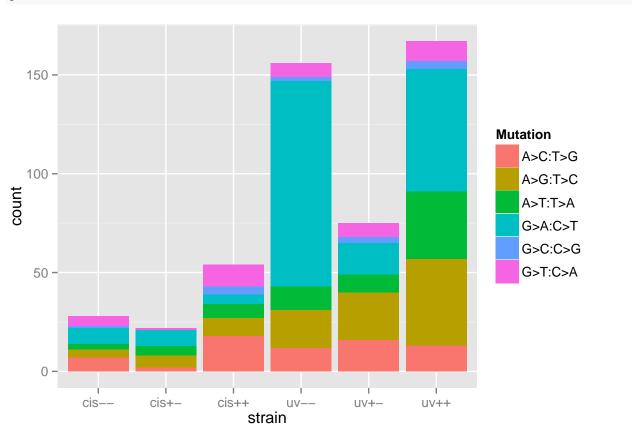
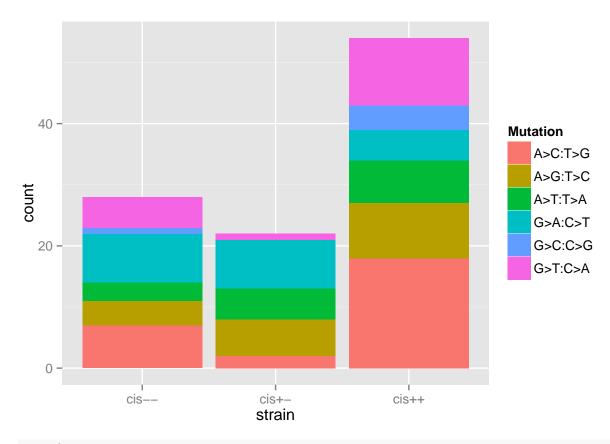
Mutations and Crossovers

Mitchell Vollger 3/31/2015

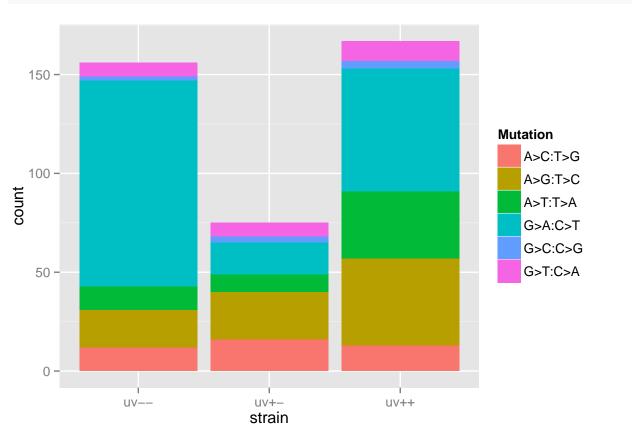
pcount



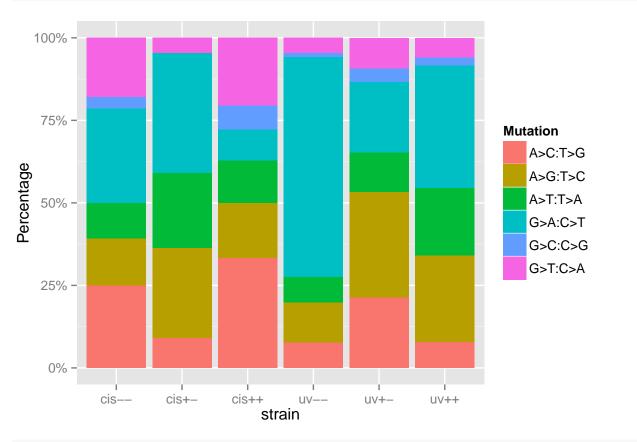
pcountcis



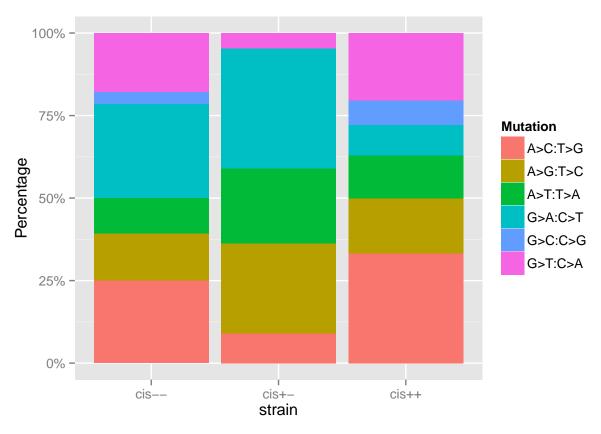
pcountuv

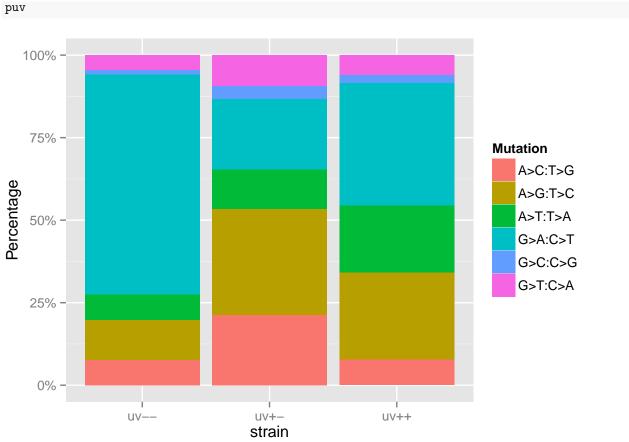




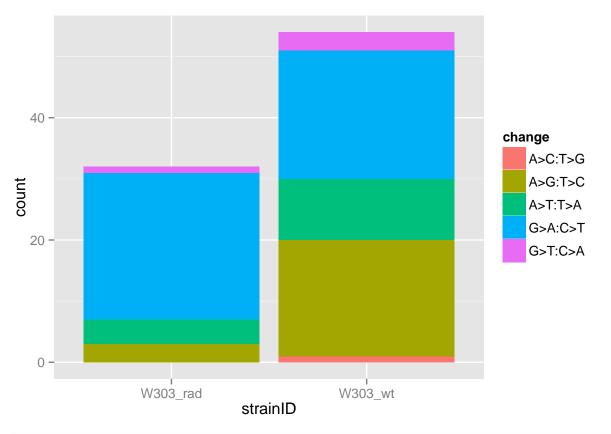


pcis

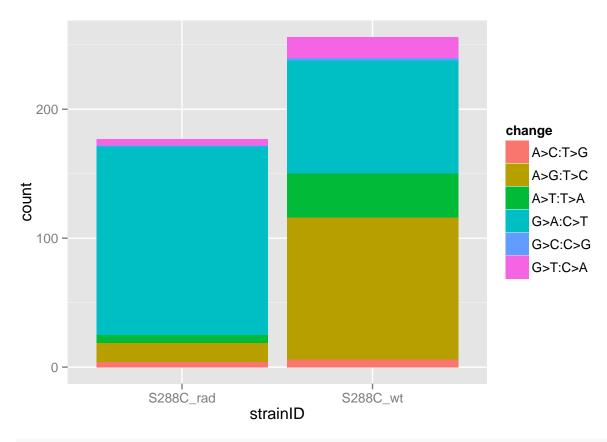




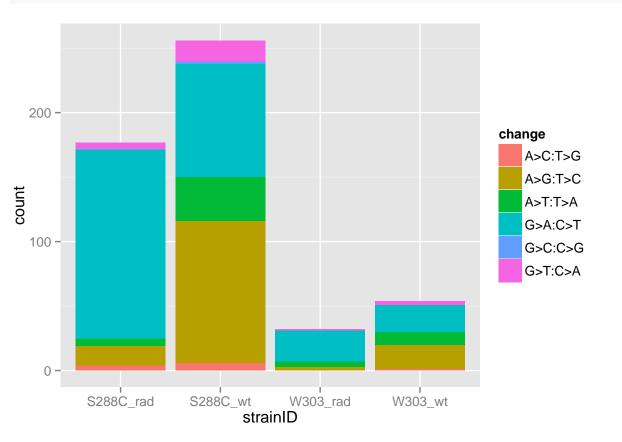
pHaploidCountW303



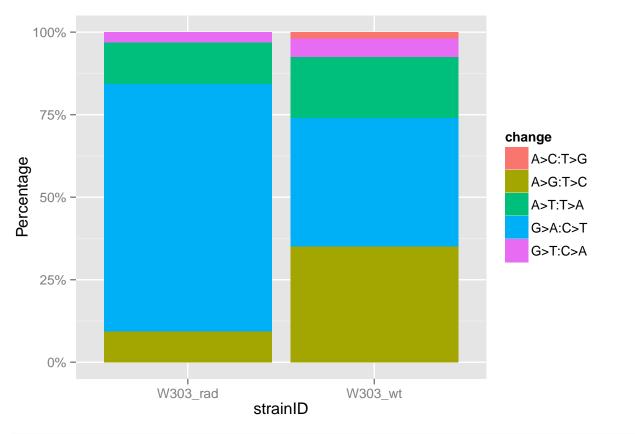
pHaploidCountS288C



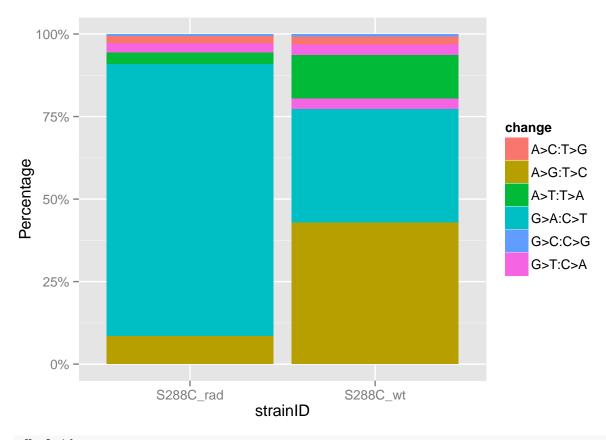
pHaploidCount



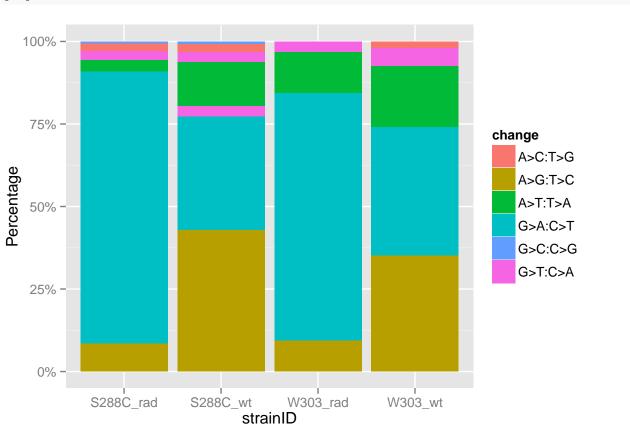




pHaploidS288C

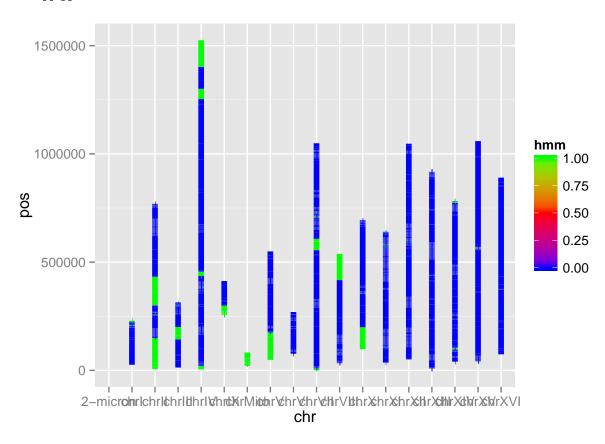




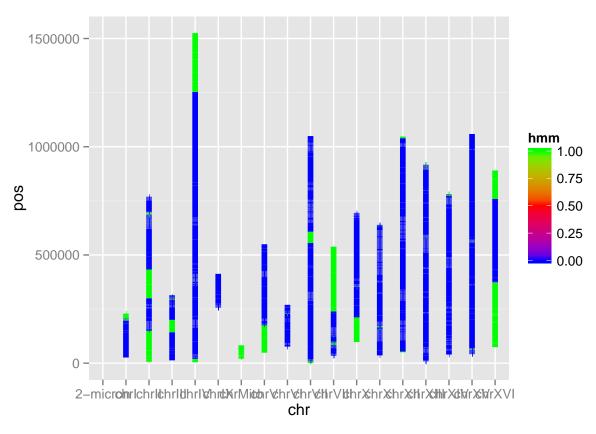


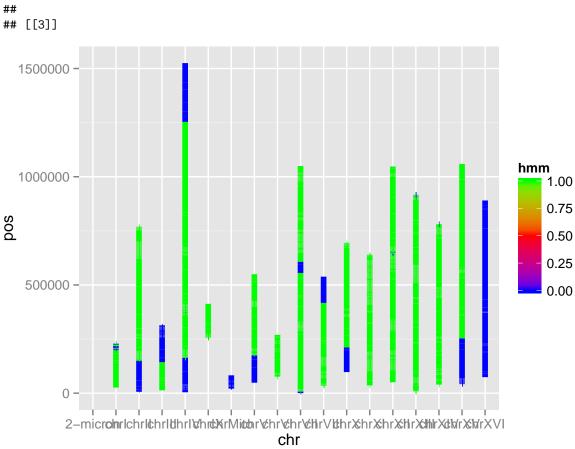
```
load("/home/mitchell/IW/hmm/plotshmm.data")
load("/home/mitchell/IW/hmm/hmmcounts.data")
plotshmm
```

[[1]]

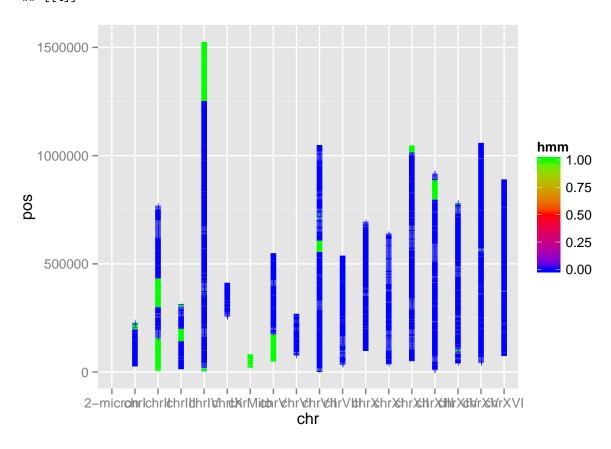


[[2]]

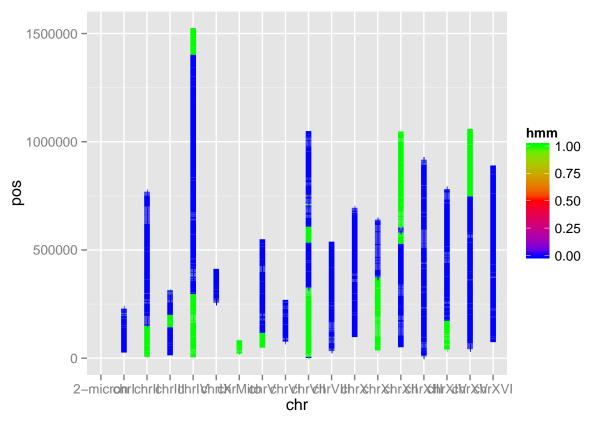


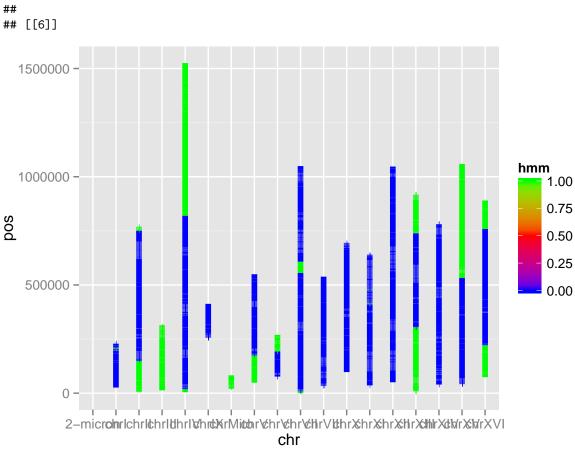


[[4]]

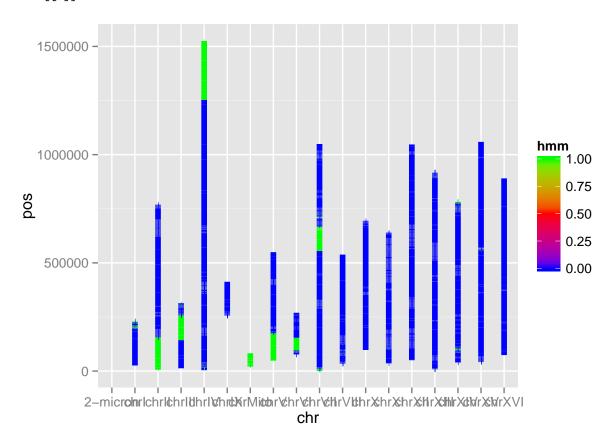


[[5]]

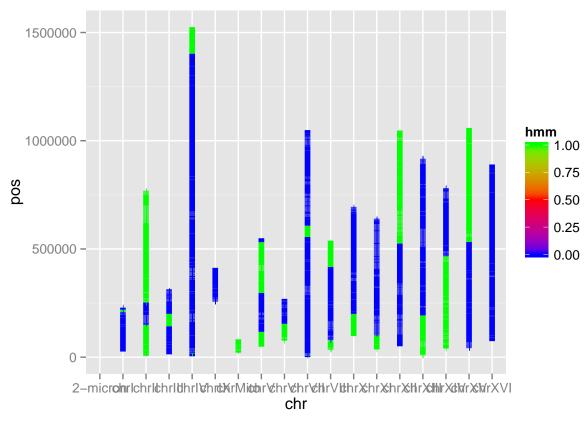


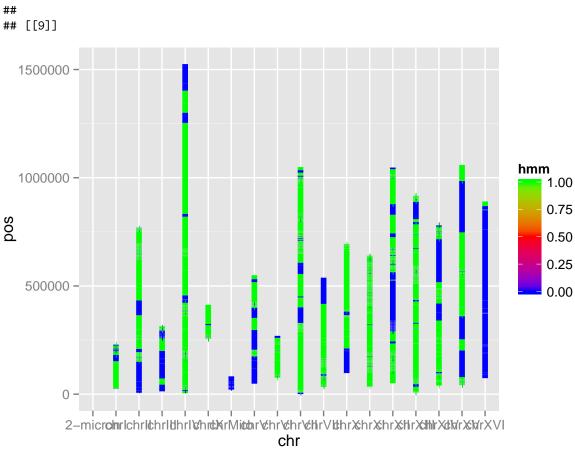


[[7]]

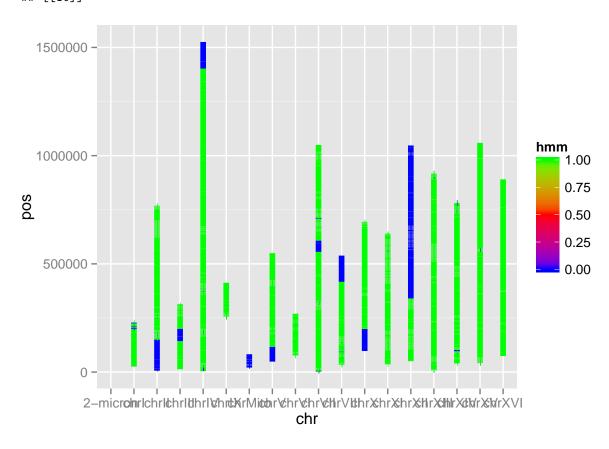


[[8]]

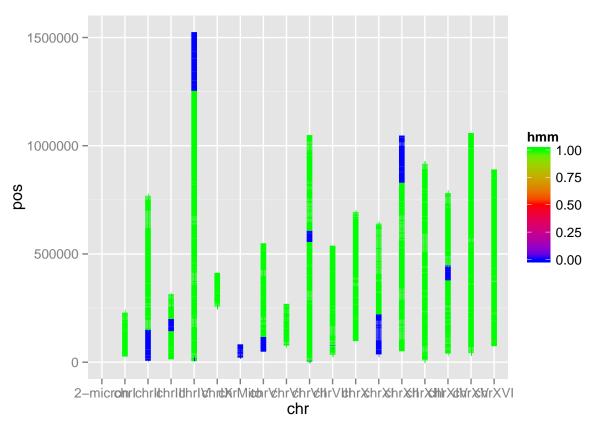


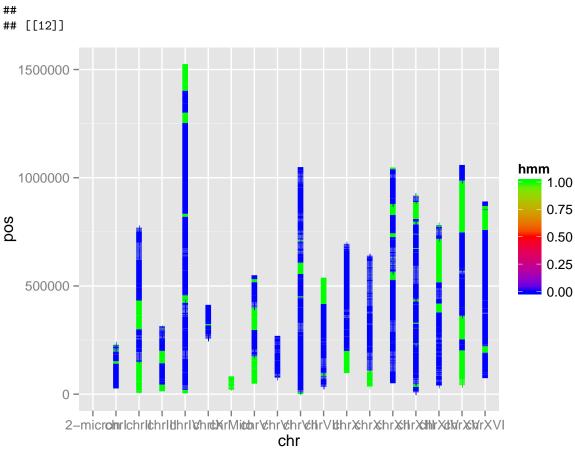


[[10]]

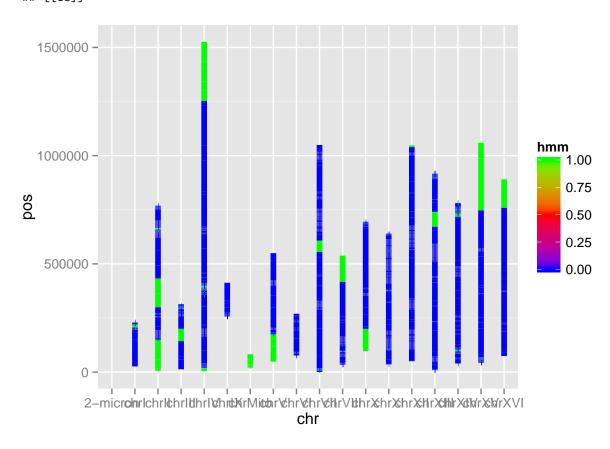


[[11]]

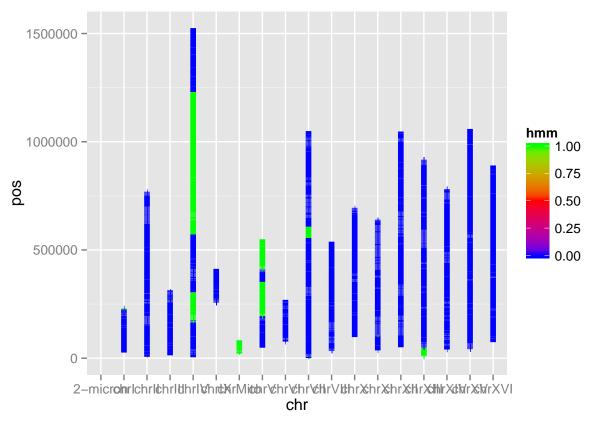


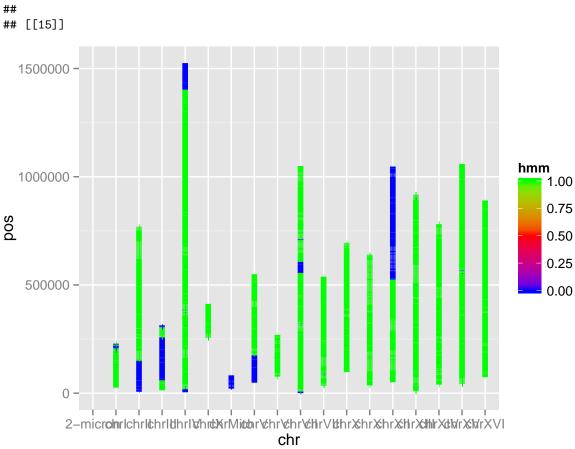


[[13]]

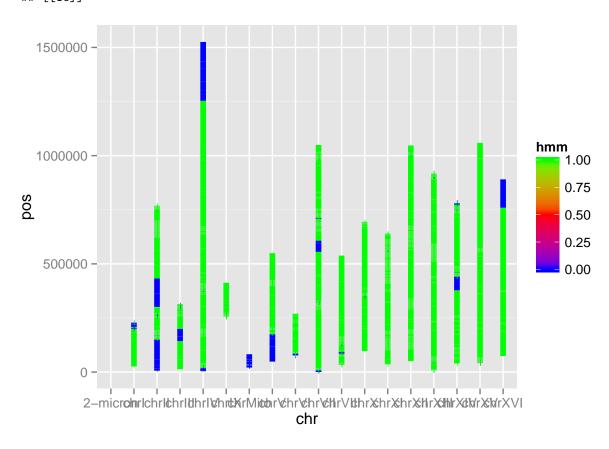


[[14]]

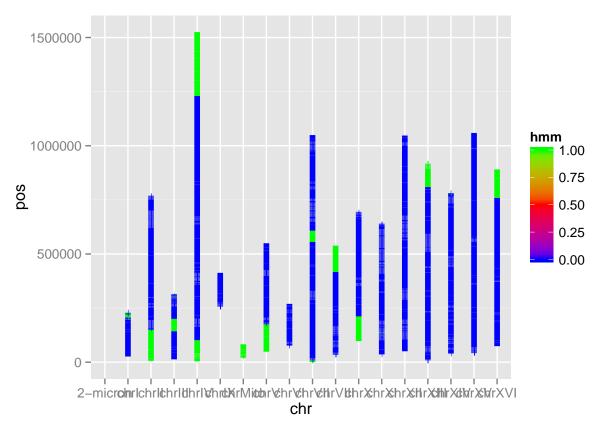




[[16]]



[[17]]



```
hmmcounts <- data["mode"]
hmmcounts$type <- lapply(rownames(hmmcounts), function(x){gsub("[0-9]", "",x) } )
hmmcounts</pre>
```

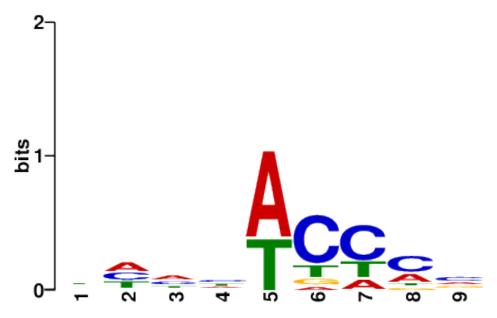
```
##
              mode
                        type
## cis--3.hmm
                77 cis--.hmm
## cis--2.hmm
                77 cis--.hmm
## cis--1.hmm
                75 cis--.hmm
## cis+-2.hmm
                45 cis+-.hmm
## cis+-1.hmm
                76 cis+-.hmm
## cis++1.hmm
                32 cis++.hmm
## cis++2.hmm
                31 cis++.hmm
## cis++3.hmm
                34 cis++.hmm
## uv--3.hmm
                53 uv--.hmm
## uv--2.hmm
               100
                   uv--.hmm
## uv--1.hmm
                65
                   uv--.hmm
## uv+-3.hmm
                81
                    uv+-.hmm
## uv+-2.hmm
                88
                   uv+-.hmm
## uv+-1.hmm
                58
                    uv+-.hmm
## uv++1.hmm
                    uv++.hmm
                27
## uv++2.hmm
                43
                    uv++.hmm
## uv++3.hmm
                44 uv++.hmm
```

```
# meme stuff
load("/home/mitchell/IW/meme/pic.data")
load("/home/mitchell/IW/meme/picrc.data")
```

```
for(i in 1:length(pic)){
  print(pic[i])
  print(picrc[i])
}
```

\$cisA

cisA



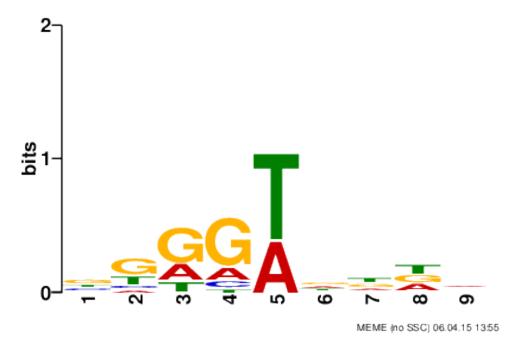
MEME (no SSC) 06.04.15 13:55

E-value = 1.4e-017

##

\$cisA

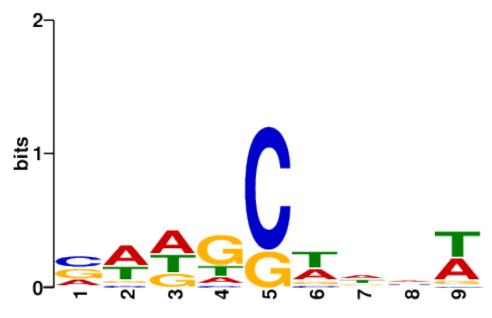
cisA, reverse complement



E-value = 1.4e-017

\$cisG

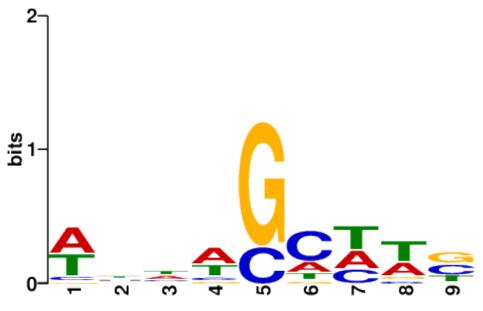
cisG



MEME (no SSC) 06.04.15 13:55

E-value = 5.7e-016

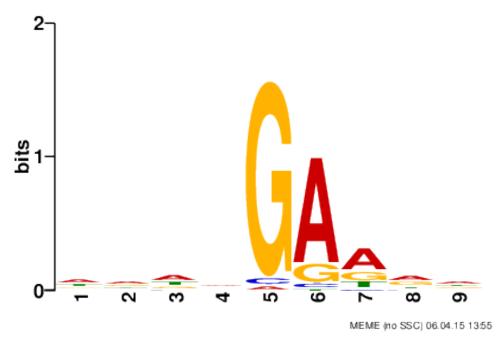
cisG, reverse complement



MEME (no SSC) 06.04.15 13:55

E-value = 5.7e-016

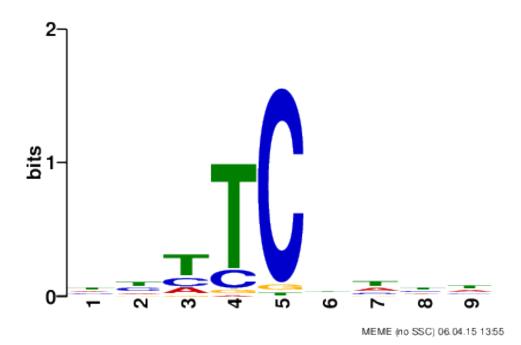
rad, G>A:C>T



E-value = 2.7e-093

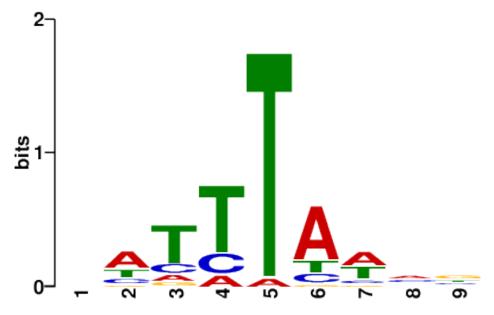
\$rad_G_A__C_T

rad, G>A:C>T, reverse complement



E-value = 2.7e-093

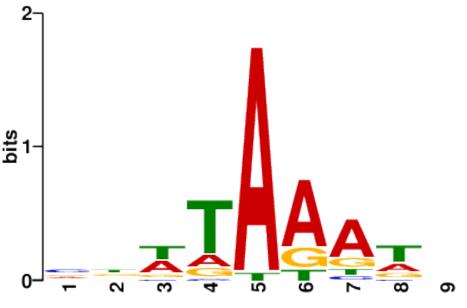
uv+-, A>G:T>C



MEME (no SSC) 06.04.15 13:55

E-value = 1.1e-003

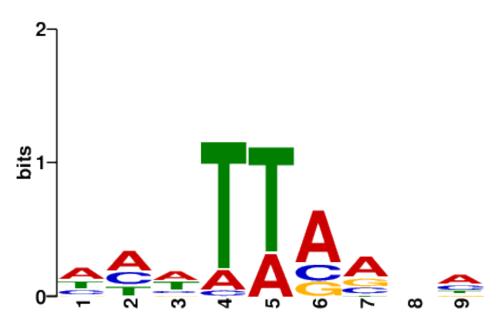
uv+-, A>G:T>C, reverse complement



MEME (no SSC) 06.04.15 13:55

E-value = 1.1e-003

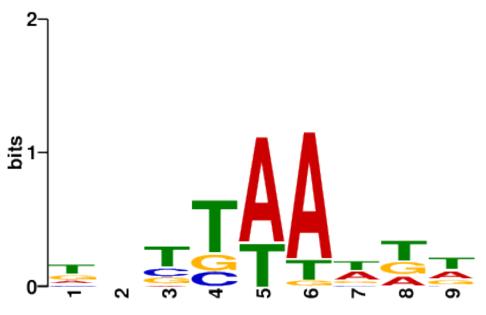
uv++, A>G:T>C



MEME (no SSC) 06.04.15 13:55

E-value = 9.2e-011

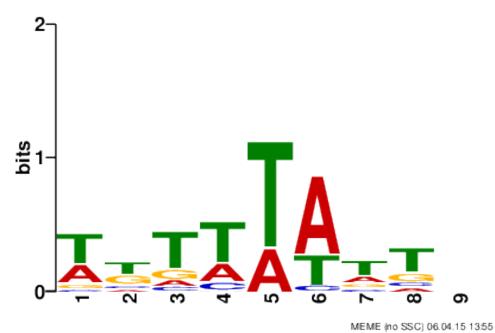
uv++, A>G:T>C, reverse complement



MEME (no SSC) 06.04.15 13:55

E-value = 9.2e-011

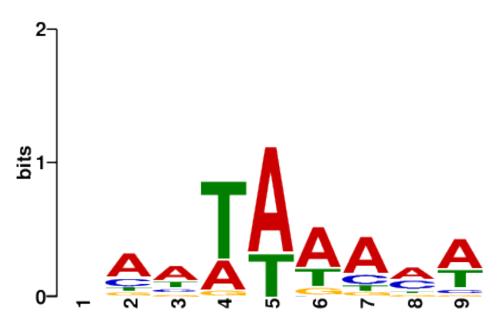
uv++, A>T:T>A



E-value = 9.3e-002

\$`uv++_A_T__T_A`

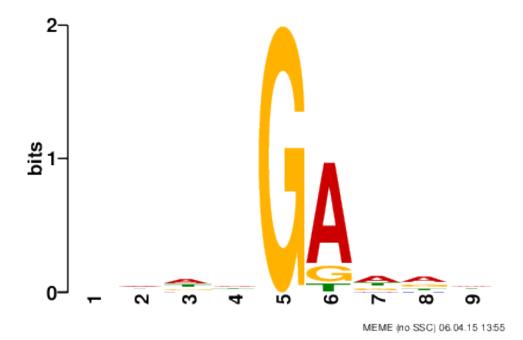
uv++, A>T:T>A, reverse complement



MEME (no SSC) 06.04.15 13:55

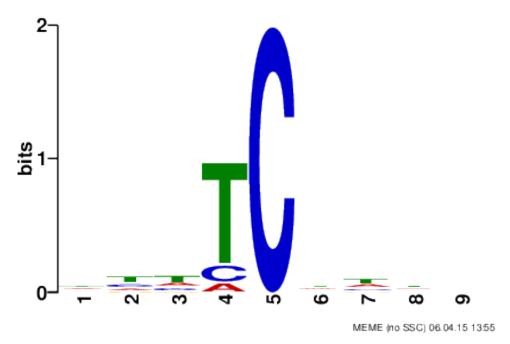
E-value = 9.3e-002

uv--, G>A:C>T



E-value = 9.9e-057

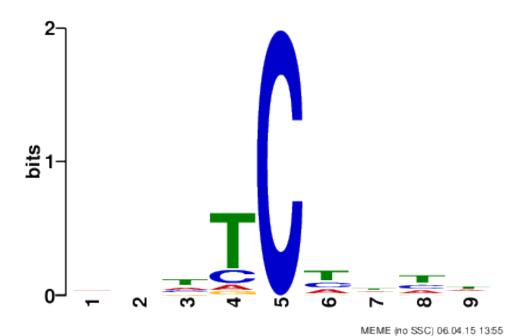
uv--, G>A:C>T, reverse complement



E-value = 9.9e-057

\$`uv++_G_A__C_T`

uv++, G>A:C>T



E-value = 9.2e-026

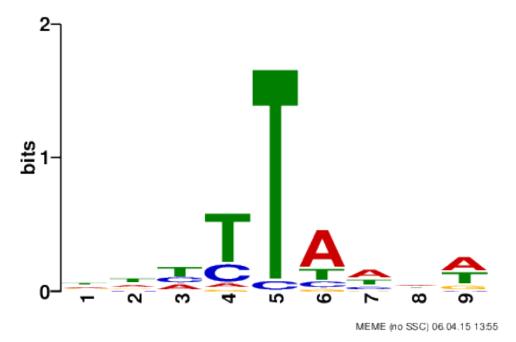
uv++, G>A:C>T, reverse complement



E-value = 9.2e-026

\$wt_A_G__T_C

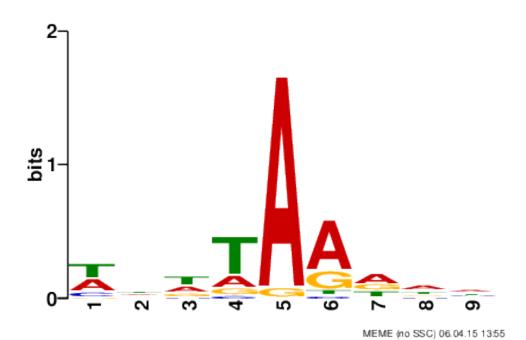
wt, A>G:T>C



E-value = 1.4e-025

\$wt_A_G__T_C

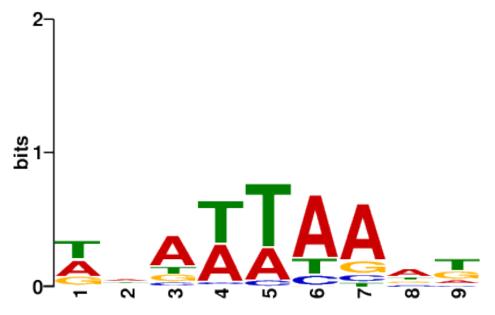
wt, A>G:T>C, reverse complement



E-value = 1.4e-025

\$wt_A_T__T_A

wt, A>T:T>A

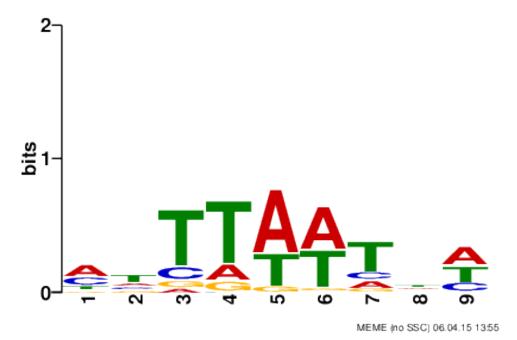


MEME (no SSC) 06.04.15 13:55

E-value = 8.6e+000

\$wt_A_T__T_A

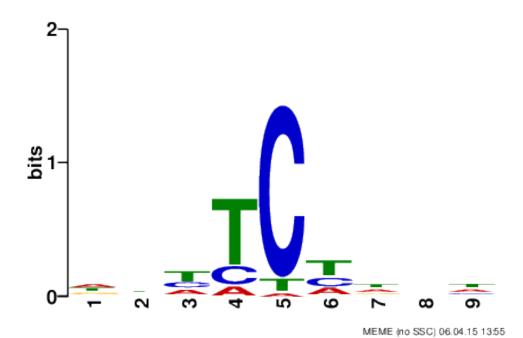
wt, A>T:T>A, reverse complement



E-value = 8.6e+000

\$wt_G_A__C_T

wt, G>A:C>T



E-value = 8.0e-041

wt, G>A:C>T, reverse complement



E-value = 8.0e-041