



Supplementary Figure S11: **Enriched motifs for regions changing prior to gene expression trends.** Two motifs are enriched for regions changing prior to gene expression trends ($E\text{-value} \leq 0.05$). Out of the two motifs, the upper one does not have significant transcription factor enrichment based on Tomtom ($q\text{-value} \leq 0.05$). The lower motif has four transcription factors enriched: CTCF ($q\text{-value} = 8.86\text{e-}08$), CTCFL ($q\text{-value} = 8.94\text{e-}06$), ZIC2 ($q\text{-value} = 4.29\text{e-}02$), ZIC3 ($q\text{-value} = 4.29\text{e-}02$).