

Model Training Results

Marginal Footprinting (2wk vs 8wk)

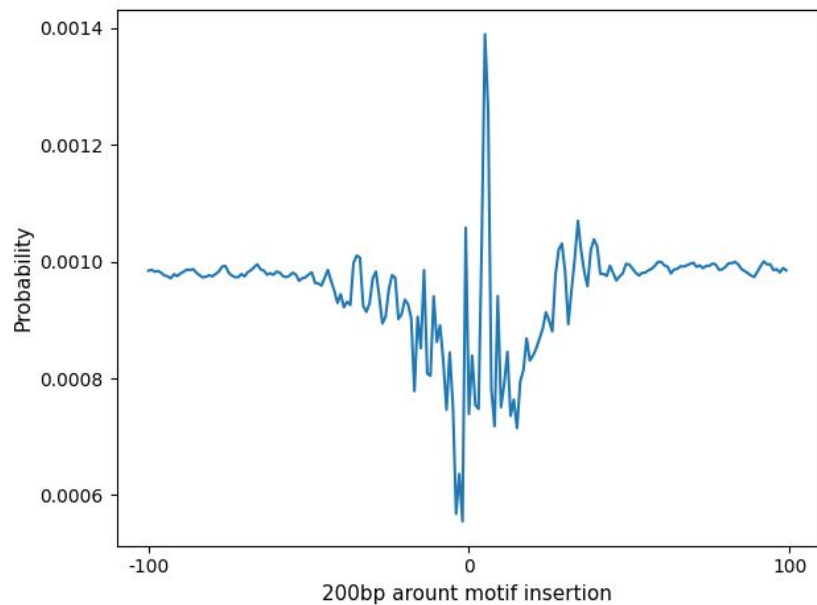
TFs we examined:

From motif_to_pwm.TF tsv file (image on right).

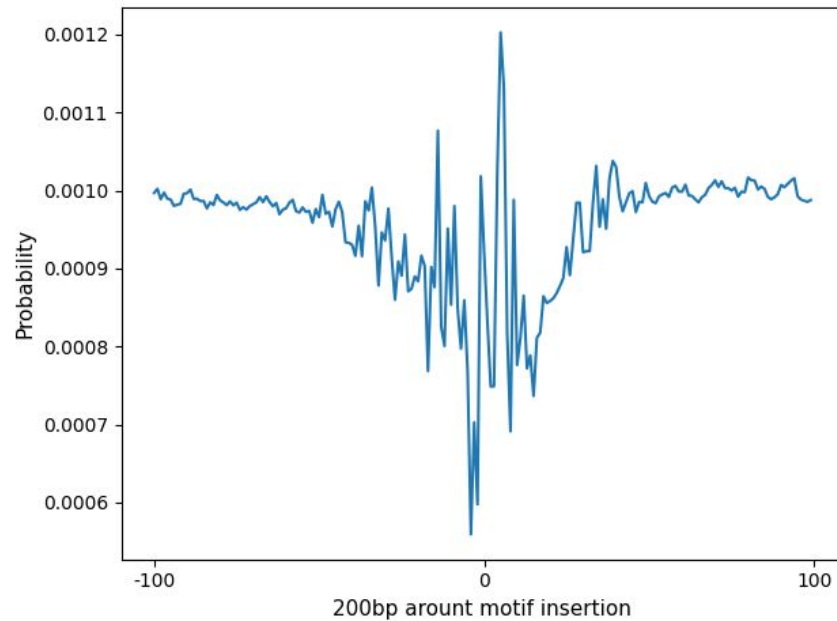
NRF1	GCGCATGCGC
AP1	CGATATGACTCATCCC
CTCF	TTGGCCACTAGGGGGCGCTAT
ETS	CCGAAAGCGGAAGTGAGAC
SP1	AAGGGGGCGGGGCCTAA
RUNX	CCCTAACCACAGCCC
NFKB	GCAAGGGAAATTCCCCAGG
GATA+TAL	GGCTGGGGGGGGCAGATAAGGCC
TAL	GGCTGGG
NFYB	CCAGCCAATCAGAGC
GABPA	GAAACCGGAAGTGGCC
BACH1+MAFK	AACTGCTGAGTCATCCCG
NRF1	CCCCGCGCATGCGCAGTGC
HNF4G	CCGTGGACTTTGGACCCTG

AP1 footprint - similar.

2 week

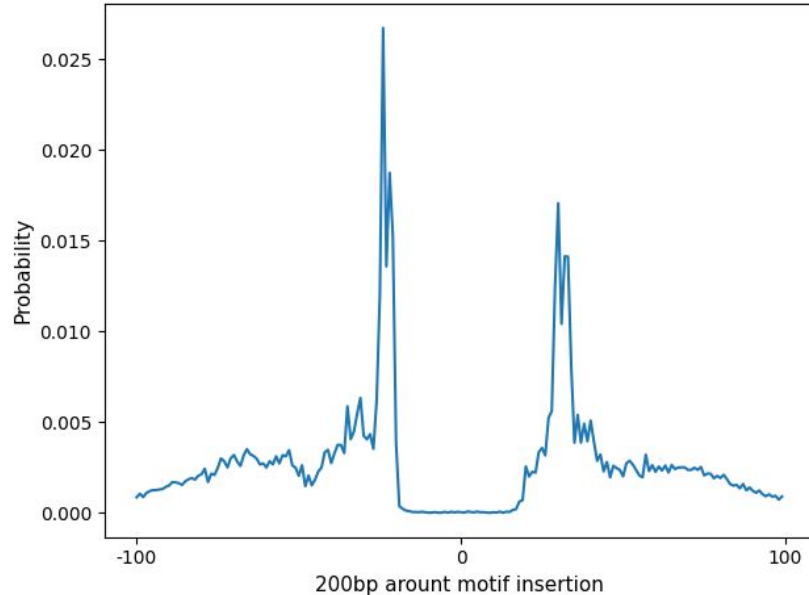


8 week

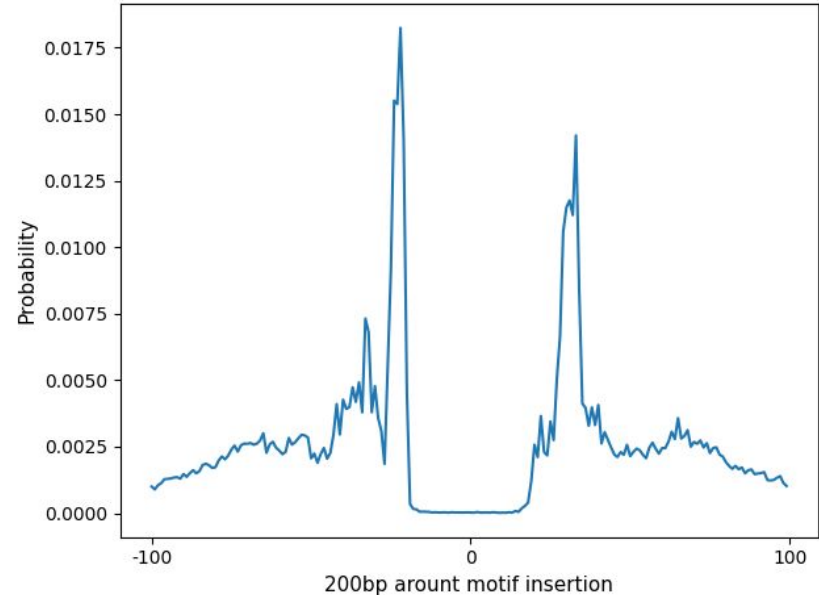


CTCF footprint - “largest” footprints in terms of probability

a) 2 Week

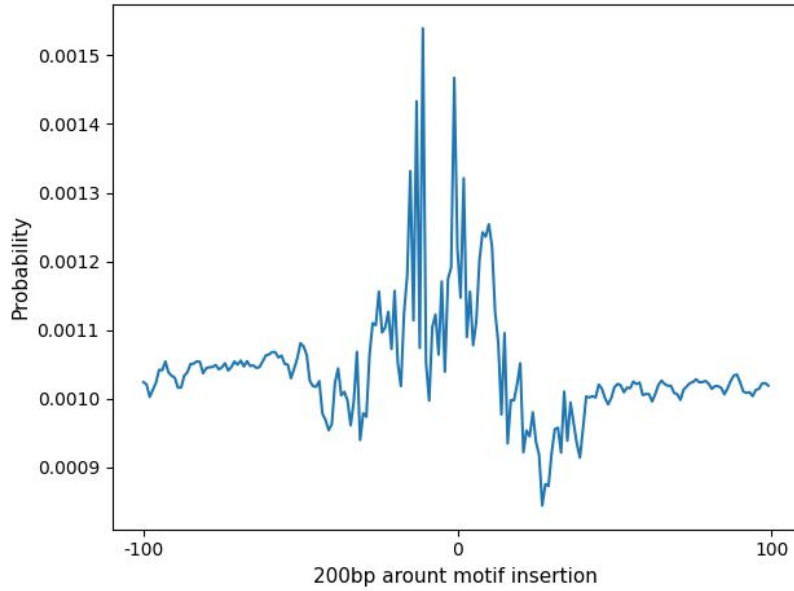


b) 8 Week

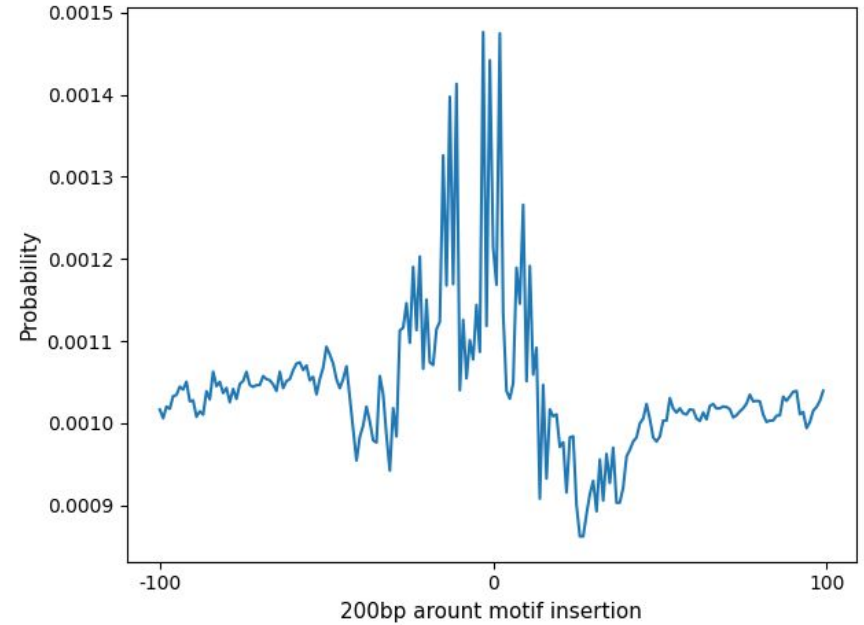


ETS footprint - highly similar.

2 week

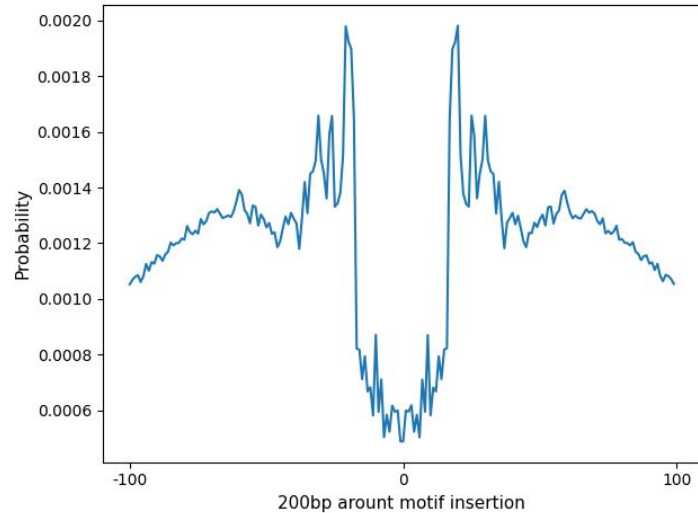


8 week

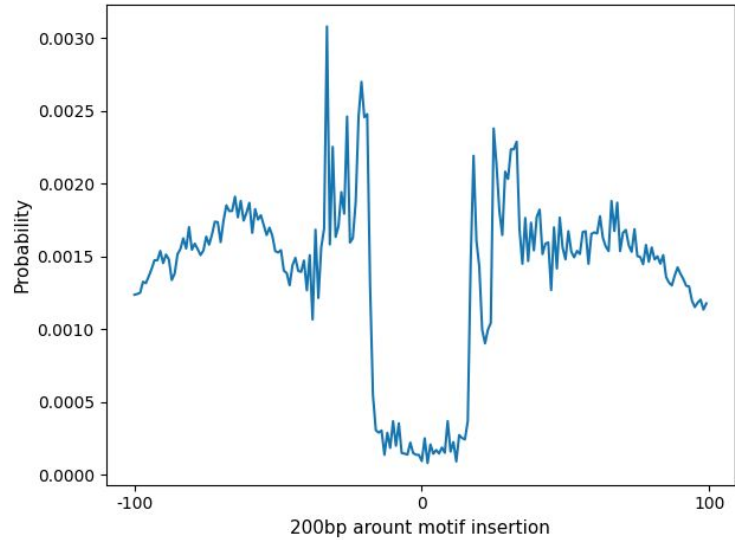


NRF1 footprint - difference in 0.001 here

2 week

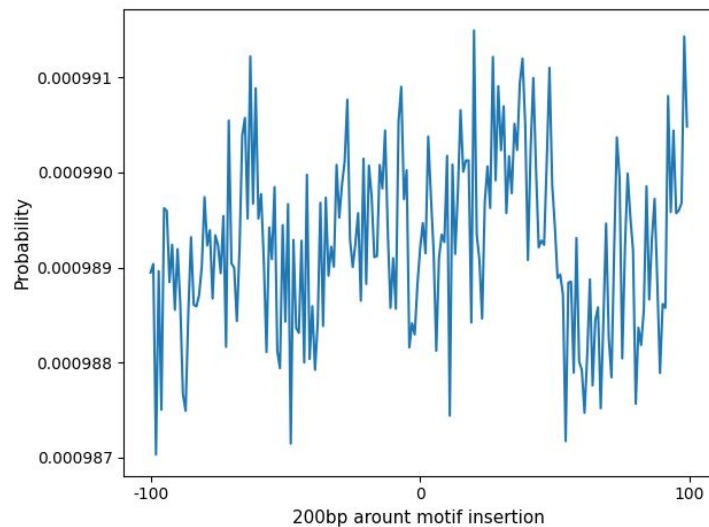


8 week

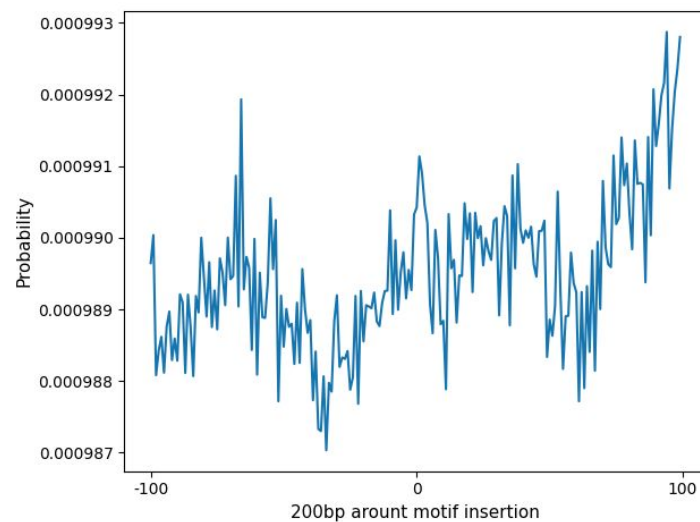


Control footprint

2 week



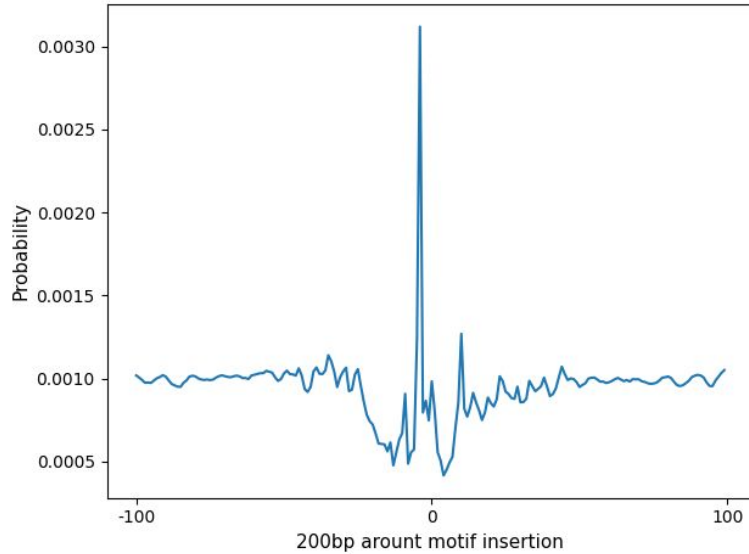
8 week



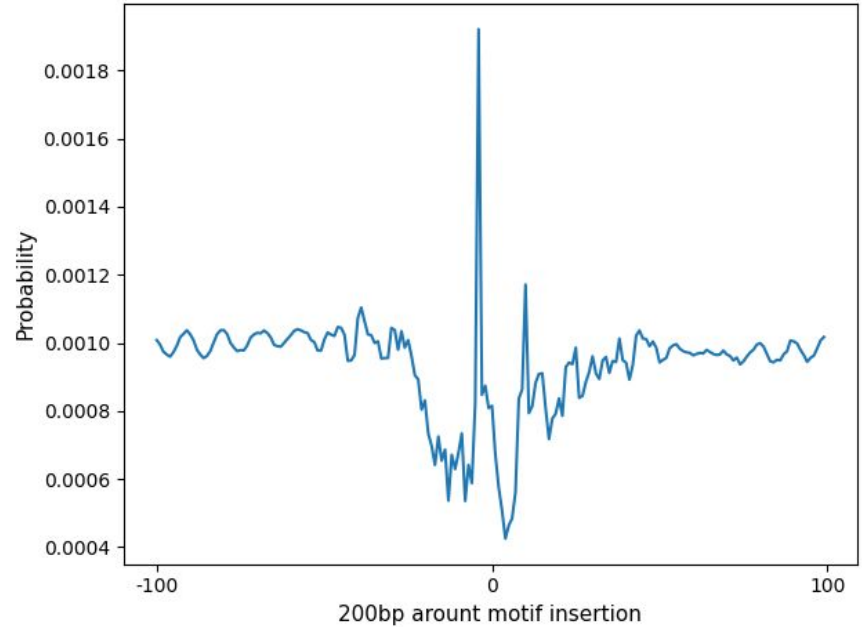
GATA+TAL ...Additional Footprints (can add to overleaf)

0.001 difference here.

2 Week

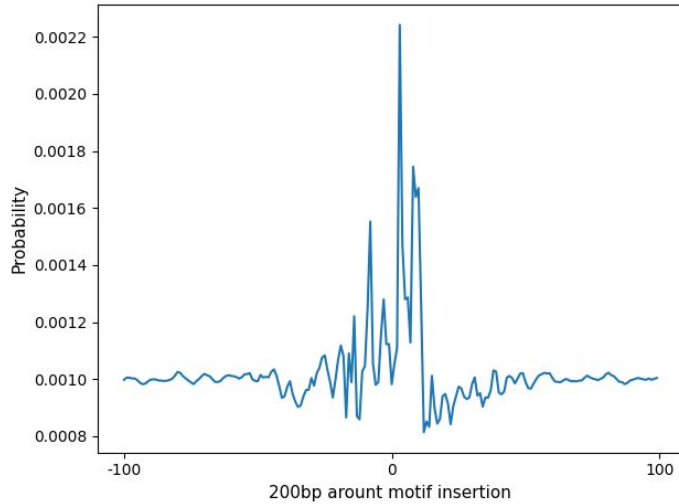


8 week

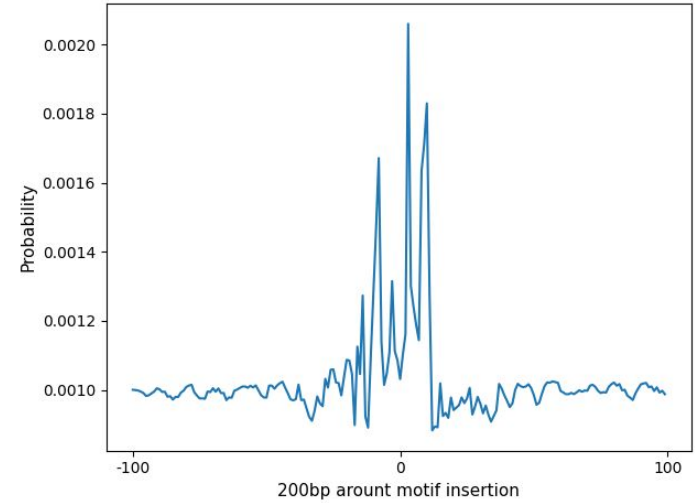


NFKB - rather similar.

Week 2

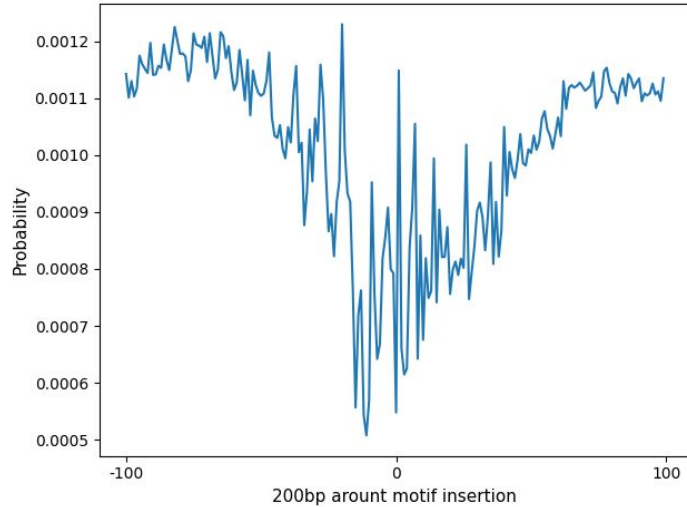


Week 8

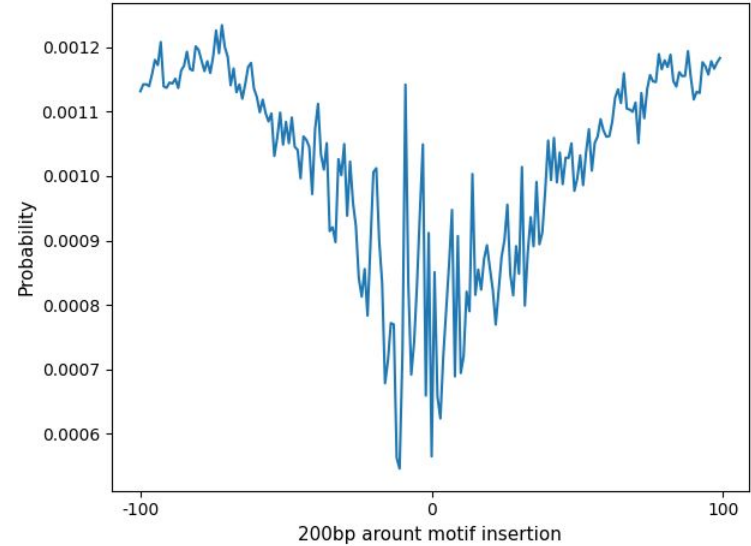


NFYB - highly similar between the two.

Week 2

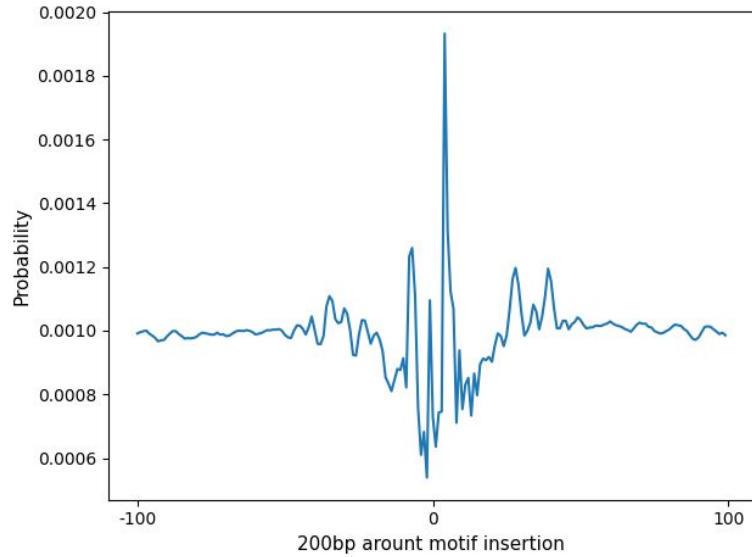


Week 8

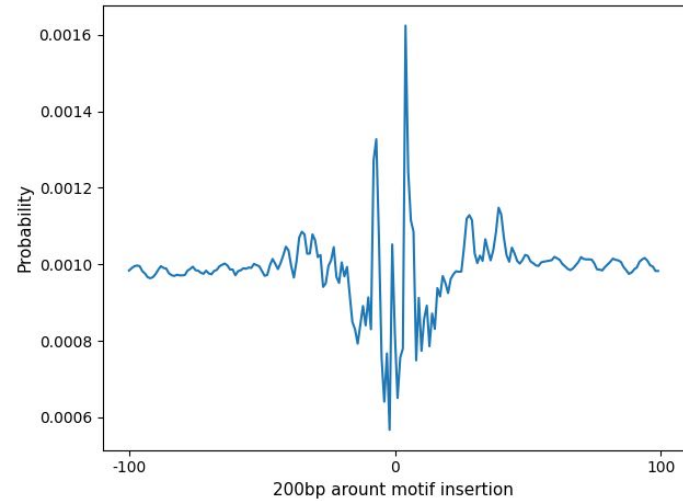


RUNX - rather similar.

Week 2

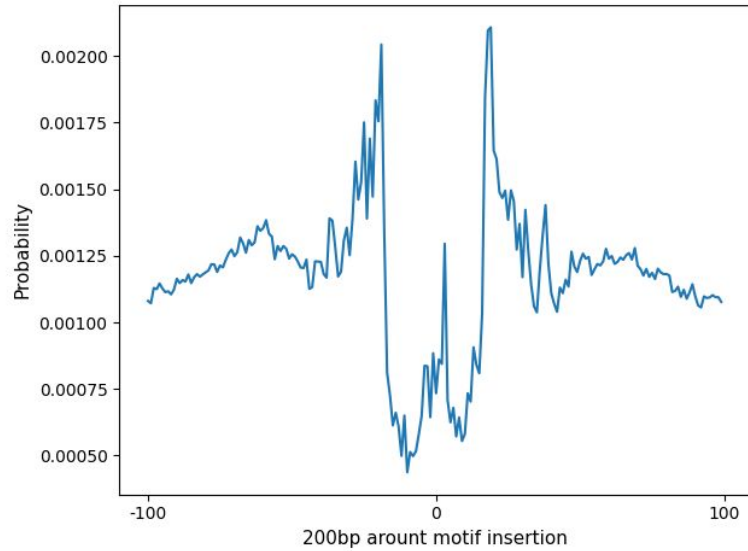


Week 8

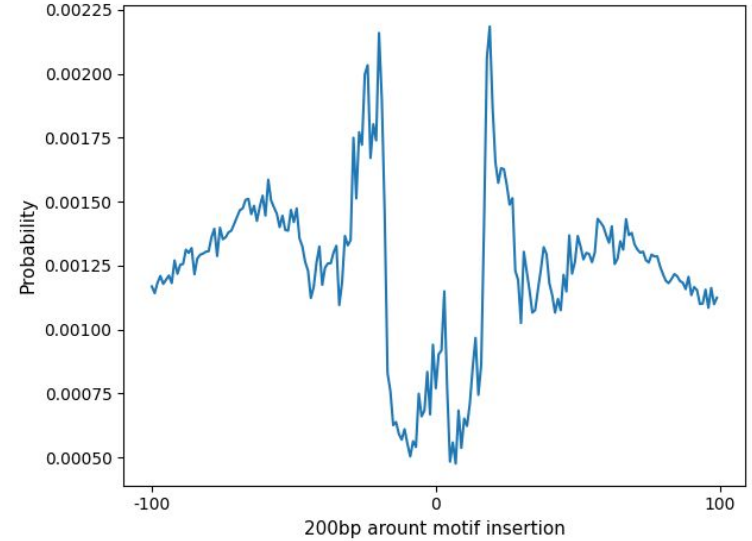


SP1 - rather similar.

Week 2

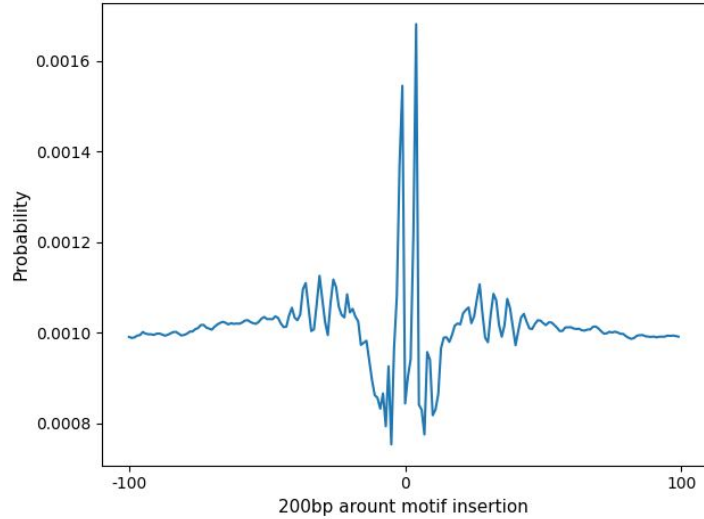


Week 8

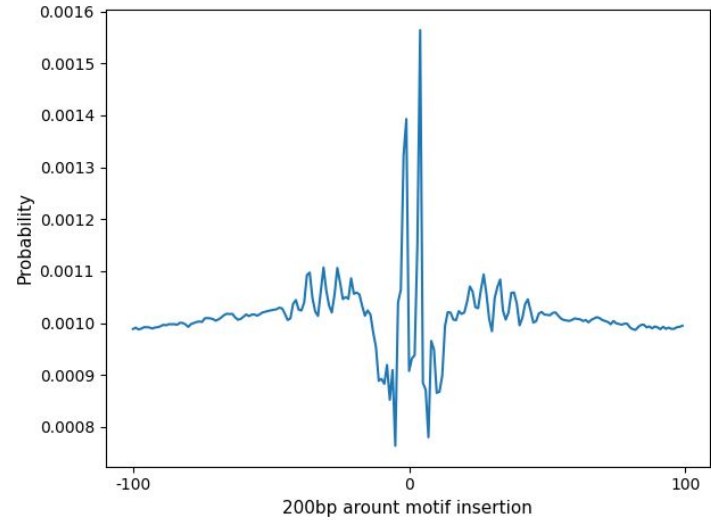


TAL - highly similar 2 and 8.

2 Week



8 Week



2wk vs 8 wk SNP motifs

SNPs we used in variant_scoring and got shap scores for

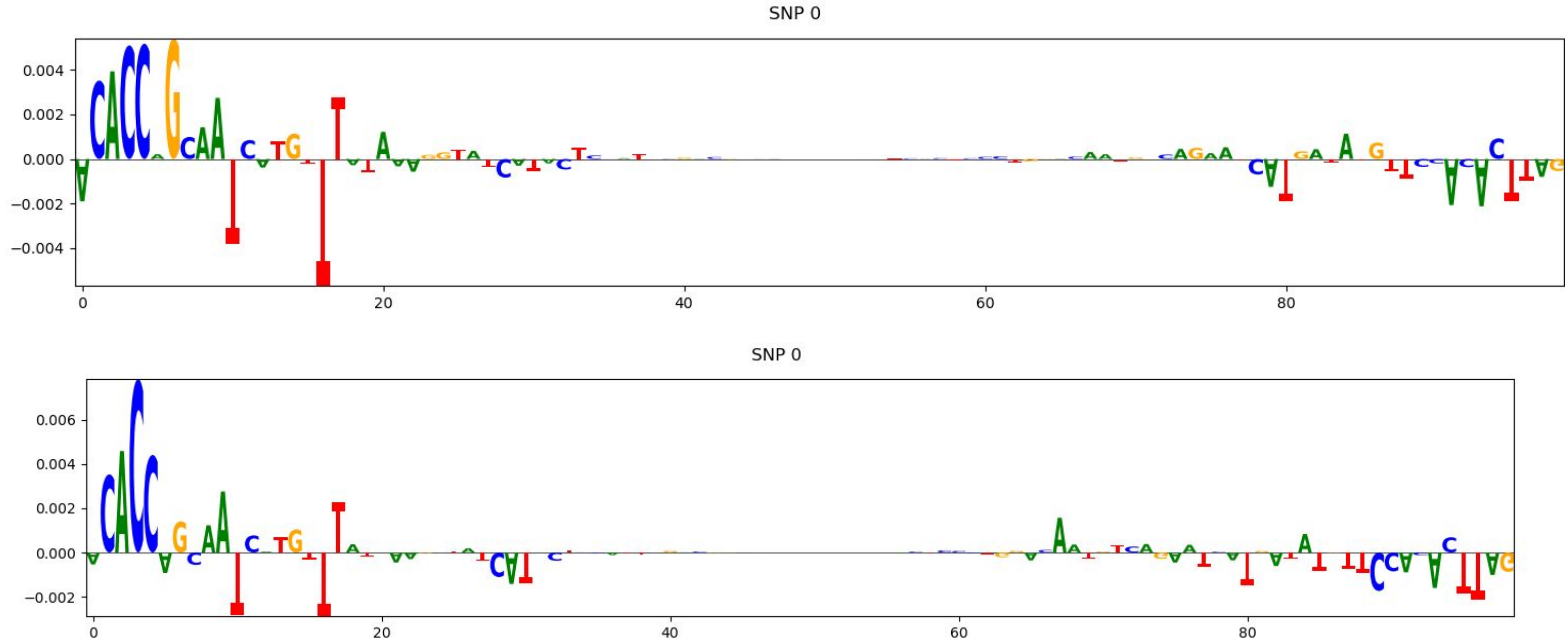
chr5	37859972	A	C	$8 \cdot 10^{-6}$
chr7	94075721	C	G	$3 \cdot 10^{-6}$
chr7	94075721	C	A	$3 \cdot 10^{-6}$
chr15	22937754	A	G	$9 \cdot 10^{-6}$
chr15	22937754	A	C	$9 \cdot 10^{-6}$
chr15	57786063	T	A	$2 \cdot 10^{-9}$
chr3	155998632	A	G	$9 \cdot 10^{-9}$
chr17	66282726	C	T	$4 \cdot 10^{-8}$
chr14	81144598	C	T	$9 \cdot 10^{-8}$
chr1	60952057	G	T	$2 \cdot 10^{-6}$
chr16	7575790	A	C	$1 \cdot 10^{-5}$
chr16	7575790	A	G	$1 \cdot 10^{-5}$
chr16	7575790	A	T	$1 \cdot 10^{-5}$
chr15	22927754	A	G	$9 \cdot 10^{-6}$
chr15	22927754	A	C	$9 \cdot 10^{-6}$
chr2	3170550	T	C	$2 \cdot 10^{-6}$

2 vs 8 Week SNPs
(Allele 1 normal vs. Allele 2 variant).

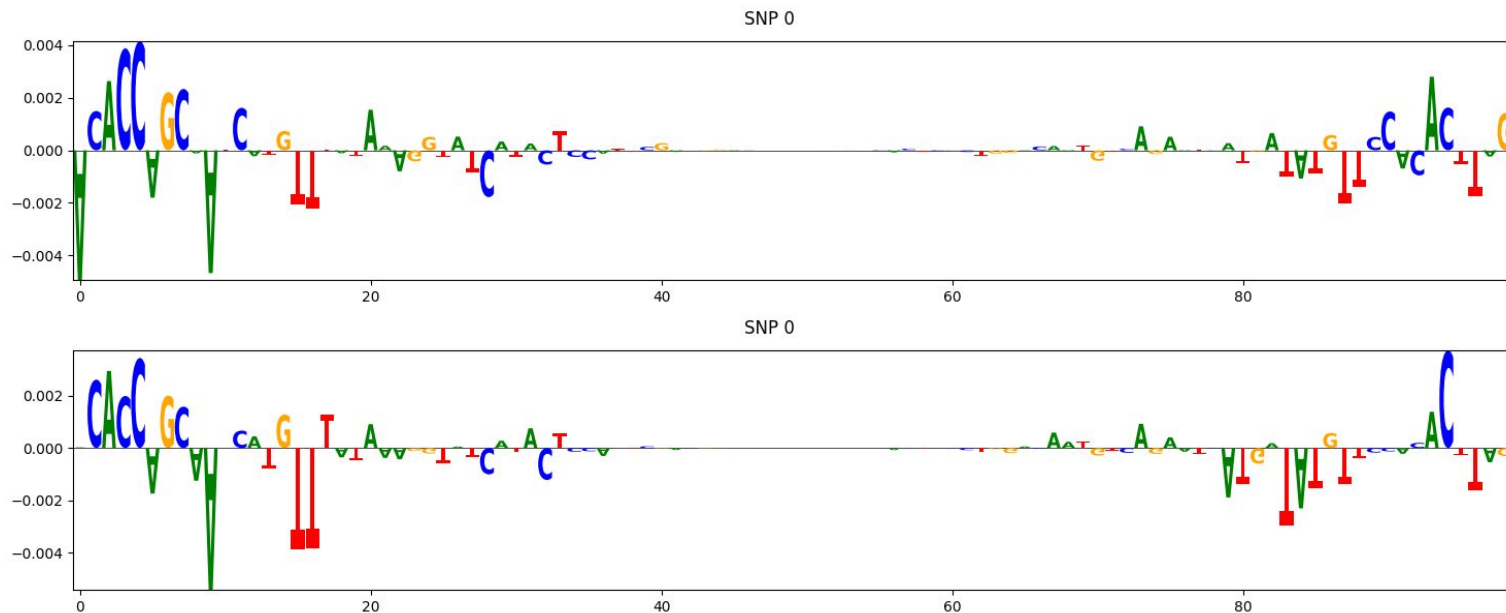
SNP 0 - 8 week

I.e. Index 0 so this is chr5 SNP in the chart on slide 11).

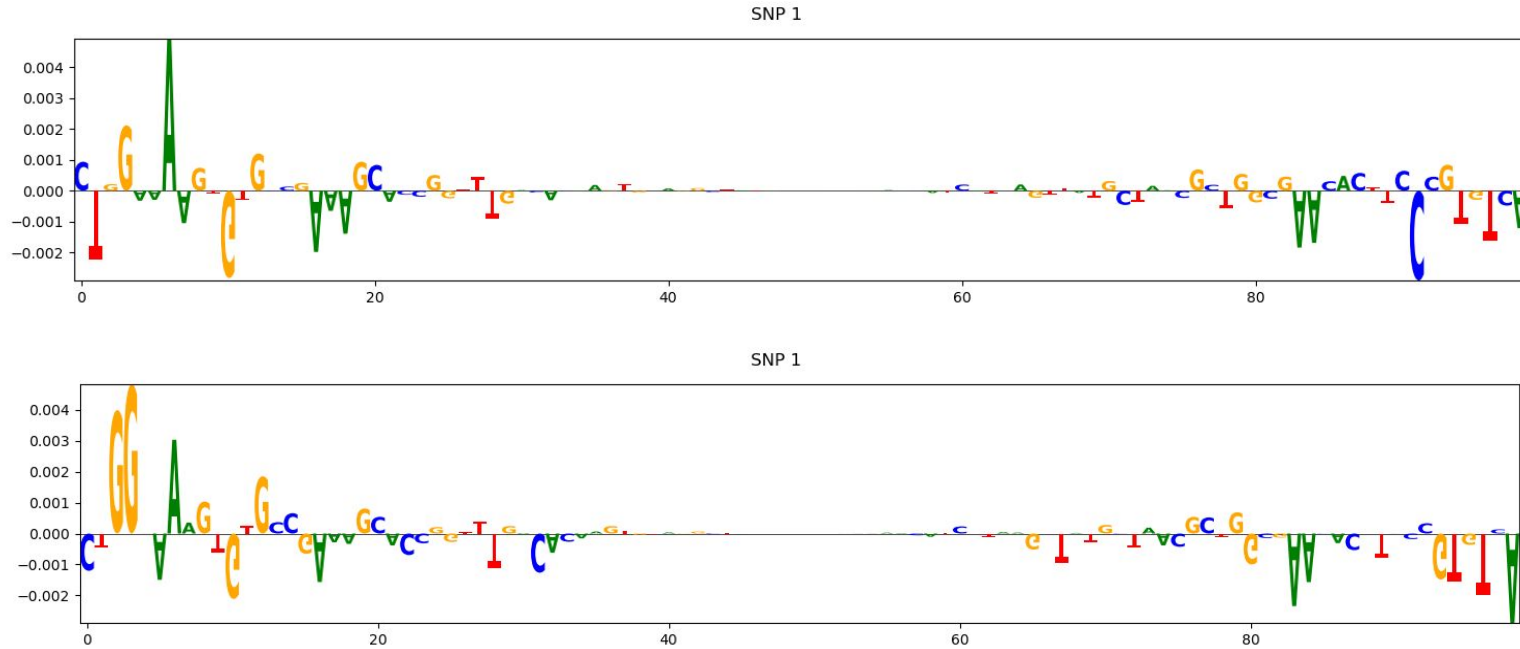
Note: Allele 1 (top) vs 2 (variant allele - bottom) for all slides.



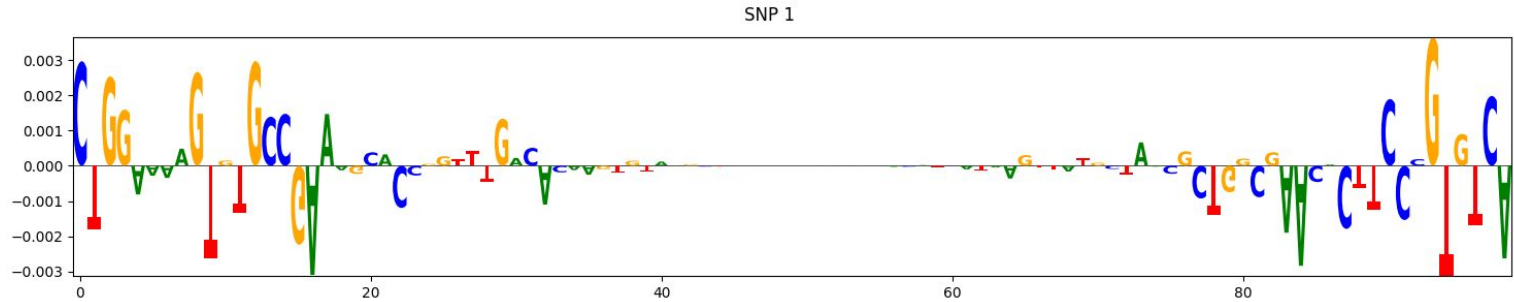
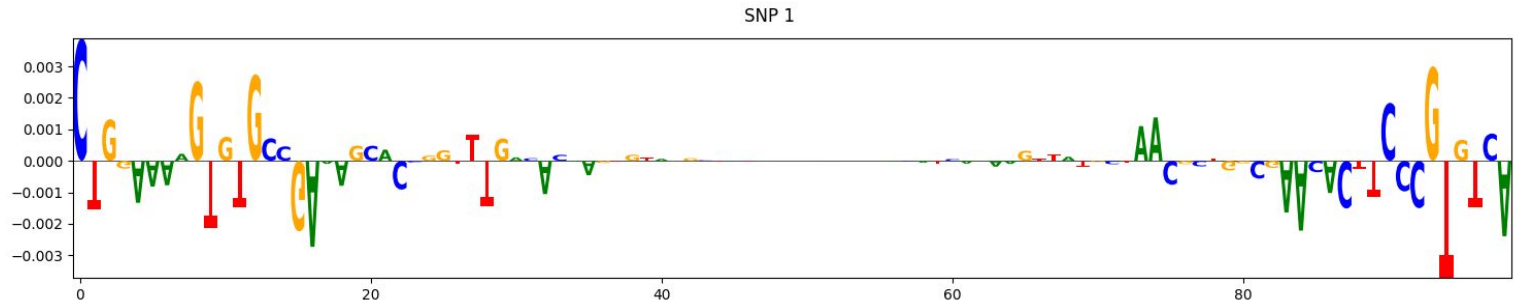
SNP 0 - 2 week



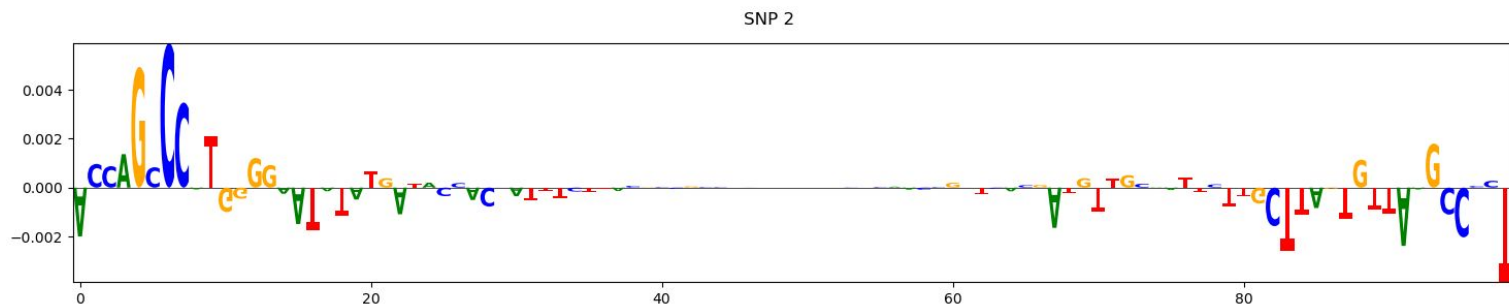
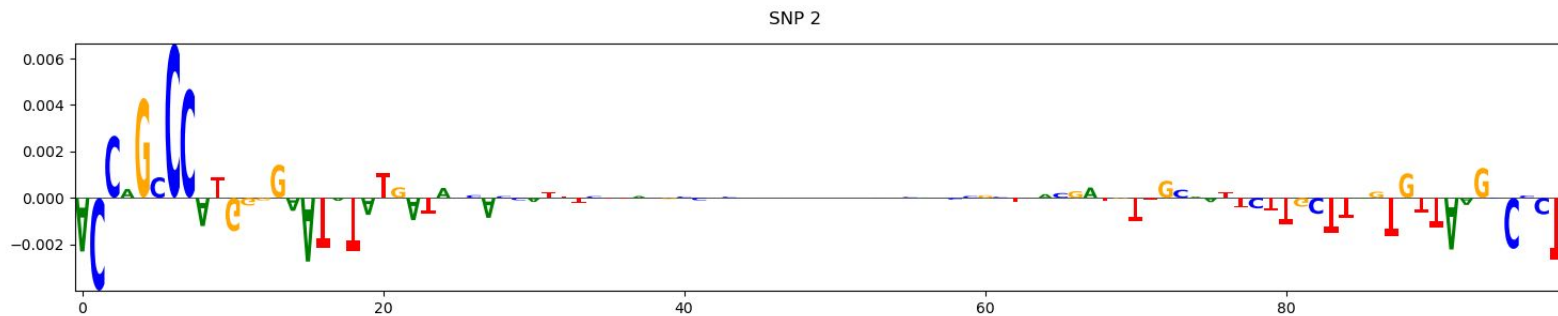
SNP 1 - 8wk allele 1 (top) vs 2 (variant - bottom).



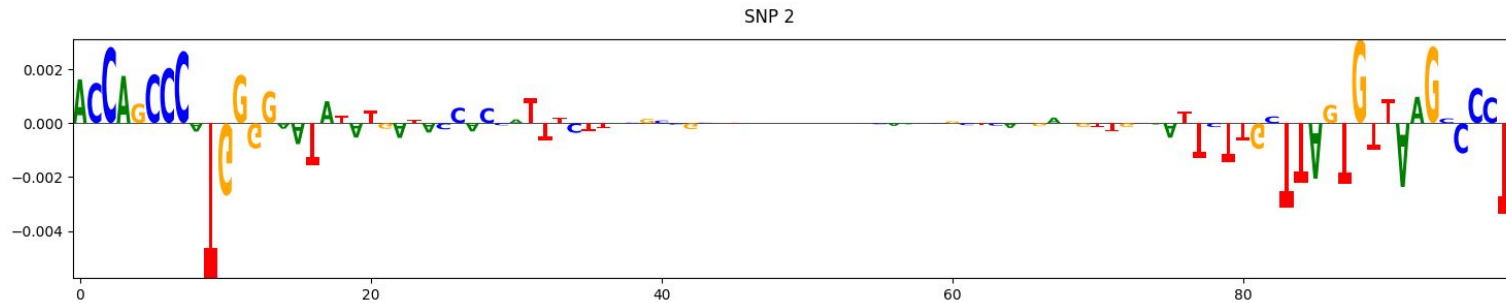
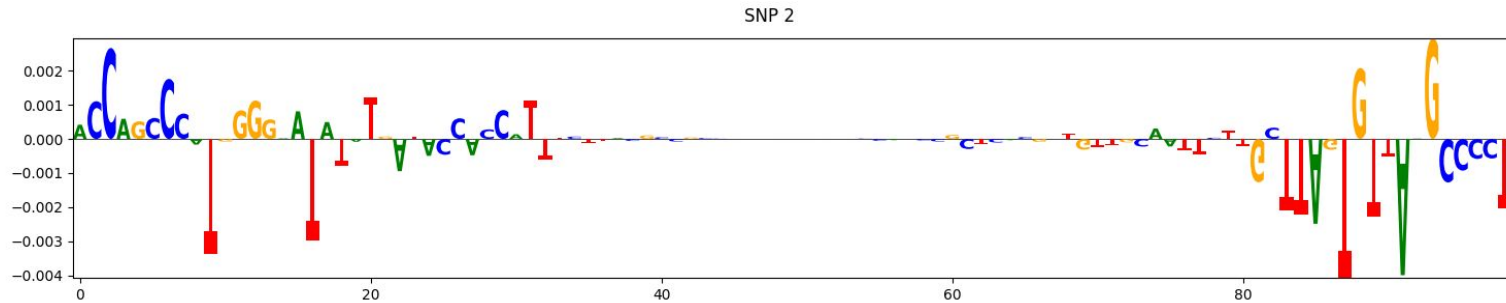
SNP 1 - 2 week



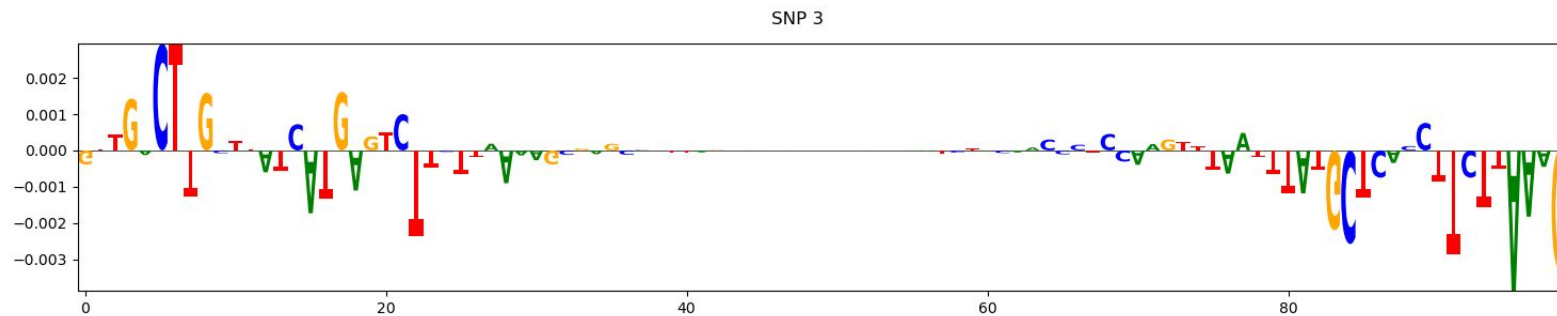
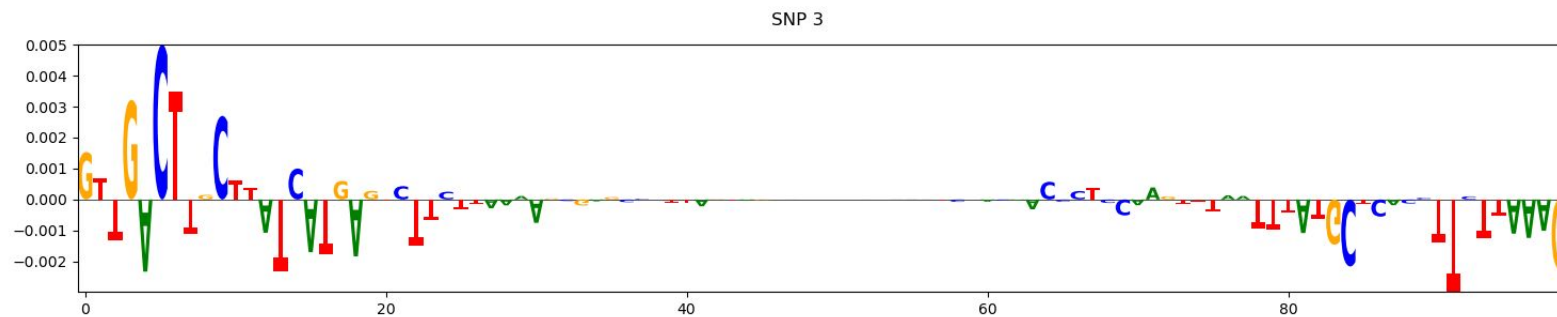
SNP 2 - 8 week



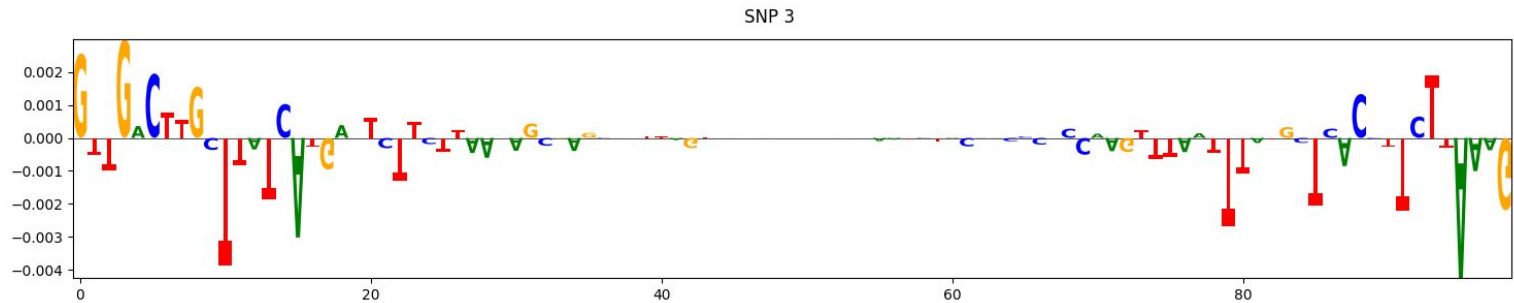
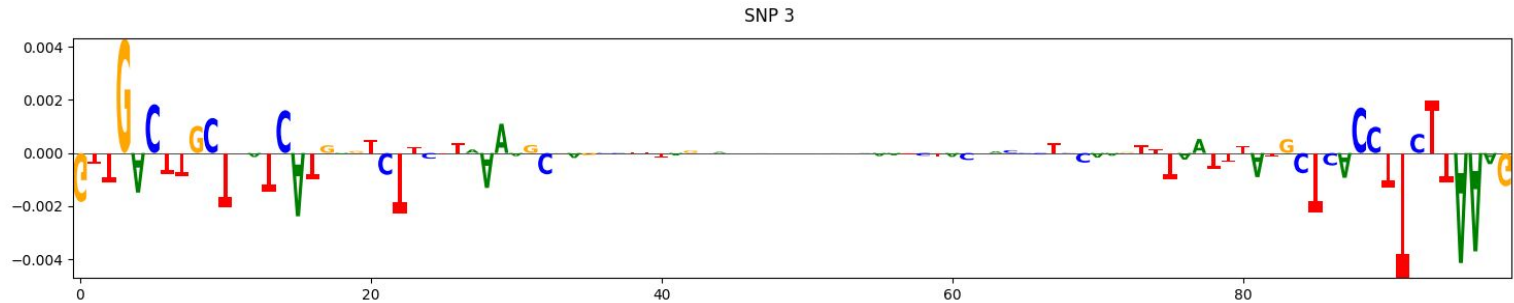
SNP 2 - 2 week



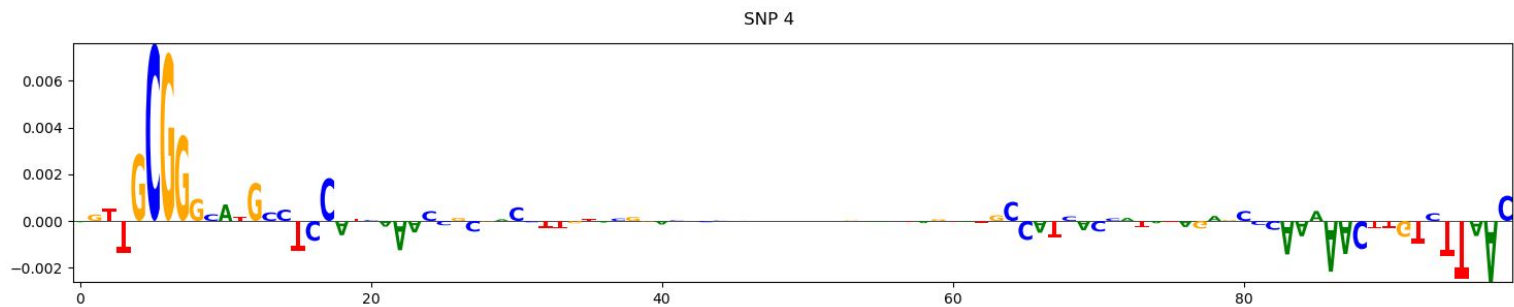
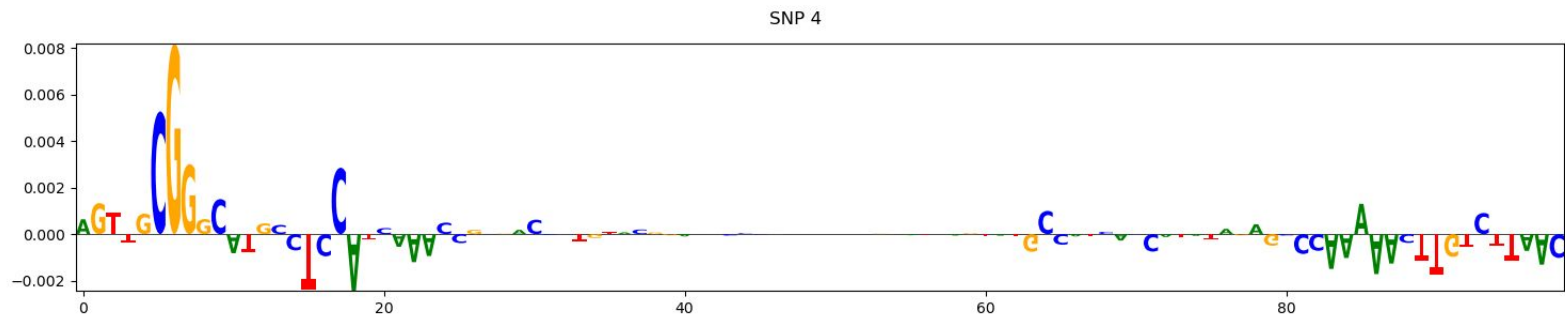
SNP 3 - 8 week



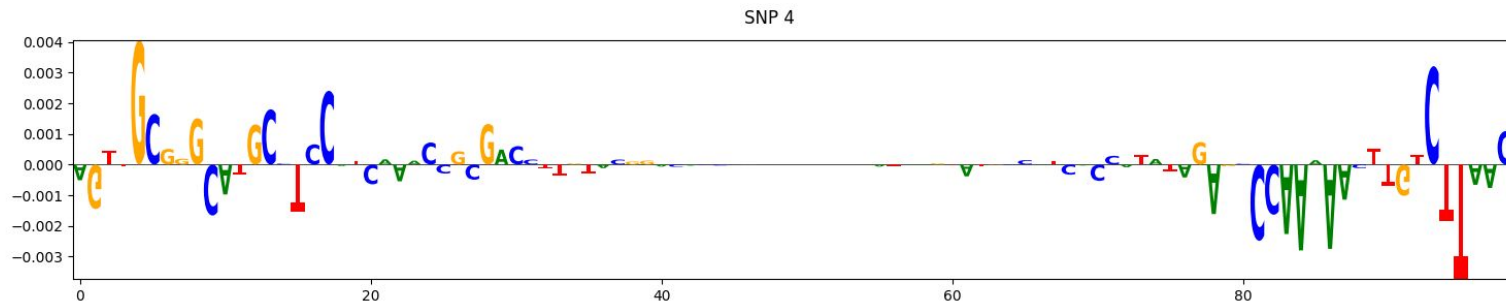
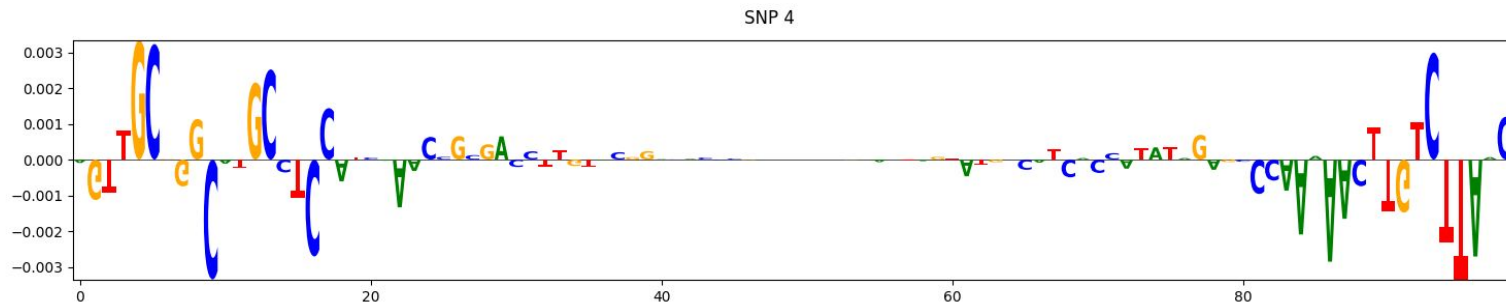
SNP 3 - 2 week



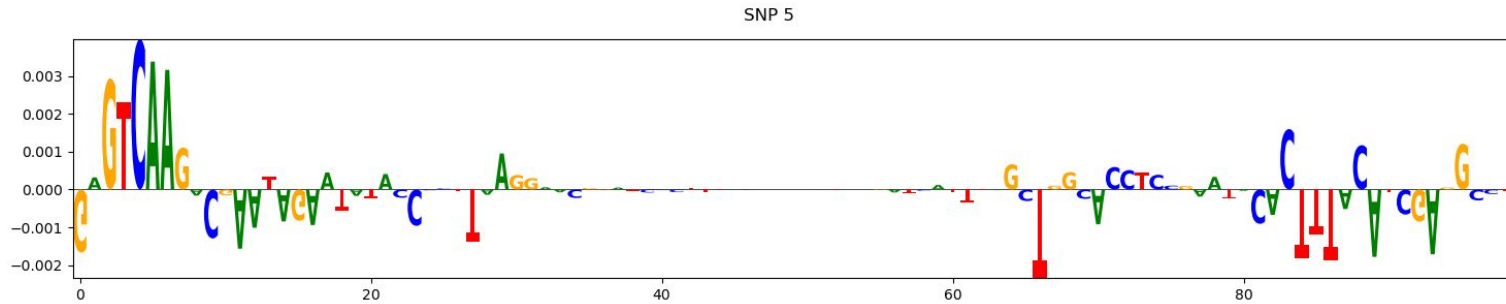
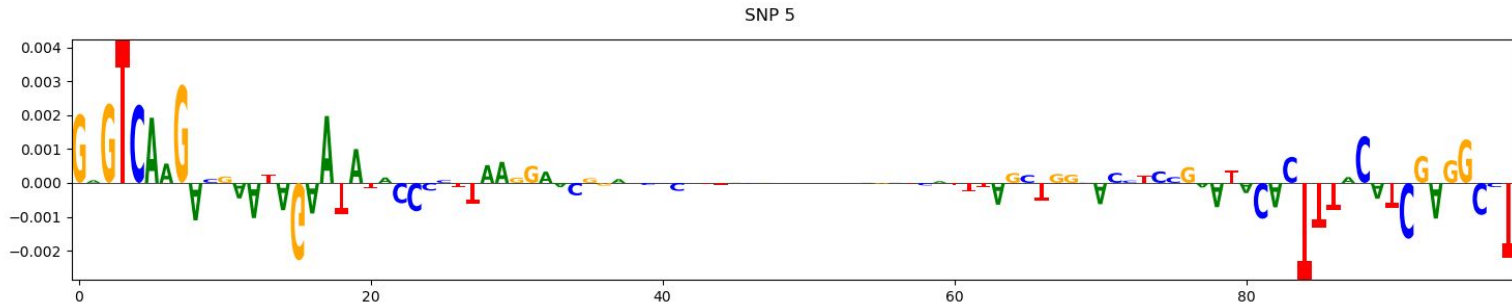
SNP 4 - 8 week **very similar**



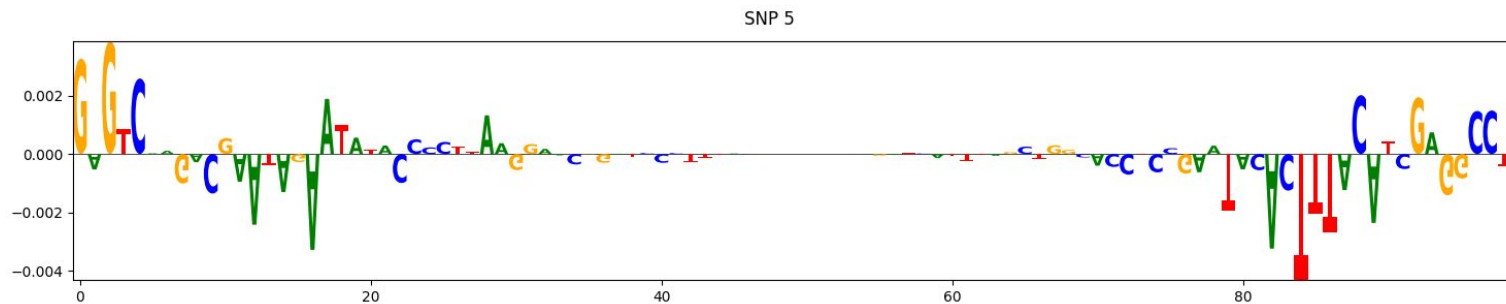
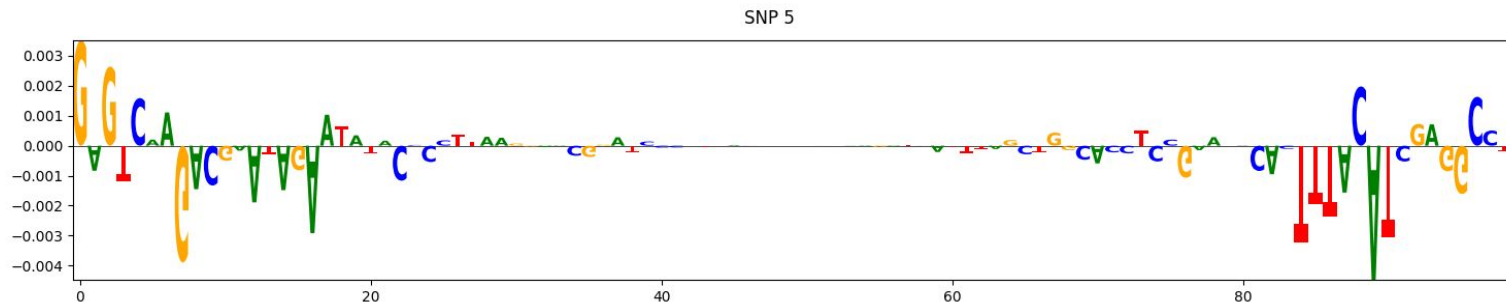
SNP 4 - 2 week



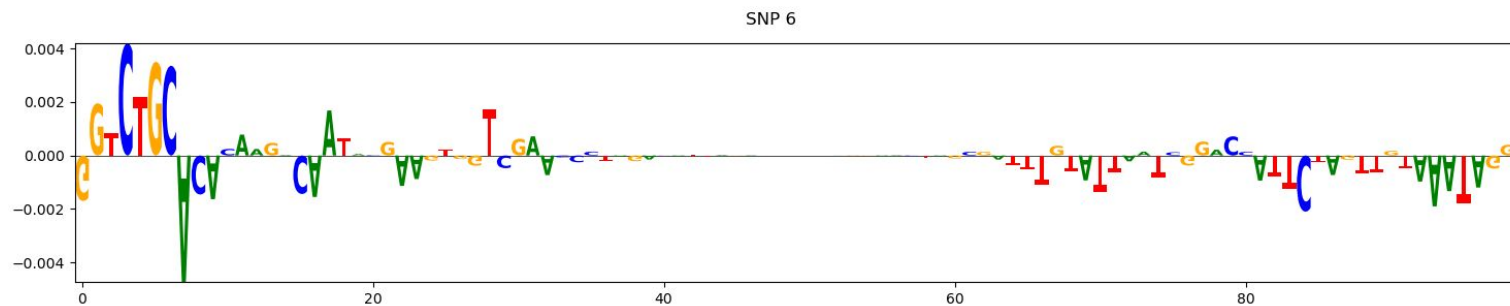
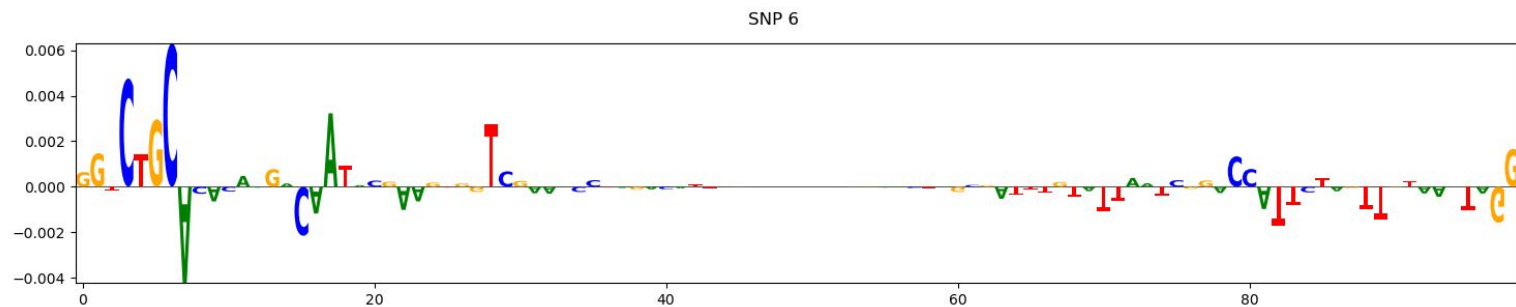
SNP 5 - 8 week



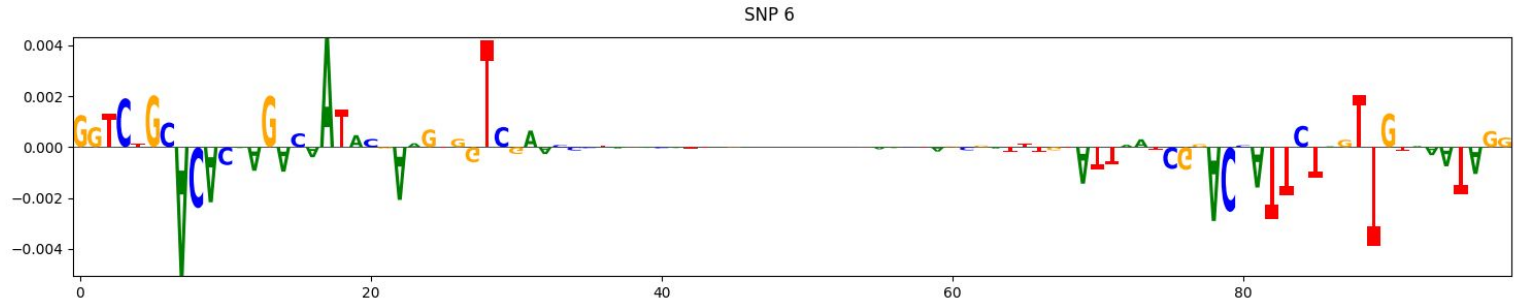
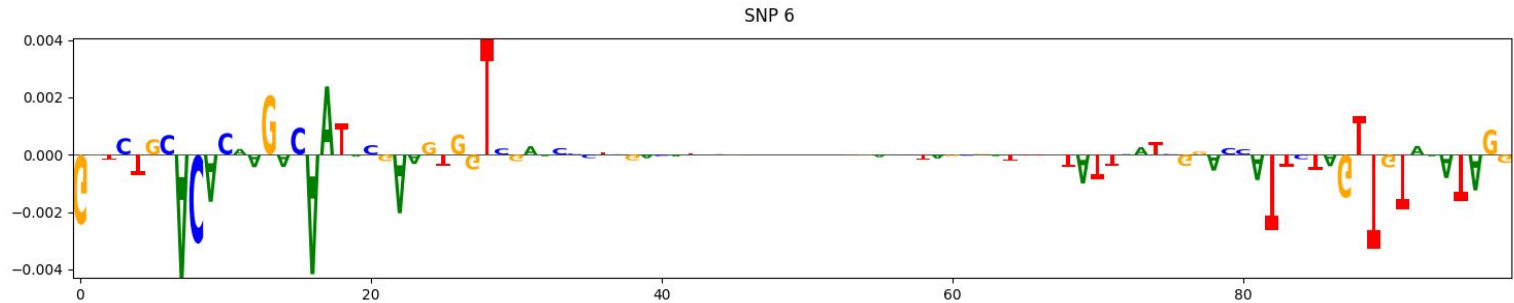
SNP 5 - 2 week



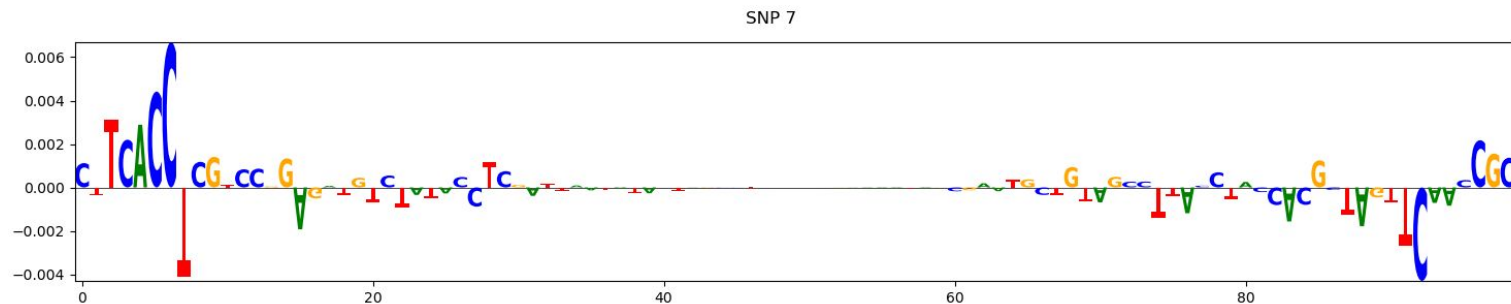
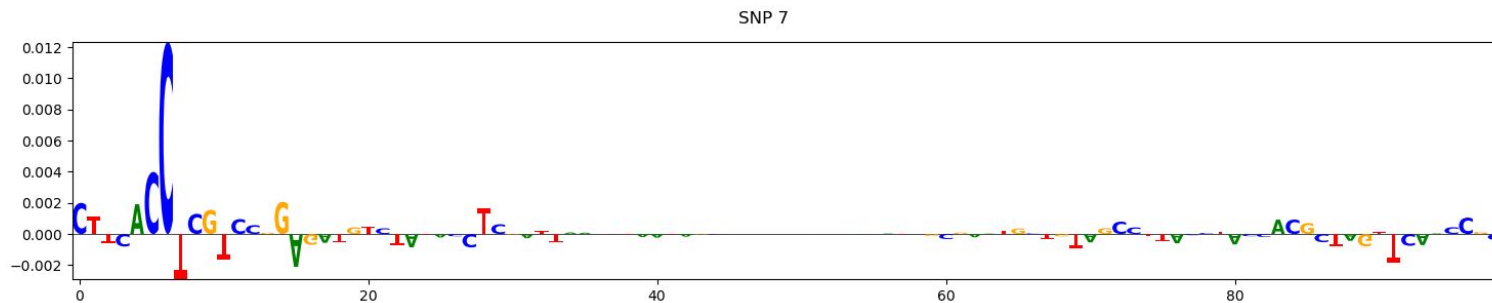
SNP 6 - 8 week



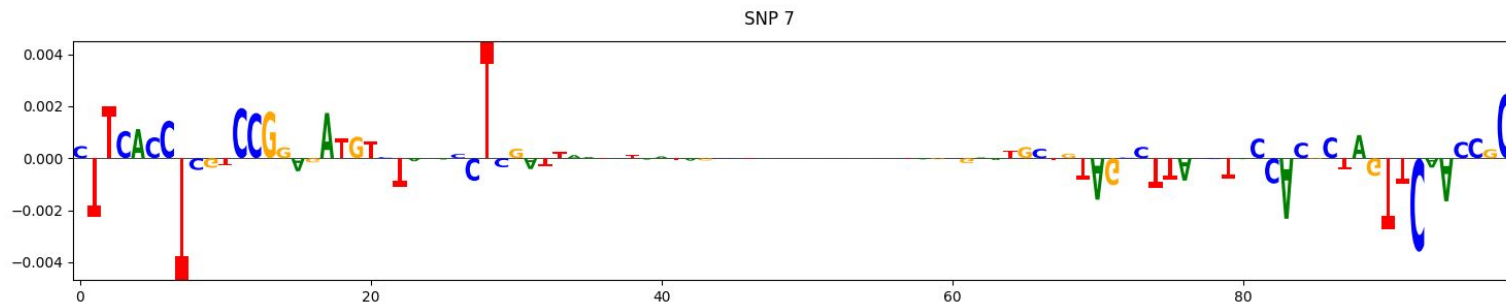
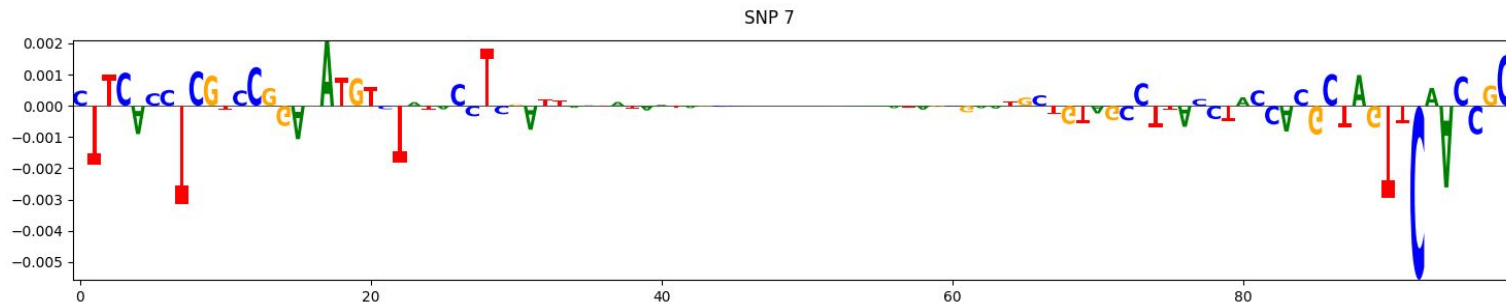
SNP 6 - 2 week



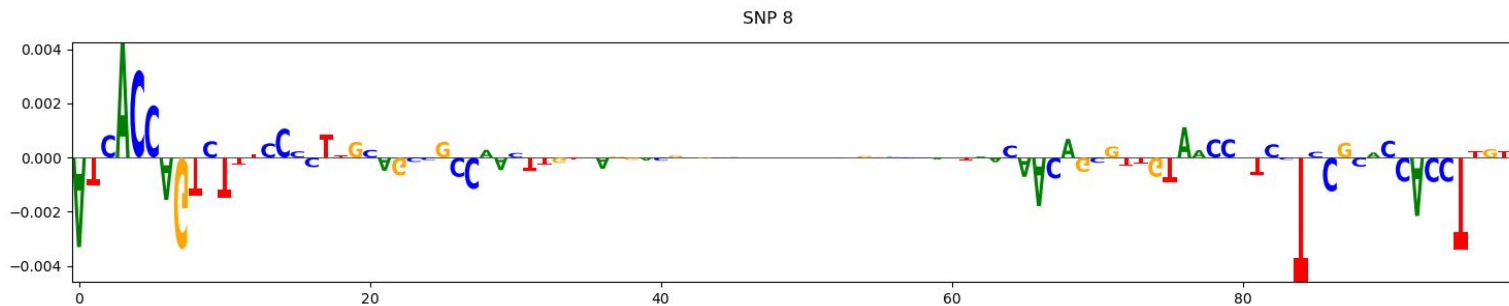
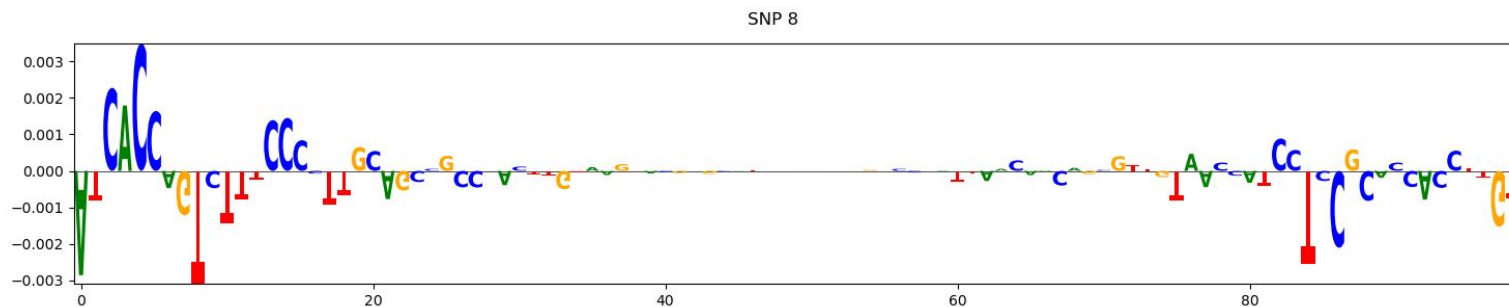
SNP 7 - 8 week



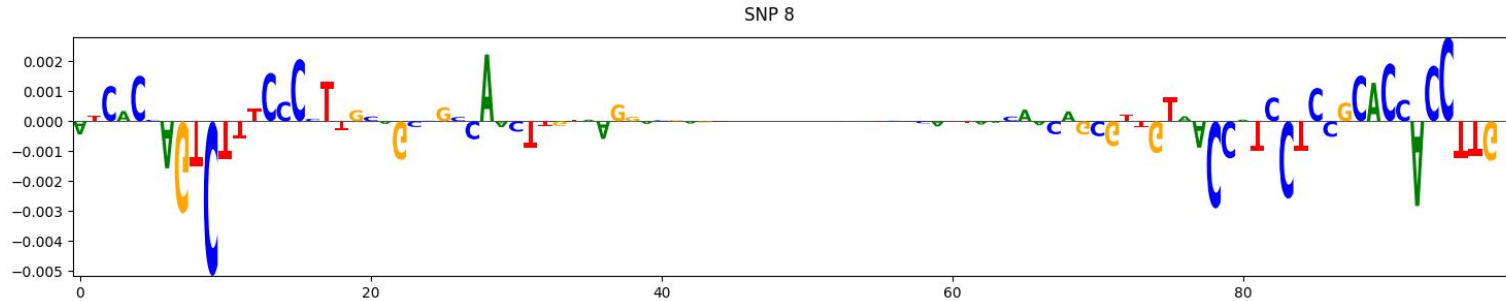
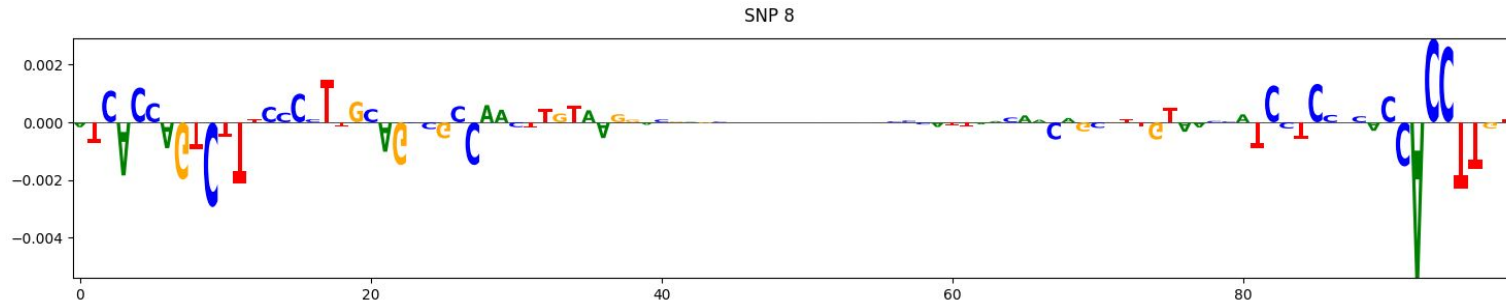
SNP 7 - 2 week



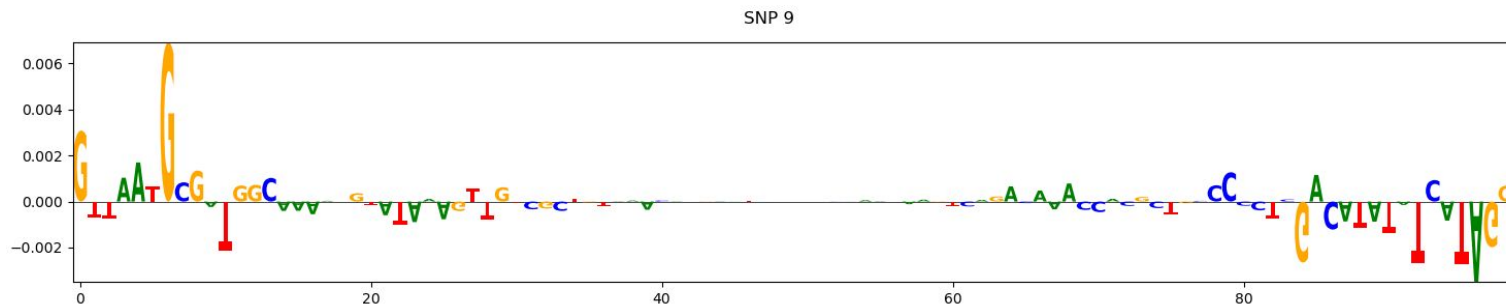
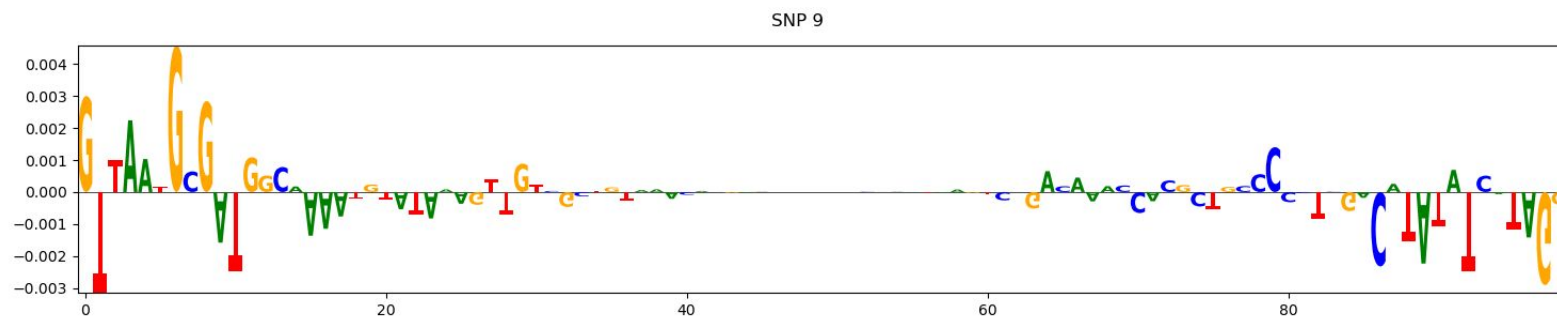
SNP 8 - 8 week



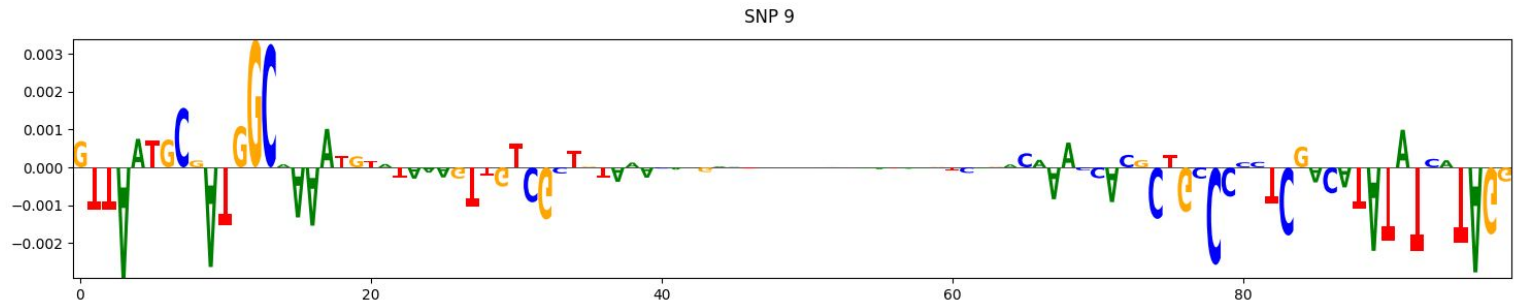
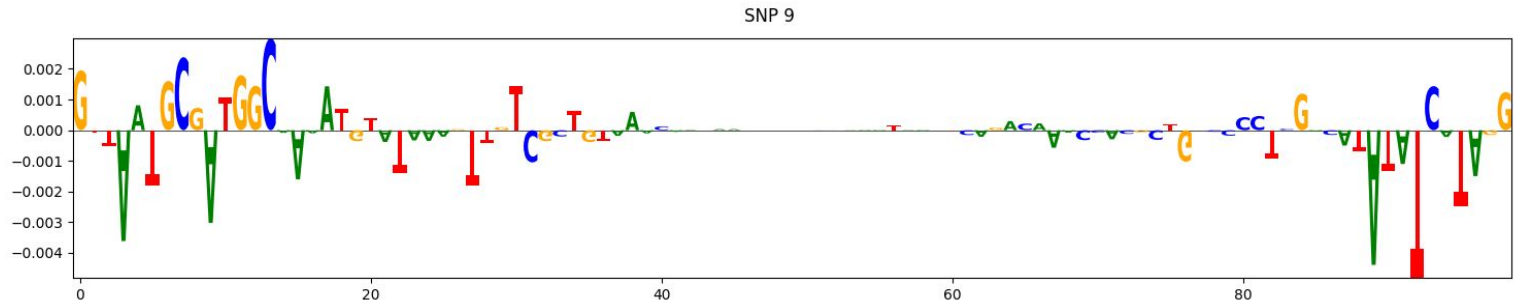
SNP 8 - 2 week



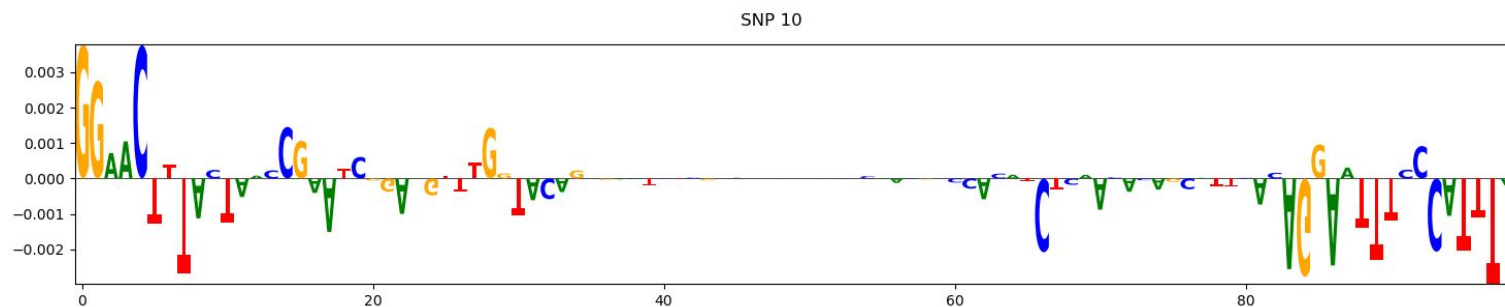
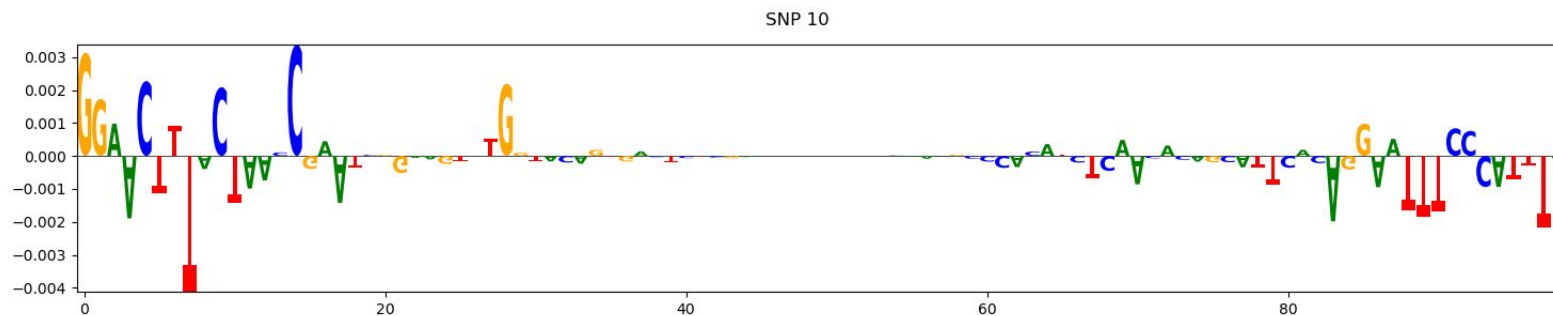
SNP 9 - 8 week



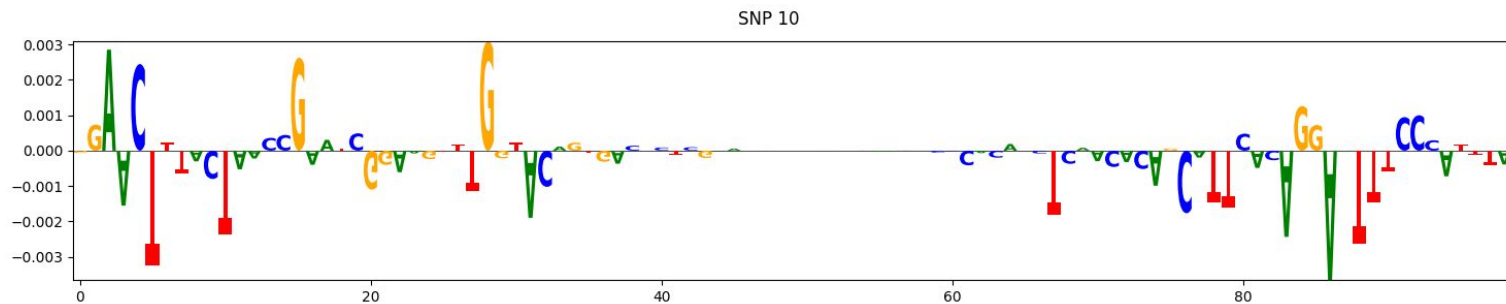
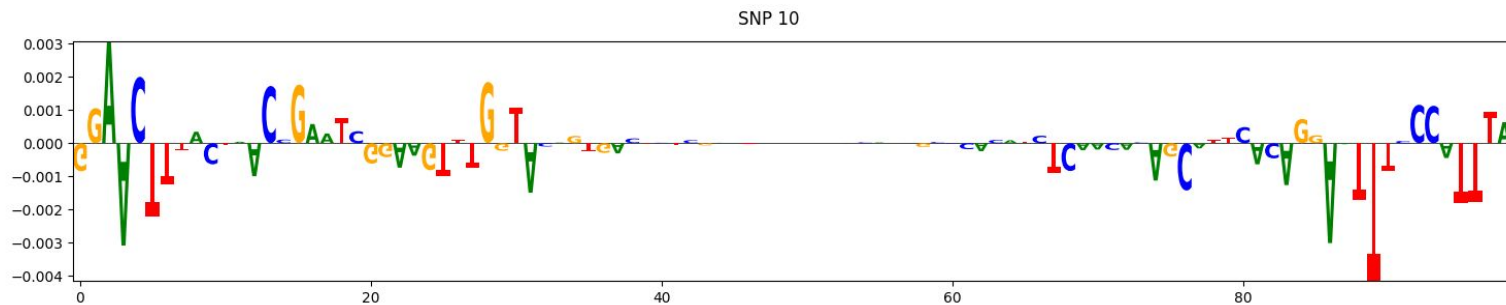
SNP 9 - 2 week



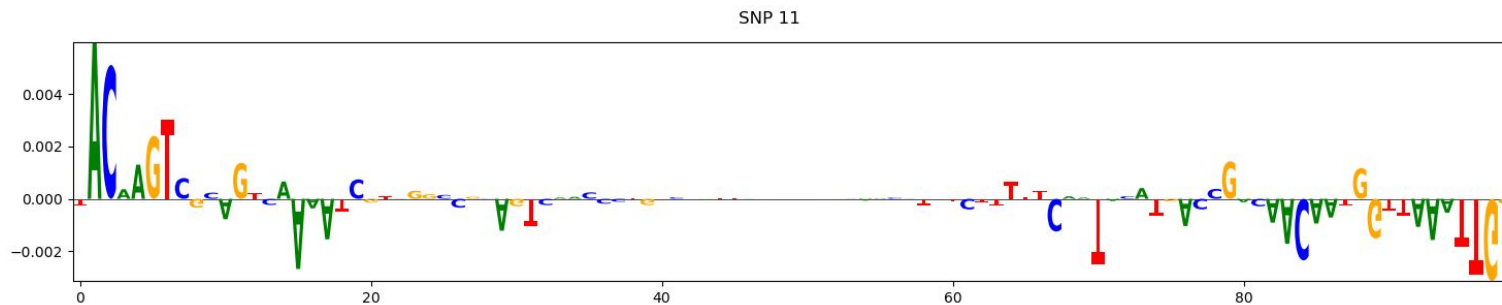
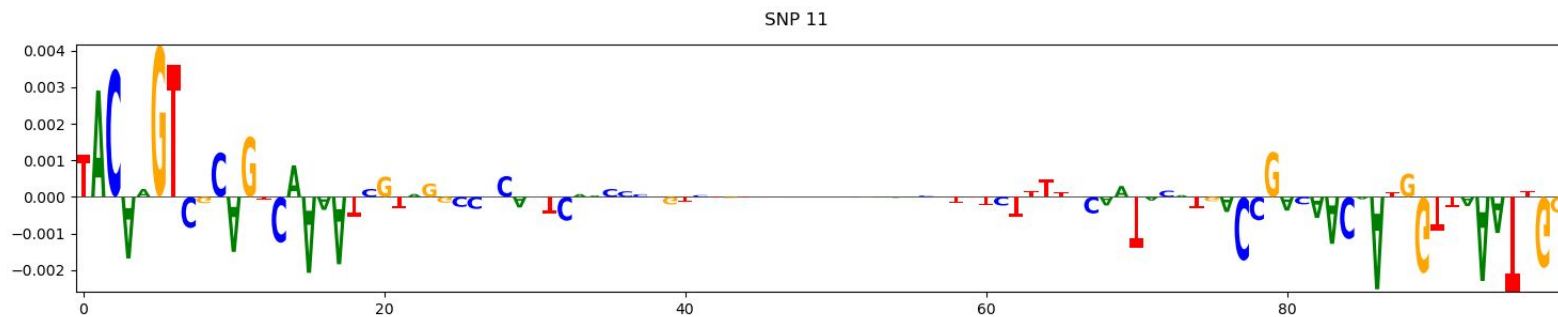
SNP 10 - 8 week



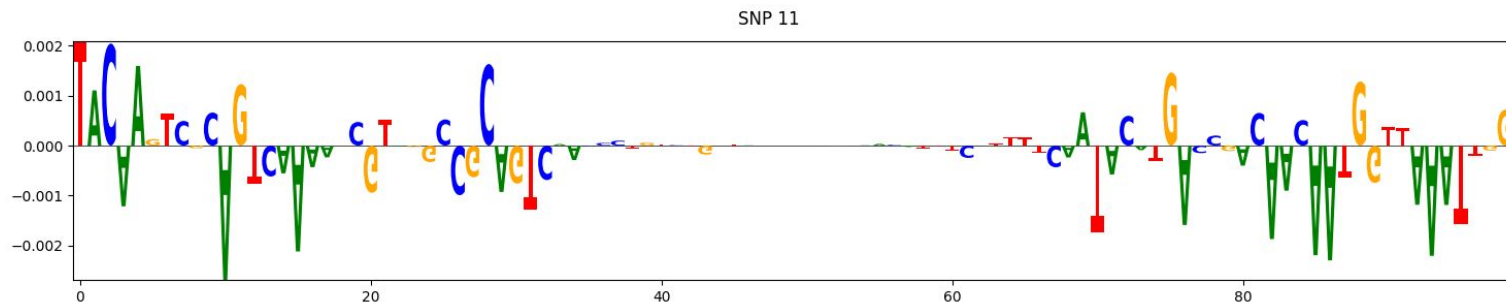
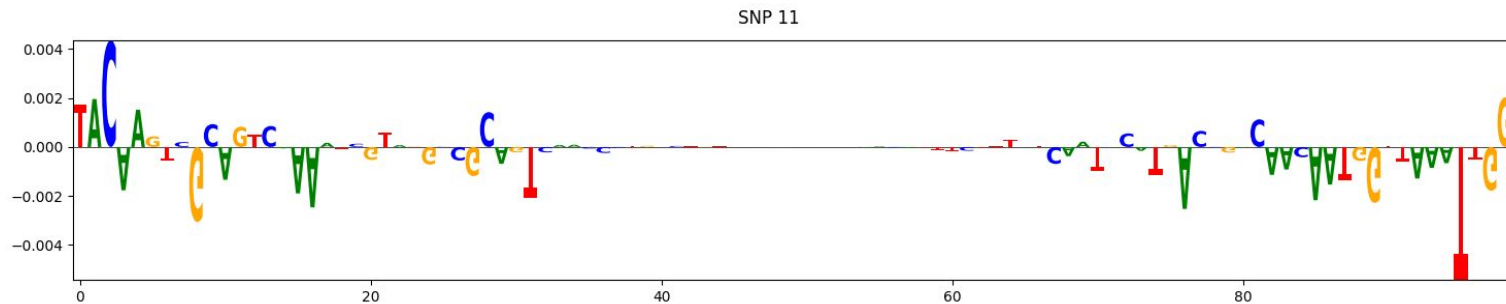
SNP 10 - 2 week



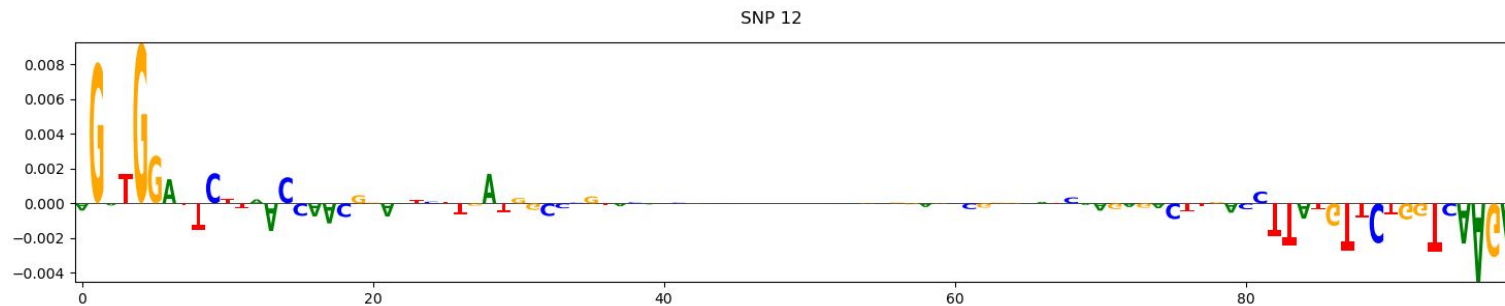
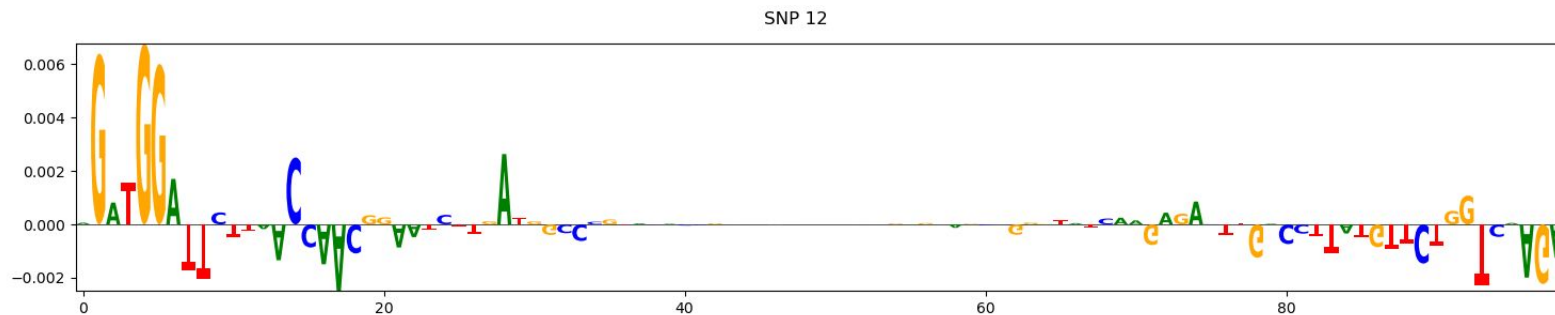
SNP 11 - 8 week



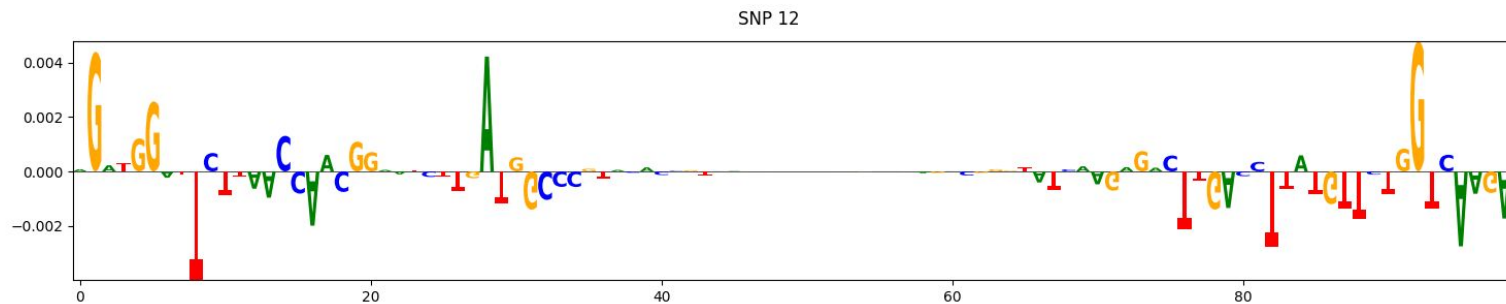
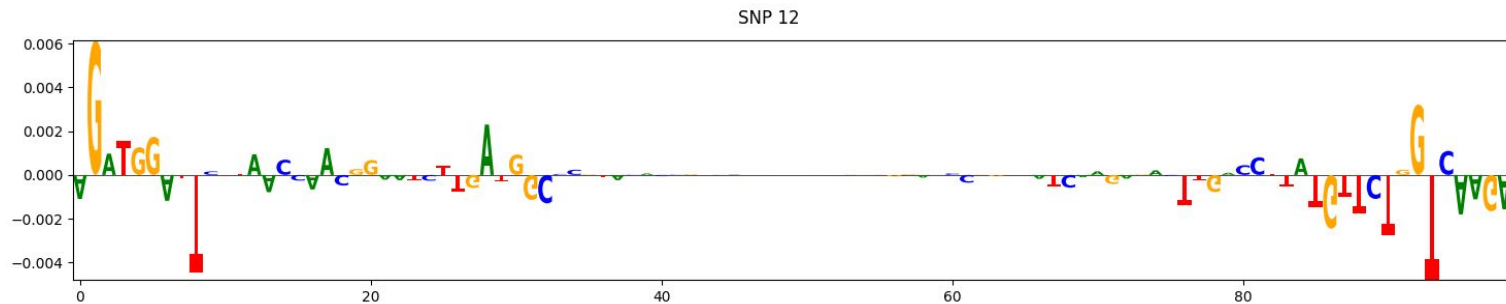
SNP 11 - 2 week



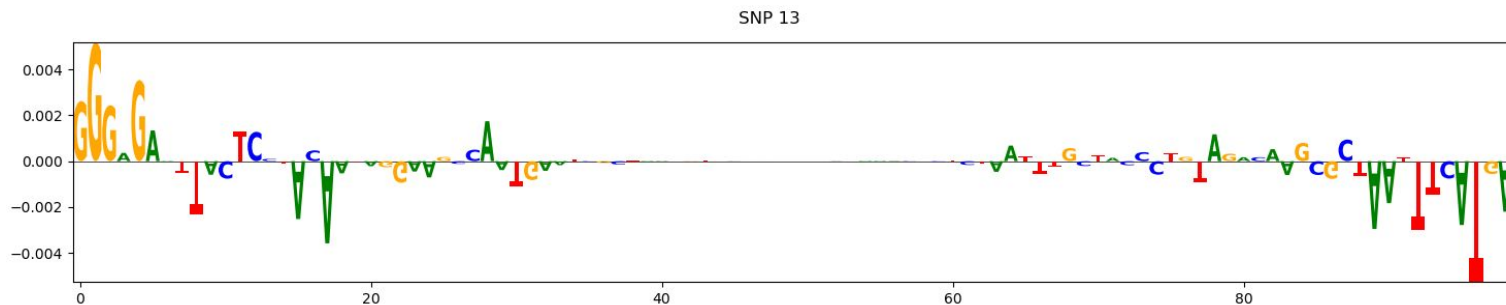
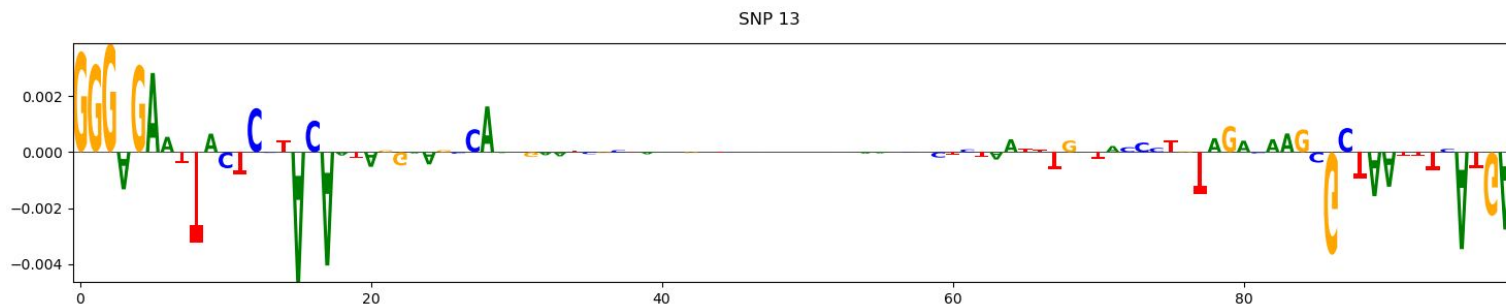
SNP 12 - 8 week



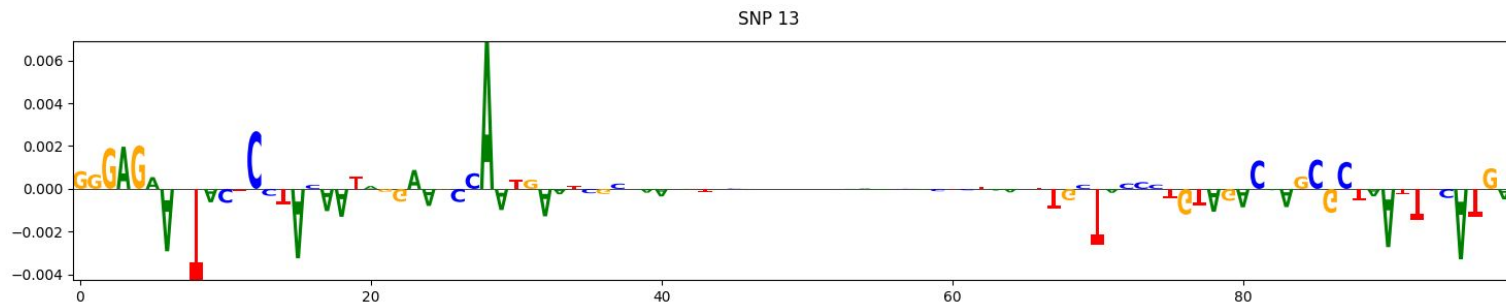
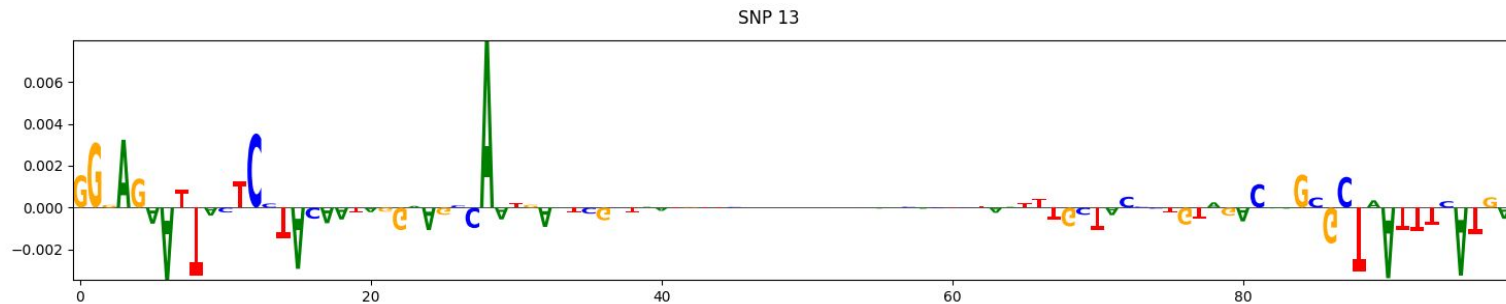
SNP 12 - 2 week



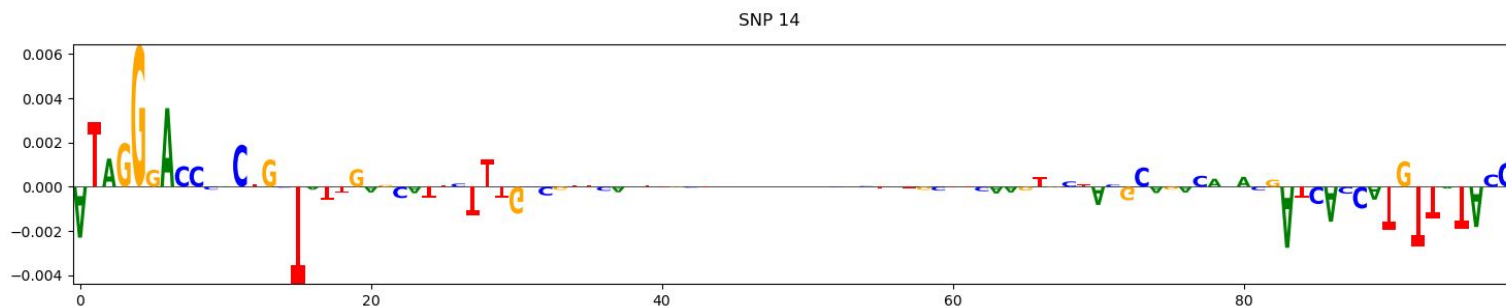
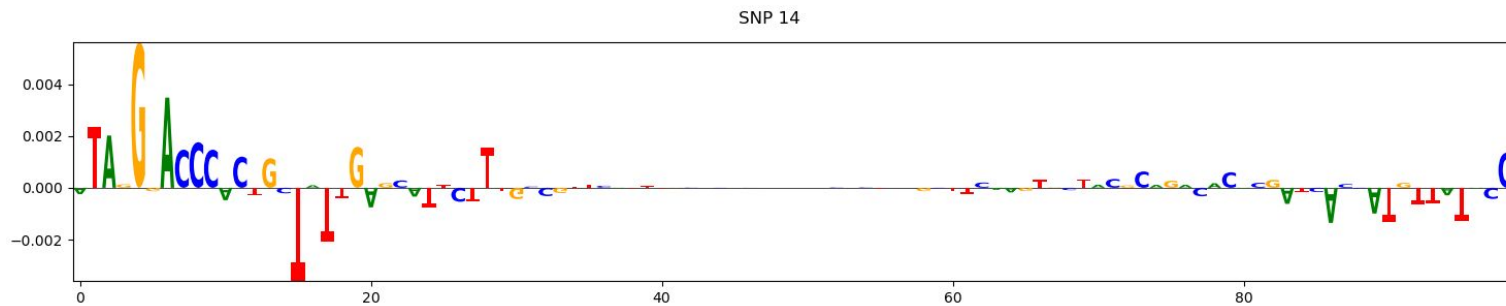
SNP 13 - 8 week



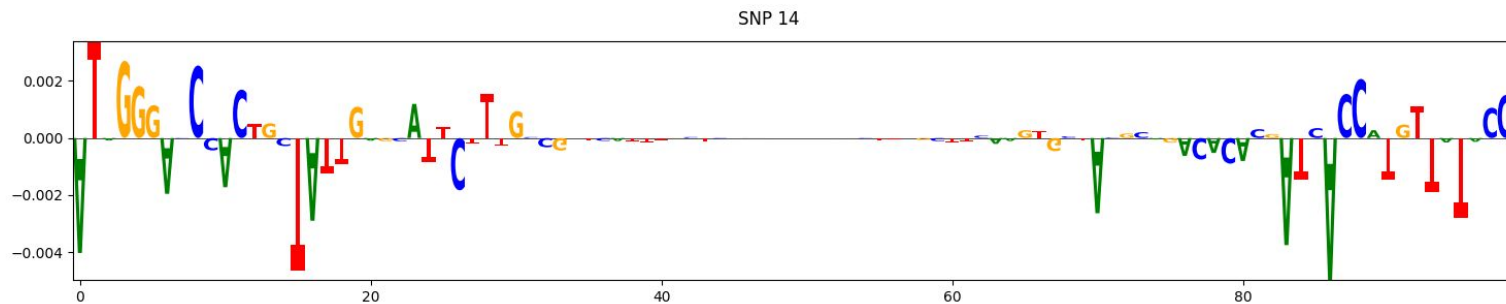
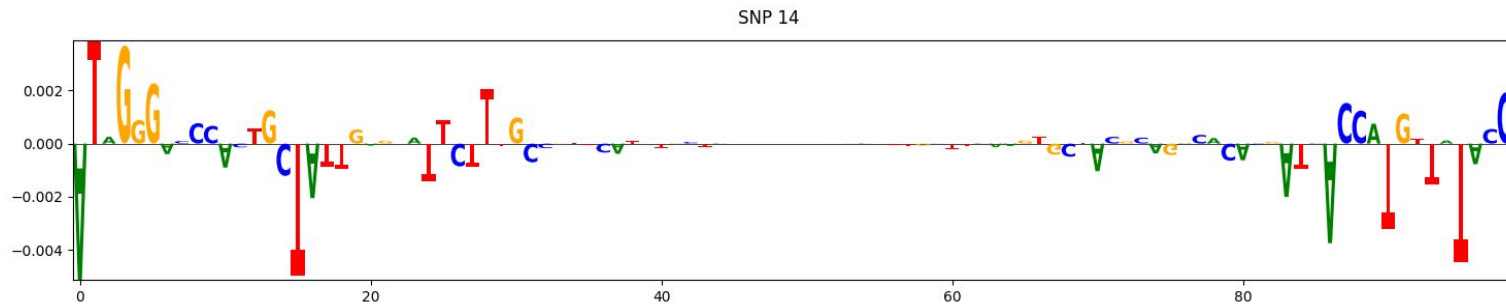
SNP 13 - 2 week



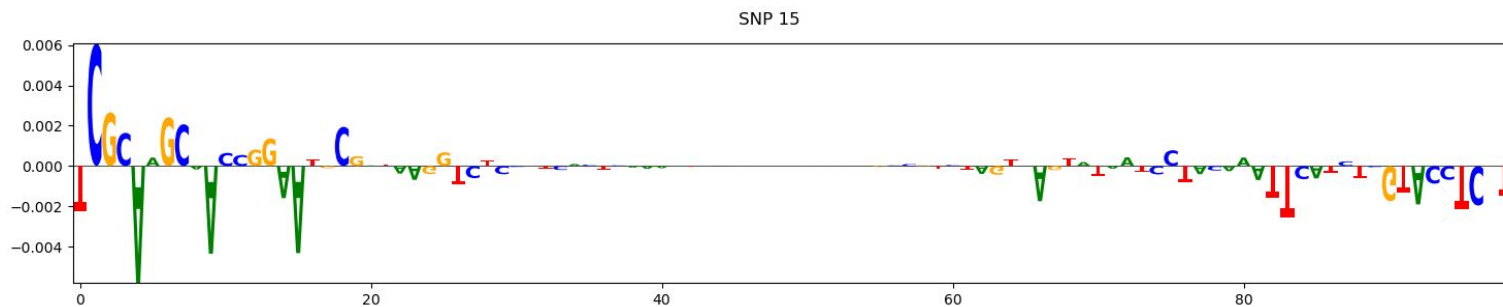
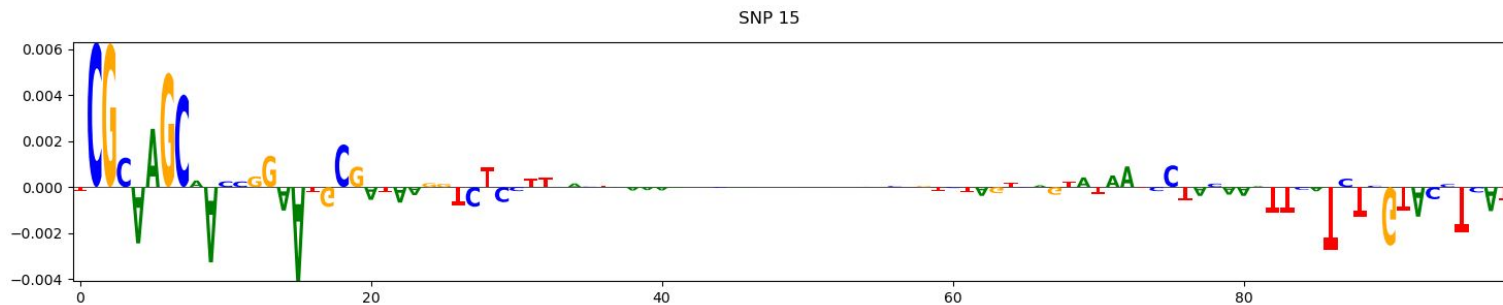
SNP 14 - 8 week



SNP 14 - 2 week



SNP 15 - 8 week



SNP 15 - 2 week

