

Supplementary data for

RNA stabilizes transcription-dependent chromatin loops induced by nuclear hormones

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Supplementary Table S1

CASP9-1	5' -GTCTGTACATGTTTCAGTACAATGC-3'	<i>CASP9</i>
CASP9-2	5' -CCACCTGCAGCTCTTCCA-3'	<i>CASP9</i>
CASP9-3	5' -CAGTCATCCGGAGACCTAAACC-3'	<i>CASP9</i>
CASP9-4	5' -AGATGCCCAGCACTATGCTAAG-3'	<i>CASP9</i>
CASP9-5	5' -GGTGCCTGGCAAATAGCAAT-3'	<i>CASP9</i>
CASP9-6	5' -TCAACAAAAATTCACCAAACTCA-3'	<i>CASP9</i>
CASP9-7	5' -GCAAGTACTCAATAATGTTCAACC-3'	<i>CASP9</i>
CASP9-8	5' -GGGGTGATTCCAGCATAGGTTTC-3'	<i>CASP9</i>
CASP9-9	5' -CTTCTGCGTCTGAACCTGAACC-3'	<i>CASP9</i>
CASP9-10	5' -CTGAAAGAAAGAAGGCTGGATGC-3'	<i>CASP9</i>
CASP9-11	5' -AGGAAGGAAACTACCGCTTGCT-3'	<i>CASP9</i>
CASP9-12	5' -TCCCTTTTACCAGAAACAGCA-3'	<i>CASP9</i>
BCL2-1	5' -ATCACAGGACTTCTGCGAATACCG-3'	<i>BCL2</i>
BCL2-2	5' -GTGGAGCCGGCGAAATAAAATC-3'	<i>BCL2</i>
BCL2-3	5' -TGCAGCCCAGACAAATGTGGTTAC-3'	<i>BCL2</i>
BCL2-4	5' -CTCCCTGATCCAACTTGGGAATG-3'	<i>BCL2</i>
BCL2-5	5' -TATGCGCGTGGGAGGTGT-3'	<i>BCL2</i>
BCL2-6	5' -GGACGGGGTGAACCTGGGGGAGGAT-3'	<i>BCL2</i>
BCL2-7	5' -TCTGCCTTCCCCATTCAACTATTA-3'	<i>BCL2</i>
BCL2-8	5' -CCCCTTCTCTTGCTGGTATC-3'	<i>BCL2</i>
BCL2-9	5' -GATAGTGATGAAGTACATCC-3'	<i>BCL2</i>
BCL2-10	5' -GAGGGTCAGGTGGACCACAGGTG-3'	<i>BCL2</i>
BCL2-RNAF	5' -GTGGTGGAGGAGCTCTTCAG-3'	<i>BCL2</i>
BCL2-RNAR	5' -CAAAGTGCAGAGTCTTCAG-3'	<i>BCL2</i>
BCL2- RNAR2	5' -CCAAGTGCACCTACCCAGCC-3'	<i>BCL2</i>
BCL2- PolyAF*	5' - AGATACTGGTTGTGCCTGGAATTGT-3'	<i>BCL2</i>
BCL2- PolyAR*	5' - GTAAGGCAATCCCTTAGCCTGGTCCCT-3'	<i>BCL2</i>
BCL2- EREF*	5' - GTCGCGAGGACCTCGCCGCTGCA-3'	<i>BCL2</i>
BCL2- ERER*	5' - CTGGCTGGACATCTCGGCGAAGT-3'	<i>BCL2</i>
CAV1-1	5' -GAAGAGAAGCCAGGAATGTTTTAT-3'	<i>CAV1</i>
CAV1-2	5' -CTGCTGGGGGTTCGAAGAGGTG-3'	<i>CAV1</i>
CAV1-3	5' -CCGGGAGAAGCCTGCGGCTGC-3'	<i>CAV1</i>
CAV1-4	5' -CCTTGGGACGGTGAGATG-3'	<i>CAV1</i>
CAV1-5	5' -CGTATTTTCTTTGTCTTTAGTCCT-3'	<i>CAV1</i>
CAV1-6	5' -TGCTCTCTCCCCATCTT-3'	<i>CAV1</i>
CAV1-7	5' -CACAGACTCTGACACATAAACACCTG-3'	<i>CAV1</i>
CAV1-8	5' -AAGTTGGGTGTGAGTGGATTAAAG-3'	<i>CAV1</i>
CAV1-9	5' -GGATCTTAGATAAAGCTGGAAGG-3'	<i>CAV1</i>
CAV1-10	5' -CTAAGCCGAGTCGCTCTCGC-3'	<i>CAV1</i>
CAV1-11	5' - CAGGACCCGAGGACCTCGGC-3'	<i>CAV1</i>
CAV1-12	5' -CTGCAGGGCGCGCCTGCCTC-3'	<i>CAV1</i>
CAV1-13	5' -GATCTCGCAGAGGACACCACAC-3'	<i>CAV1</i>
CAV1-14	5' -AGGACTAAAGACAAAGAAAATACG-3'	<i>CAV1</i>
CAV1-15/ERE3R*	5' -GAATCCCAACCTGAATGTGC-3'	<i>CAV1</i>
CAV1-ERE1F*	5' -TAAAGCTGGAAGGGATTACCGG-3'	<i>CAV1</i>
CAV1-ERE1R*	5' -CTTCTCCCGGACTCCCTAAG-3'	<i>CAV1</i>
CAV1-ERE2F*	5' -ACCCTAAACACCTCAACGAT-3'	<i>CAV1</i>
CAV1-ERE2R*	5' -CTGCCAGAGGAGAGCTGTCCAG-3'	<i>CAV1</i>
CAV1-ERE3F*	5' -GGACACCTGCACCTTAGATGT-3'	<i>CAV1</i>
CAV1-PolyAF*	5' - AGACATGTCTGTTCTACATAGATGCT-3'	<i>CAV1</i>
CAV1-PolyAR*	5' - CAGGCTTGTAACCTTTACAGGACATGCAT-3'	<i>CAV1</i>
CAV1-IntronF*	5' - AGGCACGGAGCACGTCATGA-3'	<i>CAV1</i>
CAV1-IntronRF*	5' - GCTTTGATGAATGCCACAGCAGAG-3'	<i>CAV1</i>
CAV1-RNAF	5' -GCCGCCCTCCCCGTCTTG-3'	<i>CAV1</i>
CAV1-RNAR	5' -GCCGCCCTCCCCGTCTTG-3'	<i>CAV1</i>
CAV1-RNAFB	5' -GGCCAACCGCGAGCAGAACAAA-3'	<i>CAV1</i>
CAV1-RNAR	5' -GAGGGCAGACAGCAAGCGGTAAAA-3'	<i>CAV1</i>
18S-1	5' -GCGCTACACTGACTGGCTC-3'	<i>18S</i>
18S-2	5' -CATCCAATCGGTAGTAGCGAC-3'	<i>18S</i>
ControlF	5' - ACCGAGACCCCTCTTGCTCT -3'	<i>TSHR</i>
ControlR	5' - AGTTGCTAACAGTGATGAGAGGCT -3'	<i>TSHR</i>

Supplementary Table S1. Complete list of DNA oligonucleotides used for PCR. On the left is shown the primer identification tag (ID); on the centre, the DNA sequence; on the right, the genes or loci corresponding to the specific primers.

Supplementary Figures

Suppl. Figure 1S

Statistical analysis of the data presented in Fig. 1C (A) and 1D (B).

The diamond illustrates a sample mean and 95% confidence intervals, the mean line across the middle of each diamond represents the group mean, the horizontal size of the diamond is proportional to the sample size. Differences between groups were tested by ANOVA.

Suppl. Figure 2S

Statistical analysis of the data presented in Fig. 2C (A) and 2D (B).

The diamond illustrates a sample mean and 95% confidence intervals, the mean line across the middle of each diamond represents the group mean, the horizontal size of the diamond is proportional to the sample size. Differences between groups were tested by ANOVA.

Suppl. Figure 3S

RAD21 binding to the BCL2 promoter-ERE and PolyA sites.

ChIP was carried out as described in Materials and Methods, including the antibody used and RNase H1 digestion. The data set corresponding are shown.

Suppl. Figure 4S

Statistical analysis of the data presented in Fig. 2E (A) and 2F (B).

The diamond illustrates a sample mean and 95% confidence intervals, the mean line across the middle of each diamond represents the group mean, the horizontal size of the diamond is proportional to the sample size. Differences between groups were tested by ANOVA.

Suppl. Figure 5S

Statistical analysis of the data presented in Fig. 4B (A) and 4D (B).

The diamond illustrates a sample mean and 95% confidence intervals, the mean line across the middle of each diamond represents the group mean, the

horizontal size of the diamond is proportional to the sample size. Differences between groups were tested by ANOVA.

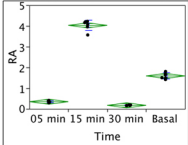
Suppl. Figure 6S

Statistical analysis of the data presented in Fig. 5C.

The diamond illustrates a sample mean and 95% confidence intervals, the mean line across the middle of each diamond represents the group mean, the horizontal size of the diamond is proportional to the sample size. Differences between groups were tested by ANOVA.

A

Oneway Analysis of RA By Time PCR=Promoter



Means and Std Deviations

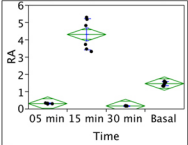
Level	Number	Mean	Std Dev	Std Err Mean
05 min	6	0.34617	0.042939	0.01753
15 min	6	0.402850	0.246996	0.10084
30 min	6	0.17200	0.015723	0.00642
Basal	6	1.59083	0.146046	0.05962

Means Comparisons

Comparisons for each pair using Student's t

Level	- Level	Difference	Lower CL	Upper CL	p-Value
15 min	30 min	3.856500	3.68153	4.031468	<.0001*
15 min	05 min	3.682333	3.50737	3.857301	<.0001*
15 min	Basal	2.437667	2.26270	2.612634	<.0001*
Basal	30 min	1.418833	1.24387	1.593801	<.0001*
Basal	05 min	1.244667	1.06970	1.419634	<.0001*
05 min	30 min	0.174167	-0.00080	0.349134	0.0510

Oneway Analysis of RA By Time PCR=PolyA



Means and Std Deviations

Level	Number	Mean	Std Dev	Std Err Mean
05 min	6	0.29717	0.020024	0.00817
15 min	6	4.29133	0.897916	0.36657
30 min	6	0.15867	0.010250	0.00418
Basal	6	1.45167	0.125438	0.05121

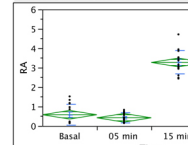
Means Comparisons

Comparisons for each pair using Student's t

Level	- Level	Difference	Lower CL	Upper CL	p-Value
15 min	30 min	4.132667	3.58655	4.67879	<.0001*
15 min	05 min	3.994167	3.44805	4.540279	<.0001*
15 min	Basal	2.896667	2.69355	3.385779	<.0001*
Basal	30 min	1.293000	0.74689	1.839113	<.0001*
Basal	05 min	1.154500	0.60839	1.700613	0.0003*
05 min	30 min	0.138500	-0.40761	0.684613	0.6026

B

Oneway Analysis of RA By Time PCR=RARE



Means and Std Deviations

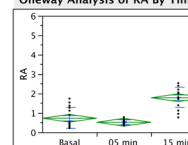
Level	Number	Mean	Std Dev	Lower 95%	Upper 95%
Basal	15	0.75892	0.522615	0.2895	0.8683
05 min	15	0.42177	0.248711	0.2840	0.5595
15 min	15	3.26995	0.603719	2.9536	3.6043
30 min	15	0.60659	0.205633	0.4927	0.7205

Means Comparisons

Comparisons for each pair using Student's t

Level	- Level	Difference	Lower CL	Upper CL	p-Value
15 min	05 min	2.848177	2.53318	3.163169	<.0001*
15 min	Basal	2.691028	2.37604	3.006020	<.0001*
15 min	30 min	2.663355	2.34836	2.978347	<.0001*
30 min	05 min	0.186822	-0.13017	0.498814	0.2448
Basal	05 min	0.157149	-0.15784	0.472141	0.3219
30 min	Basal	0.027673	-0.28732	0.342665	0.8609

Oneway Analysis of RA By Time PCR=PolyA



Means and Std Deviations

Level	Number	Mean	Std Dev	Lower 95%	Upper 95%
Basal	15	0.72530	0.541467	0.4254	1.0252
05 min	15	0.52101	0.117443	0.4560	0.5860
15 min	15	1.78244	0.519905	1.4945	2.0703
30 min	15	0.50942	0.158247	0.4218	0.5971

Means Comparisons

Comparisons for each pair using Student's t

Level	- Level	Difference	Lower CL	Upper CL	p-Value
15 min	30 min	1.273013	0.989164	1.556861	<.0001*
15 min	05 min	1.261429	0.977580	1.545278	<.0001*
15 min	Basal	1.057138	0.732589	1.340987	<.0001*
Basal	30 min	0.215875	-0.069794	0.499724	0.1333
Basal	05 min	0.204291	-0.079558	0.488140	0.1549
05 min	30 min	0.011584	-0.272265	0.295433	0.9351

Oneway Analysis of RA+RNase H1 By Time PCR=Promoter



Means and Std Deviations

Level	Number	Mean	Std Dev	Lower 95%	Upper 95%
Basal	9	0.375773	0.083324	0.31172	0.43982
05 min	9	0.478063	0.088373	0.41013	0.54599
15 min	9	0.226423	0.052361	0.18617	0.26667
30 min	9	0.351584	0.047220	0.31529	0.38788

Means Comparisons

Comparisons for each pair using Student's t

Level	- Level	Difference	Lower CL	Upper CL	p-Value
05 min	15 min	0.251640	0.184212	0.319078	<.0001*
Basal	15 min	0.149349	0.081922	0.216775	<.0001*
05 min	30 min	0.126478	0.059591	0.193907	0.0006*
30 min	15 min	0.125162	0.057733	0.192590	0.0006*
05 min	Basal	0.102293	0.034862	0.169718	0.0041*
Basal	30 min	0.0241885	-0.043239	0.091614	0.4703

Oneway Analysis of RA+RNase H1 By Time PCR=PolyA



Means and Std Deviations

Level	Number	Mean	Std Dev	Lower 95%	Upper 95%
Basal	9	0.375773	0.083324	0.31172	0.43982
05 min	9	0.478063	0.088373	0.41013	0.54599
15 min	9	0.226423	0.052361	0.18617	0.26667
30 min	9	0.351584	0.047220	0.31529	0.38788

Means Comparisons

Comparisons for each pair using Student's t

Level	- Level	Difference	Lower CL	Upper CL	p-Value
05 min	15 min	0.251640	0.184212	0.319078	<.0001*
Basal	15 min	0.149349	0.081922	0.216775	<.0001*
05 min	30 min	0.126478	0.059591	0.193907	0.0006*
30 min	15 min	0.125162	0.057733	0.192590	0.0006*
05 min	Basal	0.102293	0.034862	0.169718	0.0041*
Basal	30 min	0.0241885	-0.043239	0.091614	0.4703

Oneway Analysis of RA+RNase H1 By Time PCR=RARE



Means and Std Deviations

Level	Number	Mean	Std Dev	Lower 95%	Upper 95%
Basal	15	0.72530	0.541467	0.4254	1.0252
05 min	15	0.52101	0.117443	0.4560	0.5860
15 min	15	1.78244	0.519905	1.4945	2.0703
30 min	15	0.50942	0.158247	0.4218	0.5971

Means Comparisons

Comparisons for each pair using Student's t

Level	- Level	Difference	Lower CL	Upper CL	p-Value
15 min	05 min	2.848177	2.53318	3.163169	<.0001*
15 min	Basal	2.691028	2.37604	3.006020	<.0001*
15 min	30 min	2.663355	2.34836	2.978347	<.0001*
30 min	05 min	0.186822	-0.13017	0.498814	0.2448
Basal	05 min	0.157149	-0.15784	0.472141	0.3219
30 min	Basal	0.027673	-0.28732	0.342665	0.8609

Oneway Analysis of RA+RNase H1 By Time PCR=Control



Means and Std Deviations

Level	Number	Mean	Std Dev	Lower 95%	Upper 95%
Basal	15	0.72530	0.541467	0.4254	1.0252
05 min	15	0.52101	0.117443	0.4560	0.5860
15 min	15	1.78244	0.519905	1.4945	2.0703
30 min	15	0.50942	0.158247	0.4218	0.5971

Means Comparisons

Comparisons for each pair using Student's t

Level	- Level	Difference	Lower CL	Upper CL	p-Value
15 min	05 min	2.848177	2.53318	3.163169	<.0001*
15 min	Basal	2.691028	2.37604	3.006020	<.0001*
15 min	30 min	2.663355	2.34836	2.978347	<.0001*
30 min	05 min	0.186822	-0.13017	0.498814	0.2448
Basal	05 min	0.157149	-0.15784	0.472141	0.3219
30 min	Basal	0.027673	-0.28732	0.342665	0.8609

Oneway Analysis of RA+RNase H1 By Time PCR=Control



Means and Std Deviations

Level	Number	Mean	Std Dev	Lower 95%	Upper 95%
Basal	15	0.72530	0.541467	0.4254	1.0252
05 min	15	0.52101	0.117443	0.4560	0.5860
15 min	15	1.78244	0.519905	1.4945	2.0703
30 min	15	0.50942	0.158247	0.4218	0.5971

Means Comparisons

Comparisons for each pair using Student's t

Level	- Level	Difference	Lower CL	Upper CL	p-Value
15 min	05 min	2.848177	2.53318	3.163169	<.0001*
15 min	Basal	2.691028	2.37604	3.006020	<.0001*
15 min	30 min	2.663355	2.34836	2.978347	<.0001*
30 min	05 min	0.186822	-0.13017	0.498814	0.2448
Basal	05 min	0.157149	-0.15784	0.472141	0.3219
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Oneway Analysis of RA+RNase H1 By Time PCR=Control



Means and Std Deviations

Level	Number	Mean	Std Dev	Lower 95%	Upper 95%
Basal	15	0.72530	0.541467	0.4254	1.0252
05 min	15	0.52101	0.117443	0.4560	0.5860
15 min	15	1.78244	0.519905	1.4945	2.0703
30 min	15	0.50942	0.158247	0.4218	0.5971

Means Comparisons

Comparisons for each pair using Student's t

Level	- Level	Difference	Lower CL	Upper CL	p-Value
15 min	05 min	2.848177	2.53318	3.163169	<.0001*
15 min	Basal	2.691028	2.37604	3.006020	<.0001*
15 min	30 min	2.663355	2.34836	2.978347	<.0001*
30 min	05 min	0.186822	-0.13017	0.498814	0.2448
Basal	05 min	0.157149	-0.15784	0.472141	0.3219
30 min	Basal	0.027673	-0.28732	0.342665	0.8609

Oneway Analysis of RA+RNase H1 By Time PCR=Control



Means and Std Deviations

Level	Number	Mean	Std Dev	Lower 95%	Upper 95%
Basal	15	0.72530	0.541467	0.4254	1.0252
05 min	15	0.52101	0.117443	0.4560	0.5860
15 min	15	1.78244	0.519905	1.4945	2.0703
30 min	15	0.50942	0.158247	0.4218	0.5971

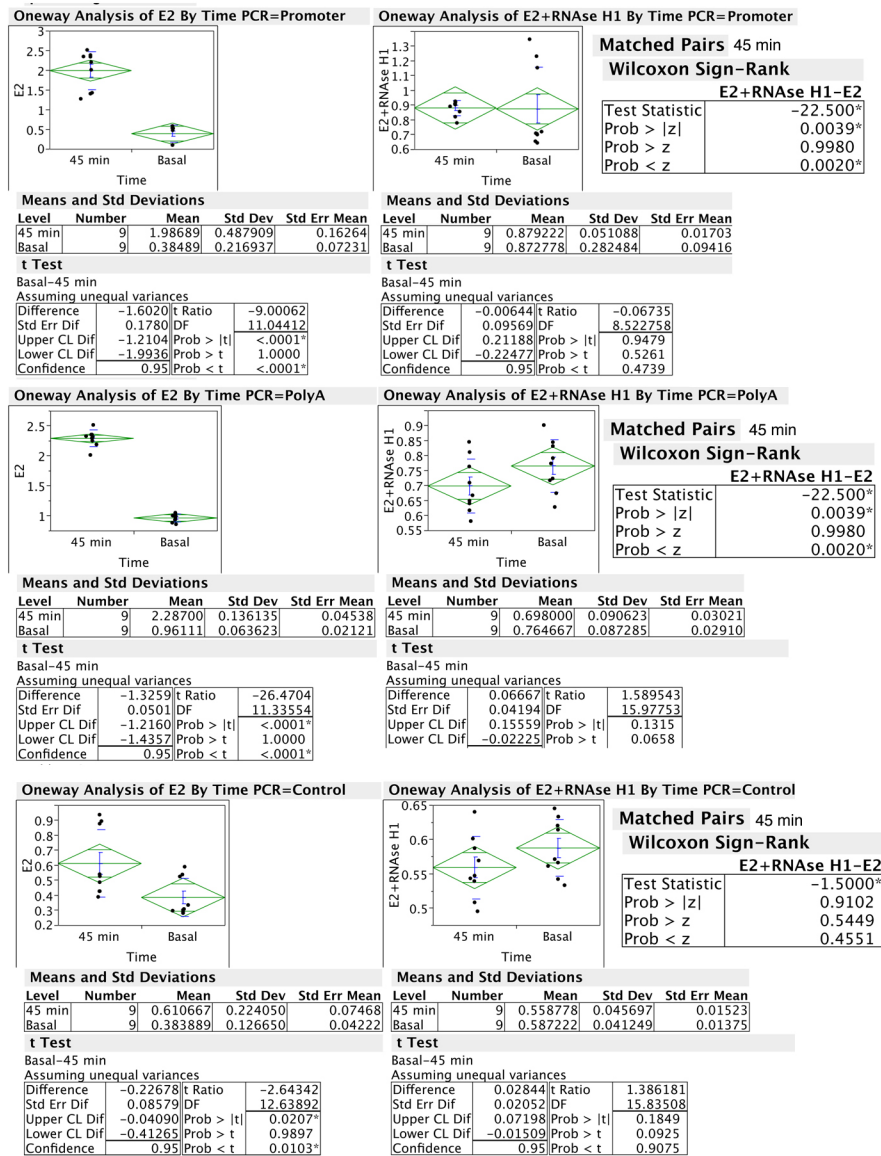
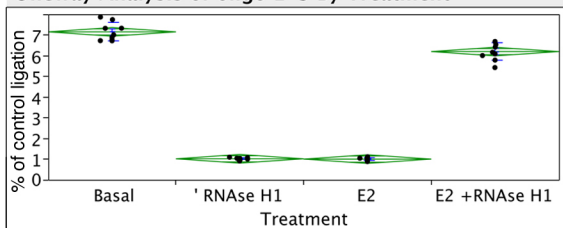
Means Comparisons

Comparisons for each pair using Student's t

Level	- Level	Difference	Lower CL	Upper CL	p-Value
15 min	05 min	2.848177	2.53318	3.163169	<.0001*
15 min	Basal	2.691028	2.37604	3.006020	<.0001*
15 min	30 min	2.663355	2.34836	2.978347	<.0001*
30 min	05 min	0.186822	-0.13017	0.498814	0.2448
Basal	05 min	0.157149	-0.15784	0.472141	0.3219
30 min	Basal	0.027673	-0.28732	0.342665	0.8609

Oneway Analysis of RA+RNase H1 By Time PCR=Control

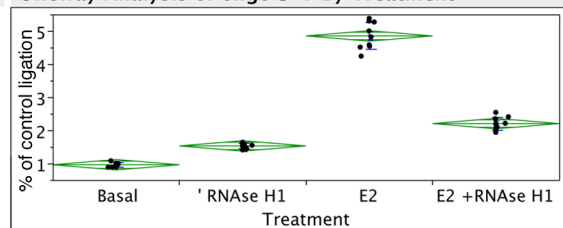


A**B****Oneway Analysis of oligo 1-9 By Treatment****Means Comparisons**

Level	Number	Mean	Std Dev	Std Err Mean
Basal	9	7.14400	0.43744	0.14581
' RNase H1	9	1.01333	0.05454	0.01818
E2	9	0.99889	0.08223	0.02741
E2 + RNase H1	9	6.19222	0.42493	0.14164

Means Comparisons**Comparisons for each pair using Student's t**

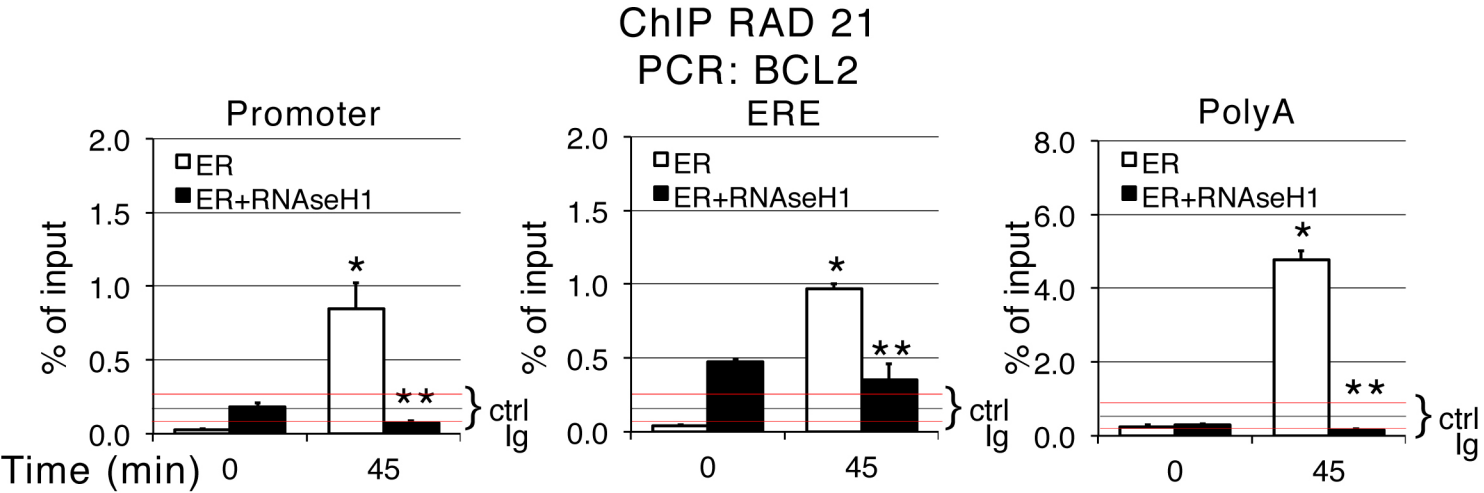
Level	- Level	Difference	Lower CL	Upper CL	p-Value
Basal	E2	6.14511	5.84850	6.44172	<.0001*
Basal	' RNase H1	6.13067	5.83406	6.42727	<.0001*
E2 + RNase H1	E2	5.19333	4.89673	5.48994	<.0001*
E2 + RNase H1	' RNase H1	5.17889	4.88228	5.47550	<.0001*
Basal	E2 + RNase H1	0.95178	0.65517	1.24838	<.0001*
' RNase H1	E2	0.01444	-0.2822	0.31105	0.9216

Oneway Analysis of oligo 3-7 By Treatment**Means Comparisons**

Level	Number	Mean	Std Dev	Std Err Mean
Basal	9	0.96056	0.06788	0.02263
' RNase H1	9	1.52889	0.08038	0.02679
E2	9	4.84889	0.40925	0.13642
E2 + RNase H1	9	2.20333	0.19742	0.06581

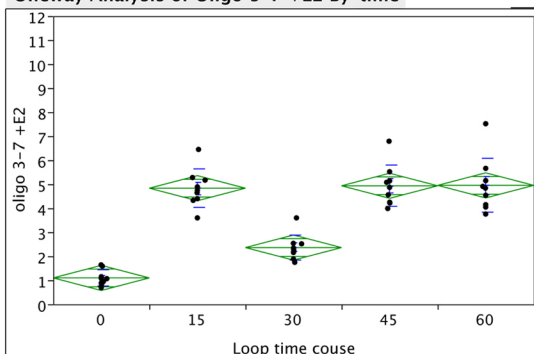
Means Comparisons**Comparisons for each pair using Student's t**

Level	- Level	Difference	Lower CL	Upper CL	p-Value
E2	Basal	3.88833	3.66441	4.11226	<.0001*
E2	' RNase H1	3.32000	3.09608	3.54392	<.0001*
E2	E2 + RNase H1	2.64556	2.42163	2.86948	<.0001*
E2 + RNase H1	Basal	1.24278	1.01885	1.46670	<.0001*
E2 + RNase H1	' RNase H1	0.67444	0.45052	0.89837	<.0001*
' RNase H1	Basal	0.56833	0.34441	0.79226	<.0001*



A

Oneway Analysis of Oligo 3-7 +E2 By time



Means and Std Deviations

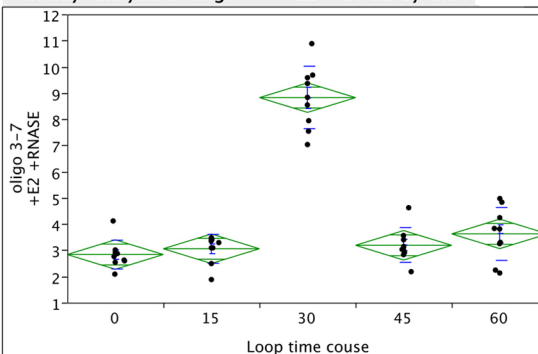
Level	Number	Mean	Std Dev	Std Err Mean
0	9	1.10025	0.32396	0.10799
15	9	4.83556	0.78521	0.26174
30	9	2.36333	0.53167	0.17722
45	9	4.93556	0.85620	0.28540
60	9	4.95333	1.12898	0.37633

Means Comparisons

Comparisons for each pair using Student's t

Level - Level	Difference	Lower CL	Upper CL	p-Value
60 - 0	3.853081	3.11363	4.592530	<.0001*
45 - 0	3.835303	3.09585	4.574753	<.0001*
15 - 0	3.735303	2.99585	4.474753	<.0001*
60 - 30	2.590000	1.85055	3.329450	<.0001*
45 - 30	2.572222	1.83277	3.311672	<.0001*
15 - 30	2.472222	1.73277	3.211672	<.0001*
30 - 0	1.263081	0.52363	2.002530	0.0013*
60 - 15	0.117778	-0.62167	0.857227	0.7492
45 - 15	0.100000	-0.63945	0.839450	0.7860
60 - 45	0.017778	-0.72167	0.757227	0.9615

Oneway Analysis of oligo 3-7 +E2 +RNASE By time



Means and Std Deviations

Level	Number	Mean	Std Dev	Std Err Mean
0	9	2.83422	0.55143	0.18381
15	9	3.05556	0.53437	0.17812
30	9	8.82000	1.20145	0.40048
45	9	3.18667	0.66280	0.22093
60	9	3.62222	1.00716	0.33572

Means Comparisons

Comparisons for each pair using Student's t

Level - Level	Difference	Lower CL	Upper CL	p-Value
30 - 0	5.985784	5.19017	6.781399	<.0001*
30 - 15	5.764444	4.96883	6.560060	<.0001*
30 - 45	5.633333	4.83772	6.428949	<.0001*
30 - 60	5.197778	4.40216	5.993393	<.0001*
60 - 0	0.788006	-0.00761	1.583621	0.0521
60 - 15	0.566667	-0.22895	1.362282	0.1578
60 - 45	0.435556	-0.36006	1.231171	0.2752
45 - 0	0.352450	-0.44317	1.148066	0.3760
15 - 0	0.221339	-0.57428	1.016955	0.5771
45 - 15	0.131111	-0.66450	0.926727	0.7408

Matched Pairs

Time minutes=0

Test Statistic	22.5000
Prob > z	0.0039*
Prob > z	0.0020*
Prob < z	0.9980

Time minutes=15

Test Statistic	-22.5000
Prob > z	0.0039*
Prob > z	0.9980
Prob < z	0.0020*

Time minutes=30

Test Statistic	22.5000
Prob > z	0.0039*
Prob > z	0.0020*
Prob < z	0.9980

Time minutes=45

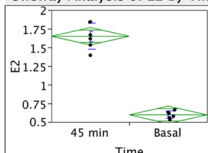
Test Statistic	-22.5000
Prob > z	0.0039*
Prob > z	0.9980
Prob < z	0.0020*

Time minutes=60

Test Statistic	-12.5000
Prob > z	0.1641
Prob > z	0.9180
Prob < z	0.0820

B

Oneway Analysis of E2 By Time PCR=Promoter



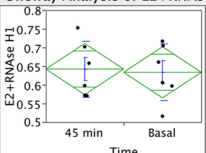
Means and Std Deviations

Level	Number	Mean	Std Dev	Std Err Mean
45 min	6	1.64917	0.175178	0.07152
Basal	6	0.59633	0.050007	0.02042

t Test

Assuming unequal variances	
Difference	-1.0528
Std Err Dif	0.0744
Upper CL Dif	-0.8694
Lower CL Dif	-1.2363
Confidence	0.95

Oneway Analysis of E2+RNase H1 By Time PCR=Promoter



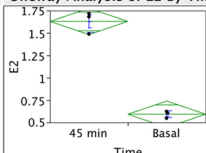
Means and Std Deviations

Level	Number	Mean	Std Dev	Std Err Mean
45 min	6	0.642333	0.074904	0.03058
Basal	6	0.633667	0.075809	0.03095

t Test

Assuming unequal variances	
Difference	-0.00867
Std Err Dif	0.04351
Upper CL Dif	-0.08828
Lower CL Dif	-0.10561
Confidence	0.95

Oneway Analysis of E2 By Time PCR=ERE1



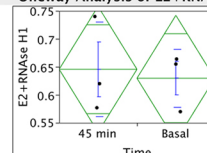
Means and Std Deviations

Level	Number	Mean	Std Dev	Std Err Mean
45 min	3	1.62833	0.123715	0.07143
Basal	3	0.59233	0.039323	0.02270

t Test

Assuming unequal variances	
Difference	-1.0360
Std Err Dif	0.0749
Upper CL Dif	-0.7599
Lower CL Dif	-1.3121
Confidence	0.95

Oneway Analysis of E2+RNase H1 By Time PCR=ERE1



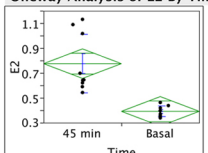
Means and Std Deviations

Level	Number	Mean	Std Dev	Std Err Mean
45 min	3	0.645667	0.084477	0.04877
Basal	3	0.629667	0.051868	0.02995

t Test

Assuming unequal variances	
Difference	-0.01600
Std Err Dif	0.05723
Upper CL Dif	-0.15659
Lower CL Dif	-0.18859
Confidence	0.95

Oneway Analysis of E2 By Time PCR=PolyA



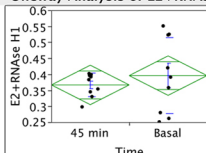
Means and Std Deviations

Level	Number	Mean	Std Dev	Std Err Mean
45 min	9	0.775000	0.233572	0.07786
Basal	9	0.391667	0.042697	0.01423

t Test

Assuming unequal variances	
Difference	-0.38333
Std Err Dif	0.07915
Upper CL Dif	-0.20279
Lower CL Dif	-0.56388
Confidence	0.95

Oneway Analysis of E2+RNase H1 By Time PCR=PolyA



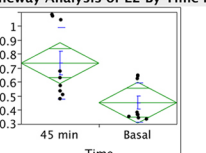
Means and Std Deviations

Level	Number	Mean	Std Dev	Std Err Mean
45 min	9	0.366556	0.036661	0.01222
Basal	9	0.395667	0.117939	0.03931

t Test

Assuming unequal variances	
Difference	0.02911
Std Err Dif	0.04117
Upper CL Dif	0.12145
Lower CL Dif	-0.06233
Confidence	0.95

Oneway Analysis of E2 By Time PCR=Control



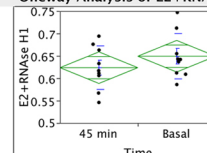
Means and Std Deviations

Level	Number	Mean	Std Dev	Std Err Mean
45 min	9	0.734778	0.256011	0.08534
Basal	9	0.452444	0.140985	0.04700

t Test

Assuming unequal variances	
Difference	-0.28233
Std Err Dif	0.09742
Upper CL Dif	-0.07091
Lower CL Dif	-0.49376
Confidence	0.95

Oneway Analysis of E2+RNase H1 By Time PCR=Control



Means and Std Deviations

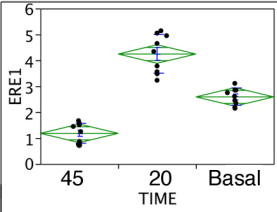
Level	Number	Mean	Std Dev	Std Err Mean
45 min	9	0.623667	0.048836	0.01628
Basal	9	0.649222	0.050960	0.01699

t Test

Assuming unequal variances	
Difference	0.02556
Std Err Dif	0.02353
Upper CL Dif	0.07544
Lower CL Dif	-0.02433
Confidence	0.95

A

Oneway Analysis of ERE1 By TIME



Means and Std Deviations

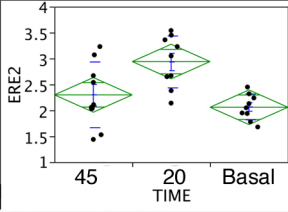
Level	Number	Mean	Std Dev	Std Err Mean
+E 45 min	9	1.18222	0.385901	0.12863
+E 20 min	9	4.24222	0.743300	0.24777
Basal	9	2.58889	0.329865	0.10996

Means Comparisons

Comparisons for each pair using Student's t

Level	- Level	Difference	Lower CL	Upper CL	p-Value
+E 20 min	+E 45 min	3.060000	2.554380	3.565620	<.0001*
+E 20 min	Basal	1.653333	1.147713	2.158953	<.0001*
Basal	+E 45 min	1.406667	0.901047	1.912287	<.0001*

Oneway Analysis of ERE2 By TIME



Means and Std Deviations

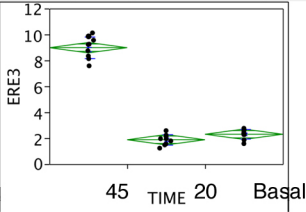
Level	Number	Mean	Std Dev	Std Err Mean
+E 45 min	9	2.29900	0.627054	0.20902
+E 20 min	9	2.94111	0.500411	0.16680
Basal	9	2.06000	0.251595	0.08386

Means Comparisons

Comparisons for each pair using Student's t

Level	- Level	Difference	Lower CL	Upper CL	p-Value
+E 20 min	Basal	0.881111	0.408828	1.353395	0.0008*
+E 20 min	+E 45 min	0.642111	0.169828	1.114395	0.0098*
+E 45 min	Basal	0.239000	-0.233284	0.711284	0.3067

Oneway Analysis of ERE3 By TIME



Means and Std Deviations

Level	Number	Mean	Std Dev	Std Err Mean
+E 45 min	9	8.97889	0.842117	0.28071
+E 20 min	9	1.87889	0.415224	0.13841
Basal	9	2.30333	0.376630	0.12554

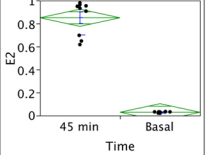
Means Comparisons

Comparisons for each pair using Student's t

Level	- Level	Difference	Lower CL	Upper CL	p-Value
+E 45 min	+E 20 min	7.100000	6.53174	7.668262	<.0001*
+E 45 min	Basal	6.675556	6.10729	7.243818	<.0001*
Basal	+E 20 min	0.424444	-0.14382	0.992707	0.1363

B

Oneway Analysis of E2 By Time PCR=ERE1



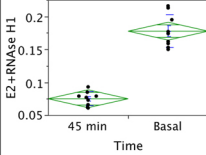
Means and Std Deviations

Level	Number	Mean	Std Dev	Std Err Mean
45 min	9	0.849444	0.149287	0.04976
Basal	9	0.029444	0.005940	0.00198

t Test

Basal-45 min	
Assuming unequal variances	
Difference	-0.82000
Std Err Dif	0.04980
Upper CL Dif	-0.70522
Lower CL Dif	-0.93478
Confidence	0.95

Oneway Analysis of E2+RNase H1 By Time PCR=ERE1



Means and Std Deviations

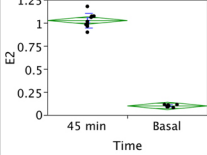
Level	Number	Mean	Std Dev	Std Err Mean
45 min	9	0.075000	0.010665	0.00356
Basal	9	0.177667	0.025000	0.00833

t Test

Basal-45 min	
Assuming unequal variances	
Difference	0.102667
Std Err Dif	0.009060
Upper CL Dif	0.122648
Lower CL Dif	0.082685
Confidence	0.95

Matched Pairs 45 min	
Wilcoxon Sign-Rank	
Test Statistic	-22.500*
Prob > z	0.0039*
Prob > z	0.9980
Prob < z	0.0020*

Oneway Analysis of E2 By Time PCR=PolyA



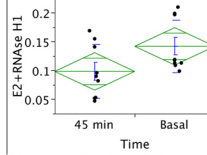
Means and Std Deviations

Level	Number	Mean	Std Dev	Std Err Mean
45 min	9	1.02622	0.081000	0.02700
Basal	9	0.09911	0.011921	0.00397

t Test

Basal-45 min	
Assuming unequal variances	
Difference	-0.92711
Std Err Dif	0.02729
Upper CL Dif	-0.86463
Lower CL Dif	-0.98959
Confidence	0.95

Oneway Analysis of E2+RNase H1 By Time PCR=PolyA



Means and Std Deviations

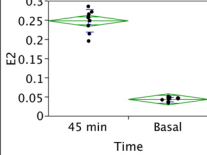
Level	Number	Mean	Std Dev	Std Err Mean
45 min	9	0.098333	0.046373	0.01546
Basal	9	0.141889	0.045584	0.01519

t Test

Basal-45 min	
Assuming unequal variances	
Difference	0.04356
Std Err Dif	0.02168
Upper CL Dif	0.08951
Lower CL Dif	-0.00240
Confidence	0.95

Matched Pairs 45 min	
Wilcoxon Sign-Rank	
Test Statistic	-22.500*
Prob > z	0.0039*
Prob > z	0.9980
Prob < z	0.0020*

Oneway Analysis of E2 By Time PCR=Intron



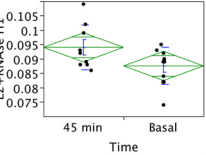
Means and Std Deviations

Level	Number	Mean	Std Dev	Std Err Mean
45 min	9	0.247444	0.028465	0.009494
Basal	9	0.043111	0.005925	0.001988

t Test

Basal-45 min	
Assuming unequal variances	
Difference	-0.20433
Std Err Dif	0.00969
Upper CL Dif	-0.18229
Lower CL Dif	-0.22638
Confidence	0.95

Oneway Analysis of E2+RNase H1 By Time PCR=Intron



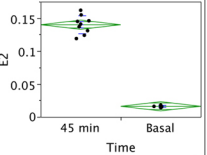
Means and Std Deviations

Level	Number	Mean	Std Dev	Std Err Mean
45 min	9	0.094000	0.007746	0.00258
Basal	9	0.087556	0.006540	0.00218

t Test

Basal-45 min	
Assuming unequal variances	
Difference	-0.00644
Std Err Dif	0.00338
Upper CL Dif	-0.00074
Lower CL Dif	-0.01362
Confidence	0.95

Oneway Analysis of E2 By Time PCR=Control



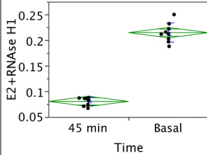
Means and Std Deviations

Level	Number	Mean	Std Dev	Std Err Mean
45 min	9	0.140000	0.013955	0.00465
Basal	9	0.016111	0.001167	0.00039

t Test

Basal-45 min	
Assuming unequal variances	
Difference	-0.12389
Std Err Dif	0.00467
Upper CL Dif	-0.11315
Lower CL Dif	-0.13463
Confidence	0.95

Oneway Analysis of E2+RNase H1 By Time PCR=Control



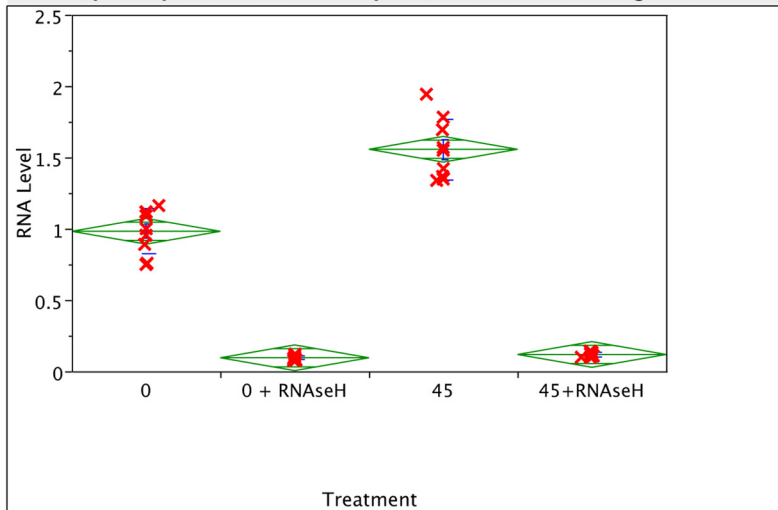
Means and Std Deviations

Level	Number	Mean	Std Dev	Std Err Mean
45 min	9	0.080444	0.007764	0.00259
Basal	9	0.214667	0.018635	0.00621

t Test

Basal-45 min	
Assuming unequal variances	
Difference	0.134222
Std Err Dif	0.006729
Upper CL Dif	0.149084
Lower CL Dif	0.119360
Confidence	0.95

Oneway Analysis of RNA Level By Treatment OLIGO=Oligo 10



Means and Std Deviations

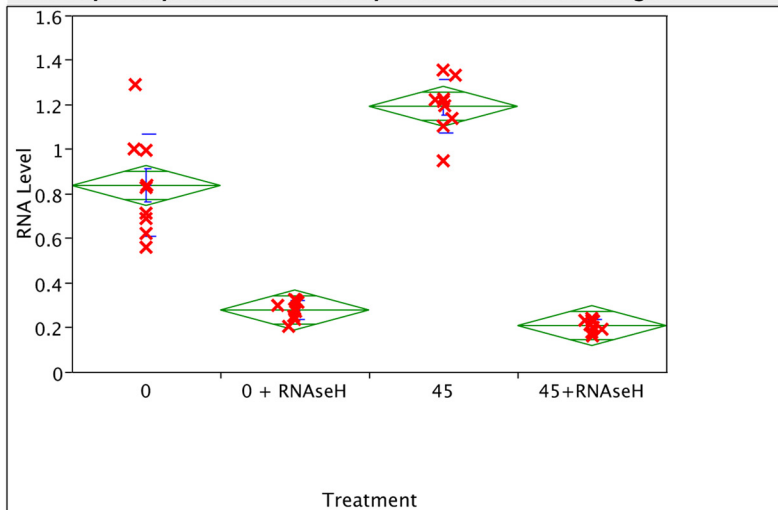
Level	Number	Mean	Std Dev	Std Err Mean
0	9	0.98189	0.155948	0.05198
0 + RNaseH	9	0.09511	0.014995	0.00500
45	9	1.55700	0.213420	0.07114
45+RNaseH	9	0.11822	0.015230	0.00508

Means Comparisons

Comparisons for each pair using Student's t

Level	- Level	Difference	Lower CL	Upper CL	p-Value
45	0 + RNaseH	1.461889	1.33457	1.589208	<.0001*
45	45+RNaseH	1.438778	1.31146	1.566097	<.0001*
0	0 + RNaseH	0.886778	0.75946	1.014097	<.0001*
0	45+RNaseH	0.863667	0.73635	0.990986	<.0001*
45	0	0.575111	0.44779	0.702430	<.0001*
45+RNaseH	0 + RNaseH	0.023111	-0.10421	0.150430	0.7140

Oneway Analysis of RNA Level By Treatment OLIGO=Oligo 7



Means and Std Deviations

Level	Number	Mean	Std Dev	Std Err Mean
0	9	0.83633	0.228414	0.07614
0 + RNaseH	9	0.27767	0.041527	0.01384
45	9	1.19167	0.121906	0.04064
45+RNaseH	9	0.20767	0.027313	0.00910

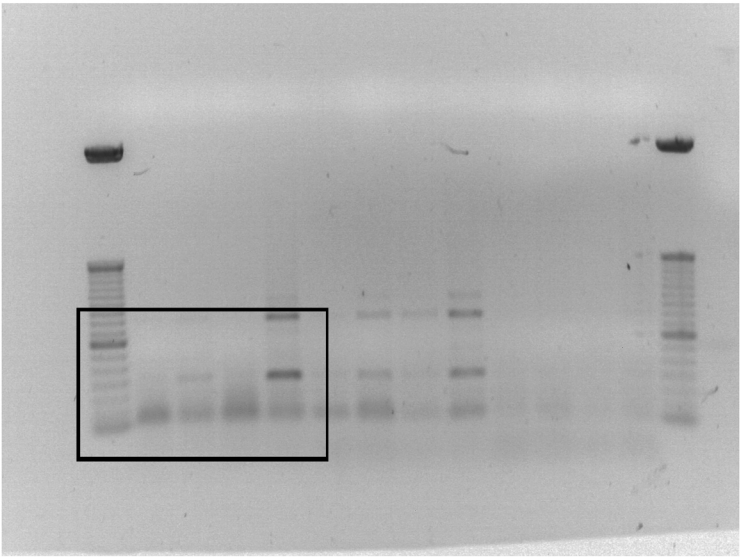
Means Comparisons

Comparisons for each pair using Student's t

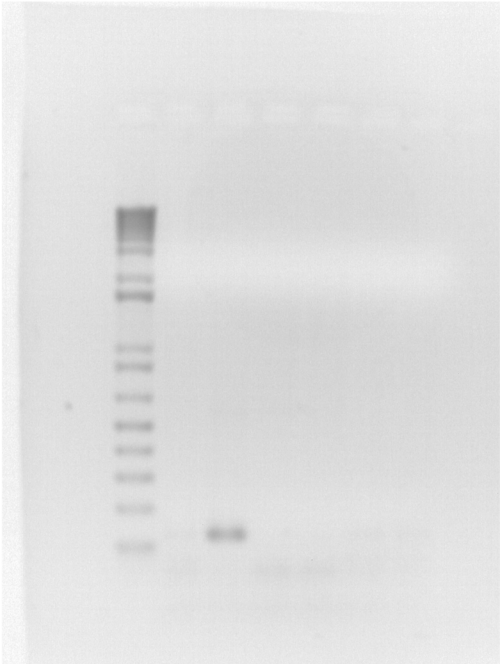
Level	- Level	Difference	Lower CL	Upper CL	p-Value
45	45+RNaseH	0.9840000	0.857425	1.110575	<.0001*
45	0 + RNaseH	0.9140000	0.787425	1.040575	<.0001*
0	45+RNaseH	0.6286667	0.502092	0.755241	<.0001*
0	0 + RNaseH	0.5586667	0.432092	0.685241	<.0001*
45	0	0.3553333	0.228759	0.481908	<.0001*
0 + RNaseH	45+RNaseH	0.0700000	-0.056575	0.196575	0.2683

Original Gels Displayed in Figure 1

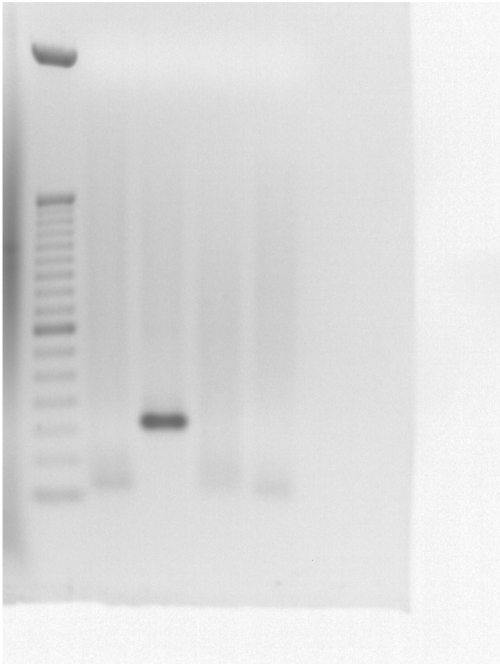
Promoter-Enhancer 5'



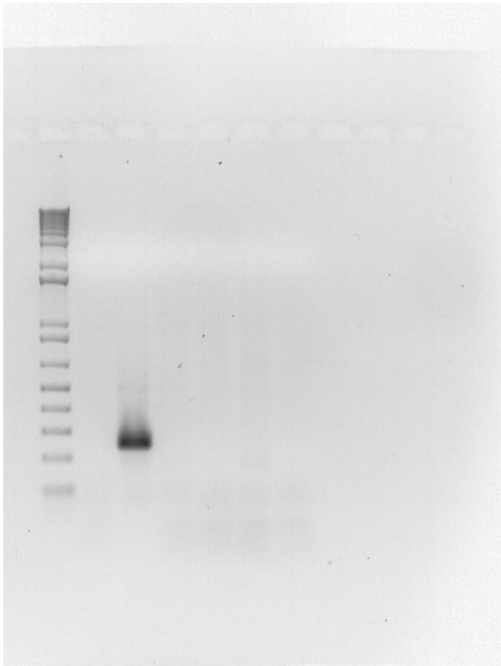
Promoter-PolyA



Enhancer 5'-PolyA

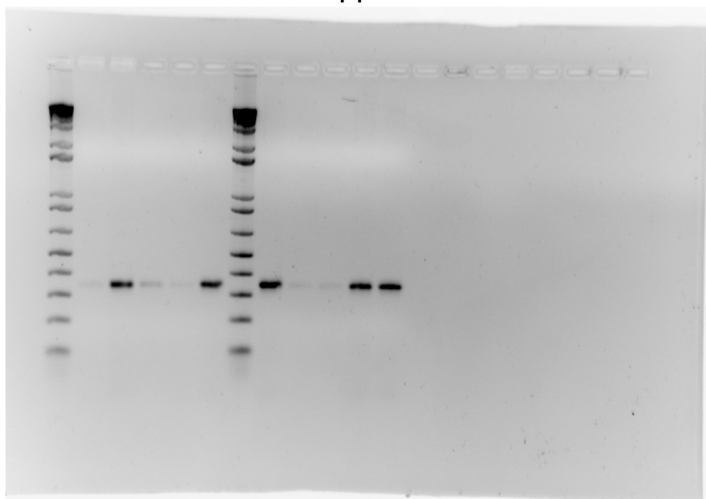


Promoter-Enhancer 3'

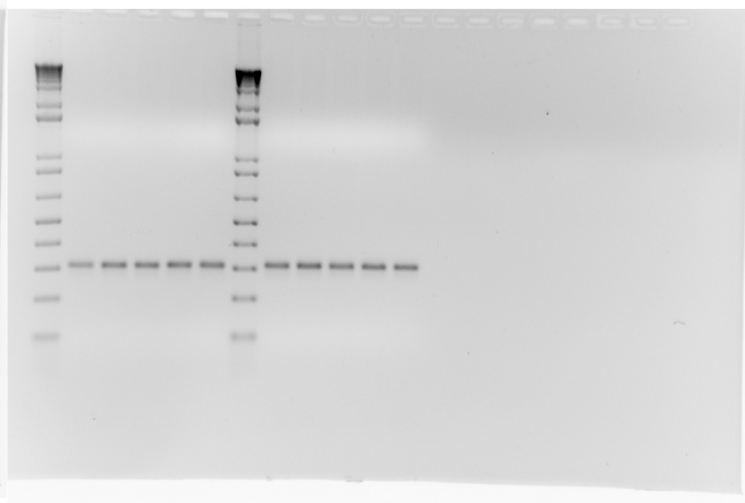


Original Gels Displayed in Figure 2

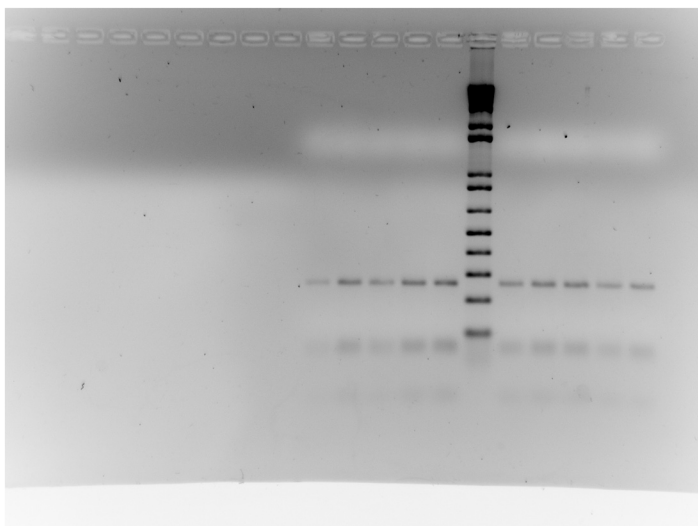
2B Upper Panel



2B Lower Panel



2D Upper Panel



2D Lower Panel

