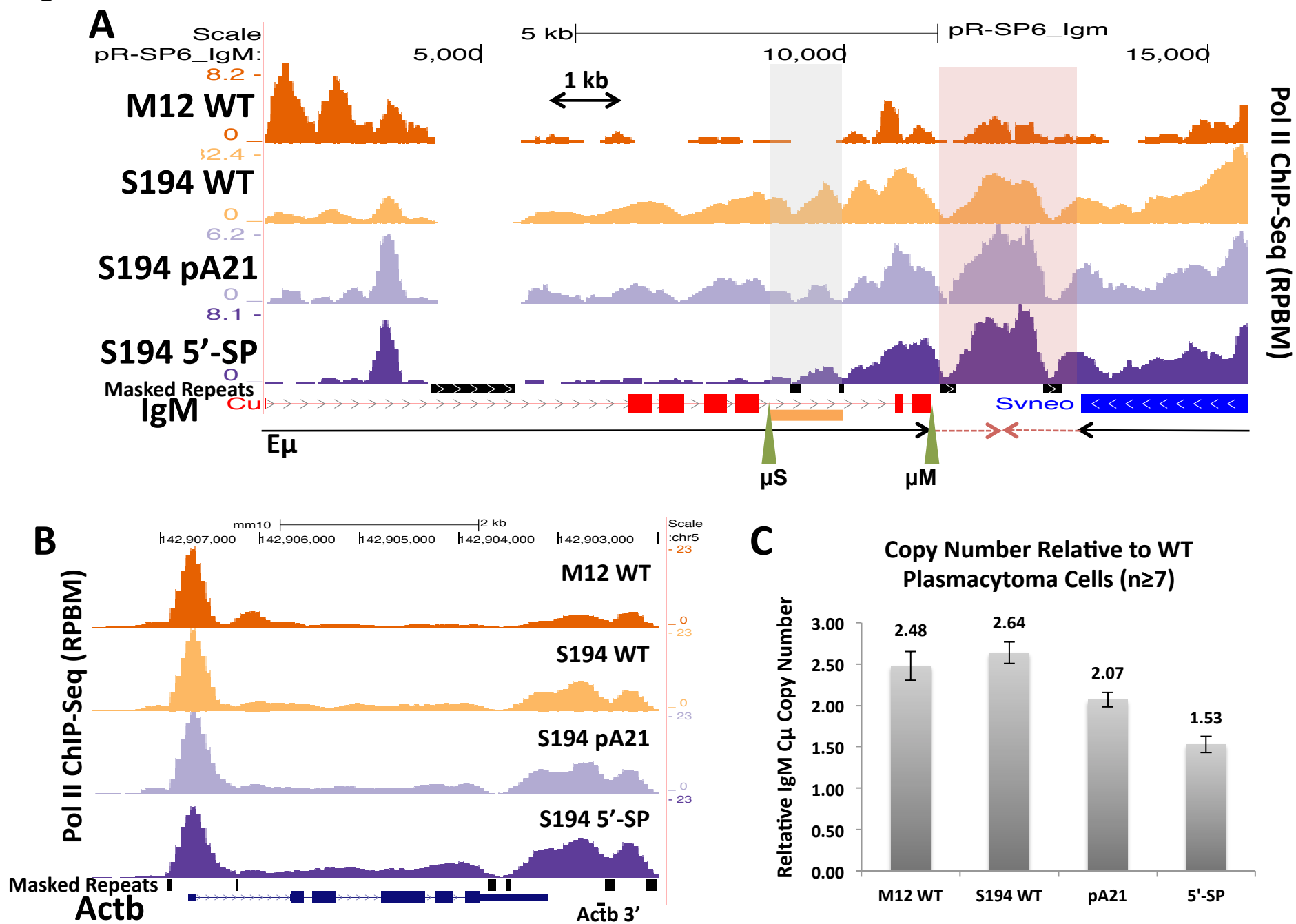


Figure S1



Fusby et al Supplemental Figure legends and Table

Supplemental Figure S1.

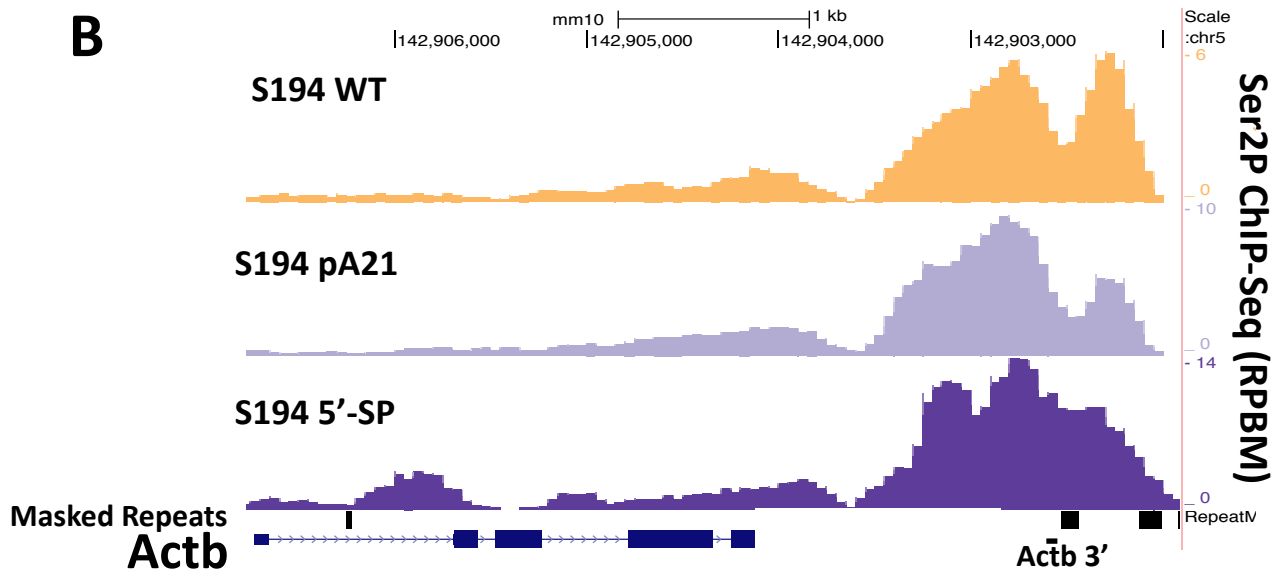
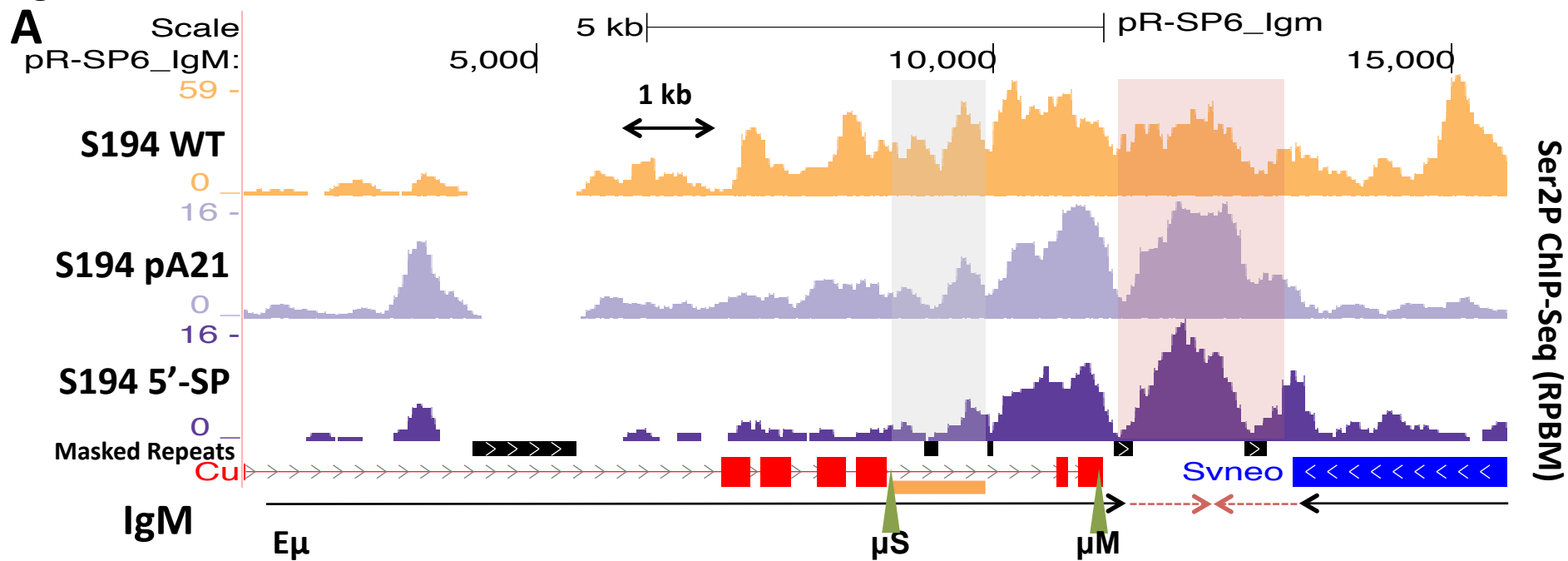
Pol II pausing in the C μ 4-M1 intron is coupled to μ S poly(A) site use.

A. UCSC genome browser screen shot of anti-pol II ChIP-seq on the IgM transgenes in M12 B cells and S194 plasmacytoma cells. The μ S+500 pause specific to the WT gene in S194 cells is indicated with the shaded grey box. The red shaded box and red arrows indicate the converging IgM and SVNeo 3' ends. These ChIPs are biological replicates of the experiments in Figures 1 and 2.

B. UCSC genome browser screen shot of anti-pol II ChIP-seq on the β -actin gene that serves as an internal control.

C. IgM copy number was determined by qPCR of input DNA from cells with the respective IgM transgenes relative to parental S194 cells (see Material and Methods).

Figure S2



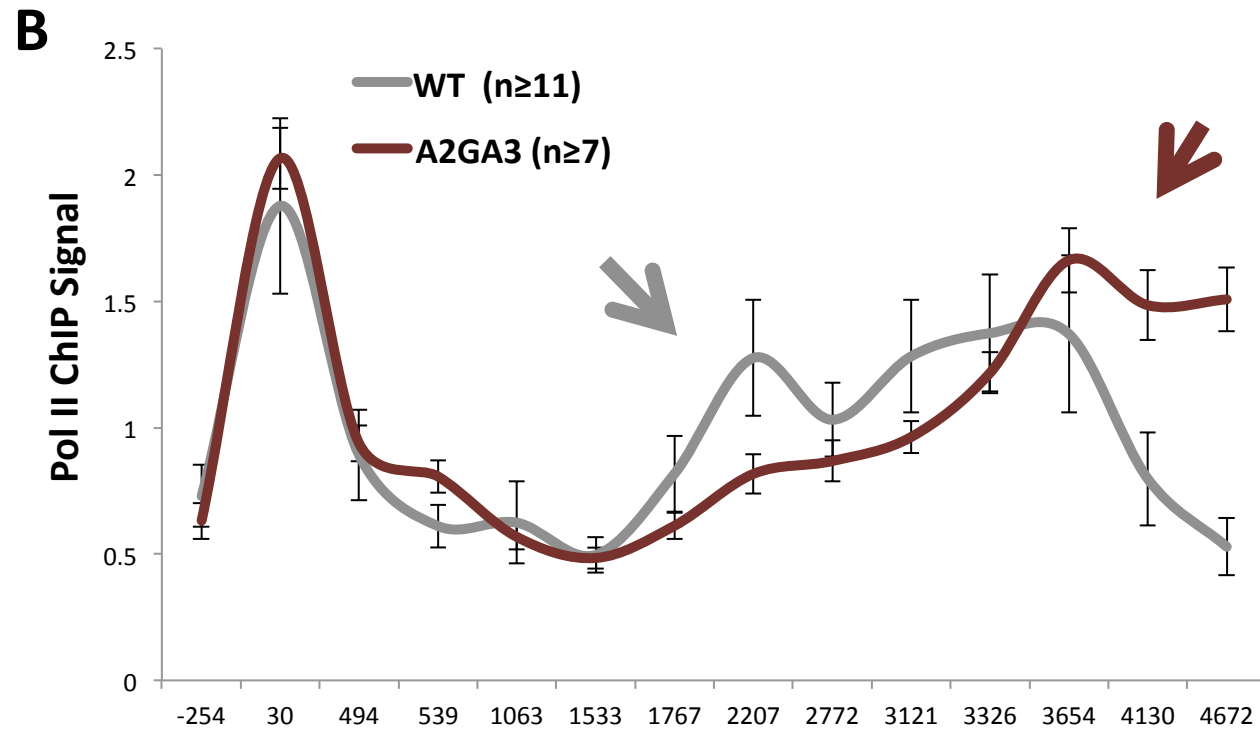
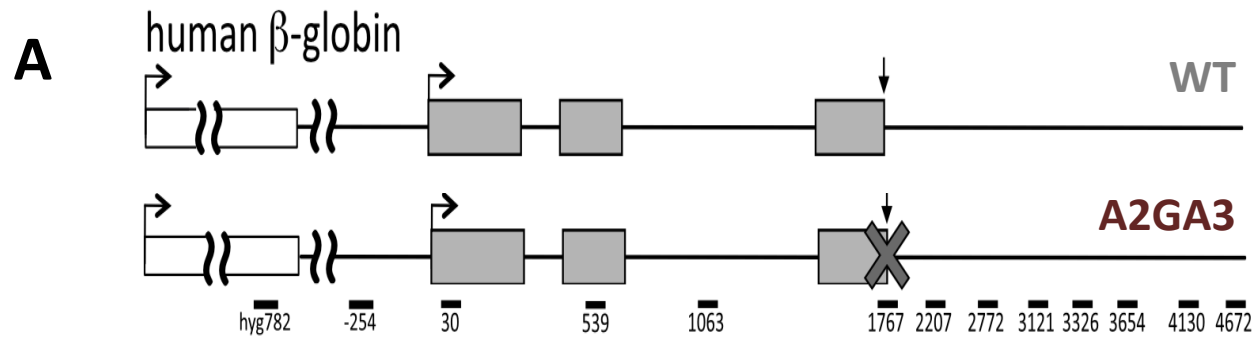
Supplemental Figure S2.

Pol II CTD Ser2 hyperphosphorylation on IgM transgenes.

A. UCSC genome browser screen shot of anti-Ser2P-CTD ChIP-seq replicates on the IgM transgenes in S194 cells as in Fig. S1A. These ChIPs are biological replicates of the experiments in Figure 3. Note Ser2P-CTD is detectable at the μ S+500 pause (grey shaded box) in the pA21 and 5'-SP mutants and normalization to total pol II shows no reduction relative to WT (see Fig. 3B).

B. UCSC genome browser screen shot of anti-Ser2P-CTD ChIP-seq on the β -actin gene that serves as an internal control.

Figure S3



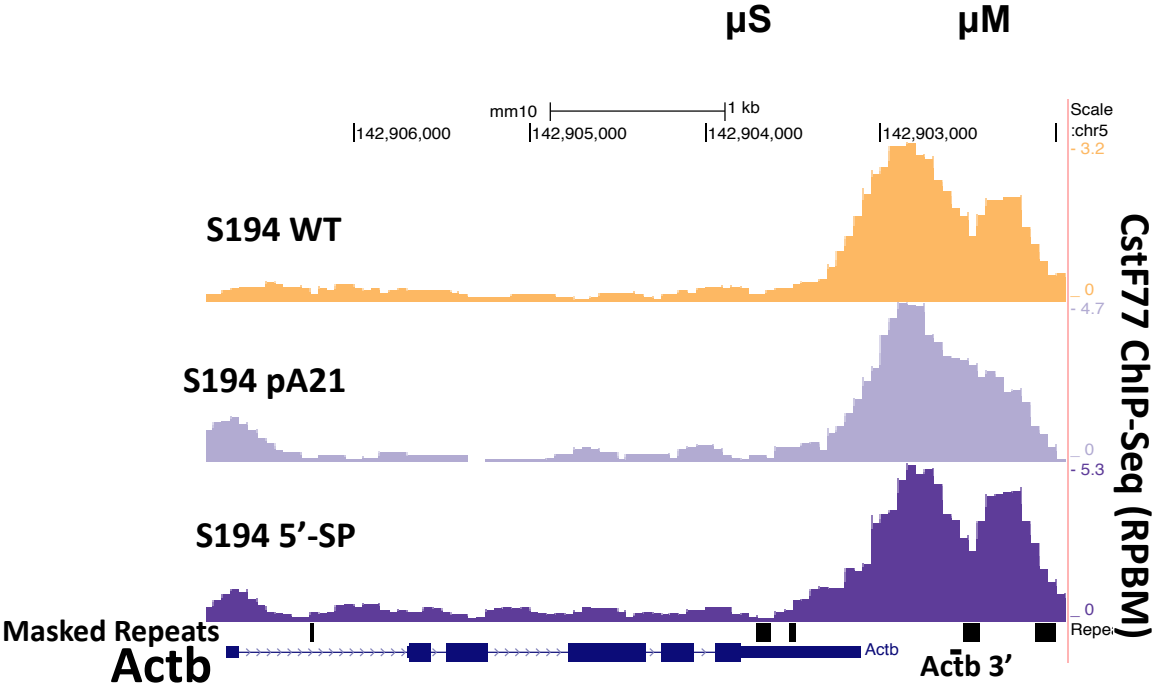
Supplemental Figure S3.

Poly(A) site mutation of the human β -globin gene alters pol II pausing.

A. Map of the integrated tet-inducible CMV-human β -globin gene and the upstream hygromycin resistant gene (white box) in CHO Flp-in cells with a poly(A) site mutation (AAGAAA) marked. Arrows mark the TSS and the poly(A) site. PCR amplicons are indicated with their position relative to the TSS.

B. Relative anti-pol II ChIP signals normalized to the maximum value across β -globin. Means and SEM are shown. Note the WT gene has a pol II pause proximal to the poly(A) site (grey arrow), that is diminished in the A2GA3 poly(A) site mutant where there is evidence of a distal pause (brown arrow). These data are from [19].

Figure S4



Supplemental Figure S4.

CstF recruitment at the Actb gene in S194 cell lines.

UCSC genome browser shot of anti-CstF77 CTD ChIP-seq shows similar recruitment to the β -actin gene in three cell lines and serves as an internal control for the IgM transgenes in these lines (Fig. 4).

Table S1
Oligonucleotide Primers

Primer Pair	Fwd	Rev
2453	CCA GGC TAA GAA GGC AAT	GTT GTA GAT CAA GAA TGT AGT AGT GT
2743	CAG CCA CAG TAA TGA CCC	GCT CTC AAC CTT GTT CCC
7036	GAC ATC TTC CTC AGC AAG TCC GCT AA	AGA TAT TCA GGG TTT CAT AGG TGG CCA
7392	CAC CCT ATC CTC ACT ACT GTC TTC AT	CCT CAG GTT CAG TTG CTC ACG A
7881	CCA TGT CAG AGT GAG ATC TTG CAT T	CAG CAG GCA TGA GCA TTG TA
8079	CTT ACA ACA GAC AGA GTA TGA ACA TGC G	TGC TGC CTG CAC CAG GTT AG
8303	TGG ACA CTT ACA AAC GCC TTC AGA G	TGC ATA TTG GTA TCT GTT TCT GTG AGT GG
8584	TAG GCT GGG TCA CTG AGA CTC CTC	GGT GTT GAG ACA GAT AGG CAT ACT T
8903	CAC ACC ATC AAG GAG CCT CTG	AAT AAT GTC TAG GAT ATG AGC CCA AAG
9368	CTT TAC CCA GGT CCA TAC ATT GCA TC	TGT AGG ACA CAC TAA TTT GGA GCC TT
9635	AGG AAG GCT TTG AGA ACC TGT G	GGG TGA CGG TGG TGC TGT
9855	TCT CAG CAT GGA AGG ACA GCA G	CAT ACA GTC AGG TAT CCC AGG C
10049	CTG AAG CAA TGT CTG GCC C	CCT TCA CAA TAA AGT GAG TTC ACA AGA T
10169	TCC TGC GGT GTT GAC AGC	CTT TCC CTC TTT CTC CCT TAA GTA CCA
10437	AGA GCA TGC ACT CTA ACA GCA A	CCT TCT TCC ATC AGG GTA GAT AAC CAG
10510	TGA TGG AAG AAG GGA AGT AGG GCA	GAG ACC TAA GGC TAG AGG CTA GTT T
10878	GGA GAG GAA GGC AGG TCA TGG A	GGG AGT AAC TAG CAT GGC CCT CA
11140	TTG GTG ATG GTC CCT TTC TGA GTT	ACA GTG GTT TCC CAT TAG ATG ATT TCT TC
11433	CTT GGG CTG GTG TTG CTT C	GAT TGA CCA ACT GCT ATG GCC T
12019	GCA GAC AGA ACC GAA CAA	ACT CTA ACA GGA ACA GCC AG
14096	GAT TGT CTG TTG TGC CCA AGT C	AGG ATG AGG ATC GTT TCG C
ActB 3'	TCC AGC CTT TGT CAG TCG	CTC AAC CAA CCA GTG TTC TCT
C μ 4-1 Fwd	GGC CCC AGG CTT CTA CTT TA	
C μ 4-2 Fwd	CCT GTG TTG TAG GCC ACG AG	
XbaKpnBam Rev		CTG ATC TAG AGG TAC CGG ATC C