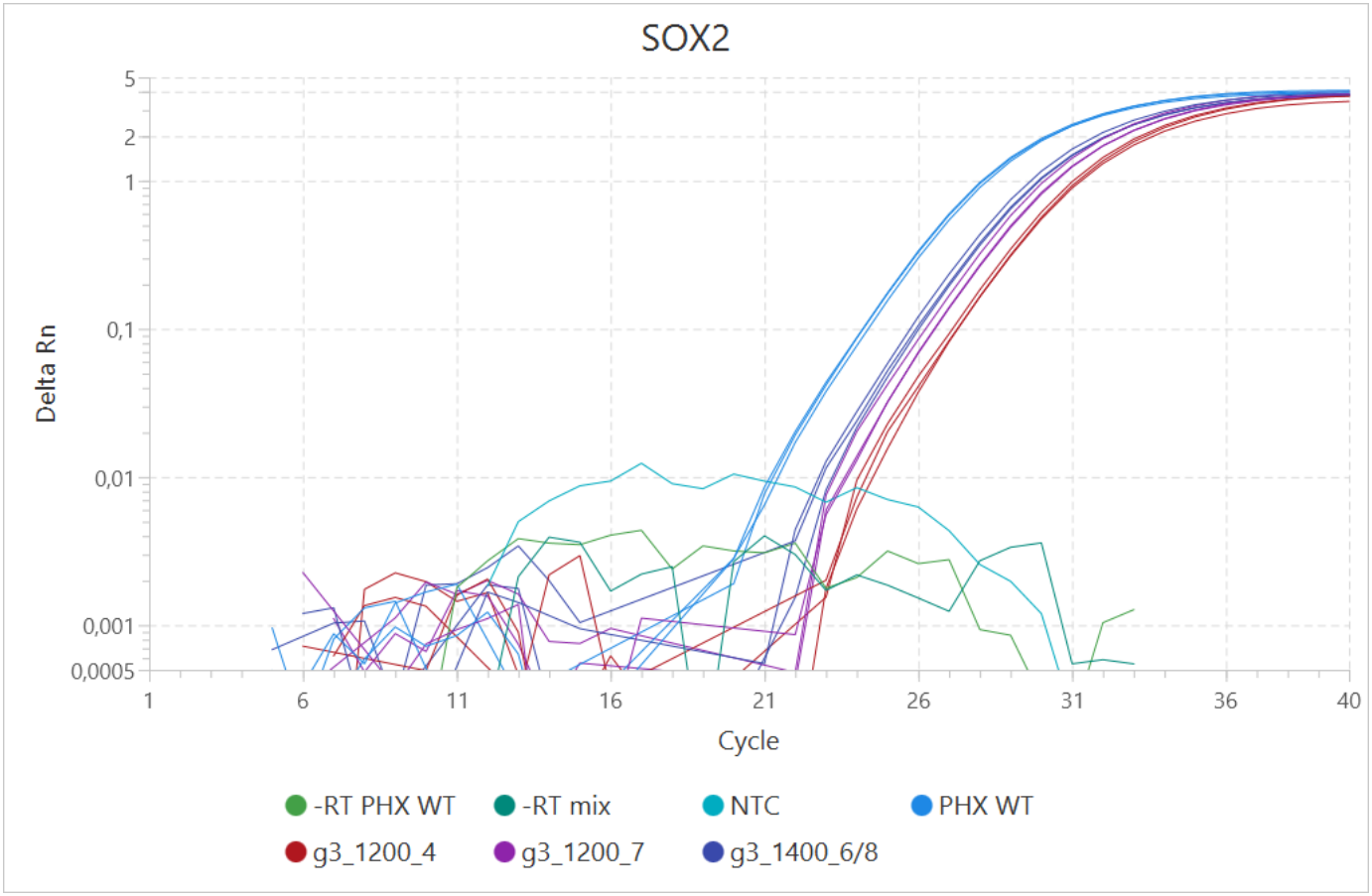
Amplification Plot (dRn)



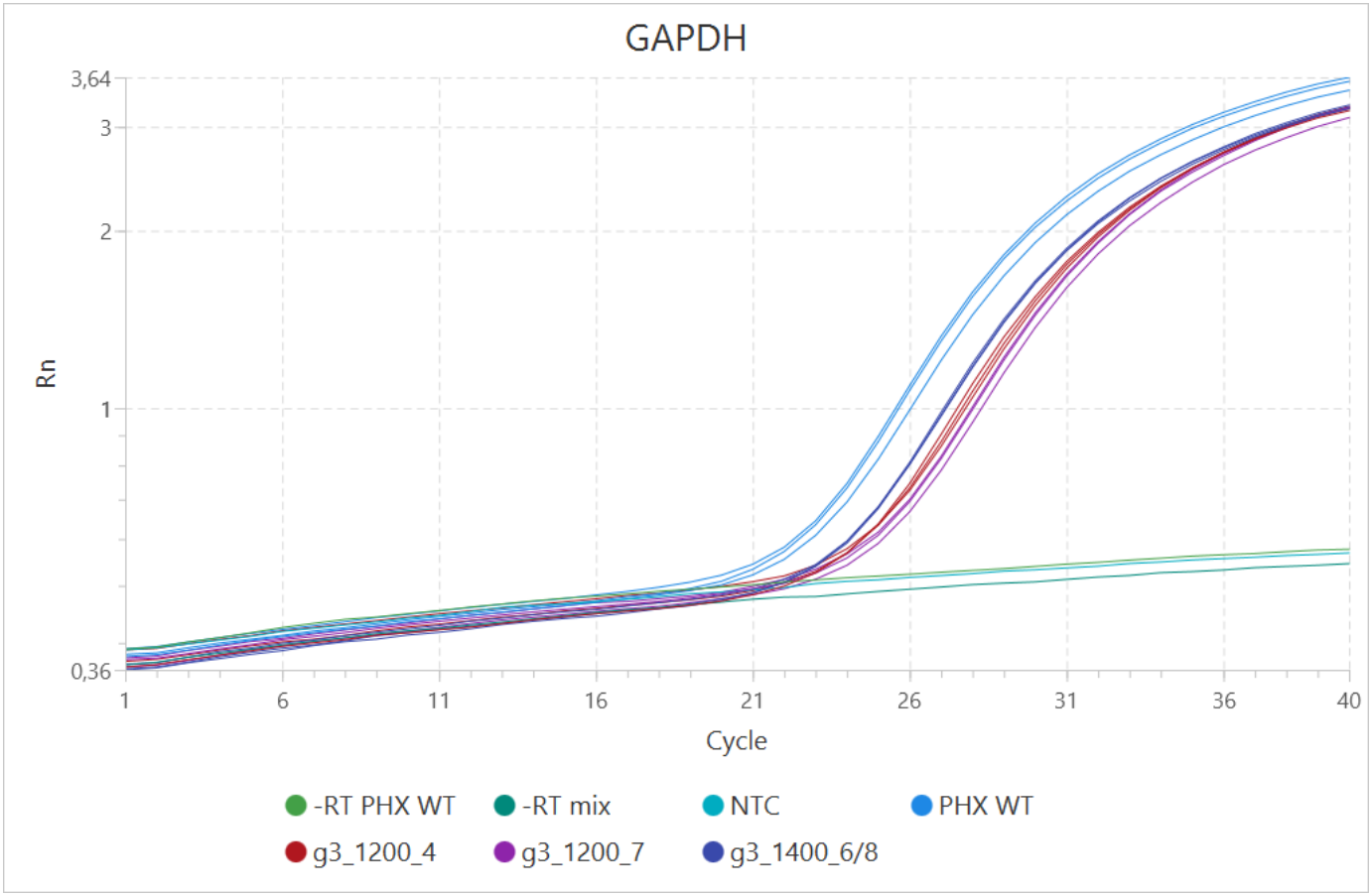


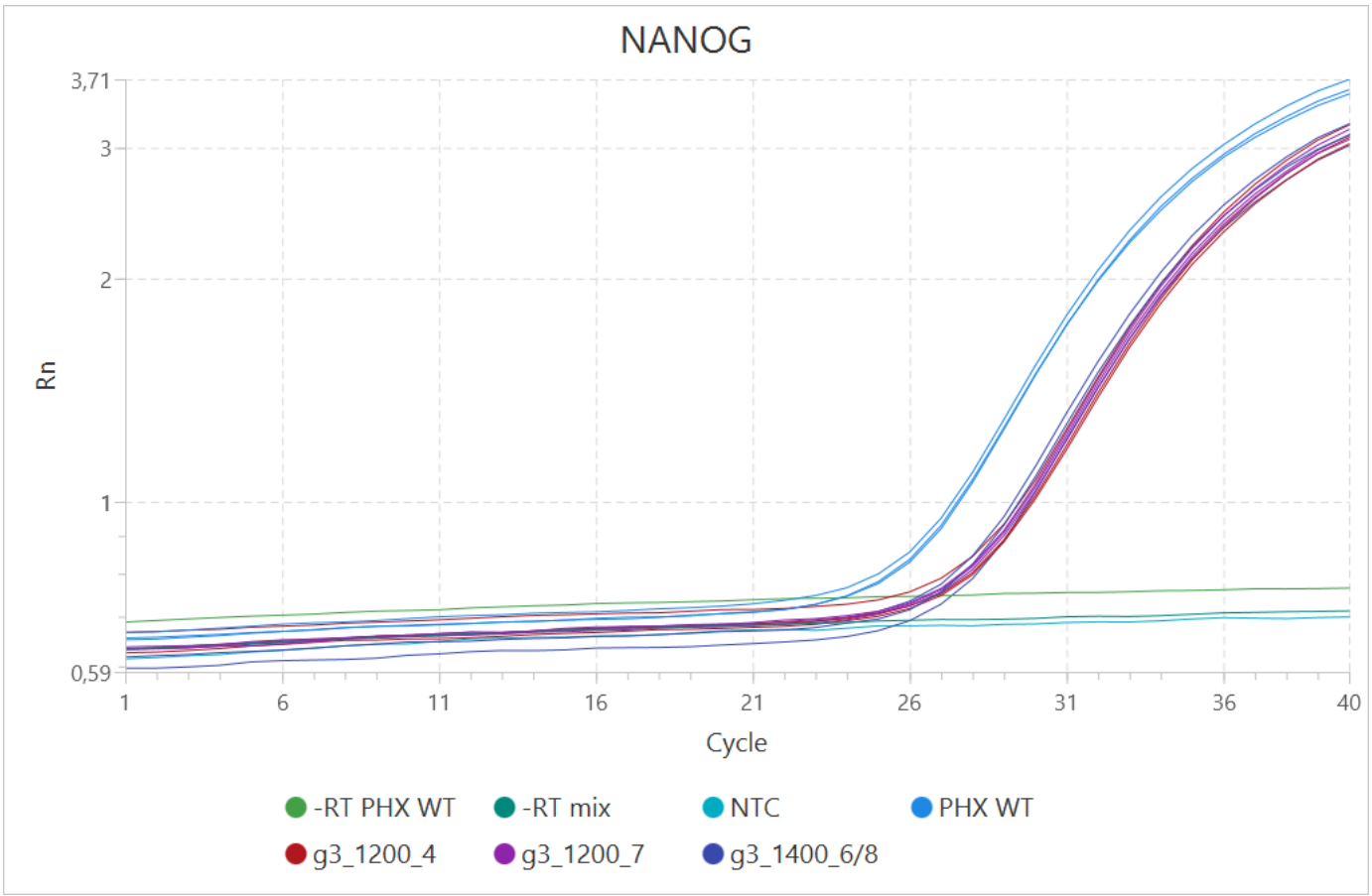

OCT4
Delta Rn
4
2
1
0,1
0,01
0,001
0,0004
1
6
11
16
21
26
31
36
40
Cycle
-RT PHX WT
-RT mix
NTC
PHX WT
g3_1200_4
g3_1200_7
g3_1400_6/8

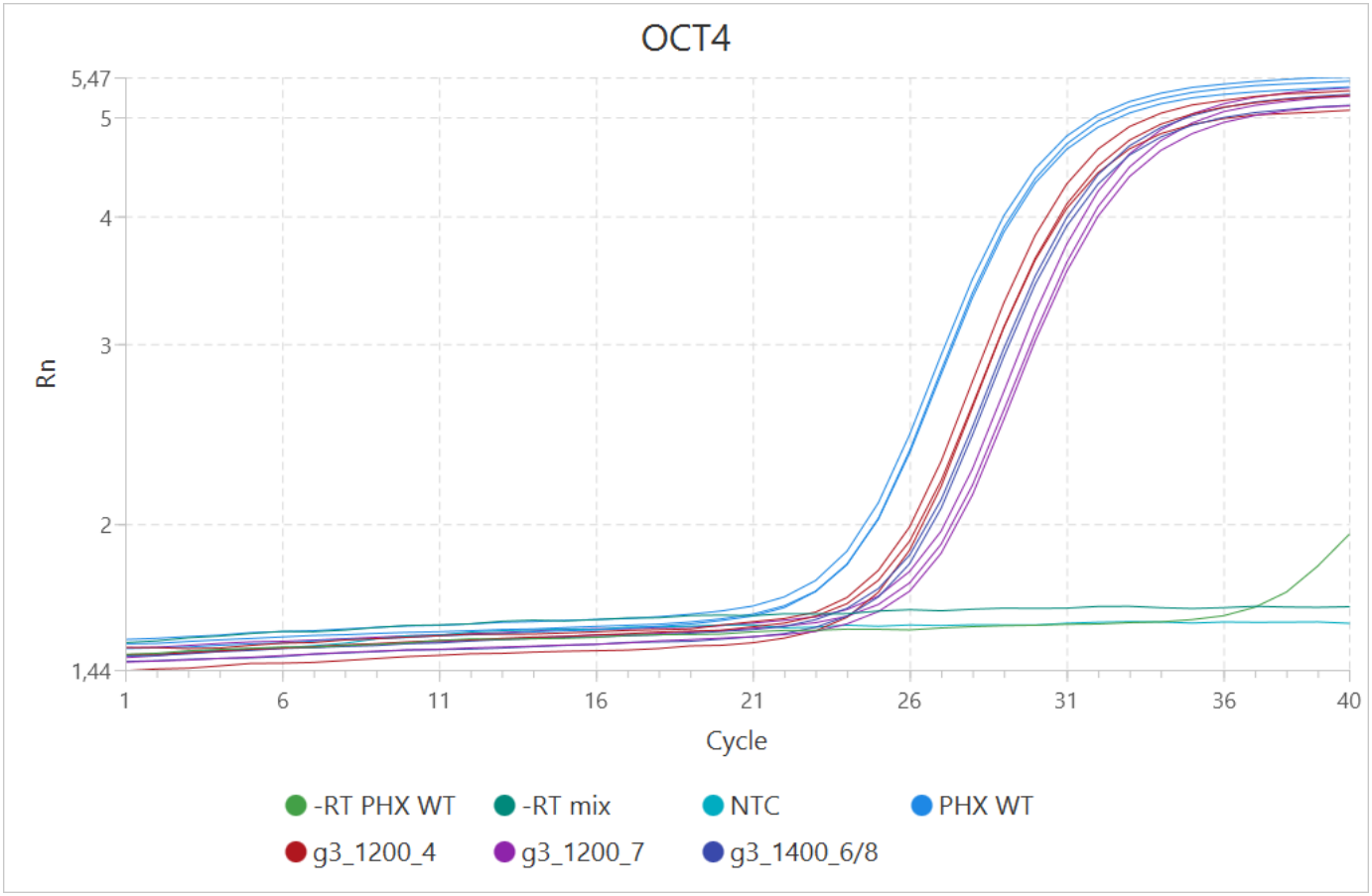

RPS29
Delta Rn
3
1
0,1
0,01
0,001
0,0003
1
6
11
16
21
26
31
36
40
Cycle
-RT PHX WT
-RT mix
NTC
PHX WT
g3_1200_4
g3_1200_7
g3_1400_6/8

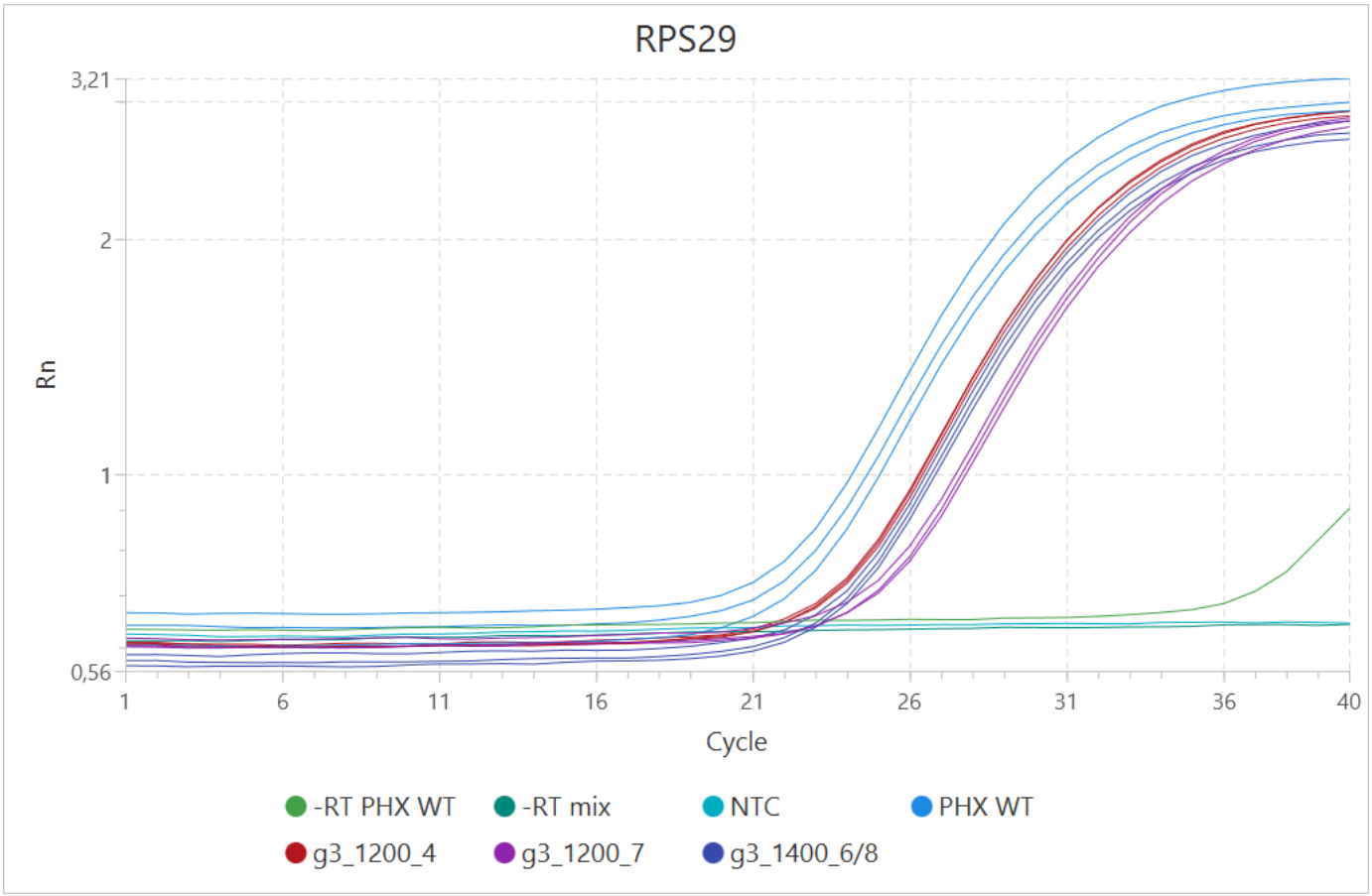

SOX2
Delta Rn
5
2
1
0,1
0,01
0,001
0,0005
1
6
11
16
21
26
31
36
40
Cycle
-RT PHX WT
-RT mix
NTC
PHX WT
g3_1200_4
g3_1200_7
g3_1400_6/8

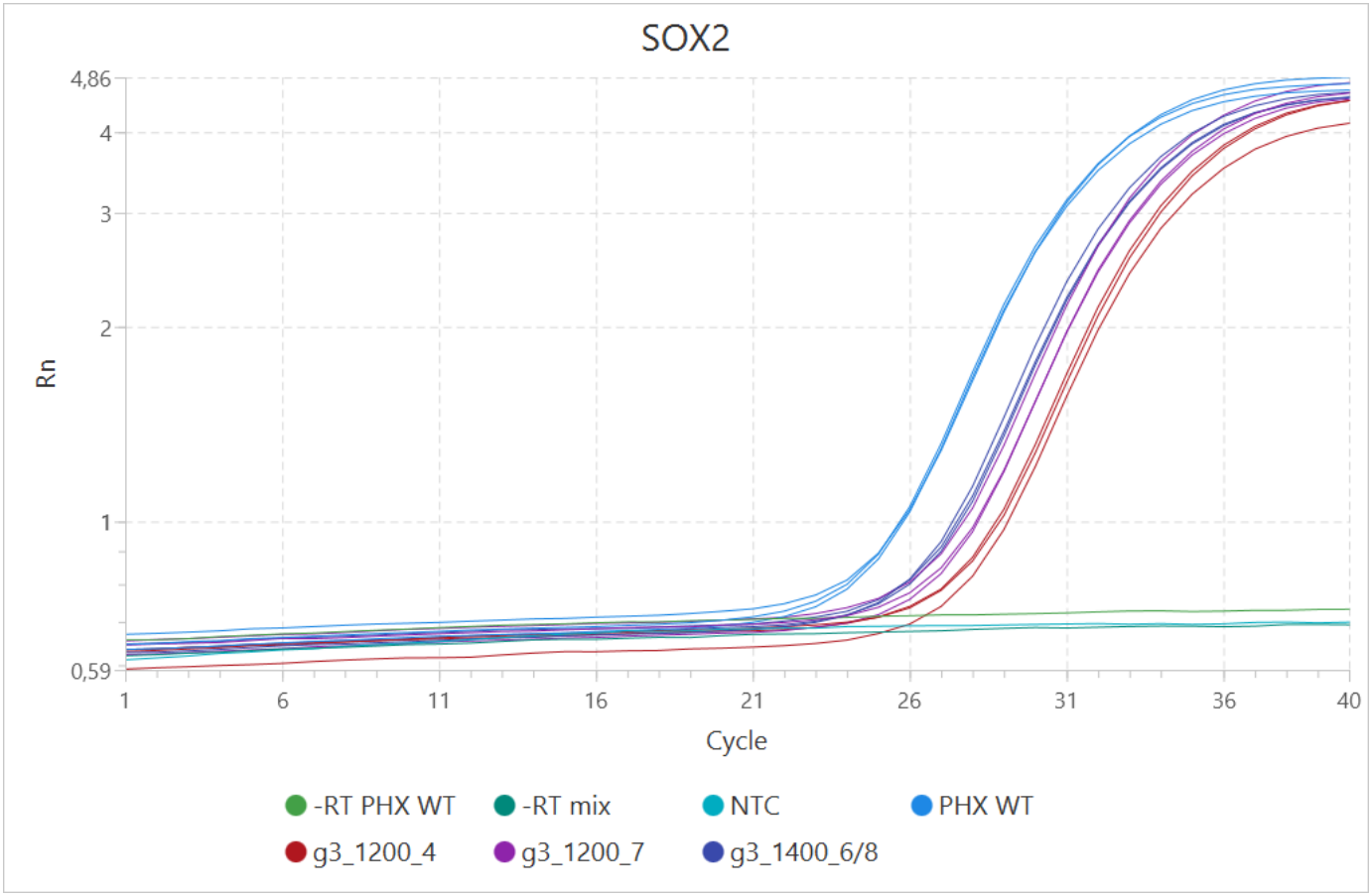
Amplification Plot (Rn)






OCT4
5,47
5
4
3
2
1,44
Rn
1
6
11
16
21
26
31
36
40
Cycle
-RT PHX WT
-RT mix
NTC
PHX WT
g3_1200_4
g3_1200_7
g3_1400_6/8


RPS29
3,21
2
1
0,56
Rn
1
6
11
16
21
26
31
36
40
Cycle
-RT PHX WT
-RT mix
NTC
PHX WT
g3_1200_4
g3_1200_7
g3_1400_6/8


SOX2
4,86
4
3
2
1
0,59
Rn
1
6
11
16
21
26
31
36
40
Cycle
-RT PHX WT
-RT mix
NTC
PHX WT
g3_1200_4
g3_1200_7
g3_1400_6/8

Run Method

Block Type	96-Well 0.2-mL Block
Sample Volume	10.0
Cover Temperature	105.0
Run mode	FAST

Stage	Collection Flag	Ramp Rate	Temperature	Hold Time	Starting Cycle	Auto Delta Temperature	Auto Delta Hold Time
Hold Stage	false	2.05°C/sec	50.0°C	120	-	-	-
Hold Stage	false	2.05°C/sec	95.0°C	20	-	-	-
PCR Stage (40 cycles)	false	2.05°C/sec	95.0°C	1	-	-	-
	true	1.71°C/sec	60.0°C	20	-	-	-

Primary Analysis Settings

General

PCR Stage/Step	Stage 3, Step 2
Quantification Cycle Method	Baseline Threshold

Target	Auto Threshold	Threshold	Auto Baseline	Baseline Start	Baseline End
DEFAULT	Yes	AUTO	Yes	AUTO	AUTO

QC Alerts

Curve Quality Alert Enabled	No
Results Quality Alert Enabled	Yes

Advanced

Set the Delta-Rn below which curves will be considered Non-Amplified	No
Primary Analysis Variant	N/A

Relative Quantification Settings

General

RQ Min/Max Calculations	Confidence Level (95.0)
Max Allowed EqCq Mean	40
Include Adjusted EqCq Mean	No
Analysis Type	Singleplex

Endo Controls

Normalization Type	Specific endogenous control

Target	Endogenous Control	Auto	Efficiency(%)
RPS29	Yes	Yes	AUTO
GAPDH	Yes	Yes	AUTO

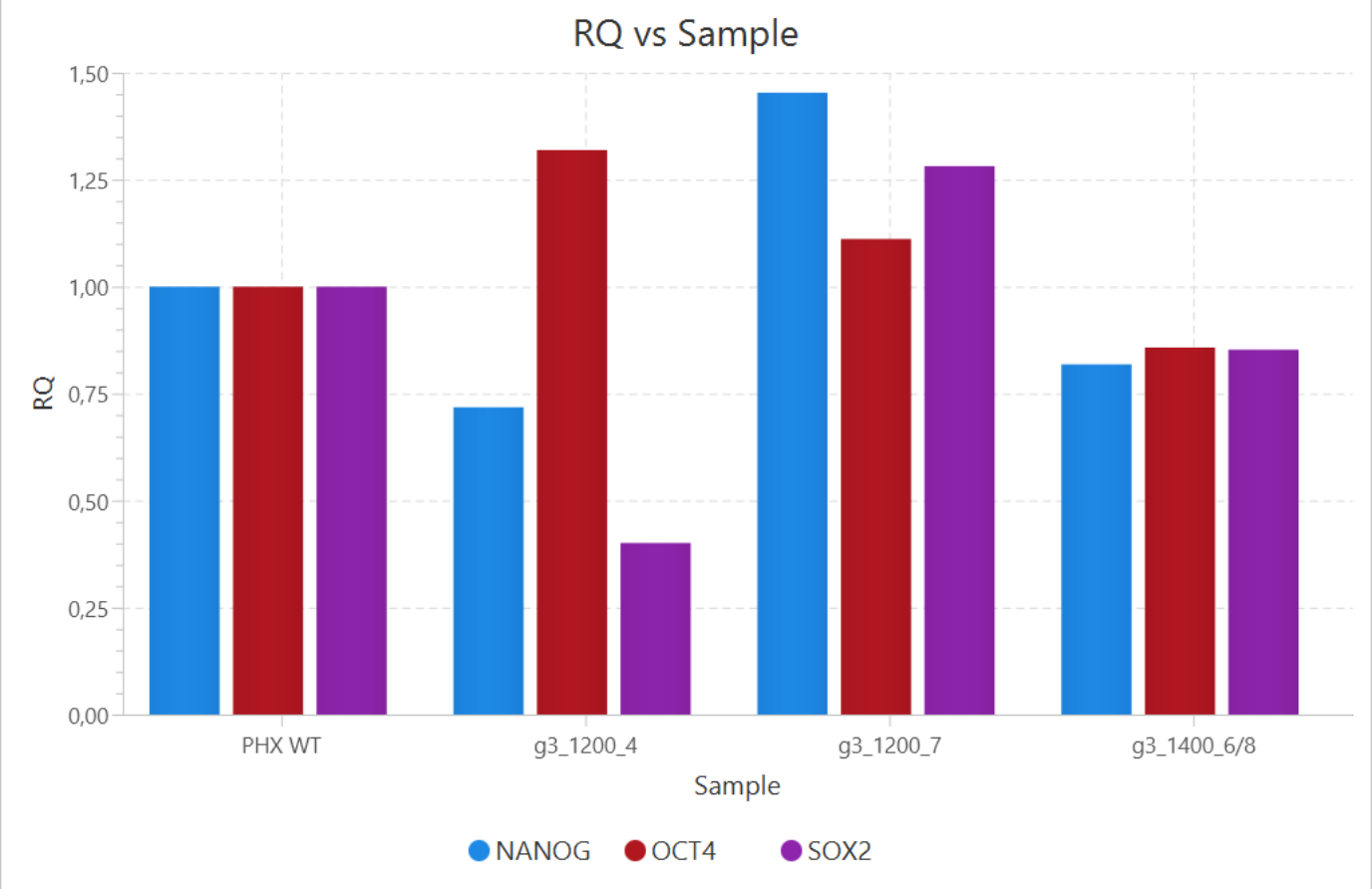
References

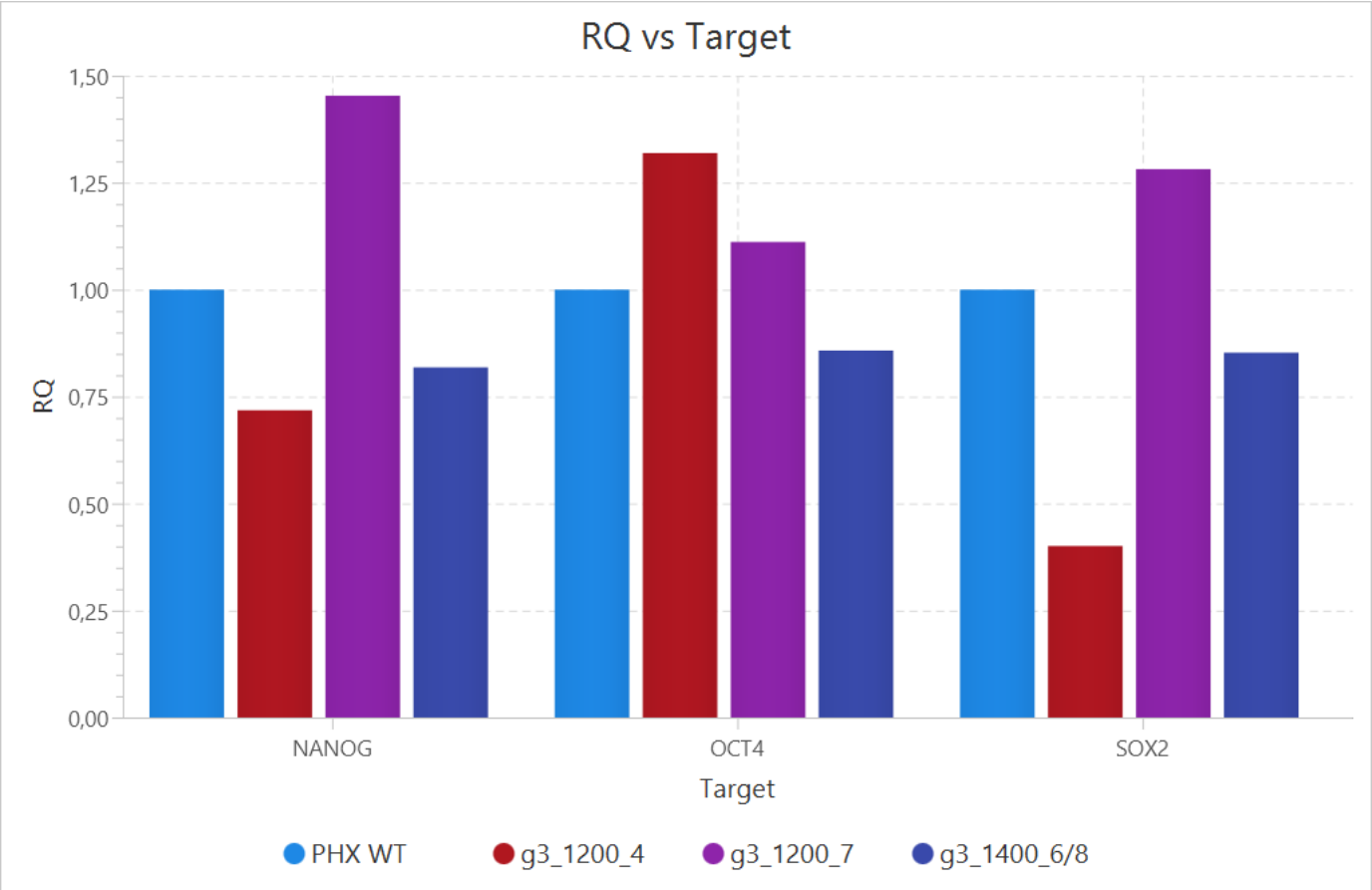
Reference Sample	PHX WT

Relative Quantification Results (Sample)

Sample	Target	EqCq Mean	Adjusted EqCq Mean	ΔEqCq Mean	ΔEqCq SD	ΔEqCq SE	ΔΔEqCq	RQ	RQ Min	RQ Max
g3_1200_4	OCT4	26.081	26.081	0.67	0.201	0.116	-0.4	1.319	1.091	1.595
g3_1200_7	OCT4	27.214	27.214	0.917	0.182	0.105	-0.153	1.112	0.935	1.321
g3_1400_6/8	OCT4	26.474	26.474	1.291	0.075	0.044	0.222	0.858	0.796	0.924
PHX WT	OCT4	24.814	24.814	1.07	0.235	0.136	-	1	0.8	1.249
g3_1200_4	SOX2	29.264	29.264	3.853	0.185	0.107	1.319	0.401	0.336	0.478
g3_1200_7	SOX2	28.474	28.474	2.177	0.22	0.127	-0.358	1.281	1.041	1.577
g3_1400_6/8	SOX2	27.947	27.947	2.764	0.149	0.086	0.23	0.853	0.74	0.982
PHX WT	SOX2	26.279	26.279	2.535	0.239	0.138	-	1	0.798	1.254
g3_1200_4	GAPDH	25.804	25.804	-	-	-	-	-	-	-
g3_1200_7	GAPDH	26.252	26.252	-	-	-	-	-	-	-
g3_1400_6/8	GAPDH	25.179	25.179	-	-	-	-	-	-	-
PHX WT	GAPDH	23.972	23.972	-	-	-	-	-	-	-
g3_1200_4	NANOG	29.232	29.232	3.821	0.172	0.099	0.478	0.718	0.61	0.845
g3_1200_7	NANOG	29.101	29.101	2.804	0.132	0.076	-0.539	1.453	1.283	1.646
g3_1400_6/8	NANOG	28.815	28.815	3.633	0.137	0.079	0.289	0.818	0.719	0.932
PHX WT	NANOG	27.088	27.088	3.343	0.225	0.13	-	1	0.808	1.237
g3_1200_4	RPS29	25.018	25.018	-	-	-	-	-	-	-
g3_1200_7	RPS29	26.342	26.342	-	-	-	-	-	-	-
g3_1400_6/8	RPS29	25.186	25.186	-	-	-	-	-	-	-
PHX WT	RPS29	23.517	23.517	-	-	-	-	-	-	-

Relative Quantification Plot





- End of Report -