

Cloned\_DNA\_enzymeTreatments\_denatureTemp

Cloned\_DNA\_enzymeTreatments\_denatureTemp\_FileTree.pdf

Cloned\_T790\_WT\_DNA\_EnzymeTreated

A n1.tif  
A n1\_whole\_avg\_bgsub.tif  
A n1\_whole\_coords.dat  
A n1\_whole\_coords.txt  
A n1\_whole\_traces.dat  
A n1\_whole\_traces.txt  
A n2.tif  
A n2\_whole\_avg\_bgsub.tif  
A n2\_whole\_coords.dat  
A n2\_whole\_coords.txt  
A n2\_whole\_traces.dat  
A n2\_whole\_traces.txt  
B n1.tif  
B n1\_whole\_avg\_bgsub.tif  
B n1\_whole\_coords.dat  
B n1\_whole\_coords.txt  
B n1\_whole\_traces.dat  
B n1\_whole\_traces.txt  
B n2.tif  
B n2\_whole\_avg\_bgsub.tif  
B n2\_whole\_coords.dat  
B n2\_whole\_coords.txt  
B n2\_whole\_traces.dat  
B n2\_whole\_traces.txt  
C n1.tif  
C n1\_whole\_avg\_bgsub.tif  
C n1\_whole\_coords.dat  
C n1\_whole\_coords.txt  
C n1\_whole\_traces.dat  
C n1\_whole\_traces.txt  
C n2.tif  
C n2\_whole\_avg\_bgsub.tif  
C n2\_whole\_coords.dat  
C n2\_whole\_coords.txt  
C n2\_whole\_traces.dat  
C n2\_whole\_traces.txt  
D n1.tif  
D n1\_whole\_avg\_bgsub.tif  
D n1\_whole\_coords.dat  
D n1\_whole\_coords.txt  
D n1\_whole\_traces.dat  
D n1\_whole\_traces.txt  
D n2.tif  
D n2r2.tif  
D n2r2\_whole\_avg\_bgsub.tif  
D n2r2\_whole\_coords.dat  
D n2r2\_whole\_coords.txt  
D n2r2\_whole\_traces.dat  
D n2r2\_whole\_traces.txt  
D n2\_whole\_avg\_bgsub.tif

D n2\_whole\_coords.dat  
D n2\_whole\_coords.txt  
D n2\_whole\_traces.dat  
D n2\_whole\_traces.txt  
E n1.tif  
E n1\_whole\_avg\_bgsub.tif  
E n1\_whole\_coords.dat  
E n1\_whole\_coords.txt  
E n1\_whole\_traces.dat  
E n1\_whole\_traces.txt  
E n2.tif  
E n2\_whole\_avg\_bgsub.tif  
E n2\_whole\_coords.dat  
E n2\_whole\_coords.txt  
E n2\_whole\_traces.dat  
E n2\_whole\_traces.txt  
Expt\_plan\_4\_20\_17 WT Fully Cloned Material 4 insert.xlsx  
F n1.tif  
F n1\_whole\_avg\_bgsub.tif  
F n1\_whole\_coords.dat  
F n1\_whole\_coords.txt  
F n1\_whole\_traces.dat  
F n1\_whole\_traces.txt  
F n2.tif  
F n2\_whole\_avg\_bgsub.tif  
F n2\_whole\_coords.dat  
F n2\_whole\_coords.txt  
F n2\_whole\_traces.dat  
F n2\_whole\_traces.txt  
G n1.tif  
G n1\_whole\_avg\_bgsub.tif  
G n1\_whole\_coords.dat  
G n1\_whole\_coords.txt  
G n1\_whole\_traces.dat  
G n1\_whole\_traces.txt  
G n2.tif  
G n2\_whole\_avg\_bgsub.tif  
G n2\_whole\_coords.dat  
G n2\_whole\_coords.txt  
G n2\_whole\_traces.dat  
G n2\_whole\_traces.txt  
H n1.tif  
H n1\_whole\_avg\_bgsub.tif  
H n1\_whole\_coords.dat  
H n1\_whole\_coords.txt  
H n1\_whole\_traces.dat  
H n1\_whole\_traces.txt  
H n2.tif  
H n2\_whole\_avg\_bgsub.tif  
H n2\_whole\_coords.dat  
H n2\_whole\_coords.txt  
H n2\_whole\_traces.dat  
H n2\_whole\_traces.txt  
i n1.tif

```
i n1_whole_avg_bgsub.tif
i n1_whole_coords.dat
i n1_whole_coords.txt
i n1_whole_traces.dat
i n1_whole_traces.txt
i n2.tif
i n2_whole_avg_bgsub.tif
i n2_whole_coords.dat
i n2_whole_coords.txt
i n2_whole_traces.dat
i n2_whole_traces.txt
MUT 500 FM n1.tif
MUT 500 FM n1_whole_avg_bgsub.tif
MUT 500 FM n1_whole_coords.dat
MUT 500 FM n1_whole_coords.txt
MUT 500 FM n1_whole_traces.dat
MUT 500 FM n1_whole_traces.txt
MUT 500 FM n2.tif
MUT 500 FM n2_whole_avg_bgsub.tif
MUT 500 FM n2_whole_coords.dat
MUT 500 FM n2_whole_coords.txt
MUT 500 FM n2_whole_traces.dat
MUT 500 FM n2_whole_traces.txt
```

#### Analysis

```
A n1_hist.jpg
A n1_tauPlot.jpg
A n2_hist.jpg
A n2_tauPlot.jpg
B n1_hist.jpg
B n1_tauPlot.jpg
B n2_hist.jpg
B n2_tauPlot.jpg
C n1_hist.jpg
C n1_tauPlot.jpg
C n2_hist.jpg
C n2_tauPlot.jpg
D n1_hist.jpg
D n1_tauPlot.jpg
D n2r2_hist.jpg
D n2r2_tauPlot.jpg
D n2_hist.jpg
D n2_tauPlot.jpg
E n1_hist.jpg
E n1_tauPlot.jpg
E n2_hist.jpg
E n2_tauPlot.jpg
F n1_hist.jpg
F n1_tauPlot.jpg
F n2_hist.jpg
F n2_tauPlot.jpg
G n1_hist.jpg
G n1_tauPlot.jpg
G n2_hist.jpg
```

G n2\_tauPlot.jpg  
H n1\_hist.jpg  
H n1\_tauPlot.jpg  
H n2\_hist.jpg  
H n2\_tauPlot.jpg  
i n1\_hist.jpg  
i n1\_tauPlot.jpg  
i n2\_hist.jpg  
i n2\_tauPlot.jpg  
MUT n1\_hist.jpg  
MUT n1\_tauPlot.jpg  
MUT n2\_hist.jpg  
MUT n2\_tauPlot.jpg  
QuB Output 4\_20\_17.xlsx  
QuB Output 4\_20\_17\_acceptedMols.mat  
QuB Output 4\_20\_17\_valuesOut.xlsx  
Summary\_4\_20\_17 Fully Cloned WT Material.xlsx

DenaturingTemp\_and\_UDG\_in-situ

Expt\_plan\_4\_27\_17 EF T2 and Den on FPR.xlsx  
Expt\_plan\_5\_4\_17 Denaturing and in Tip Treatment.xlsx

4\_27\_17

D1 5nM\_n1.tif  
D1 5nM\_n1\_whole\_avg\_bgsub.tif  
D1 5nM\_n1\_whole\_coords.dat  
D1 5nM\_n1\_whole\_coords.txt  
D1 5nM\_n1\_whole\_traces.dat  
D1 5nM\_n1\_whole\_traces.qsf  
D1 5nM\_n1\_whole\_traces.txt  
D1 5nM\_n2.tif  
D1 5nM\_n2\_whole\_avg\_bgsub.tif  
D1 5nM\_n2\_whole\_coords.dat  
D1 5nM\_n2\_whole\_coords.txt  
D1 5nM\_n2\_whole\_traces.dat  
D1 5nM\_n2\_whole\_traces.qsf  
D1 5nM\_n2\_whole\_traces.txt  
D10 5nM\_n1.tif  
D10 5nM\_n1r2.tif  
D10 5nM\_n1r2\_whole\_avg\_bgsub.tif  
D10 5nM\_n1r2\_whole\_coords.dat  
D10 5nM\_n1r2\_whole\_coords.txt  
D10 5nM\_n1r2\_whole\_traces.dat  
D10 5nM\_n1r2\_whole\_traces.qsf  
D10 5nM\_n1r2\_whole\_traces.txt  
D10 5nM\_n1\_whole\_avg\_bgsub.tif  
D10 5nM\_n1\_whole\_coords.dat  
D10 5nM\_n1\_whole\_coords.txt  
D10 5nM\_n1\_whole\_traces.dat  
D10 5nM\_n1\_whole\_traces.qsf  
D10 5nM\_n1\_whole\_traces.txt  
D10 5nM\_n2.tif  
D10 5nM\_n2\_whole\_avg\_bgsub.tif  
D10 5nM\_n2\_whole\_coords.dat

D10 5nM\_n2\_whole\_coords.txt  
D10 5nM\_n2\_whole\_traces.dat  
D10 5nM\_n2\_whole\_traces.qsf  
D10 5nM\_n2\_whole\_traces.txt  
I1 1nM\_n1.tif  
I1 1nM\_n1\_whole\_avg\_bgsub.tif  
I1 1nM\_n1\_whole\_coords.dat  
I1 1nM\_n1\_whole\_coords.txt  
I1 1nM\_n1\_whole\_traces.dat  
I1 1nM\_n1\_whole\_traces.qsf  
I1 1nM\_n1\_whole\_traces.txt  
I1 1nM\_n2.tif  
I1 1nM\_n2\_whole\_avg\_bgsub.tif  
I1 1nM\_n2\_whole\_coords.dat  
I1 1nM\_n2\_whole\_coords.txt  
I1 1nM\_n2\_whole\_traces.dat  
I1 1nM\_n2\_whole\_traces.qsf  
I1 1nM\_n2\_whole\_traces.txt  
I2 1nM\_n1.tif  
I2 1nM\_n1\_whole\_avg\_bgsub.tif  
I2 1nM\_n1\_whole\_coords.dat  
I2 1nM\_n1\_whole\_coords.txt  
I2 1nM\_n1\_whole\_traces.dat  
I2 1nM\_n1\_whole\_traces.qsf  
I2 1nM\_n1\_whole\_traces.txt  
I2 1nM\_n2.tif  
I2 1nM\_n2\_whole\_avg\_bgsub.tif  
I2 1nM\_n2\_whole\_coords.dat  
I2 1nM\_n2\_whole\_coords.txt  
I2 1nM\_n2\_whole\_traces.dat  
I2 1nM\_n2\_whole\_traces.qsf  
I2 1nM\_n2\_whole\_traces.txt  
I3 1nM\_n1.tif  
I3 1nM\_n1\_whole\_avg\_bgsub.tif  
I3 1nM\_n1\_whole\_coords.dat  
I3 1nM\_n1\_whole\_coords.txt  
I3 1nM\_n1\_whole\_traces.dat  
I3 1nM\_n1\_whole\_traces.qsf  
I3 1nM\_n1\_whole\_traces.txt  
I3 1nM\_n2.tif  
I3 1nM\_n2r2.tif  
I3 1nM\_n2r2\_whole\_avg\_bgsub.tif  
I3 1nM\_n2r2\_whole\_coords.dat  
I3 1nM\_n2r2\_whole\_coords.txt  
I3 1nM\_n2r2\_whole\_traces.dat  
I3 1nM\_n2r2\_whole\_traces.qsf  
I3 1nM\_n2r2\_whole\_traces.txt  
I3 1nM\_n2\_whole\_avg\_bgsub.tif  
I3 1nM\_n2\_whole\_coords.dat  
I3 1nM\_n2\_whole\_coords.txt  
I3 1nM\_n2\_whole\_traces.dat  
I3 1nM\_n2\_whole\_traces.qsf  
I3 1nM\_n2\_whole\_traces.txt  
I4 1nM\_n1.tif

I4 1nM\_n1\_whole\_avg\_bgsub.tif  
I4 1nM\_n1\_whole\_coords.dat  
I4 1nM\_n1\_whole\_coords.txt  
I4 1nM\_n1\_whole\_traces.dat  
I4 1nM\_n1\_whole\_traces.qsf  
I4 1nM\_n1\_whole\_traces.txt  
I4 1nM\_n2.tif  
I4 1nM\_n2\_whole\_avg\_bgsub.tif  
I4 1nM\_n2\_whole\_coords.dat  
I4 1nM\_n2\_whole\_coords.txt  
I4 1nM\_n2\_whole\_traces.dat  
I4 1nM\_n2\_whole\_traces.qsf  
I4 1nM\_n2\_whole\_traces.txt  
I5 1nM\_n1.tif  
I5 1nM\_n1\_whole\_avg\_bgsub.tif  
I5 1nM\_n1\_whole\_coords.dat  
I5 1nM\_n1\_whole\_coords.txt  
I5 1nM\_n1\_whole\_traces.dat  
I5 1nM\_n1\_whole\_traces.qsf  
I5 1nM\_n1\_whole\_traces.txt  
I5 1nM\_n2.tif  
I5 1nM\_n2\_whole\_avg\_bgsub.tif  
I5 1nM\_n2\_whole\_coords.dat  
I5 1nM\_n2\_whole\_coords.txt  
I5 1nM\_n2\_whole\_traces.dat  
I5 1nM\_n2\_whole\_traces.qsf  
I5 1nM\_n2\_whole\_traces.txt  
M1 500 fM MUT 10 min\_n1.tif  
M1 500 fM MUT 10 min\_n1\_whole\_avg\_bgsub.tif  
M1 500 fM MUT 10 min\_n1\_whole\_coords.dat  
M1 500 fM MUT 10 min\_n1\_whole\_coords.txt  
M1 500 fM MUT 10 min\_n1\_whole\_traces.dat  
M1 500 fM MUT 10 min\_n1\_whole\_traces.qsf  
M1 500 fM MUT 10 min\_n1\_whole\_traces.txt  
M1 500 fM MUT 10 min\_n2.tif  
M1 500 fM MUT 10 min\_n2\_whole\_avg\_bgsub.tif  
M1 500 fM MUT 10 min\_n2\_whole\_coords.dat  
M1 500 fM MUT 10 min\_n2\_whole\_coords.txt  
M1 500 fM MUT 10 min\_n2\_whole\_traces.dat  
M1 500 fM MUT 10 min\_n2\_whole\_traces.qsf  
M1 500 fM MUT 10 min\_n2\_whole\_traces.txt  
M2 500 fM MUT\_n1.tif  
M2 500 fM MUT\_n1\_whole\_avg\_bgsub.tif  
M2 500 fM MUT\_n1\_whole\_coords.dat  
M2 500 fM MUT\_n1\_whole\_coords.txt  
M2 500 fM MUT\_n1\_whole\_traces.dat  
M2 500 fM MUT\_n1\_whole\_traces.qsf  
M2 500 fM MUT\_n1\_whole\_traces.txt  
M2 500 fM MUT\_n2.tif  
M2 500 fM MUT\_n2\_whole\_avg\_bgsub.tif  
M2 500 fM MUT\_n2\_whole\_coords.dat  
M2 500 fM MUT\_n2\_whole\_coords.txt  
M2 500 fM MUT\_n2\_whole\_traces.dat  
M2 500 fM MUT\_n2\_whole\_traces.qsf

M2 500 fM MUT\_n2\_whole\_traces.txt  
M3 500 fM MUT\_n1.tif  
M3 500 fM MUT\_n1\_whole\_avg\_bgsub.tif  
M3 500 fM MUT\_n1\_whole\_coords.dat  
M3 500 fM MUT\_n1\_whole\_coords.txt  
M3 500 fM MUT\_n1\_whole\_traces.dat  
M3 500 fM MUT\_n1\_whole\_traces.qsf  
M3 500 fM MUT\_n1\_whole\_traces.txt  
M3 500 fM MUT\_n2.tif  
M3 500 fM MUT\_n2\_whole\_avg\_bgsub.tif  
M3 500 fM MUT\_n2\_whole\_coords.dat  
M3 500 fM MUT\_n2\_whole\_coords.txt  
M3 500 fM MUT\_n2\_whole\_traces.dat  
M3 500 fM MUT\_n2\_whole\_traces.qsf  
M3 500 fM MUT\_n2\_whole\_traces.txt  
M4 500 fM MUT\_n1.tif  
M4 500 fM MUT\_n1\_whole\_avg\_bgsub.tif  
M4 500 fM MUT\_n1\_whole\_coords.dat  
M4 500 fM MUT\_n1\_whole\_coords.txt  
M4 500 fM MUT\_n1\_whole\_traces.dat  
M4 500 fM MUT\_n1\_whole\_traces.qsf  
M4 500 fM MUT\_n1\_whole\_traces.txt  
M4 500 fM MUT\_n2.tif  
M4 500 fM MUT\_n2\_whole\_avg\_bgsub.tif  
M4 500 fM MUT\_n2\_whole\_coords.dat  
M4 500 fM MUT\_n2\_whole\_coords.txt  
M4 500 fM MUT\_n2\_whole\_traces.dat  
M4 500 fM MUT\_n2\_whole\_traces.qsf  
M4 500 fM MUT\_n2\_whole\_traces.txt  
M5 500 fM MUT\_n1.tif  
M5 500 fM MUT\_n1\_whole\_avg\_bgsub.tif  
M5 500 fM MUT\_n1\_whole\_coords.dat  
M5 500 fM MUT\_n1\_whole\_coords.txt  
M5 500 fM MUT\_n1\_whole\_traces.dat  
M5 500 fM MUT\_n1\_whole\_traces.qsf  
M5 500 fM MUT\_n1\_whole\_traces.txt  
M5 500 fM MUT\_n2.tif  
M5 500 fM MUT\_n2\_whole\_avg\_bgsub.tif  
M5 500 fM MUT\_n2\_whole\_coords.dat  
M5 500 fM MUT\_n2\_whole\_coords.txt  
M5 500 fM MUT\_n2\_whole\_traces.dat  
M5 500 fM MUT\_n2\_whole\_traces.qsf  
M5 500 fM MUT\_n2\_whole\_traces.txt

Analysis

D1 n1\_hist.jpg  
D1 n1\_tauPlot.jpg  
D1 n2\_hist.jpg  
D1 n2\_tauPlot.jpg  
D10 n1r2\_hist.jpg  
D10 n1r2\_tauPlot.jpg  
D10 n1\_hist.jpg  
D10 n1\_tauPlot.jpg  
D10 n2\_hist.jpg

D10 n2\_tauPlot.jpg  
I1 n1\_hist.jpg  
I1 n1\_tauPlot.jpg  
I1 n2\_hist.jpg  
I1 n2\_tauPlot.jpg  
I2 n1\_hist.jpg  
I2 n1\_tauPlot.jpg  
I2 n2\_hist.jpg  
I2 n2\_tauPlot.jpg  
I3 n1\_hist.jpg  
I3 n1\_tauPlot.jpg  
I3 n2r2\_hist.jpg  
I3 n2r2\_tauPlot.jpg  
I3 n2\_hist.jpg  
I3 n2\_tauPlot.jpg  
I4 n1\_hist.jpg  
I4 n1\_tauPlot.jpg  
I4 n2\_hist.jpg  
I4 n2\_tauPlot.jpg  
I5 n1\_hist.jpg  
I5 n1\_tauPlot.jpg  
I5 n2\_hist.jpg  
I5 n2\_tauPlot.jpg  
M1 n1\_hist.jpg  
M1 n1\_tauPlot.jpg  
M1 n2\_hist.jpg  
M1 n2\_tauPlot.jpg  
M2 n1\_hist.jpg  
M2 n1\_tauPlot.jpg  
M2 n2\_hist.jpg  
M2 n2\_tauPlot.jpg  
M3 n1\_hist.jpg  
M3 n1\_tauPlot.jpg  
M3 n2\_hist.jpg  
M3 n2\_tauPlot.jpg  
M4 n1\_hist.jpg  
M4 n1\_tauPlot.jpg  
M4 n2\_hist.jpg  
M4 n2\_tauPlot.jpg  
M5 n1\_hist.jpg  
M5 n1\_tauPlot.jpg  
M5 n2\_hist.jpg  
M5 n2\_tauPlot.jpg  
QuB Output 4\_28\_17.xlsx  
QuB Output 4\_28\_17\_acceptedMols.mat  
QuB Output 4\_28\_17\_valuesOut.xlsx  
Summary\_4\_27\_17 Retesting EF and Denaturing on FPR.xlsx

Steve 5\_4\_17

P1\_D1\_T790 Fully Clonedn1.tif  
P1\_D1\_T790 Fully Clonedn1\_whole\_avg\_bgsub.tif  
P1\_D1\_T790 Fully Clonedn1\_whole\_coords.dat  
P1\_D1\_T790 Fully Clonedn1\_whole\_coords.txt  
P1\_D1\_T790 Fully Clonedn1\_whole\_traces.dat



P1\_D1\_T790 Fully Clonedn1\_whole\_traces.qsf  
P1\_D1\_T790 Fully Clonedn1\_whole\_traces.txt  
P1\_D1\_T790 Fully Clonedn2.tif  
P1\_D1\_T790 Fully Clonedn2\_whole\_avg\_bgsub.tif  
P1\_D1\_T790 Fully Clonedn2\_whole\_coords.dat  
P1\_D1\_T790 Fully Clonedn2\_whole\_coords.txt  
P1\_D1\_T790 Fully Clonedn2\_whole\_traces.dat  
P1\_D1\_T790 Fully Clonedn2\_whole\_traces.qsf  
P1\_D1\_T790 Fully Clonedn2\_whole\_traces.txt  
P1\_D6\_T790 Fully Clonedn1.tif  
P1\_D6\_T790 Fully Clonedn1\_whole\_avg\_bgsub.tif  
P1\_D6\_T790 Fully Clonedn1\_whole\_coords.dat  
P1\_D6\_T790 Fully Clonedn1\_whole\_coords.txt  
P1\_D6\_T790 Fully Clonedn1\_whole\_traces.dat  
P1\_D6\_T790 Fully Clonedn1\_whole\_traces.qsf  
P1\_D6\_T790 Fully Clonedn1\_whole\_traces.txt  
P1\_D6\_T790 Fully Clonedn2.tif  
P1\_D6\_T790 Fully Clonedn2\_whole\_avg\_bgsub.tif  
P1\_D6\_T790 Fully Clonedn2\_whole\_coords.dat  
P1\_D6\_T790 Fully Clonedn2\_whole\_coords.txt  
P1\_D6\_T790 Fully Clonedn2\_whole\_traces.dat  
P1\_D6\_T790 Fully Clonedn2\_whole\_traces.qsf  
P1\_D6\_T790 Fully Clonedn2\_whole\_traces.txt  
P1\_D7\_T790 Fully Clonedn1.tif  
P1\_D7\_T790 Fully Clonedn1\_whole\_avg\_bgsub.tif  
P1\_D7\_T790 Fully Clonedn1\_whole\_coords.dat  
P1\_D7\_T790 Fully Clonedn1\_whole\_coords.txt  
P1\_D7\_T790 Fully Clonedn1\_whole\_traces.dat  
P1\_D7\_T790 Fully Clonedn1\_whole\_traces.qsf  
P1\_D7\_T790 Fully Clonedn1\_whole\_traces.txt  
P1\_D7\_T790 Fully Clonedn2.tif  
P1\_D7\_T790 Fully Clonedn2\_whole\_avg\_bgsub.tif  
P1\_D7\_T790 Fully Clonedn2\_whole\_coords.dat  
P1\_D7\_T790 Fully Clonedn2\_whole\_coords.txt  
P1\_D7\_T790 Fully Clonedn2\_whole\_traces.dat  
P1\_D7\_T790 Fully Clonedn2\_whole\_traces.qsf  
P1\_D7\_T790 Fully Clonedn2\_whole\_traces.txt  
P1\_D8\_T790 Fully Clonedn1.tif  
P1\_D8\_T790 Fully Clonedn1\_whole\_avg\_bgsub.tif  
P1\_D8\_T790 Fully Clonedn1\_whole\_coords.dat  
P1\_D8\_T790 Fully Clonedn1\_whole\_coords.txt  
P1\_D8\_T790 Fully Clonedn1\_whole\_traces.dat  
P1\_D8\_T790 Fully Clonedn1\_whole\_traces.qsf  
P1\_D8\_T790 Fully Clonedn1\_whole\_traces.txt  
P1\_D8\_T790 Fully Clonedn2.tif  
P1\_D8\_T790 Fully Clonedn2\_whole\_avg\_bgsub.tif  
P1\_D8\_T790 Fully Clonedn2\_whole\_coords.dat  
P1\_D8\_T790 Fully Clonedn2\_whole\_coords.txt  
P1\_D8\_T790 Fully Clonedn2\_whole\_traces.dat  
P1\_D8\_T790 Fully Clonedn2\_whole\_traces.qsf  
P1\_D8\_T790 Fully Clonedn2\_whole\_traces.txt  
P1\_M1n1.tif  
P1\_M1n1\_whole\_avg\_bgsub.tif  
P1\_M1n1\_whole\_coords.dat

P1\_M1n1\_whole\_coords.txt  
P1\_M1n1\_whole\_traces.dat  
P1\_M1n1\_whole\_traces.qsf  
P1\_M1n1\_whole\_traces.txt  
P1\_M1n2.tif  
P1\_M1n2\_whole\_avg\_bgsub.tif  
P1\_M1n2\_whole\_coords.dat  
P1\_M1n2\_whole\_coords.txt  
P1\_M1n2\_whole\_traces.dat  
P1\_M1n2\_whole\_traces.qsf  
P1\_M1n2\_whole\_traces.txt  
P1\_M7n1.tif  
P1\_M7n1\_whole\_avg\_bgsub.tif  
P1\_M7n1\_whole\_coords.dat  
P1\_M7n1\_whole\_coords.txt  
P1\_M7n1\_whole\_traces.dat  
P1\_M7n1\_whole\_traces.qsf  
P1\_M7n1\_whole\_traces.txt  
P1\_M7n2.tif  
P1\_M7n2\_whole\_avg\_bgsub.tif  
P1\_M7n2\_whole\_coords.dat  
P1\_M7n2\_whole\_coords.txt  
P1\_M7n2\_whole\_traces.dat  
P1\_M7n2\_whole\_traces.qsf  
P1\_M7n2\_whole\_traces.txt  
P2\_M6\_n1.tif  
P2\_M6\_n1\_whole\_avg\_bgsub.tif  
P2\_M6\_n1\_whole\_coords.dat  
P2\_M6\_n1\_whole\_coords.txt  
P2\_M6\_n1\_whole\_traces.dat  
P2\_M6\_n1\_whole\_traces.qsf  
P2\_M6\_n1\_whole\_traces.txt  
P2\_M6\_n2.tif  
P2\_M6\_n2\_whole\_avg\_bgsub.tif  
P2\_M6\_n2\_whole\_coords.dat  
P2\_M6\_n2\_whole\_coords.txt  
P2\_M6\_n2\_whole\_traces.dat  
P2\_M6\_n2\_whole\_traces.qsf  
P2\_M6\_n2\_whole\_traces.txt  
P2\_M8\_n1.tif  
P2\_M8\_n1\_whole\_avg\_bgsub.tif  
P2\_M8\_n1\_whole\_coords.dat  
P2\_M8\_n1\_whole\_coords.txt  
P2\_M8\_n1\_whole\_traces.dat  
P2\_M8\_n1\_whole\_traces.qsf  
P2\_M8\_n1\_whole\_traces.txt  
P2\_M8\_n2.tif  
P2\_M8\_n2\_whole\_avg\_bgsub.tif  
P2\_M8\_n2\_whole\_coords.dat  
P2\_M8\_n2\_whole\_coords.txt  
P2\_M8\_n2\_whole\_traces.dat  
P2\_M8\_n2\_whole\_traces.qsf  
P2\_M8\_n2\_whole\_traces.txt  
P3\_D1\_UDG\_on\_Slide\_n1.tif

P3\_D1 UDG on Slide n1\_whole\_avg\_bgsub.tif  
P3\_D1 UDG on Slide n1\_whole\_coords.dat  
P3\_D1 UDG on Slide n1\_whole\_coords.txt  
P3\_D1 UDG on Slide n1\_whole\_traces.dat  
P3\_D1 UDG on Slide n1\_whole\_traces.qsf  
P3\_D1 UDG on Slide n1\_whole\_traces.txt  
P3\_D1 UDG on Slide n2.tif  
P3\_D1 UDG on Slide n2\_whole\_avg\_bgsub.tif  
P3\_D1 UDG on Slide n2\_whole\_coords.dat  
P3\_D1 UDG on Slide n2\_whole\_coords.txt  
P3\_D1 UDG on Slide n2\_whole\_traces.dat  
P3\_D1 UDG on Slide n2\_whole\_traces.qsf  
P3\_D1 UDG on Slide n2\_whole\_traces.txt  
P3\_M1 UDG on Slide n1.tif  
P3\_M1 UDG on Slide n1\_whole\_avg\_bgsub.tif  
P3\_M1 UDG on Slide n1\_whole\_coords.dat  
P3\_M1 UDG on Slide n1\_whole\_coords.txt  
P3\_M1 UDG on Slide n1\_whole\_traces.dat  
P3\_M1 UDG on Slide n1\_whole\_traces.qsf  
P3\_M1 UDG on Slide n1\_whole\_traces.txt  
P3\_M1 UDG on Slide n2.tif  
P3\_M1 UDG on Slide n2\_whole\_avg\_bgsub.tif  
P3\_M1 UDG on Slide n2\_whole\_coords.dat  
P3\_M1 UDG on Slide n2\_whole\_coords.txt  
P3\_M1 UDG on Slide n2\_whole\_traces.dat  
P3\_M1 UDG on Slide n2\_whole\_traces.qsf  
P3\_M1 UDG on Slide n2\_whole\_traces.txt  
P3\_M1.tif  
P3\_M1\_whole\_avg\_bgsub.tif  
P3\_M1\_whole\_coords.dat  
P3\_M1\_whole\_coords.txt  
P3\_M1\_whole\_traces.dat  
P3\_M1\_whole\_traces.qsf  
P3\_M1\_whole\_traces.txt  
P4\_Fully Cloned MUT SA n1.tif  
P4\_Fully Cloned MUT SA n1\_whole\_avg\_bgsub.tif  
P4\_Fully Cloned MUT SA n1\_whole\_coords.dat  
P4\_Fully Cloned MUT SA n1\_whole\_coords.txt  
P4\_Fully Cloned MUT SA n1\_whole\_traces.dat  
P4\_Fully Cloned MUT SA n1\_whole\_traces.qsf  
P4\_Fully Cloned MUT SA n1\_whole\_traces.txt  
P4\_Fully Cloned MUT SA n2.tif  
P4\_Fully Cloned MUT SA n2\_whole\_avg\_bgsub.tif  
P4\_Fully Cloned MUT SA n2\_whole\_coords.dat  
P4\_Fully Cloned MUT SA n2\_whole\_coords.txt  
P4\_Fully Cloned MUT SA n2\_whole\_traces.dat  
P4\_Fully Cloned MUT SA n2\_whole\_traces.qsf  
P4\_Fully Cloned MUT SA n2\_whole\_traces.txt  
P4\_Fully Cloned MUT SD n1.tif  
P4\_Fully Cloned MUT SD n1\_whole\_avg\_bgsub.tif  
P4\_Fully Cloned MUT SD n1\_whole\_coords.dat  
P4\_Fully Cloned MUT SD n1\_whole\_coords.txt  
P4\_Fully Cloned MUT SD n1\_whole\_traces.dat  
P4\_Fully Cloned MUT SD n1\_whole\_traces.qsf

P4\_Fully Cloned MUT SD n1\_whole\_traces.txt  
P4\_Fully Cloned MUT SD n2.tif  
P4\_Fully Cloned MUT SD n2\_whole\_avg\_bgsub.tif  
P4\_Fully Cloned MUT SD n2\_whole\_coords.dat  
P4\_Fully Cloned MUT SD n2\_whole\_coords.txt  
P4\_Fully Cloned MUT SD n2\_whole\_traces.dat  
P4\_Fully Cloned MUT SD n2\_whole\_traces.qsf  
P4\_Fully Cloned MUT SD n2\_whole\_traces.txt  
P4\_M1.tif  
P4\_M1r2.tif  
P4\_M1r2\_whole\_avg\_bgsub.tif  
P4\_M1r2\_whole\_coords.dat  
P4\_M1r2\_whole\_coords.txt  
P4\_M1r2\_whole\_traces.dat  
P4\_M1r2\_whole\_traces.qsf  
P4\_M1r2\_whole\_traces.txt  
P4\_M1\_whole\_avg\_bgsub.tif  
P4\_M1\_whole\_coords.dat  
P4\_M1\_whole\_coords.txt  
P4\_M1\_whole\_traces.dat  
P4\_M1\_whole\_traces.qsf  
P4\_M1\_whole\_traces.txt

Analysis

P1D1n1\_hist.jpg  
P1D1n1\_tauPlot.jpg  
P1D1n2\_hist.jpg  
P1D1n2\_tauPlot.jpg  
P1D7n1\_hist.jpg  
P1D7n1\_tauPlot.jpg  
P1D7n2\_hist.jpg  
P1D7n2\_tauPlot.jpg  
P1M1n1\_hist.jpg  
P1M1n1\_tauPlot.jpg  
P1M1n2\_hist.jpg  
P1M1n2\_tauPlot.jpg  
P1M6n2\_hist.jpg  
P1M6n2\_tauPlot.jpg  
P1M7n1\_hist.jpg  
P1M7n1\_tauPlot.jpg  
P1M7n2\_hist.jpg  
P1M7n2\_tauPlot.jpg  
P2D6n1\_hist.jpg  
P2D6n1\_tauPlot.jpg  
P2D6n2\_hist.jpg  
P2D6n2\_tauPlot.jpg  
P2D8n1\_hist.jpg  
P2D8n1\_tauPlot.jpg  
P2D8n2\_hist.jpg  
P2D8n2\_tauPlot.jpg  
P2M6n1\_hist.jpg  
P2M6n1\_tauPlot.jpg  
P2M8n1\_hist.jpg  
P2M8n1\_tauPlot.jpg

P2M8n2\_hist.jpg  
P2M8n2\_tauPlot.jpg  
P3D1UDGn1\_hist.jpg  
P3D1UDGn1\_tauPlot.jpg  
P3D1UDGn2\_hist.jpg  
P3D1UDGn2\_tauPlot.jpg  
P3M1UDGn1\_hist.jpg  
P3M1UDGn1\_tauPlot.jpg  
P3M1UDGn2\_hist.jpg  
P3M1UDGn2\_tauPlot.jpg  
P3M1\_hist.jpg  
P3M1\_tauPlot.jpg  
P4FCMSAn1\_hist.jpg  
P4FCMSAn1\_tauPlot.jpg  
P4FCMSAn2\_hist.jpg  
P4FCMSAn2\_tauPlot.jpg  
P4FCMSDn1\_hist.jpg  
P4FCMSDn1\_tauPlot.jpg  
P4FCMSDn2\_hist.jpg  
P4FCMSDn2\_tauPlot.jpg  
P4M1n1r1\_hist.jpg  
P4M1n1r1\_tauPlot.jpg  
P4M1n1r2\_hist.jpg  
P4M1n1r2\_tauPlot.jpg  
QuB Output 5\_4\_17 T790M Filtered.xlsx  
QuB Output 5\_4\_17 T790M Filtered\_acceptedMols.mat  
QuB Output 5\_4\_17 T790M Filtered\_valuesOut.xlsx  
Summary\_5\_4\_17 Analysis Denaturing and In Tip

Treatment.xlsx

— Synthetic-vs-Cloned\_DNA

    Expt\_plan\_3\_7\_17 Synthetic vs Plasmid WT.xlsx

    — Steve 3\_9\_17 WT Syn vs PL

        50nM PL n1r1.tif  
        50nM PL n1r1\_whole\_avg\_bgsub.tif  
        50nM PL n1r1\_whole\_coords.dat  
        50nM PL n1r1\_whole\_coords.txt  
        50nM PL n1r1\_whole\_traces.dat  
        50nM PL n1r1\_whole\_traces.txt  
        50nM PL n1r2.tif  
        50nM PL n1r2\_whole\_avg\_bgsub.tif  
        50nM PL n1r2\_whole\_coords.dat  
        50nM PL n1r2\_whole\_coords.txt  
        50nM PL n1r2\_whole\_traces.dat  
        50nM PL n1r2\_whole\_traces.txt  
        50nM Syn n1r1.tif  
        50nM Syn n1r1\_whole\_avg\_bgsub.tif  
        50nM Syn n1r1\_whole\_coords.dat  
        50nM Syn n1r1\_whole\_coords.txt  
        50nM Syn n1r1\_whole\_traces.dat  
        50nM Syn n1r1\_whole\_traces.txt  
        50nM Syn n1r2.tif  
        50nM Syn n1r2\_whole\_avg\_bgsub.tif

50nM Syn nlr2\_whole\_coords.dat  
50nM Syn nlr2\_whole\_coords.txt  
50nM Syn nlr2\_whole\_traces.dat  
50nM Syn nlr2\_whole\_traces.txt  
5nM PL nlr1.tif  
5nM PL nlr1\_whole\_avg\_bgsub.tif  
5nM PL nlr1\_whole\_coords.dat  
5nM PL nlr1\_whole\_coords.txt  
5nM PL nlr1\_whole\_traces.dat  
5nM PL nlr1\_whole\_traces.txt  
5nM PL nlr2.tif  
5nM PL nlr2\_whole\_avg\_bgsub.tif  
5nM PL nlr2\_whole\_coords.dat  
5nM PL nlr2\_whole\_coords.txt  
5nM PL nlr2\_whole\_traces.dat  
5nM PL nlr2\_whole\_traces.txt  
5nM Syn nlr1.tif  
5nM Syn nlr1\_whole\_avg\_bgsub.tif  
5nM Syn nlr1\_whole\_coords.dat  
5nM Syn nlr1\_whole\_coords.txt  
5nM Syn nlr1\_whole\_traces.dat  
5nM Syn nlr1\_whole\_traces.txt  
5nM Syn nlr2.tif  
5nM Syn nlr2\_whole\_avg\_bgsub.tif  
5nM Syn nlr2\_whole\_coords.dat  
5nM Syn nlr2\_whole\_coords.txt  
5nM Syn nlr2\_whole\_traces.dat  
5nM Syn nlr2\_whole\_traces.txt  
MUTT790M500fM\_nlr1.tif  
MUTT790M500fM\_nlr1\_whole\_avg\_bgsub.tif  
MUTT790M500fM\_nlr1\_whole\_coords.dat  
MUTT790M500fM\_nlr1\_whole\_coords.txt  
MUTT790M500fM\_nlr1\_whole\_traces.dat  
MUTT790M500fM\_nlr1\_whole\_traces.txt  
MUTT790M500fM\_nlr2.tif  
MUTT790M500fM\_nlr2\_whole\_avg\_bgsub.tif  
MUTT790M500fM\_nlr2\_whole\_coords.dat  
MUTT790M500fM\_nlr2\_whole\_coords.txt  
MUTT790M500fM\_nlr2\_whole\_traces.dat  
MUTT790M500fM\_nlr2\_whole\_traces.txt

#### Analysis

dsDNA 5 nM PL T790 nlr1\_hist.jpg  
dsDNA 5 nM PL T790 nlr1\_tauPlot.jpg  
dsDNA 5 nM PL T790 nlr2\_hist.jpg  
dsDNA 5 nM PL T790 nlr2\_tauPlot.jpg  
dsDNA 5 nM Syn T790 nlr1\_hist.jpg  
dsDNA 5 nM Syn T790 nlr1\_tauPlot.jpg  
dsDNA 5 nM Syn T790 nlr2\_hist.jpg  
dsDNA 5 nM Syn T790 nlr2\_tauPlot.jpg  
dsDNA 50 nM PL T790 nlr1\_hist.jpg  
dsDNA 50 nM PL T790 nlr1\_tauPlot.jpg  
dsDNA 50 nM PL T790 nlr2\_hist.jpg  
dsDNA 50 nM PL T790 nlr2\_tauPlot.jpg

dsDNA 50 nM Syn T790 nlr1\_hist.jpg  
dsDNA 50 nM Syn T790 nlr1\_tauPlot.jpg  
dsDNA 50 nM Syn T790 nlr2\_hist.jpg  
dsDNA 50 nM Syn T790 nlr2\_tauPlot.jpg  
QuB Output 3\_9\_17 WT.xlsx  
QuB Output 3\_9\_17 WT\_acceptedMols.mat  
QuB Output 3\_9\_17 WT\_valuesOut.xlsx  
Summary\_3\_9\_17 WT Syn vs PL.xlsx  
T790M 500 fM syn nlr1\_hist.jpg  
T790M 500 fM syn nlr1\_tauPlot.jpg  
T790M 500 fM syn nlr2\_hist.jpg  
T790M 500 fM syn nlr2\_tauPlot.jpg

Synthetic-vs-Cloned DNA\_UDGTreatment

Expt\_plan\_3\_13\_17 Synthetic vs Plasmid WT and MUT UDG.xlsx

Steve 3\_14\_17

MUT Digested 500 fM nlr1.tif  
MUT Digested 500 fM nlr1\_whole\_avg\_bgsub.tif  
MUT Digested 500 fM nlr1\_whole\_coords.dat  
MUT Digested 500 fM nlr1\_whole\_coords.txt  
MUT Digested 500 fM nlr1\_whole\_traces.dat  
MUT Digested 500 fM nlr1\_whole\_traces.qsf  
MUT Digested 500 fM nlr1\_whole\_traces.txt  
MUT Digested 500 fM nlr2.tif  
MUT Digested 500 fM nlr2\_whole\_avg\_bgsub.tif  
MUT Digested 500 fM nlr2\_whole\_coords.dat  
MUT Digested 500 fM nlr2\_whole\_coords.txt  
MUT Digested 500 fM nlr2\_whole\_traces.dat  
MUT Digested 500 fM nlr2\_whole\_traces.qsf  
MUT Digested 500 fM nlr2\_whole\_traces.txt  
MUT Digested 500 fM nlr3.tif  
MUT Digested 500 fM nlr3\_whole\_avg\_bgsub.tif  
MUT Digested 500 fM nlr3\_whole\_coords.dat  
MUT Digested 500 fM nlr3\_whole\_coords.txt  
MUT Digested 500 fM nlr3\_whole\_traces.dat  
MUT Digested 500 fM nlr3\_whole\_traces.qsf  
MUT Digested 500 fM nlr3\_whole\_traces.txt  
MUT Digested 500 fM post UDG nlr1.tif  
MUT Digested 500 fM post UDG nlr1\_whole\_avg\_bgsub.tif  
MUT Digested 500 fM post UDG nlr1\_whole\_coords.dat  
MUT Digested 500 fM post UDG nlr1\_whole\_coords.txt  
MUT Digested 500 fM post UDG nlr1\_whole\_traces.dat  
MUT Digested 500 fM post UDG nlr1\_whole\_traces.qsf  
MUT Digested 500 fM post UDG nlr1\_whole\_traces.txt  
MUT Digested 500 fM post UDG nlr2.tif  
MUT Digested 500 fM post UDG nlr2\_whole\_avg\_bgsub.tif  
MUT Digested 500 fM post UDG nlr2\_whole\_coords.dat  
MUT Digested 500 fM post UDG nlr2\_whole\_coords.txt  
MUT Digested 500 fM post UDG nlr2\_whole\_traces.dat  
MUT Digested 500 fM post UDG nlr2\_whole\_traces.qsf  
MUT Digested 500 fM post UDG nlr2\_whole\_traces.txt  
MUT Digested 500 fM post UDG nlr3.tif  
MUT Digested 500 fM post UDG nlr3\_whole\_avg\_bgsub.tif

MUT Digested 500 fM post UDG nlr3\_whole\_coords.dat  
MUT Digested 500 fM post UDG nlr3\_whole\_coords.txt  
MUT Digested 500 fM post UDG nlr3\_whole\_traces.dat  
MUT Digested 500 fM post UDG nlr3\_whole\_traces.qsf  
MUT Digested 500 fM post UDG nlr3\_whole\_traces.txt  
MUT Syn 500 fM post UDG nlr1.tif  
MUT Syn 500 fM post UDG nlr1\_whole\_avg\_bgsub.tif  
MUT Syn 500 fM post UDG nlr1\_whole\_coords.dat  
MUT Syn 500 fM post UDG nlr1\_whole\_coords.txt  
MUT Syn 500 fM post UDG nlr1\_whole\_traces.dat  
MUT Syn 500 fM post UDG nlr1\_whole\_traces.qsf  
MUT Syn 500 fM post UDG nlr1\_whole\_traces.txt  
MUT Syn 500 fM post UDG nlr2.tif  
MUT Syn 500 fM post UDG nlr2\_whole\_avg\_bgsub.tif  
MUT Syn 500 fM post UDG nlr2\_whole\_coords.dat  
MUT Syn 500 fM post UDG nlr2\_whole\_coords.txt  
MUT Syn 500 fM post UDG nlr2\_whole\_traces.dat  
MUT Syn 500 fM post UDG nlr2\_whole\_traces.qsf  
MUT Syn 500 fM post UDG nlr2\_whole\_traces.txt  
MUT Syn 500 fM post UDG nlr3.tif  
MUT Syn 500 fM post UDG nlr3\_whole\_avg\_bgsub.tif  
MUT Syn 500 fM post UDG nlr3\_whole\_coords.dat  
MUT Syn 500 fM post UDG nlr3\_whole\_coords.txt  
MUT Syn 500 fM post UDG nlr3\_whole\_traces.dat  
MUT Syn 500 fM post UDG nlr3\_whole\_traces.qsf  
MUT Syn 500 fM post UDG nlr3\_whole\_traces.txt  
MUT Syn 500 fM post UDG nlr4.tif  
MUT Syn 500 fM post UDG nlr4\_whole\_avg\_bgsub.tif  
MUT Syn 500 fM post UDG nlr4\_whole\_coords.dat  
MUT Syn 500 fM post UDG nlr4\_whole\_coords.txt  
MUT Syn 500 fM post UDG nlr4\_whole\_traces.dat  
MUT Syn 500 fM post UDG nlr4\_whole\_traces.qsf  
MUT Syn 500 fM post UDG nlr4\_whole\_traces.txt  
MUT Syn 500 fM nlr1.tif  
MUT Syn 500 fM nlr1\_whole\_avg\_bgsub.tif  
MUT Syn 500 fM nlr1\_whole\_coords.dat  
MUT Syn 500 fM nlr1\_whole\_coords.txt  
MUT Syn 500 fM nlr1\_whole\_traces.dat  
MUT Syn 500 fM nlr1\_whole\_traces.qsf  
MUT Syn 500 fM nlr1\_whole\_traces.txt  
MUT Syn 500 fM nlr2.tif  
MUT Syn 500 fM nlr2\_whole\_avg\_bgsub.tif  
MUT Syn 500 fM nlr2\_whole\_coords.dat  
MUT Syn 500 fM nlr2\_whole\_coords.txt  
MUT Syn 500 fM nlr2\_whole\_traces.dat  
MUT Syn 500 fM nlr2\_whole\_traces.qsf  
MUT Syn 500 fM nlr2\_whole\_traces.txt  
WT Digested 5 nM nlr1.tif  
WT Digested 5 nM nlr1\_whole\_avg\_bgsub.tif  
WT Digested 5 nM nlr1\_whole\_coords.dat  
WT Digested 5 nM nlr1\_whole\_coords.txt  
WT Digested 5 nM nlr1\_whole\_traces.dat  
WT Digested 5 nM nlr1\_whole\_traces.qsf  
WT Digested 5 nM nlr1\_whole\_traces.txt



WT Digested 5 nM nlr2.tif  
WT Digested 5 nM nlr2\_whole\_avg\_bgsub.tif  
WT Digested 5 nM nlr2\_whole\_coords.dat  
WT Digested 5 nM nlr2\_whole\_coords.txt  
WT Digested 5 nM nlr2\_whole\_traces.dat  
WT Digested 5 nM nlr2\_whole\_traces.qsf  
WT Digested 5 nM nlr2\_whole\_traces.txt  
WT Digested 5 nM nlr3.tif  
WT Digested 5 nM nlr3\_whole\_avg\_bgsub.tif  
WT Digested 5 nM nlr3\_whole\_coords.dat  
WT Digested 5 nM nlr3\_whole\_coords.txt  
WT Digested 5 nM nlr3\_whole\_traces.dat  
WT Digested 5 nM nlr3\_whole\_traces.qsf  
WT Digested 5 nM nlr3\_whole\_traces.txt  
WT Digested 5 nM post UDG nlr1.tif  
WT Digested 5 nM post UDG nlr1\_whole\_avg\_bgsub.tif  
WT Digested 5 nM post UDG nlr1\_whole\_coords.dat  
WT Digested 5 nM post UDG nlr1\_whole\_coords.txt  
WT Digested 5 nM post UDG nlr1\_whole\_traces.dat  
WT Digested 5 nM post UDG nlr1\_whole\_traces.qsf  
WT Digested 5 nM post UDG nlr1\_whole\_traces.txt  
WT Digested 5 nM post UDG nlr2.tif  
WT Digested 5 nM post UDG nlr2\_whole\_avg\_bgsub.tif  
WT Digested 5 nM post UDG nlr2\_whole\_coords.dat  
WT Digested 5 nM post UDG nlr2\_whole\_coords.txt  
WT Digested 5 nM post UDG nlr2\_whole\_traces.dat  
WT Digested 5 nM post UDG nlr2\_whole\_traces.qsf  
WT Digested 5 nM post UDG nlr2\_whole\_traces.txt  
WT Digested 5 nM post UDG nlr3.tif  
WT Digested 5 nM post UDG nlr3\_whole\_avg\_bgsub.tif  
WT Digested 5 nM post UDG nlr3\_whole\_coords.dat  
WT Digested 5 nM post UDG nlr3\_whole\_coords.txt  
WT Digested 5 nM post UDG nlr3\_whole\_traces.dat  
WT Digested 5 nM post UDG nlr3\_whole\_traces.qsf  
WT Digested 5 nM post UDG nlr3\_whole\_traces.txt  
WT Syn 5 nM nlr1.tif  
WT Syn 5 nM nlr1\_whole\_avg\_bgsub.tif  
WT Syn 5 nM nlr1\_whole\_coords.dat  
WT Syn 5 nM nlr1\_whole\_coords.txt  
WT Syn 5 nM nlr1\_whole\_traces.dat  
WT Syn 5 nM nlr1\_whole\_traces.qsf  
WT Syn 5 nM nlr1\_whole\_traces.txt  
WT Syn 5 nM nlr2.tif  
WT Syn 5 nM nlr2\_whole\_avg\_bgsub.tif  
WT Syn 5 nM nlr2\_whole\_coords.dat  
WT Syn 5 nM nlr2\_whole\_coords.txt  
WT Syn 5 nM nlr2\_whole\_traces.dat  
WT Syn 5 nM nlr2\_whole\_traces.qsf  
WT Syn 5 nM nlr2\_whole\_traces.txt  
WT Syn 5 nM post UDG nlr1.tif  
WT Syn 5 nM post UDG nlr1\_whole\_avg\_bgsub.tif  
WT Syn 5 nM post UDG nlr1\_whole\_coords.dat  
WT Syn 5 nM post UDG nlr1\_whole\_coords.txt  
WT Syn 5 nM post UDG nlr1\_whole\_traces.dat

```
WT Syn 5 nM post UDG nlr1_whole_traces.qsf
WT Syn 5 nM post UDG nlr1_whole_traces.txt
WT Syn 5 nM post UDG nlr2.tif
WT Syn 5 nM post UDG nlr2_whole_avg_bgsub.tif
WT Syn 5 nM post UDG nlr2_whole_coords.dat
WT Syn 5 nM post UDG nlr2_whole_coords.txt
WT Syn 5 nM post UDG nlr2_whole_traces.dat
WT Syn 5 nM post UDG nlr2_whole_traces.qsf
WT Syn 5 nM post UDG nlr2_whole_traces.txt
WT Syn 5 nM post UDG nlr3.tif
WT Syn 5 nM post UDG nlr3_whole_avg_bgsub.tif
WT Syn 5 nM post UDG nlr3_whole_coords.dat
WT Syn 5 nM post UDG nlr3_whole_coords.txt
WT Syn 5 nM post UDG nlr3_whole_traces.dat
WT Syn 5 nM post UDG nlr3_whole_traces.qsf
WT Syn 5 nM post UDG nlr3_whole_traces.txt
```

#### Analysis

```
MUT Dig 500 fm nlr1_hist.jpg
MUT Dig 500 fm nlr1_tauPlot.jpg
MUT Dig 500 fm nlr2_hist.jpg
MUT Dig 500 fm nlr2_tauPlot.jpg
MUT Dig 500 fm nlr3_hist.jpg
MUT Dig 500 fm nlr3_tauPlot.jpg
MUT Dig 500 fm UDG nlr1_hist.jpg
MUT Dig 500 fm UDG nlr1_tauPlot.jpg
MUT Dig 500 fm UDG nlr2_hist.jpg
MUT Dig 500 fm UDG nlr2_tauPlot.jpg
MUT Dig 500 fm UDG nlr3_hist.jpg
MUT Dig 500 fm UDG nlr3_tauPlot.jpg
MUT Syn 500 fm nlr2_hist.jpg
MUT Syn 500 fm nlr2_tauPlot.jpg
MUT Syn 500 fm UDG nlr1_hist.jpg
MUT Syn 500 fm UDG nlr1_tauPlot.jpg
MUT Syn 500 fm UDG nlr2_hist.jpg
MUT Syn 500 fm UDG nlr2_tauPlot.jpg
MUT Syn 500 fm UDG nlr3_hist.jpg
MUT Syn 500 fm UDG nlr3_tauPlot.jpg
MUT Syn 500 fm UDG nlr4_hist.jpg
MUT Syn 500 fm UDG nlr4_tauPlot.jpg
MUT Syn 500fm nlr1_hist.jpg
MUT Syn 500fm nlr1_tauPlot.jpg
QuB Output 3_14_17.xlsx
QuB Output 3_14_17_acceptedMols.mat
QuB Output 3_14_17_valuesOut.xlsx
Summary_3_14_17_WT_Syn_Dig_UDG.xlsx
WT Dig 5 nM nlr1_hist.jpg
WT Dig 5 nM nlr1_tauPlot.jpg
WT Dig 5 nM nlr2_hist.jpg
WT Dig 5 nM nlr2_tauPlot.jpg
WT Dig 5 nM nlr3_hist.jpg
WT Dig 5 nM nlr3_tauPlot.jpg
WT Dig 5 nM UDG nlr1_hist.jpg
WT Dig 5 nM UDG nlr1_tauPlot.jpg
```

WT Dig 5 nM UDG nlr2\_hist.jpg  
WT Dig 5 nM UDG nlr2\_tauPlot.jpg  
WT Dig 5 nM UDG nlr3\_hist.jpg  
WT Dig 5 nM UDG nlr3\_tauPlot.jpg  
WT Syn 5 nM post UDG nlr1\_hist.jpg  
WT Syn 5 nM post UDG nlr1\_tauPlot.jpg  
WT Syn 5 nM post UDG nlr2\_hist.jpg  
WT Syn 5 nM post UDG nlr2\_tauPlot.jpg  
WT Syn 5 nM post UDG nlr3\_hist.jpg  
WT Syn 5 nM post UDG nlr3\_tauPlot.jpg  
WT Syn 5nM nlr1\_hist.jpg  
WT Syn 5nM nlr1\_tauPlot.jpg  
WT Syn 5nM nlr2\_hist.jpg  
WT Syn 5nM nlr2\_tauPlot.jpg

UDG\_treatment\_in-situ

Cloned 5MUT 500 fM SD UDG on Slide n3.tif  
Cloned 5MUT 500 fM SD UDG on Slide n3\_whole\_avg\_bgsub.tif  
Cloned 5MUT 500 fM SD UDG on Slide n3\_whole\_coords.dat  
Cloned 5MUT 500 fM SD UDG on Slide n3\_whole\_coords.txt  
Cloned 5MUT 500 fM SD UDG on Slide n3\_whole\_traces.dat  
Cloned 5MUT 500 fM SD UDG on Slide n3\_whole\_traces.qsf  
Cloned 5MUT 500 fM SD UDG on Slide n3\_whole\_traces.txt  
Cloned MUT 500 fM SD UDG on Slide n2.tif  
Cloned MUT 500 fM SD UDG on Slide n2\_whole\_avg\_bgsub.tif  
Cloned MUT 500 fM SD UDG on Slide n2\_whole\_coords.dat  
Cloned MUT 500 fM SD UDG on Slide n2\_whole\_coords.txt  
Cloned MUT 500 fM SD UDG on Slide n2\_whole\_traces.dat  
Cloned MUT 500 fM SD UDG on Slide n2\_whole\_traces.qsf  
Cloned MUT 500 fM SD UDG on Slide n2\_whole\_traces.txt  
Cloned MUT 500 fM UDG on slide n1.tif.tif  
Cloned MUT 500 fM UDG on slide n1.tif\_whole\_avg\_bgsub.tif  
Cloned MUT 500 fM UDG on slide n1.tif\_whole\_coords.dat  
Cloned MUT 500 fM UDG on slide n1.tif\_whole\_coords.txt  
Cloned MUT 500 fM UDG on slide n1.tif\_whole\_traces.dat  
Cloned MUT 500 fM UDG on slide n1.tif\_whole\_traces.qsf  
Cloned MUT 500 fM UDG on slide n1.tif\_whole\_traces.txt  
Synthetic MUT 500 fM UDG on slide n1.tif  
Synthetic MUT 500 fM UDG on slide n1\_whole\_avg\_bgsub.tif  
Synthetic MUT 500 fM UDG on slide n1\_whole\_coords.dat  
Synthetic MUT 500 fM UDG on slide n1\_whole\_coords.txt  
Synthetic MUT 500 fM UDG on slide n1\_whole\_traces.dat  
Synthetic MUT 500 fM UDG on slide n1\_whole\_traces.qsf  
Synthetic MUT 500 fM UDG on slide n1\_whole\_traces.txt  
Synthetic MUT 500 fM UDG on slide n2.tif  
Synthetic MUT 500 fM UDG on slide n2\_whole\_avg\_bgsub.tif  
Synthetic MUT 500 fM UDG on slide n2\_whole\_coords.dat  
Synthetic MUT 500 fM UDG on slide n2\_whole\_coords.txt  
Synthetic MUT 500 fM UDG on slide n2\_whole\_traces.dat  
Synthetic MUT 500 fM UDG on slide n2\_whole\_traces.qsf  
Synthetic MUT 500 fM UDG on slide n2\_whole\_traces.txt  
Synthetic MUT 500 fM UDG on slide n3.tif  
Synthetic MUT 500 fM UDG on slide n3\_whole\_avg\_bgsub.tif  
Synthetic MUT 500 fM UDG on slide n3\_whole\_coords.dat

Synthetic MUT 500 fM UDG on slide n3\_whole\_coords.txt  
Synthetic MUT 500 fM UDG on slide n3\_whole\_traces.dat  
Synthetic MUT 500 fM UDG on slide n3\_whole\_traces.qsf  
Synthetic MUT 500 fM UDG on slide n3\_whole\_traces.txt  
WT Cloned SD 5 nM UDG on slide n1.tif  
WT Cloned SD 5 nM UDG on slide n1\_whole\_avg\_bgsub.tif  
WT Cloned SD 5 nM UDG on slide n1\_whole\_coords.dat  
WT Cloned SD 5 nM UDG on slide n1\_whole\_coords.txt  
WT Cloned SD 5 nM UDG on slide n1\_whole\_traces.dat  
WT Cloned SD 5 nM UDG on slide n1\_whole\_traces.qsf  
WT Cloned SD 5 nM UDG on slide n1\_whole\_traces.txt  
WT Cloned SD 5 nM UDG on slide n2.tif  
WT Cloned SD 5 nM UDG on slide n2\_whole\_avg\_bgsub.tif  
WT Cloned SD 5 nM UDG on slide n2\_whole\_coords.dat  
WT Cloned SD 5 nM UDG on slide n2\_whole\_coords.txt  
WT Cloned SD 5 nM UDG on slide n2\_whole\_traces.dat  
WT Cloned SD 5 nM UDG on slide n2\_whole\_traces.qsf  
WT Cloned SD 5 nM UDG on slide n2\_whole\_traces.txt  
WT Cloned SD 5 nM UDG on slide n3.tif  
WT Cloned SD 5 nM UDG on slide n3\_whole\_avg\_bgsub.tif  
WT Cloned SD 5 nM UDG on slide n3\_whole\_coords.dat  
WT Cloned SD 5 nM UDG on slide n3\_whole\_coords.txt  
WT Cloned SD 5 nM UDG on slide n3\_whole\_traces.dat  
WT Cloned SD 5 nM UDG on slide n3\_whole\_traces.qsf  
WT Cloned SD 5 nM UDG on slide n3\_whole\_traces.txt  
WT Synthetic 5 nM UDG on slide n1.tif  
WT Synthetic 5 nM UDG on slide n1\_whole\_avg\_bgsub.tif  
WT Synthetic 5 nM UDG on slide n1\_whole\_coords.dat  
WT Synthetic 5 nM UDG on slide n1\_whole\_coords.txt  
WT Synthetic 5 nM UDG on slide n1\_whole\_traces.dat  
WT Synthetic 5 nM UDG on slide n1\_whole\_traces.qsf  
WT Synthetic 5 nM UDG on slide n1\_whole\_traces.txt  
WT Synthetic 5 nM UDG on slide n2.tif  
WT Synthetic 5 nM UDG on slide n2\_whole\_avg\_bgsub.tif  
WT Synthetic 5 nM UDG on slide n2\_whole\_coords.dat  
WT Synthetic 5 nM UDG on slide n2\_whole\_coords.txt  
WT Synthetic 5 nM UDG on slide n2\_whole\_traces.dat  
WT Synthetic 5 nM UDG on slide n2\_whole\_traces.qsf  
WT Synthetic 5 nM UDG on slide n2\_whole\_traces.txt  
WT Synthetic 5 nM UDG on slide n3.tif  
WT Synthetic 5 nM UDG on slide n3\_whole\_avg\_bgsub.tif  
WT Synthetic 5 nM UDG on slide n3\_whole\_coords.dat  
WT Synthetic 5 nM UDG on slide n3\_whole\_coords.txt  
WT Synthetic 5 nM UDG on slide n3\_whole\_traces.dat  
WT Synthetic 5 nM UDG on slide n3\_whole\_traces.qsf  
WT Synthetic 5 nM UDG on slide n3\_whole\_traces.txt