



Figure S4 **A)** Occurrence in mouse promoters compared to the genome of all split 8-mer containing two CGs separated by 4-bps (N-CG-N₄-CG-N₃) as is observed in the ETS⇌ETS motif which is labeled. **B)** Occurrence in mouse promoters compared to the genome of all split 8-mer containing two CGs separated by 7-bps CG-N₇-CG-N) as is observed in the ETS⇌CRE motif which is labeled. **C-F)** Methylation status in mouse dermal fibroblasts of the 4 ETS⇌CRE 13-mers ^C/CGGAAGTGACG^T/_C. Percent methylations of 1st and 2nd CpGs are plotted for each 4 motifs. The majority of occurrences have no CpG methylation on either CpG. **G)** Methylation of 1st and 2nd CGs for the 13-mer CACGCACACACCG with pairs of CpG separated by 7-bps showing both the CpGs in the motif are mostly methylated in dermal fibroblasts.