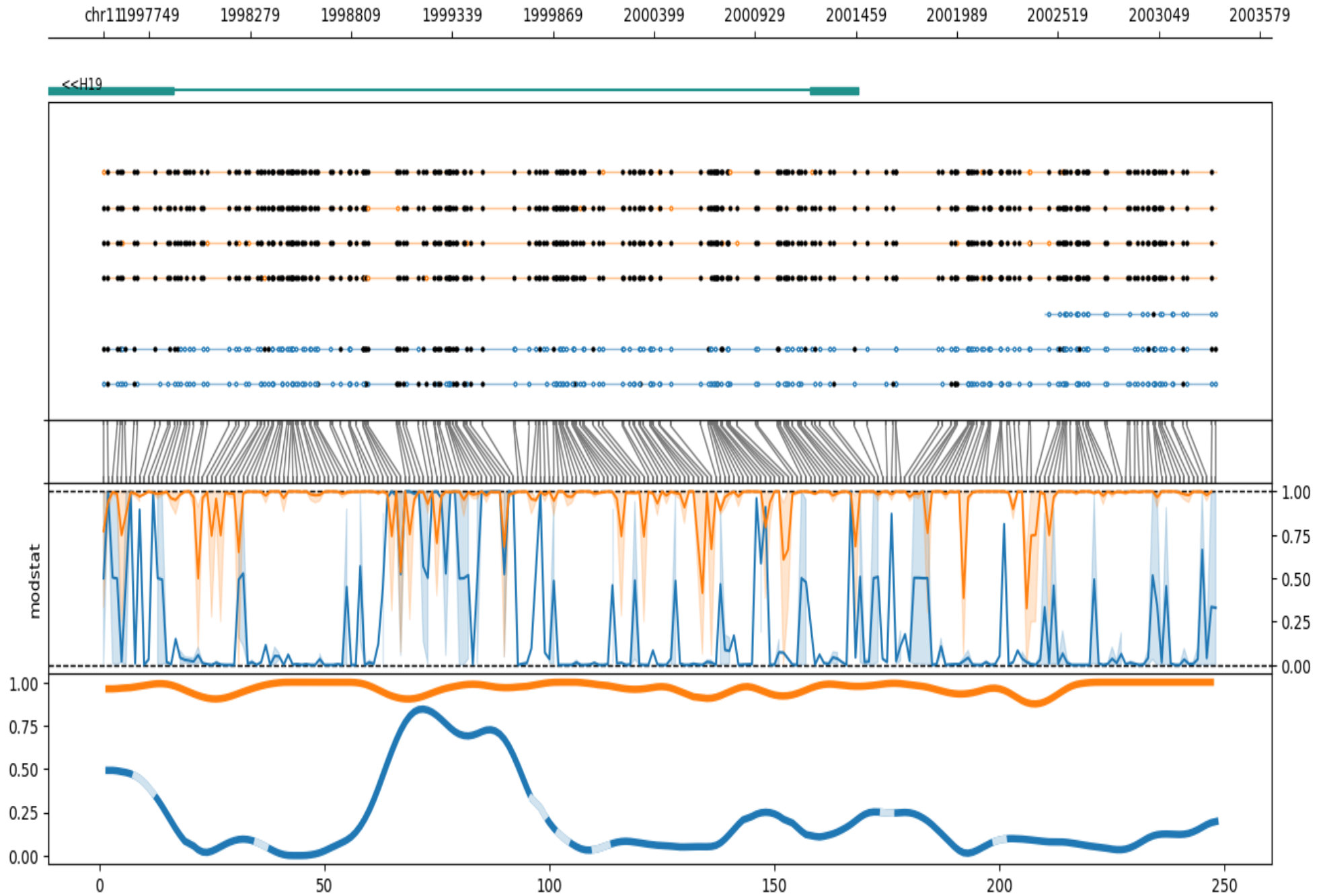


Additional file 4: Fig. S1.

Differentially methylated regions : visualization.

Phased nanopore sequencing methylation levels at the same 6 imprinted loci in blood of all patients, as well as the *AR*, *RP2*, and *PHF6* genes, in blood of all female patients (including the urine and buccal swab samples of EPI_13 for the loci on chromosome X). Orange and blue represent the two different haplotypes of each sample. In the upper part of each Methylartist plot [18], the genome coordinates, genes and reads are illustrated. On each read, modified bases are represented by full, dark circles, unmodified bases by open circles. In the lower part of the plot, after translation from genome to CpG-only coordinate space, raw log-likelihood ratios are plotted above a smoothed graph of methylation fraction.

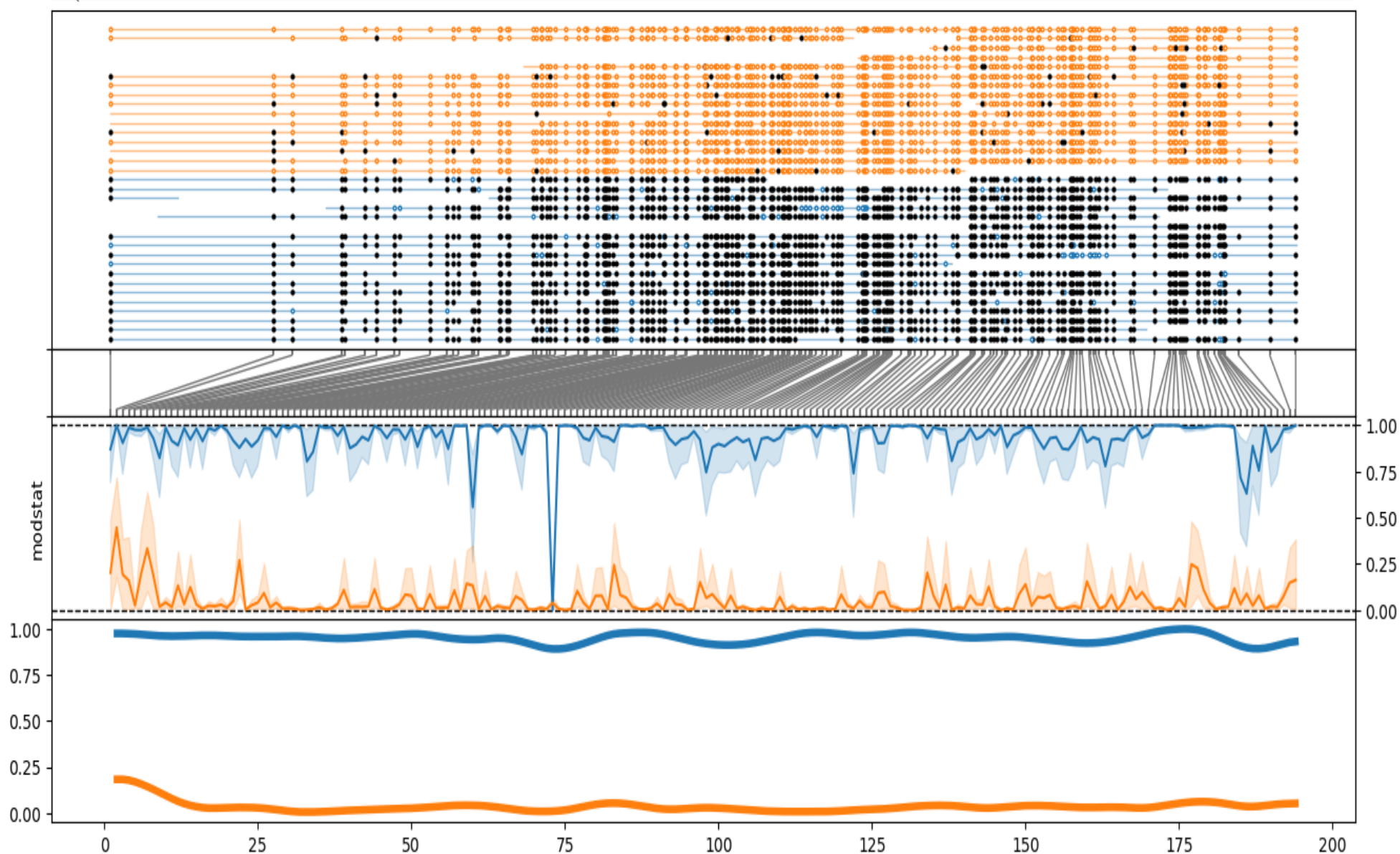
EPI_01_hg38_phased_chr11_1997509_2003349



EPI_01_hg38_phased_chr11_2698155_2701028

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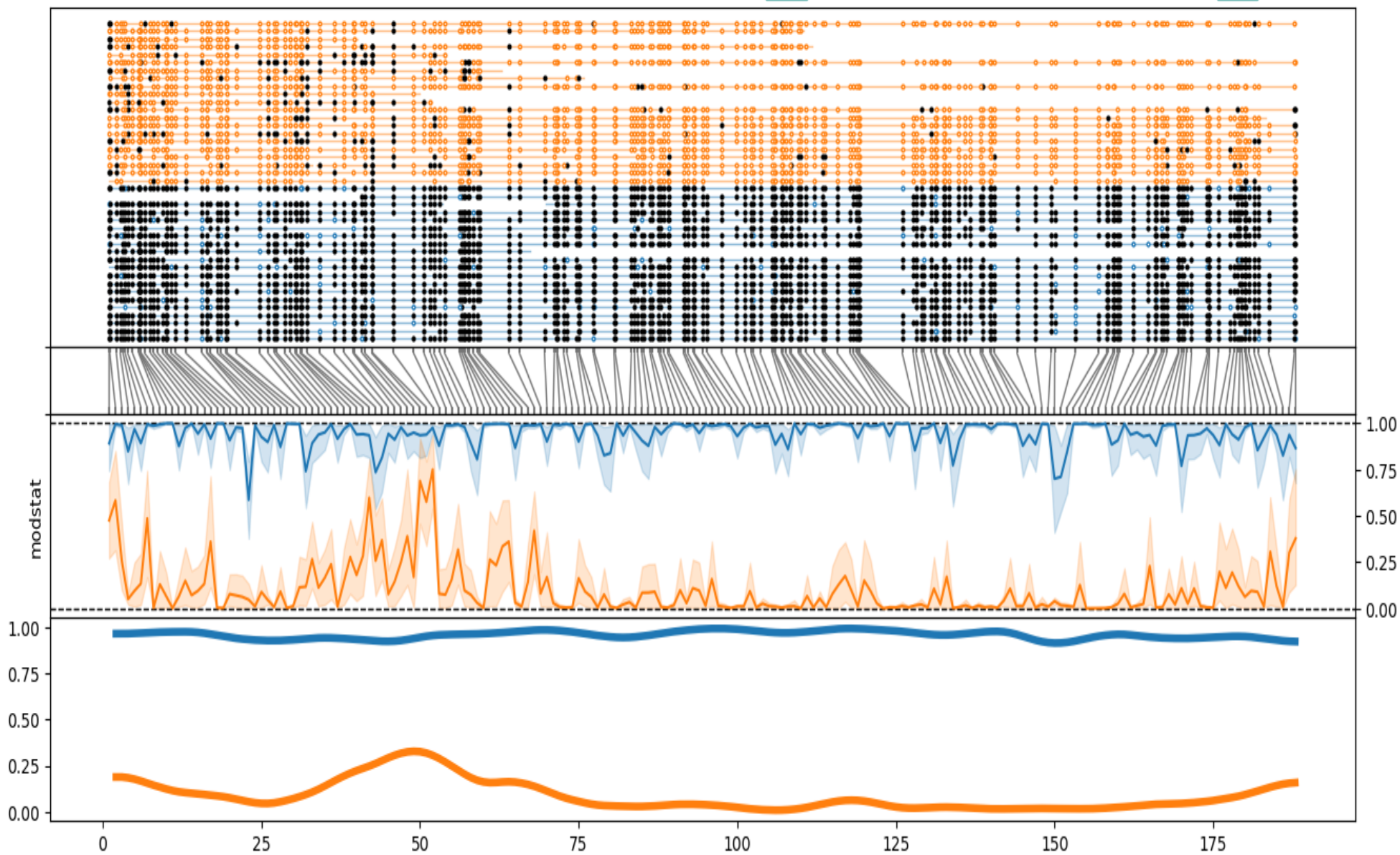
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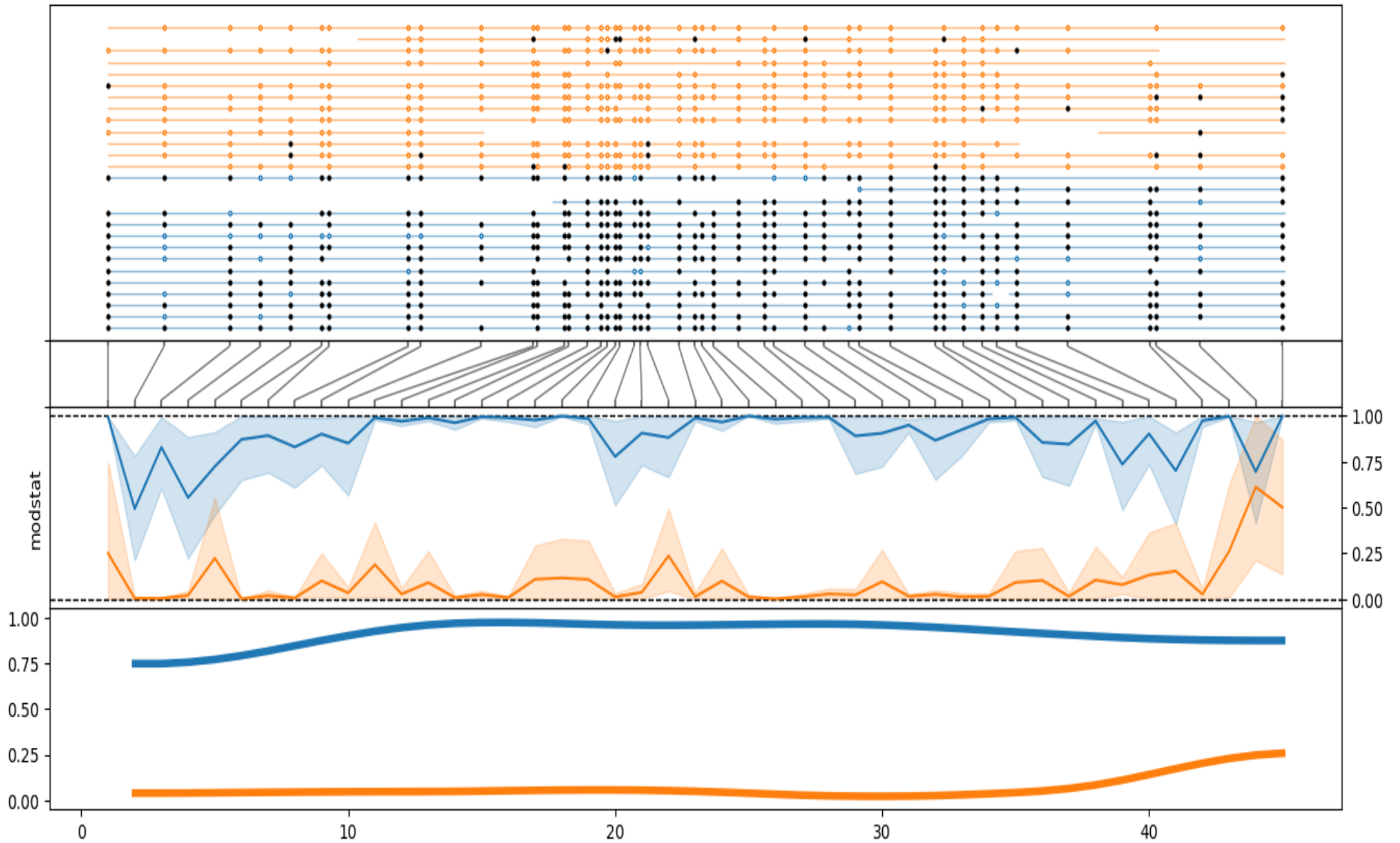
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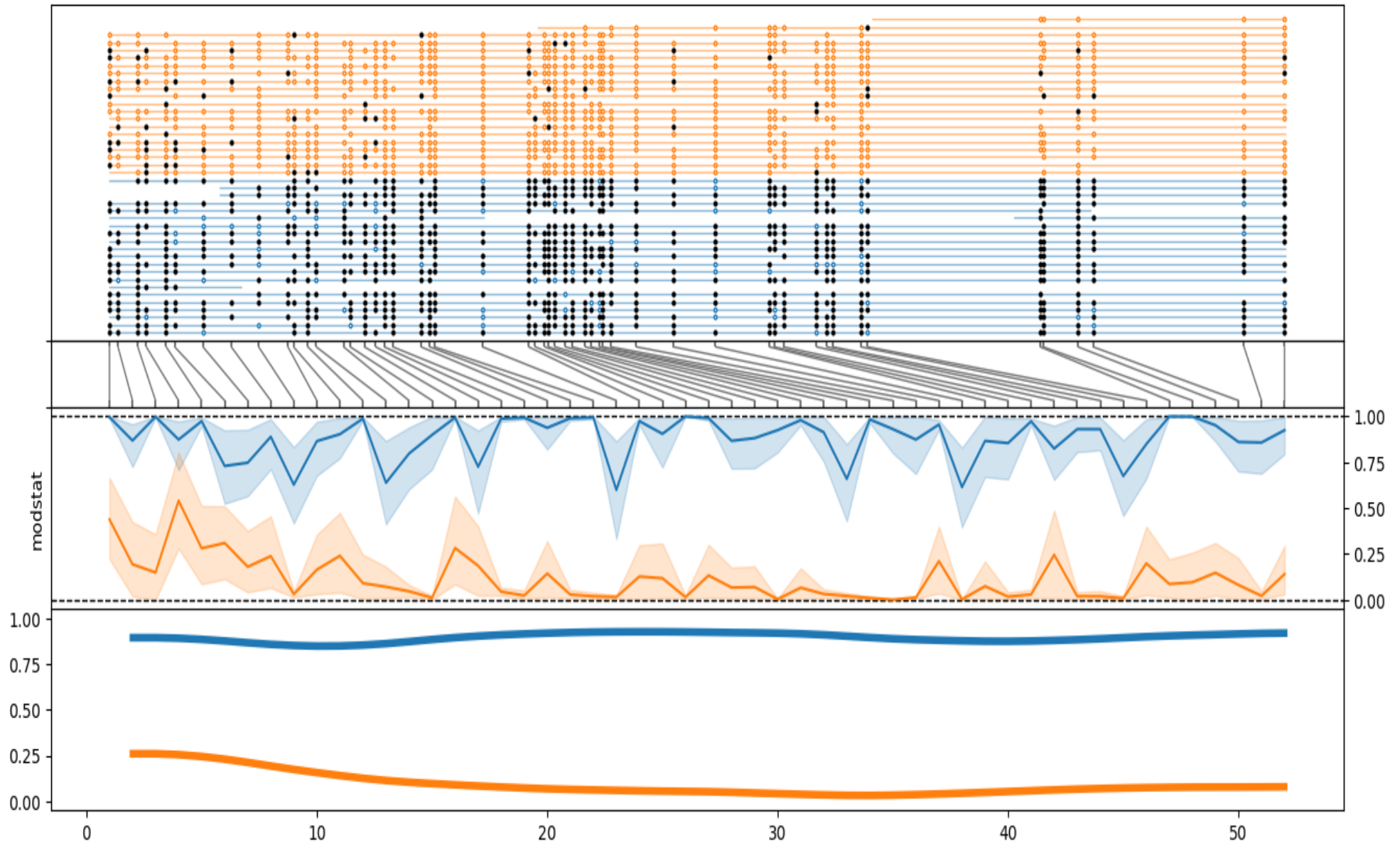
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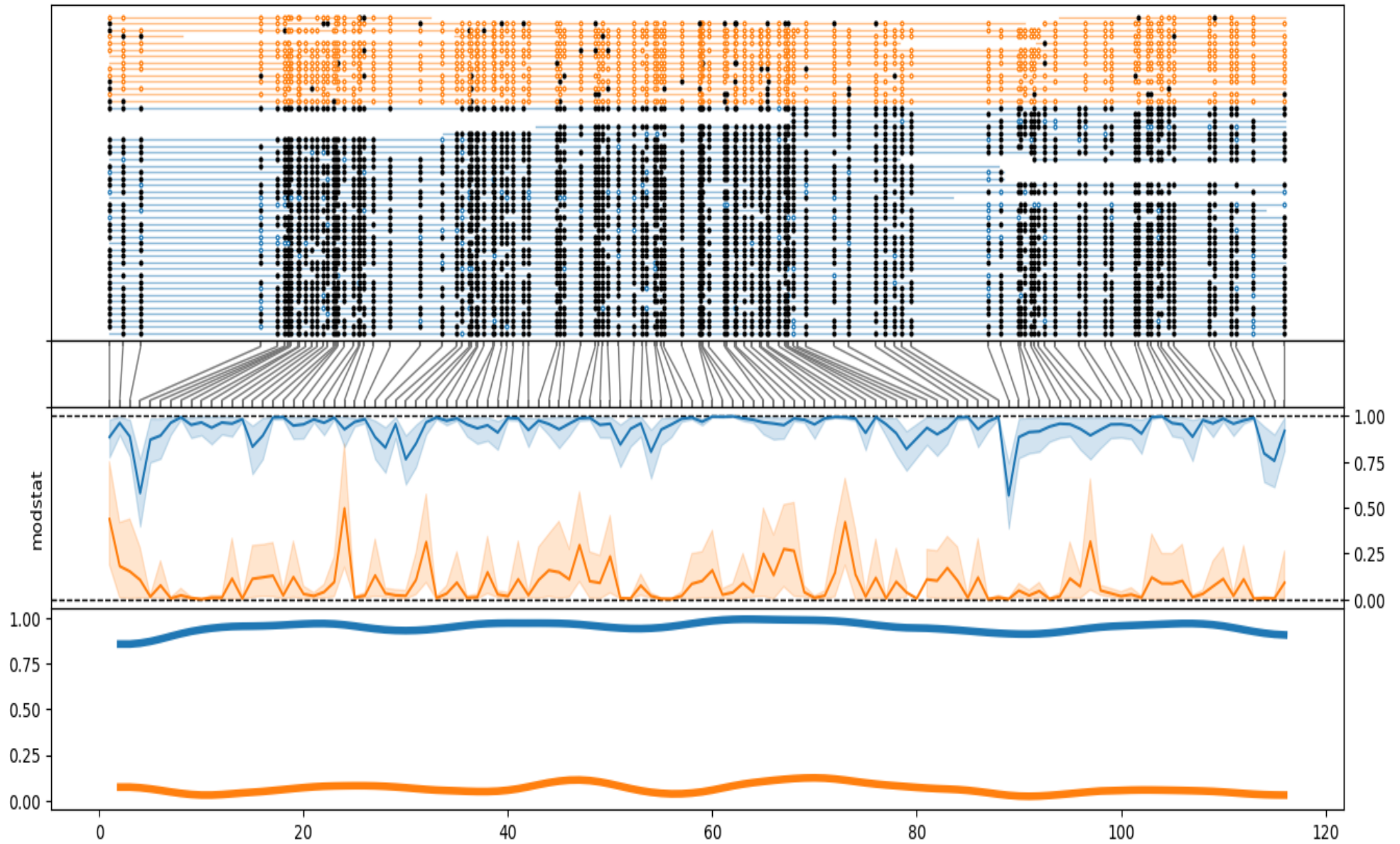
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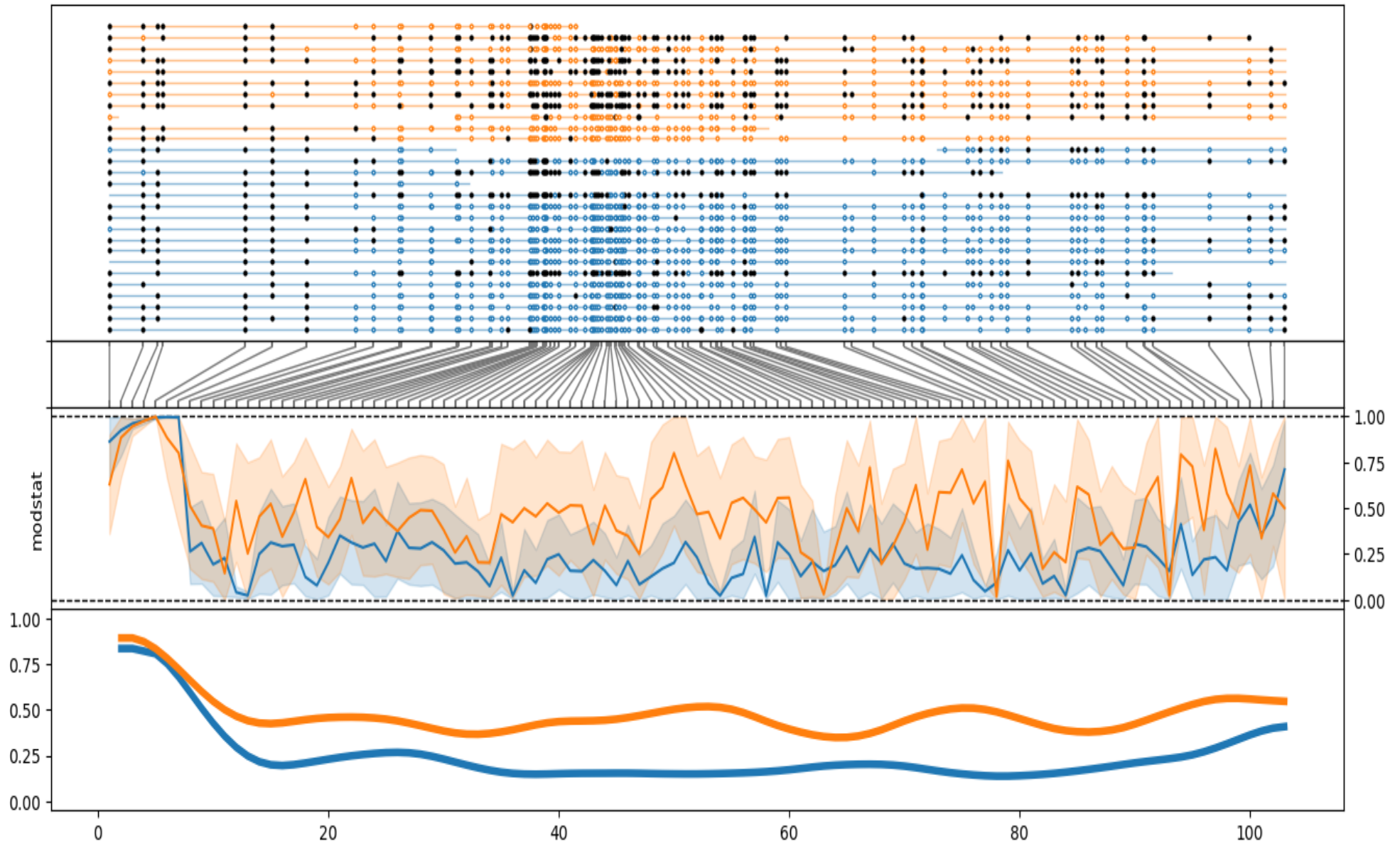
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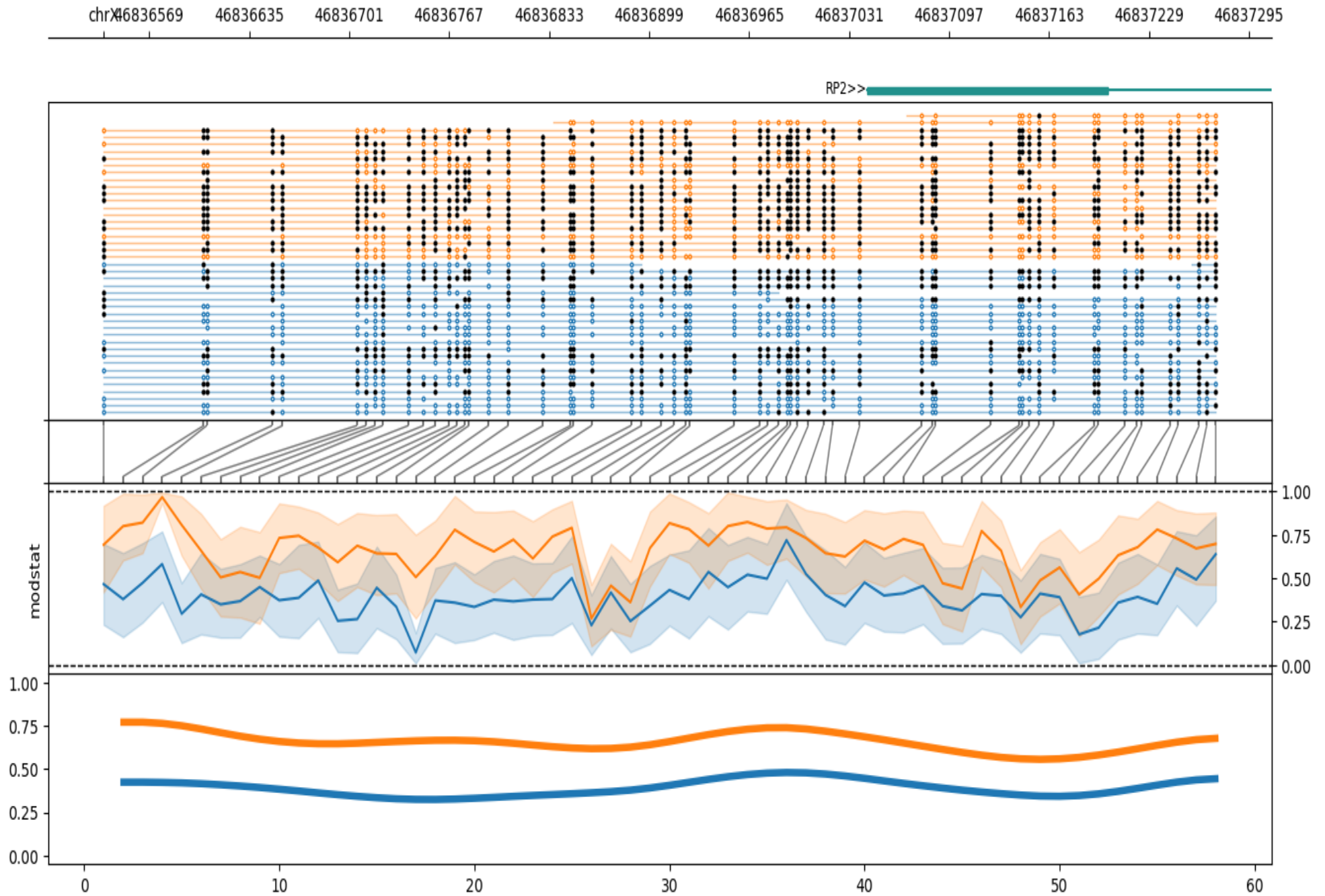
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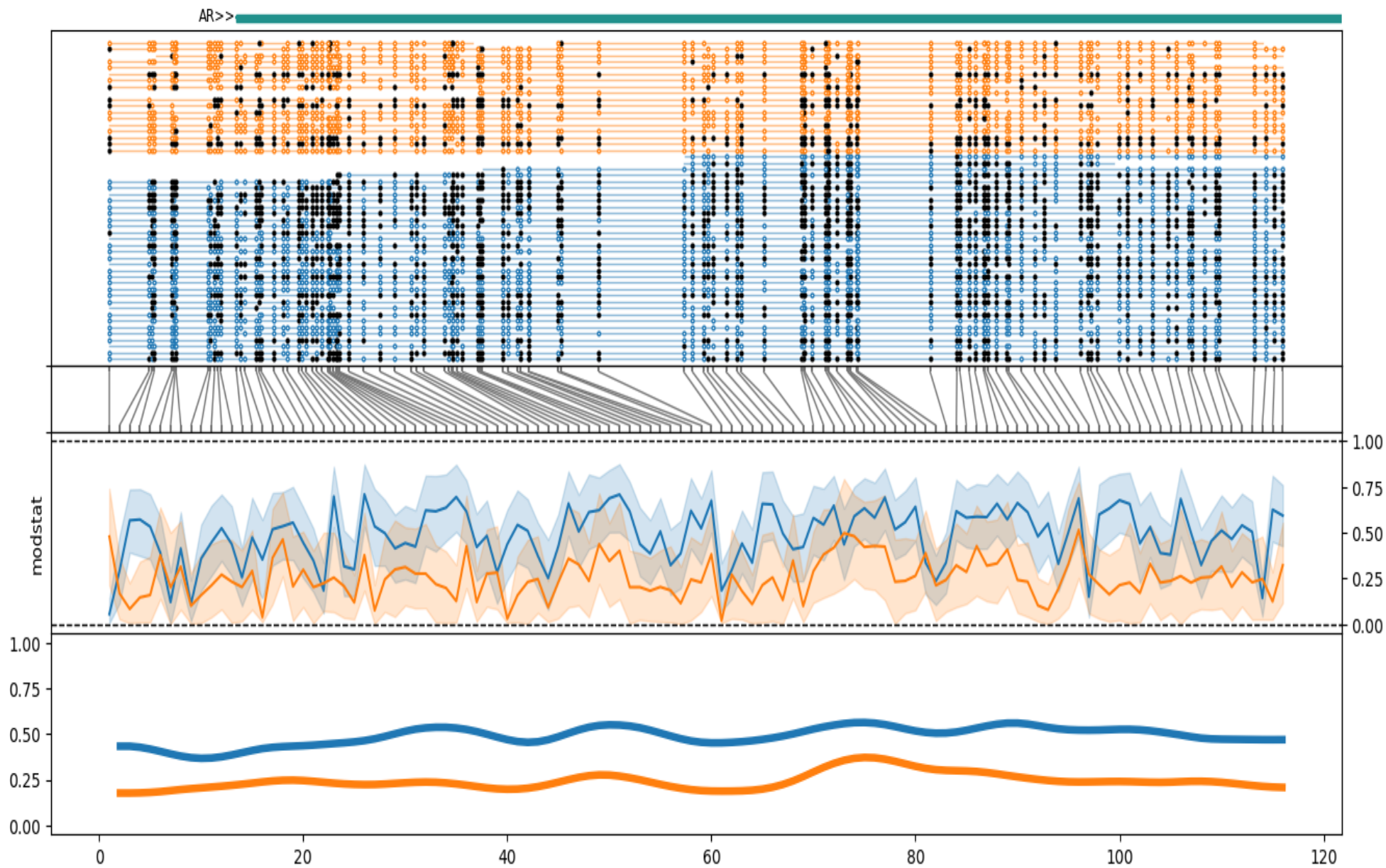


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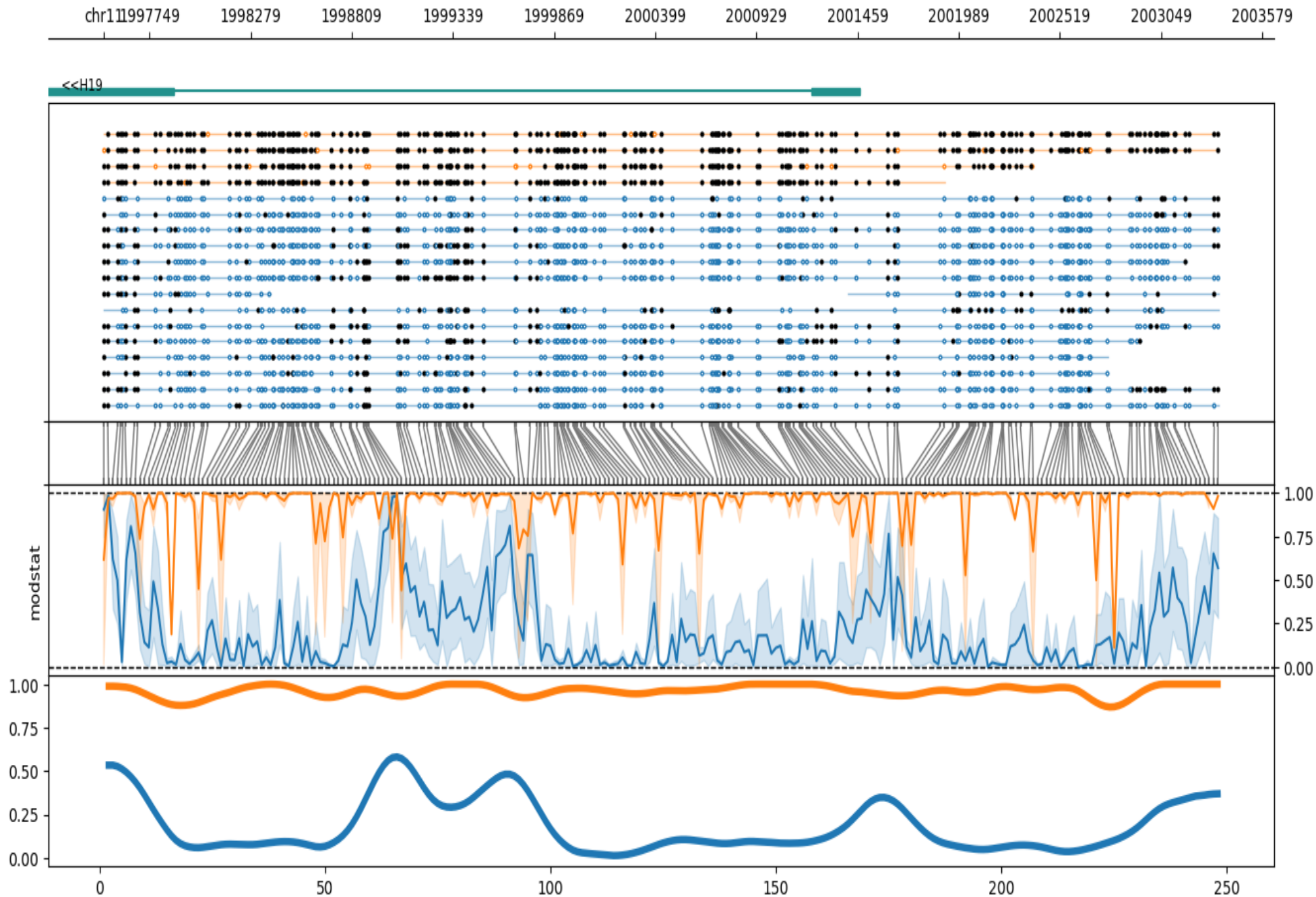


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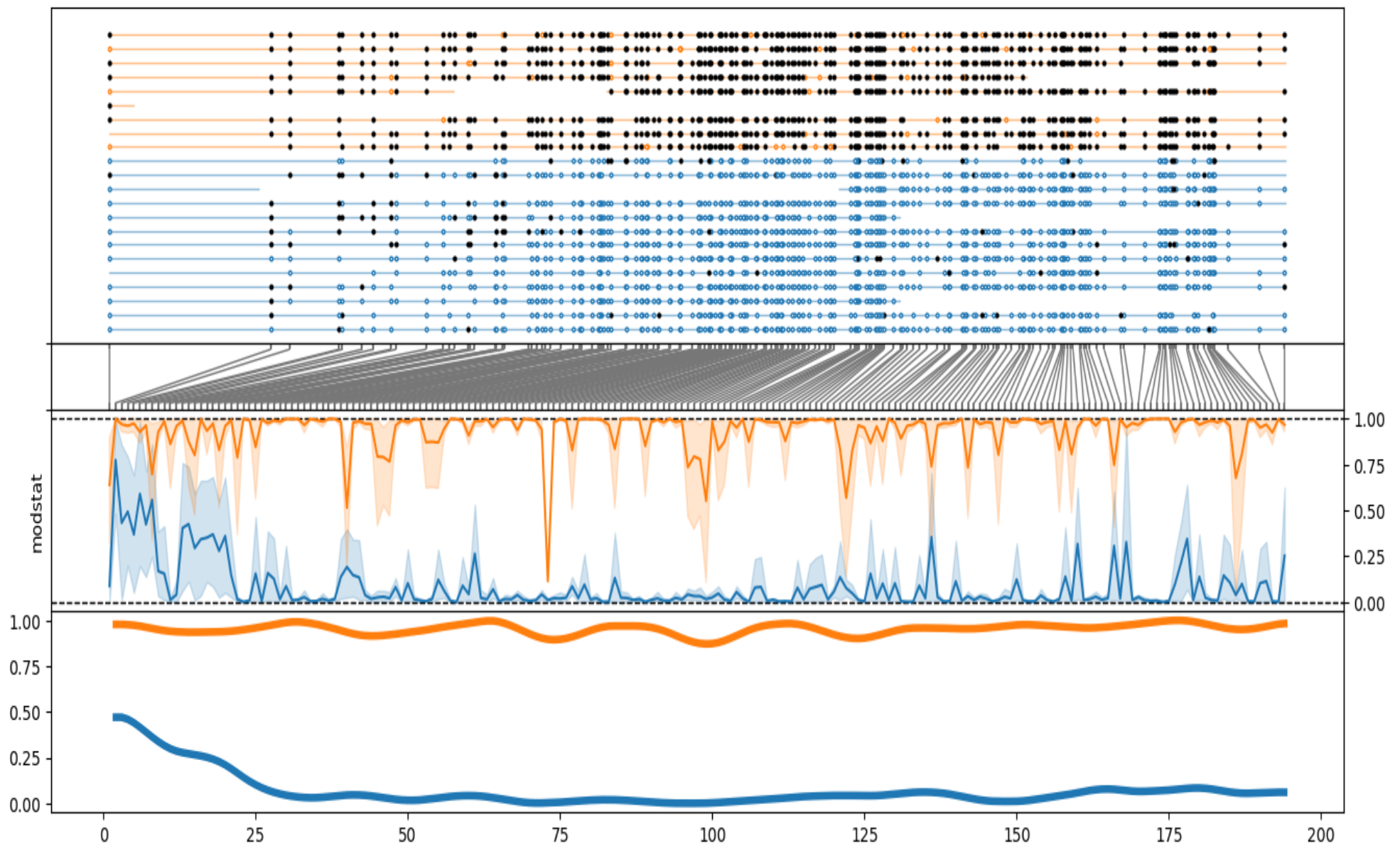
EPI_02_hg38_phased_chr11_1997509_2003349



EPI_02_hg38_phased_chr11_2698155_2701028

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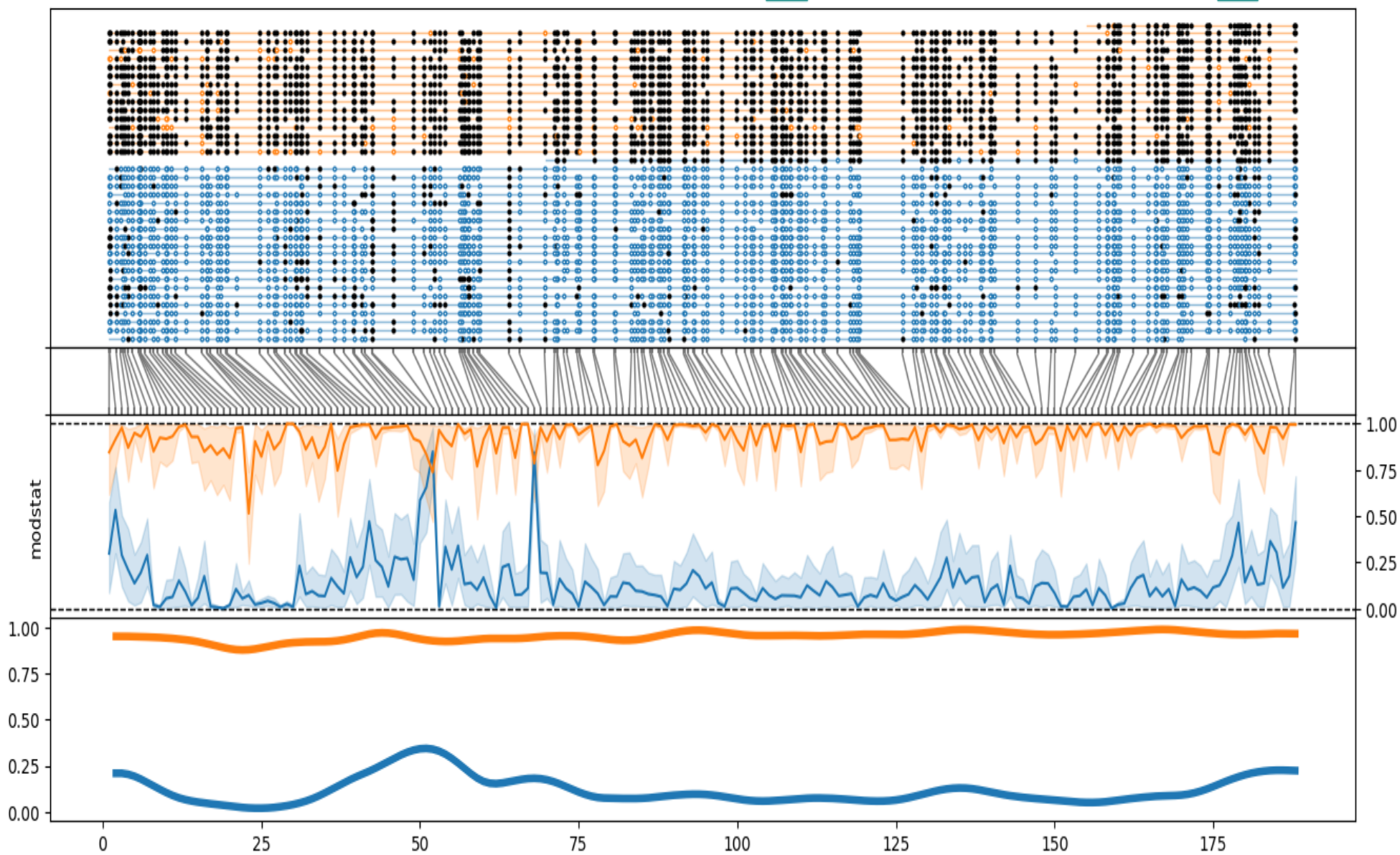
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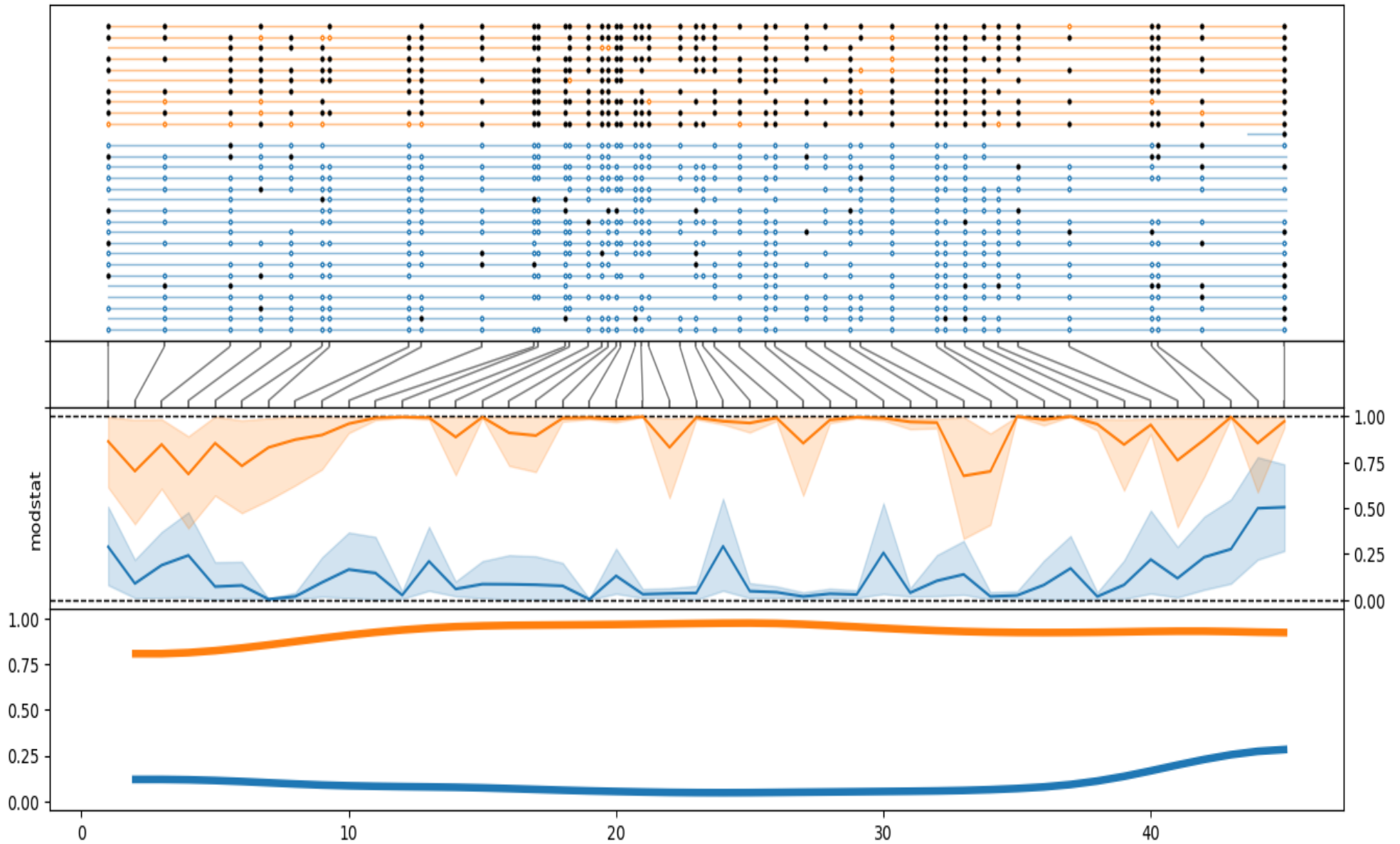
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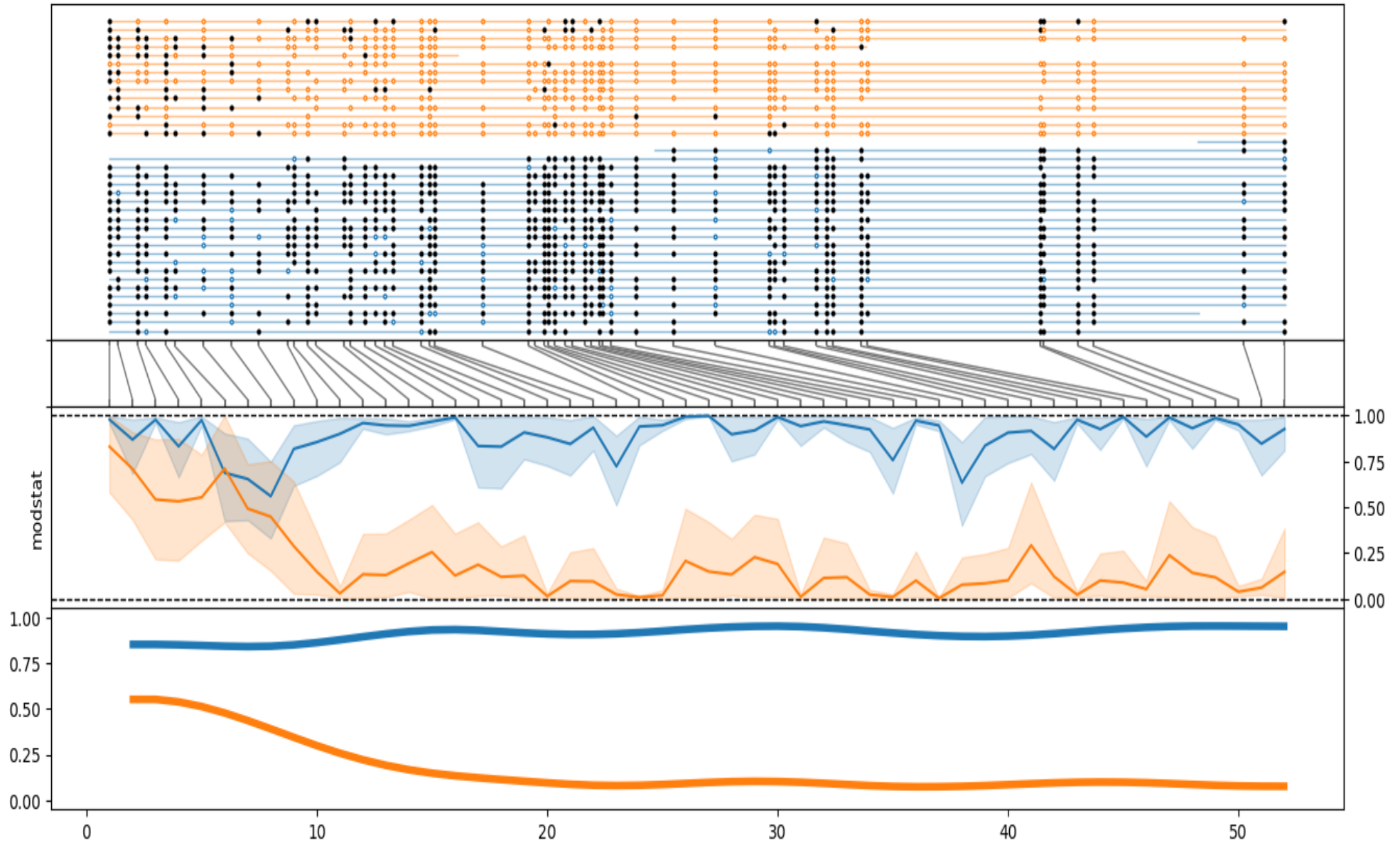
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EPI_02_hg38_phased_chr15_23647178_23648424

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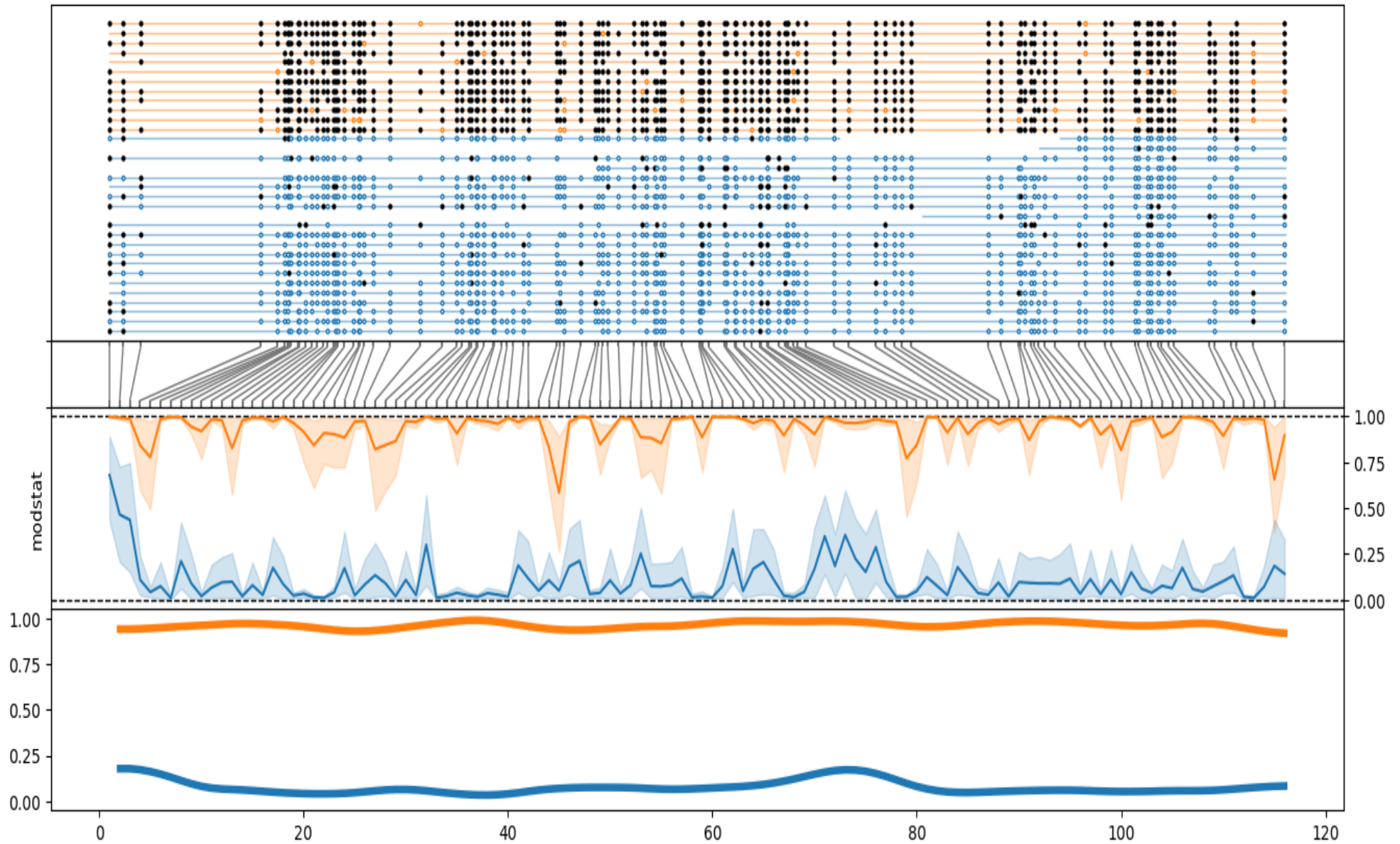
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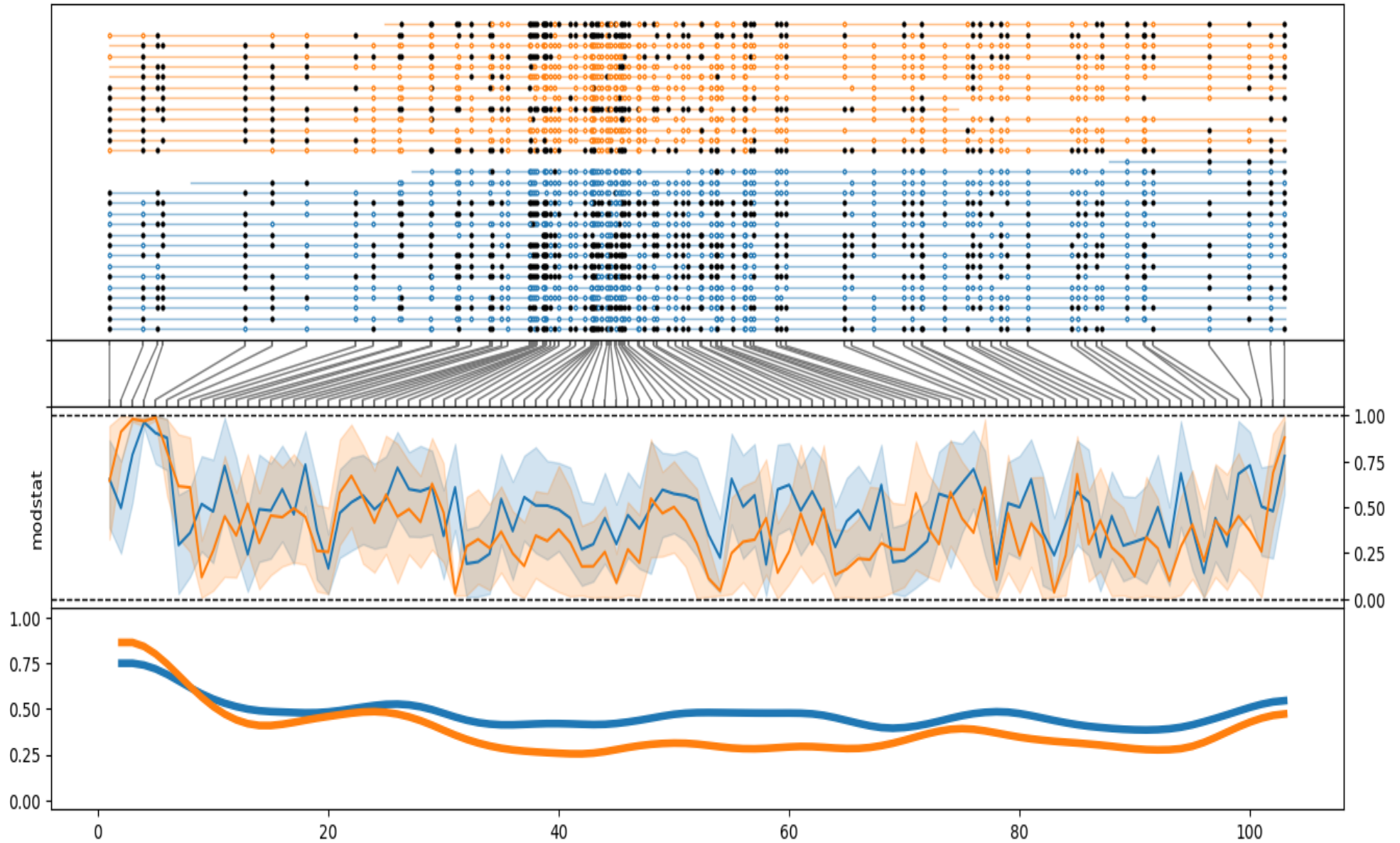
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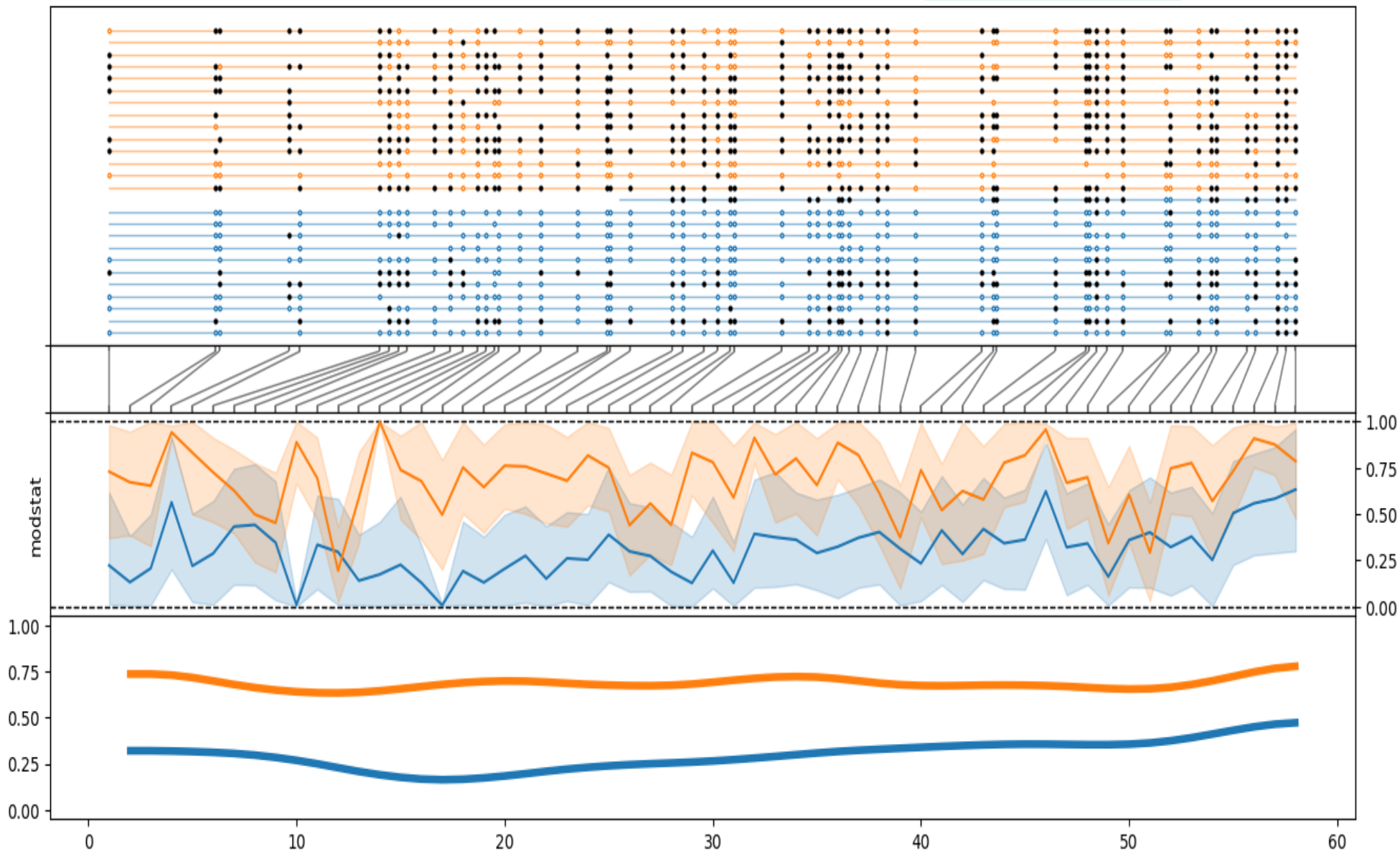
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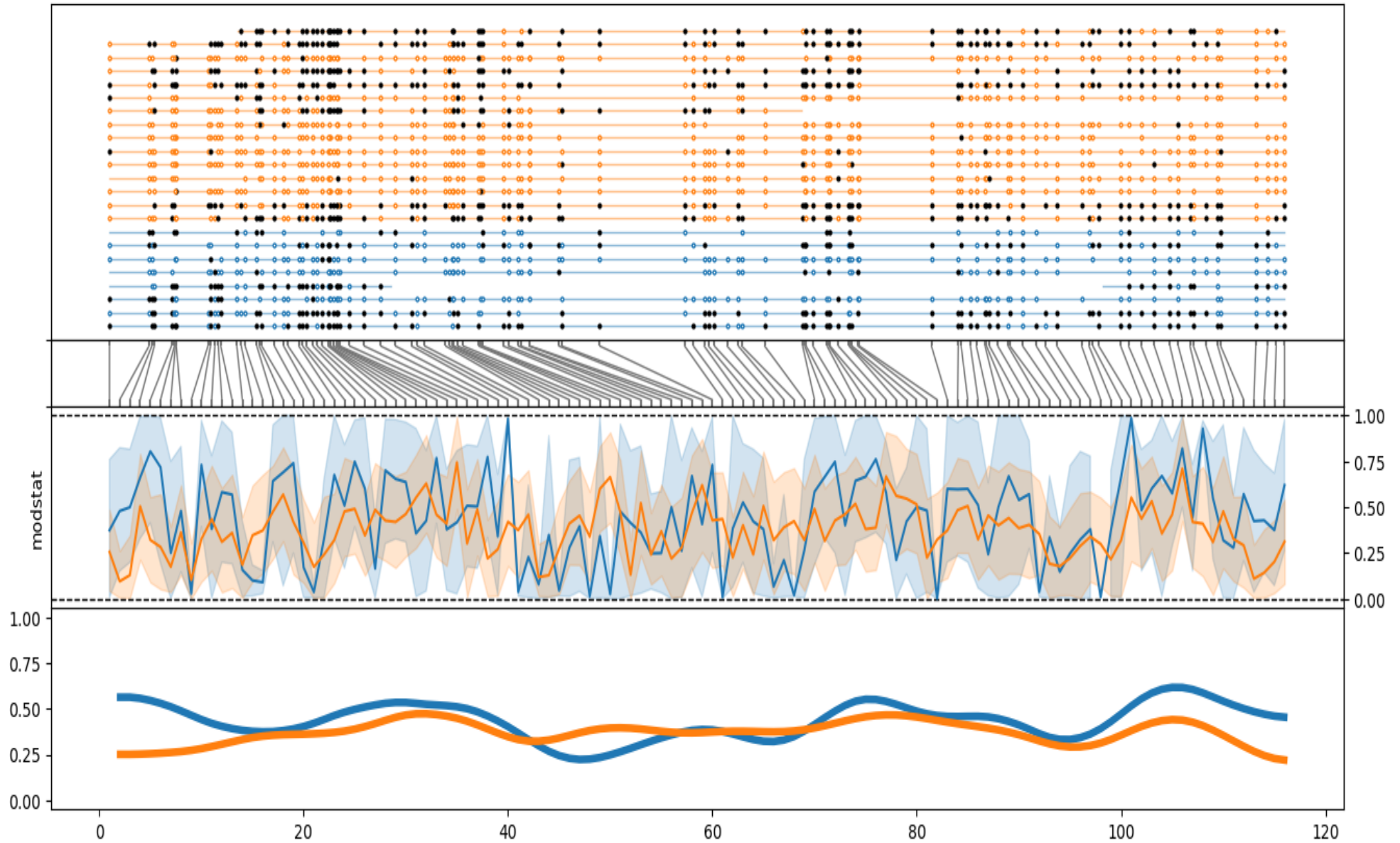
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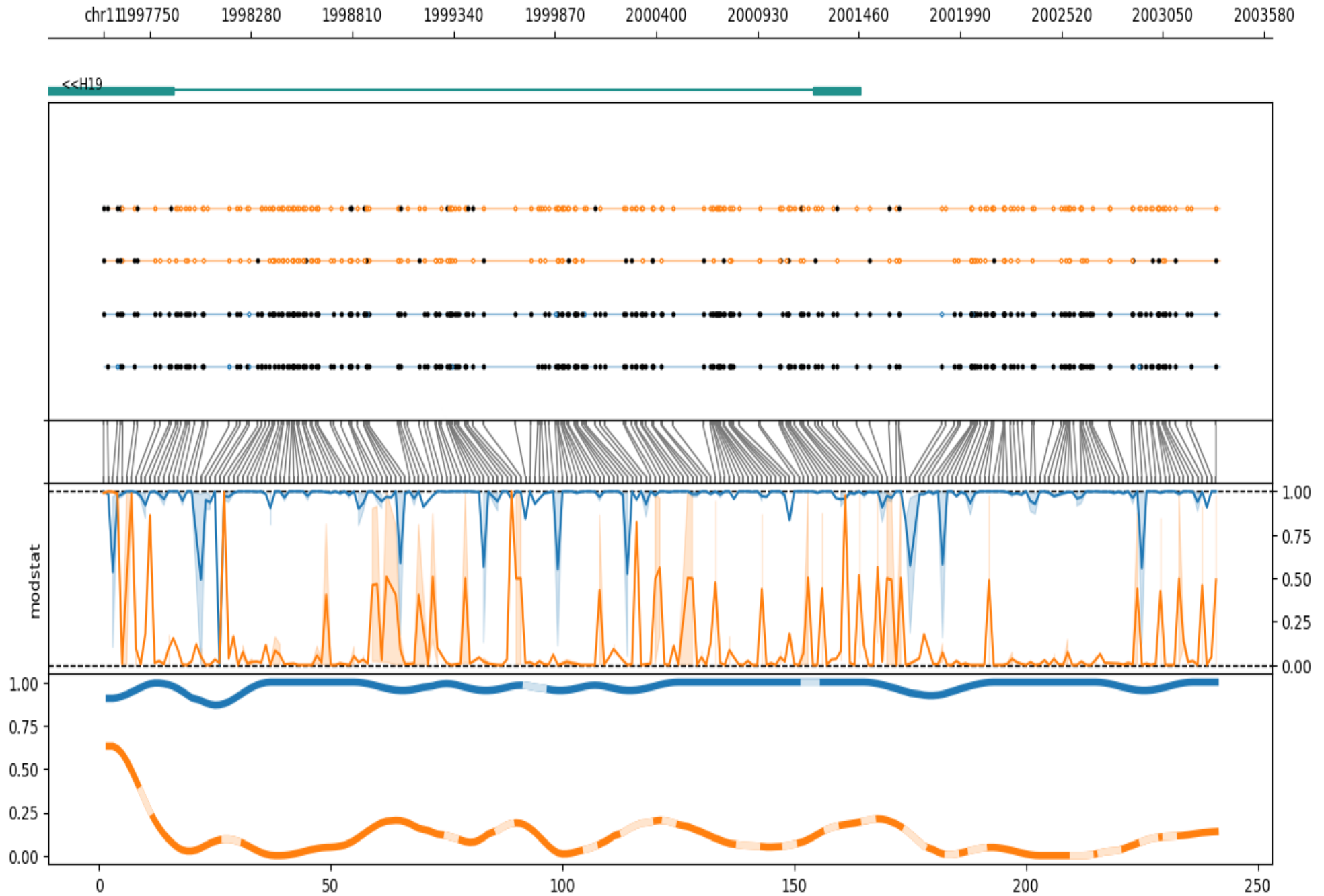
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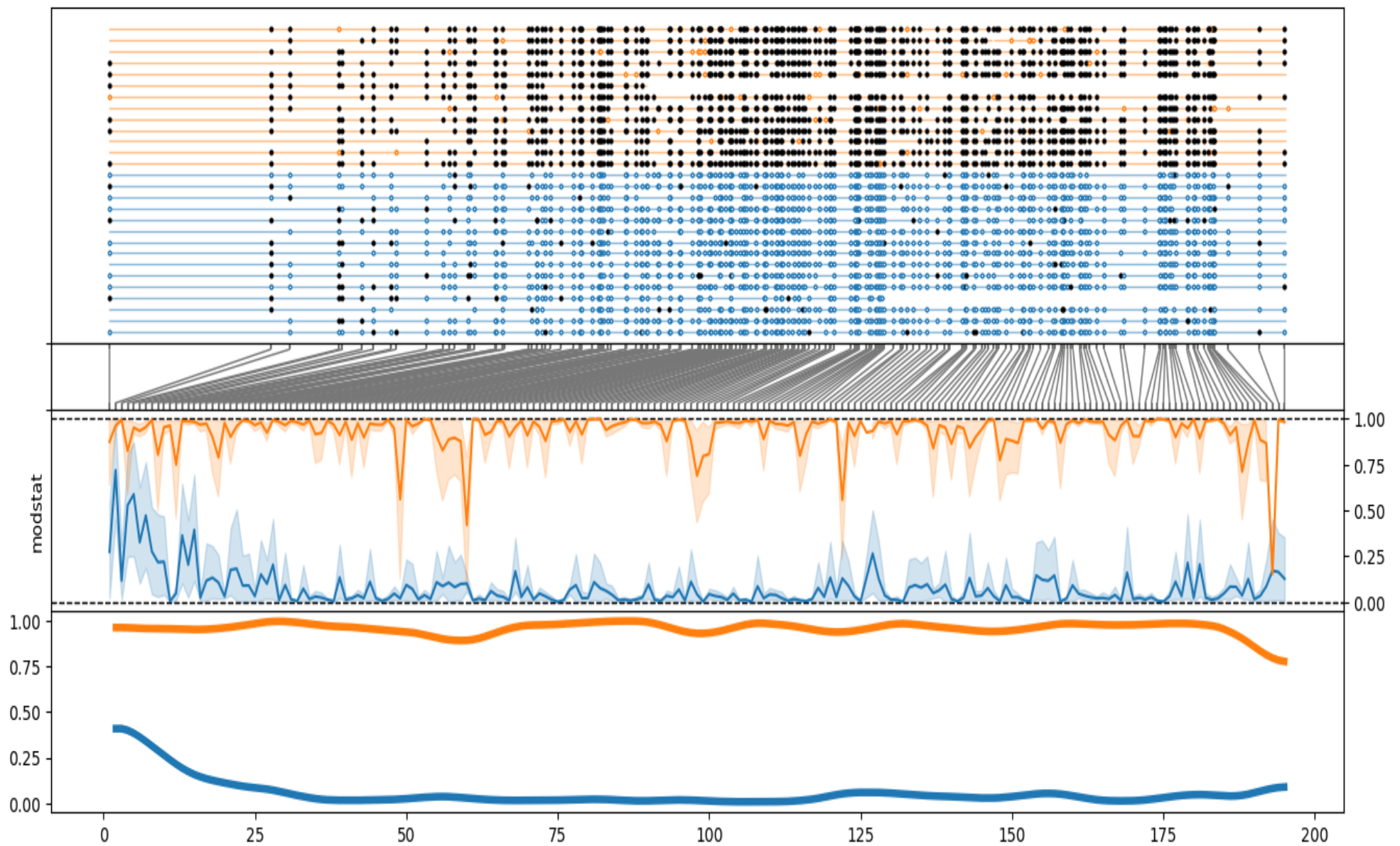
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EPI_03_hg38_phased_chr11_2698155_2701028

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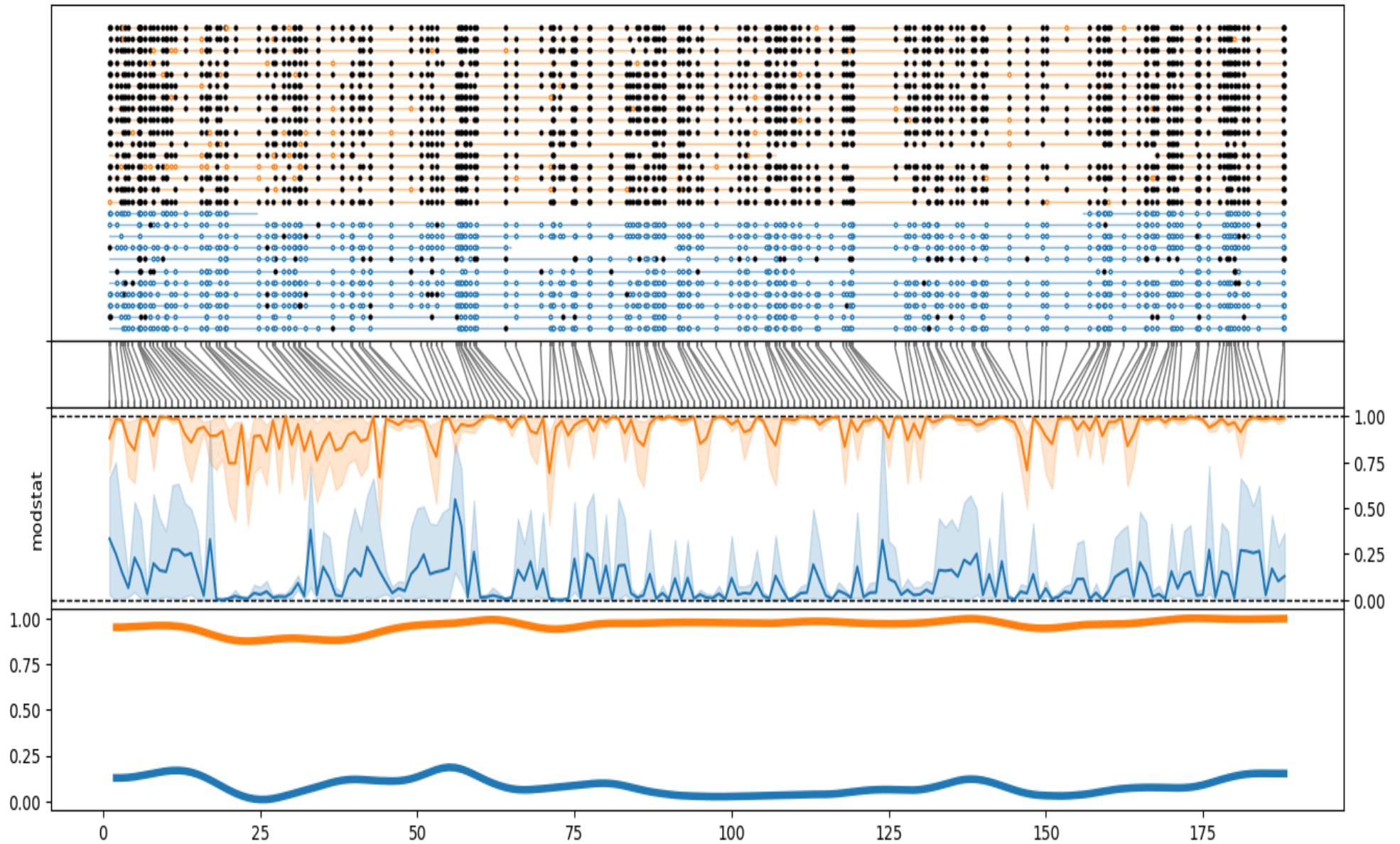
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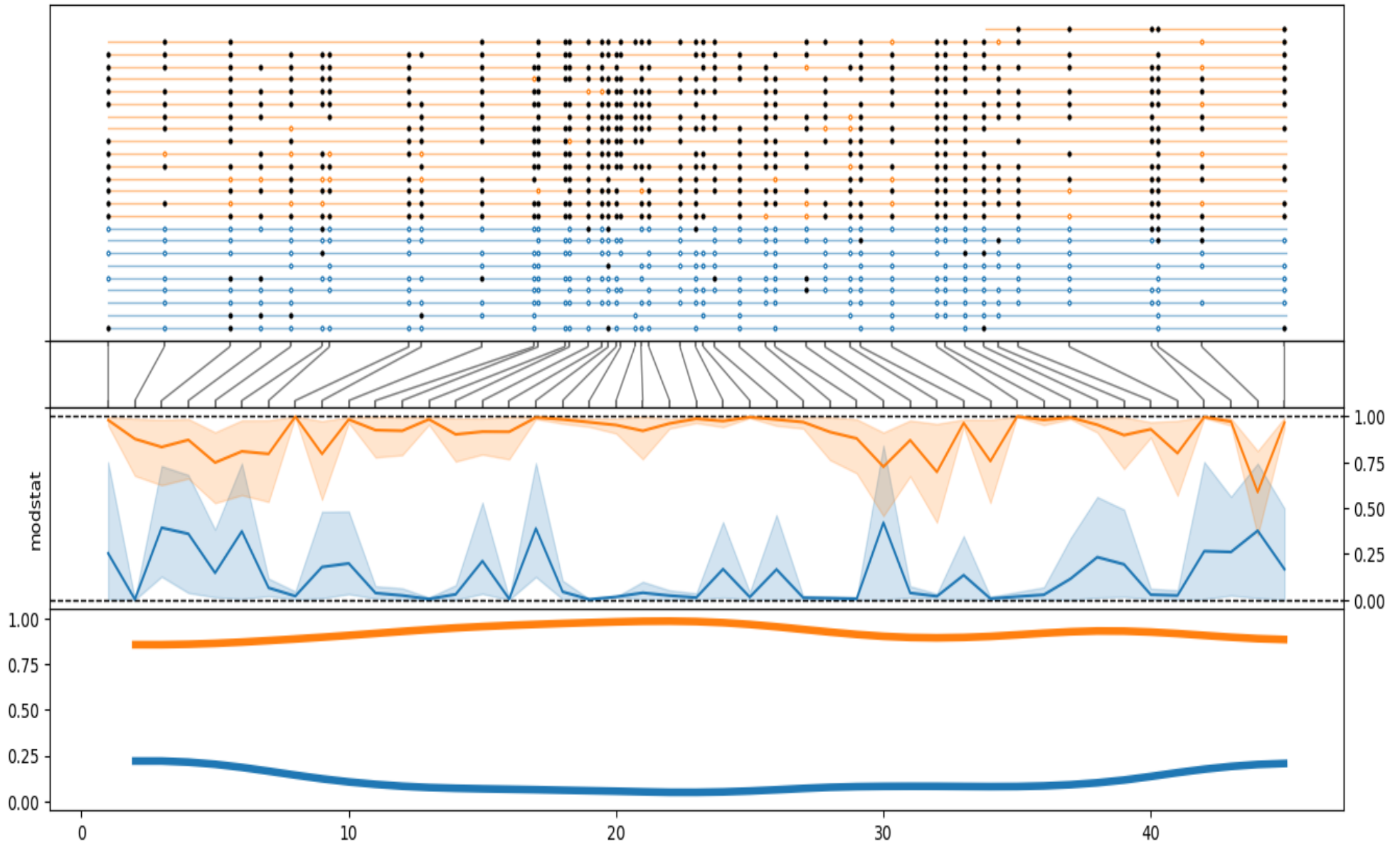
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EPI_03_hg38_phased_chr14_100904325_100905081

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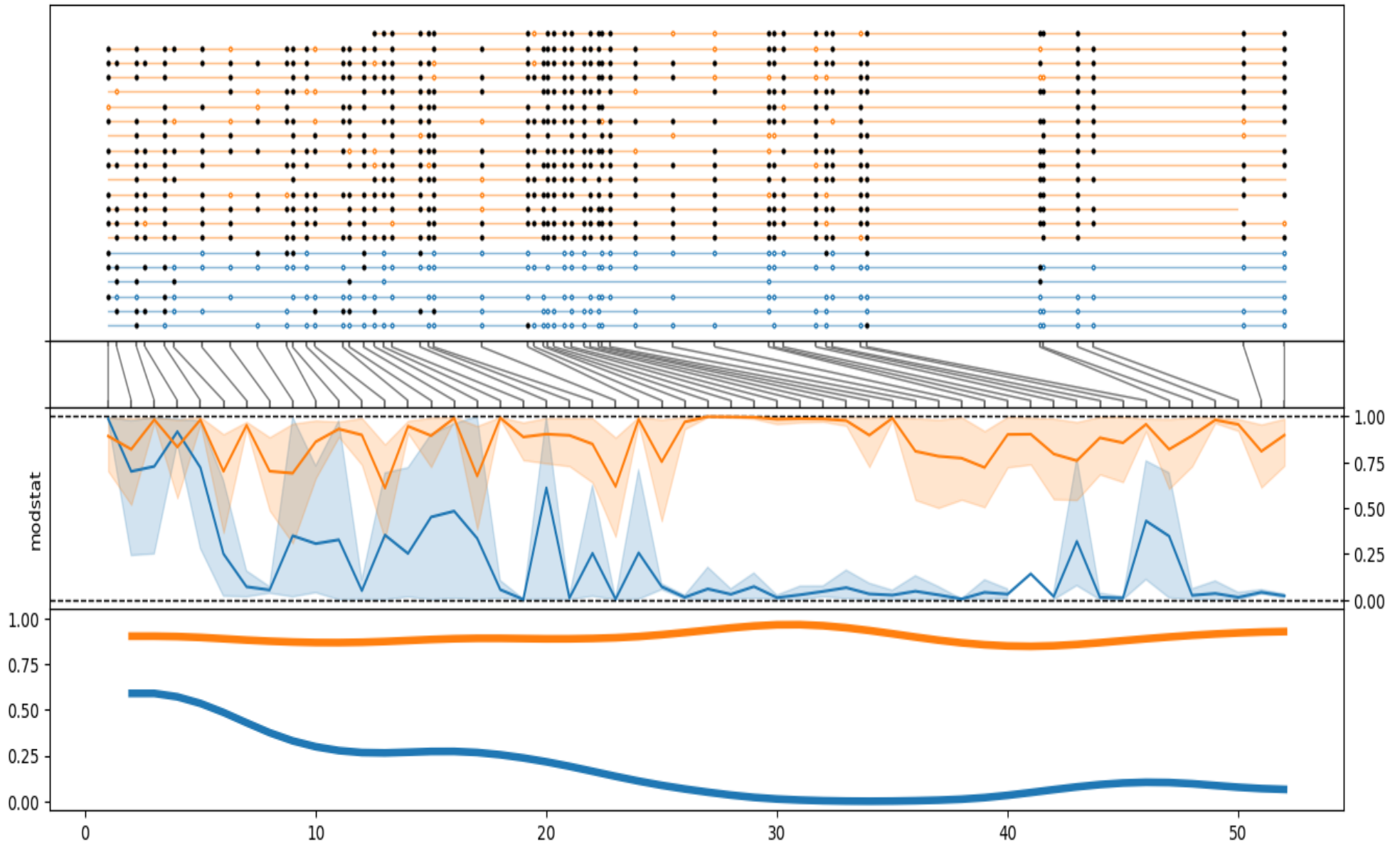
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EPI_03_hg38_phased_chr15_23647178_23648424

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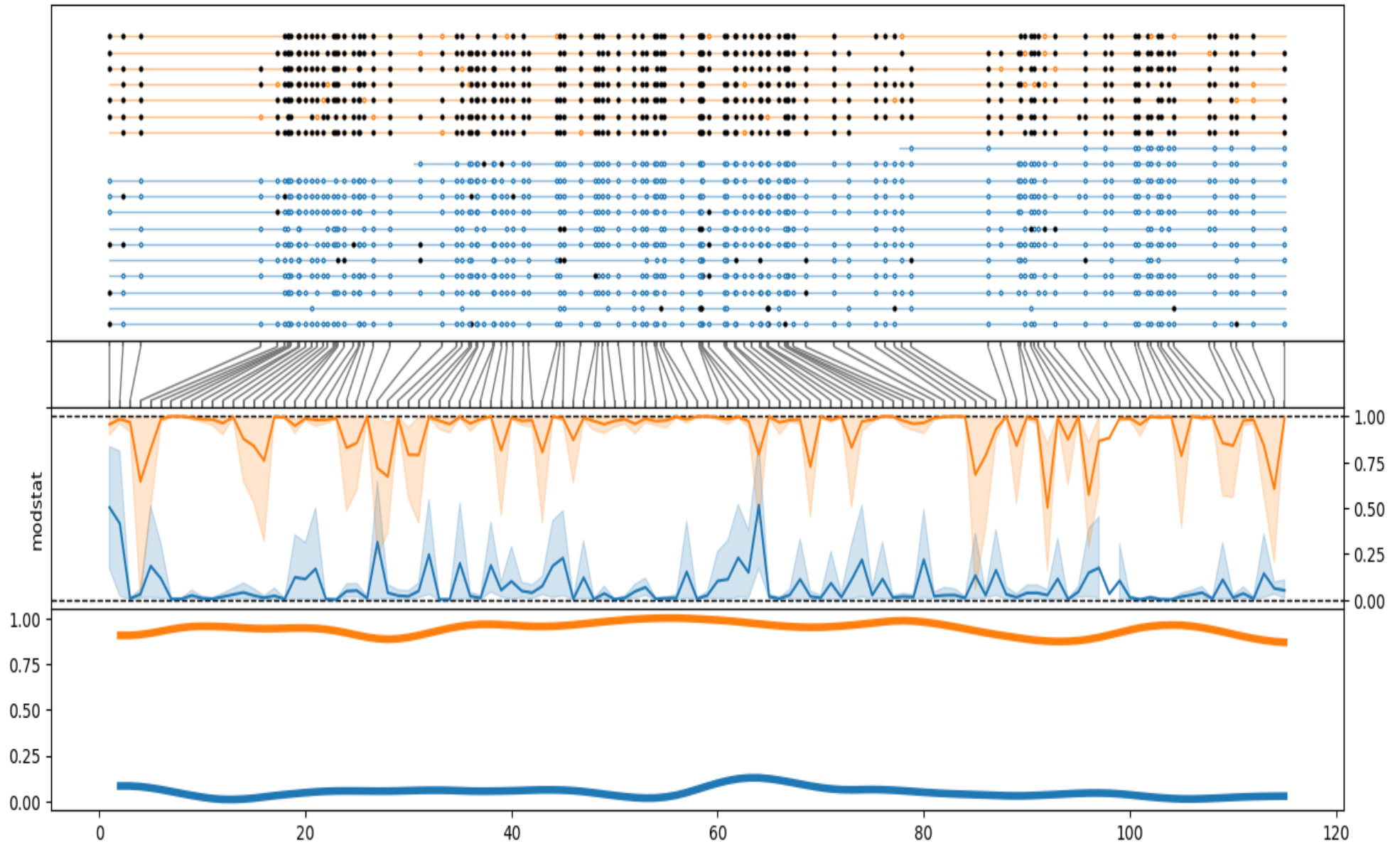
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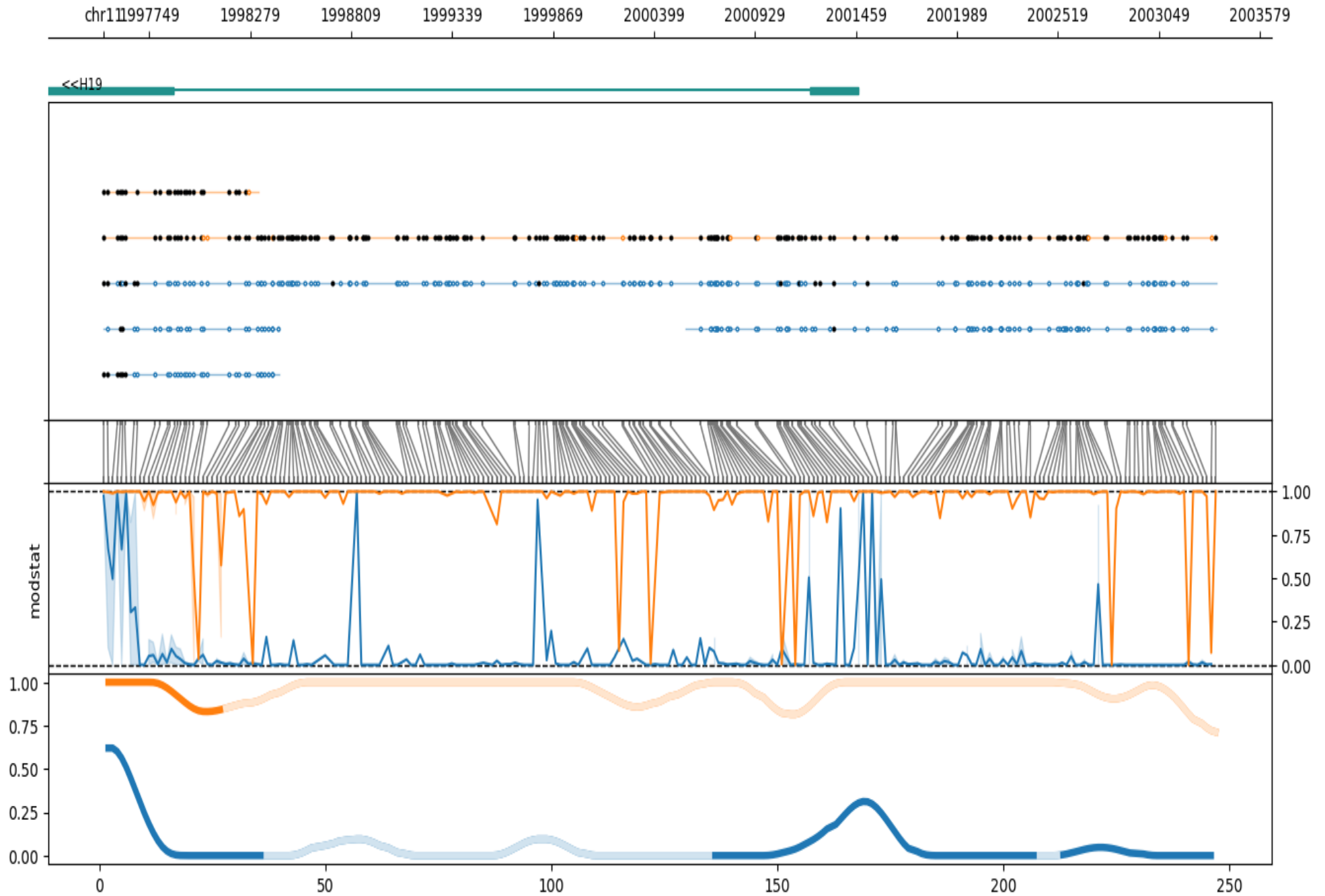
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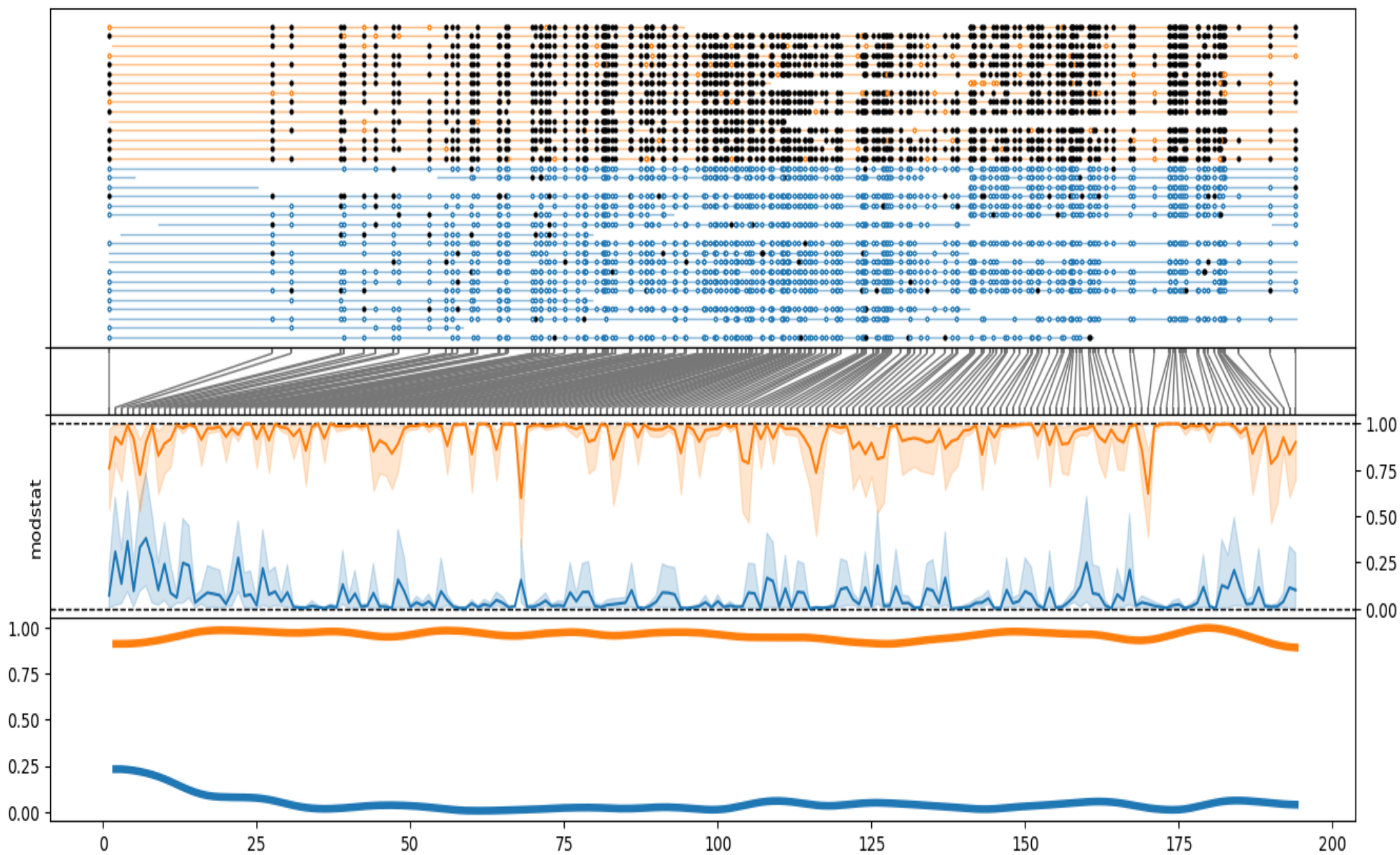
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EPI_04_hg38_phased_chr11_2698155_2701028

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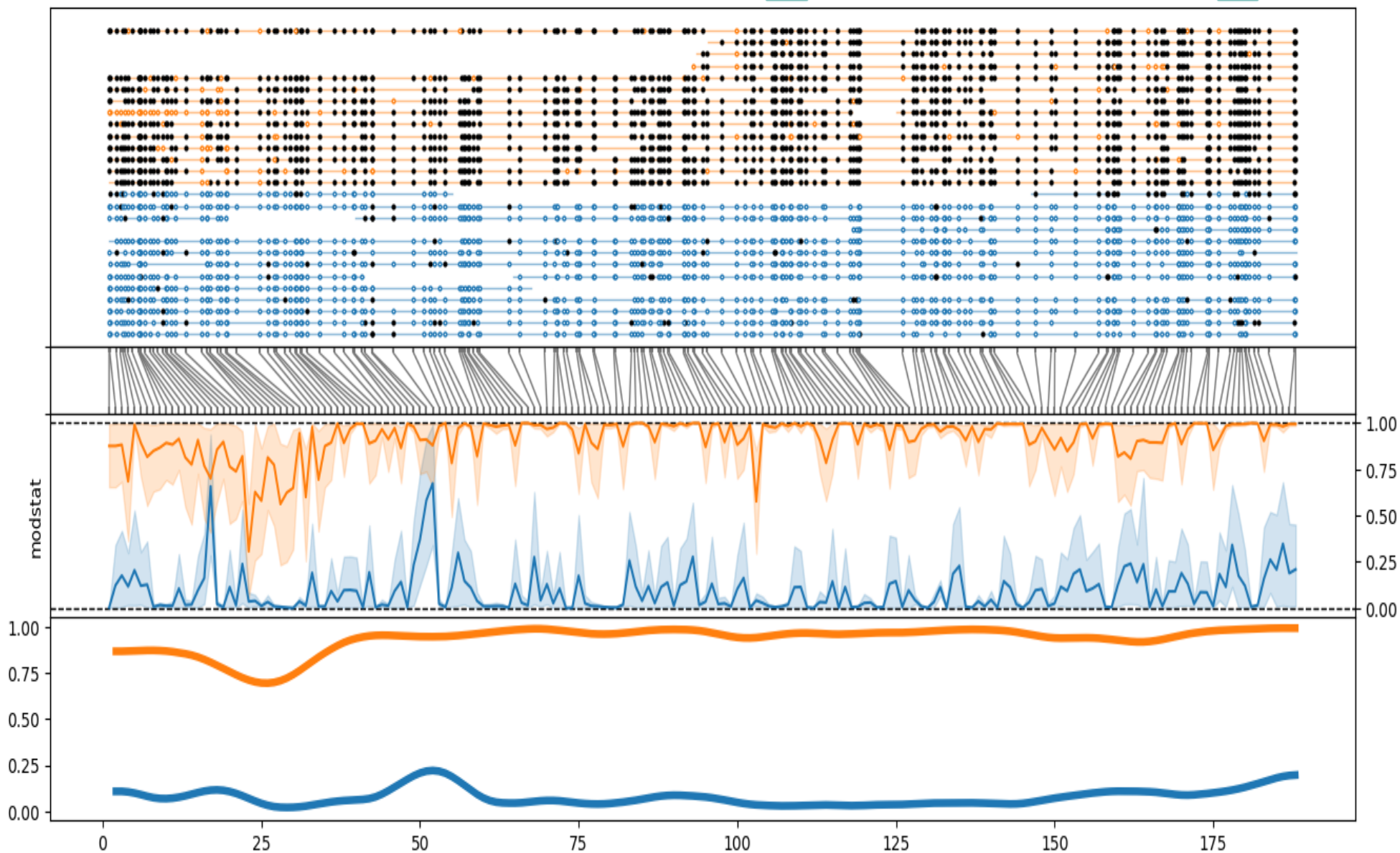
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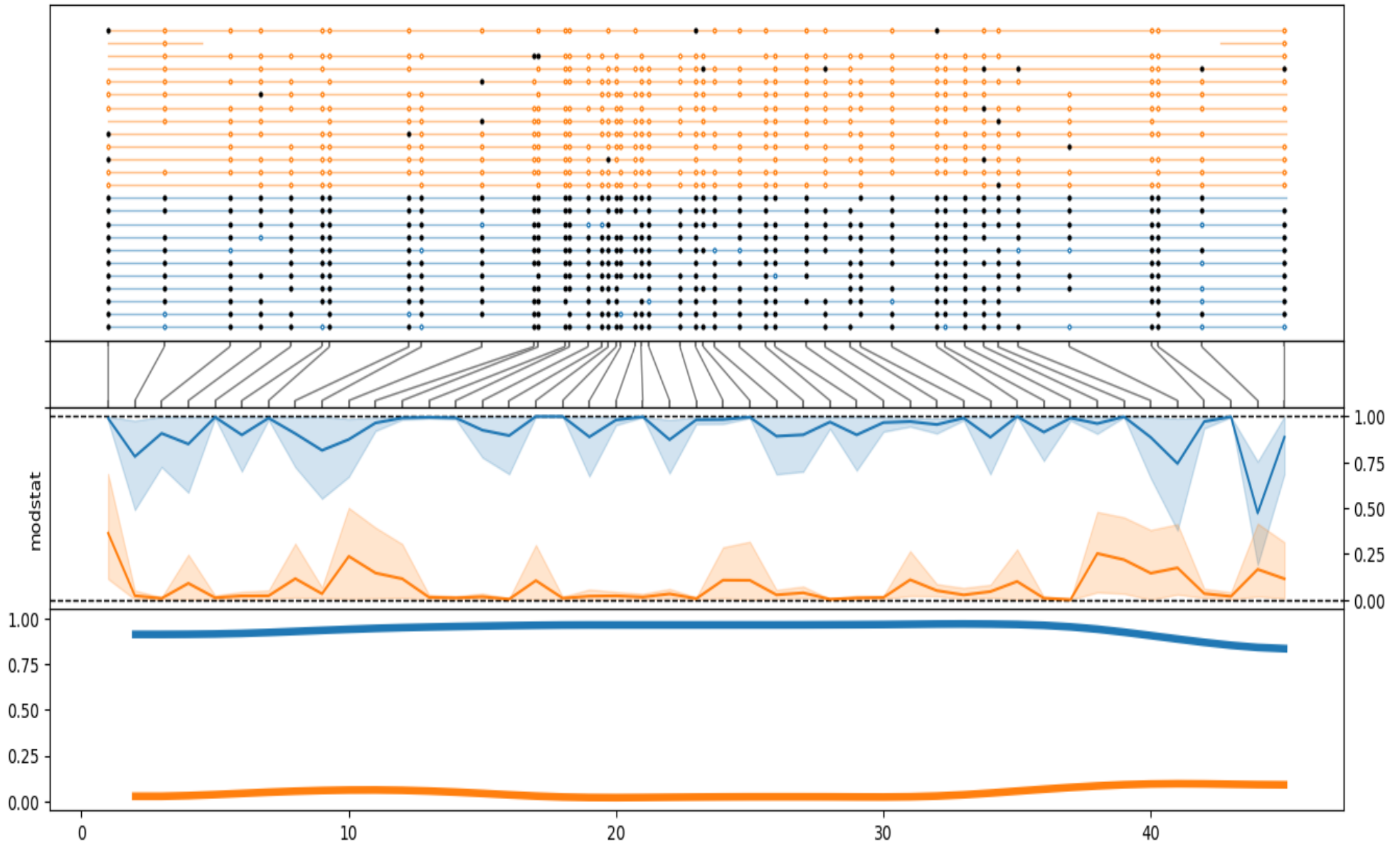
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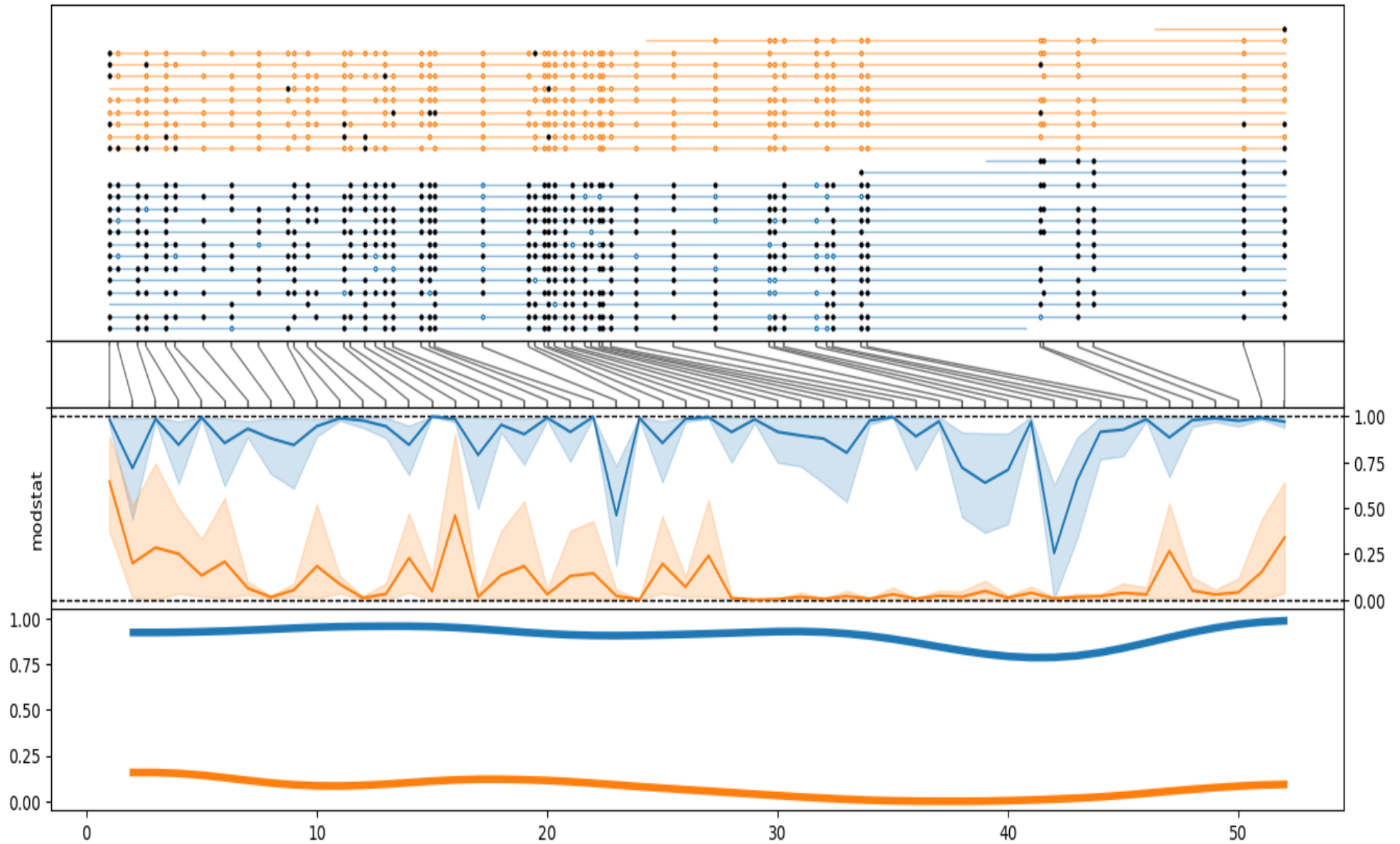
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EPI_04_hg38_phased_chr15_23647178_23648424

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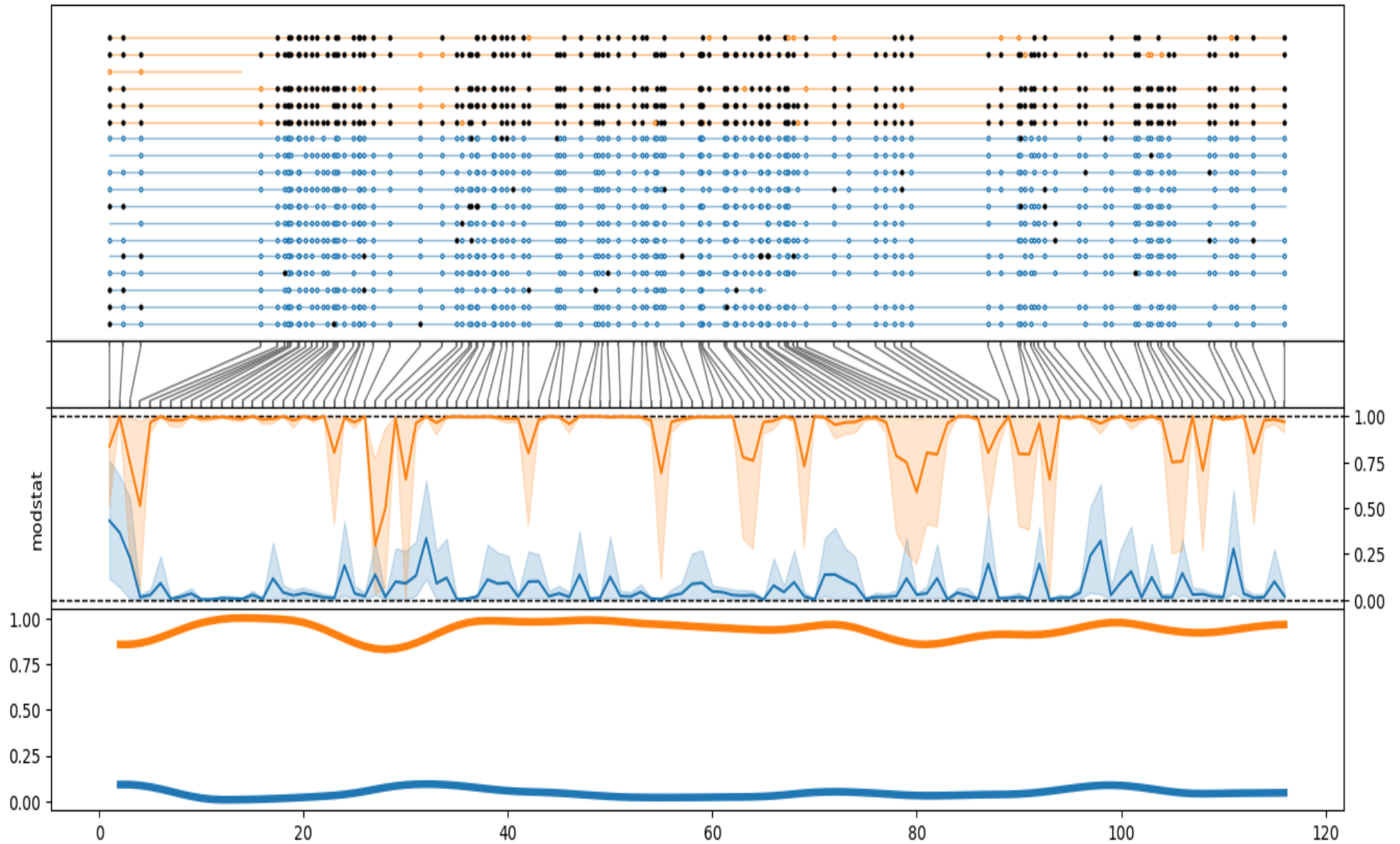
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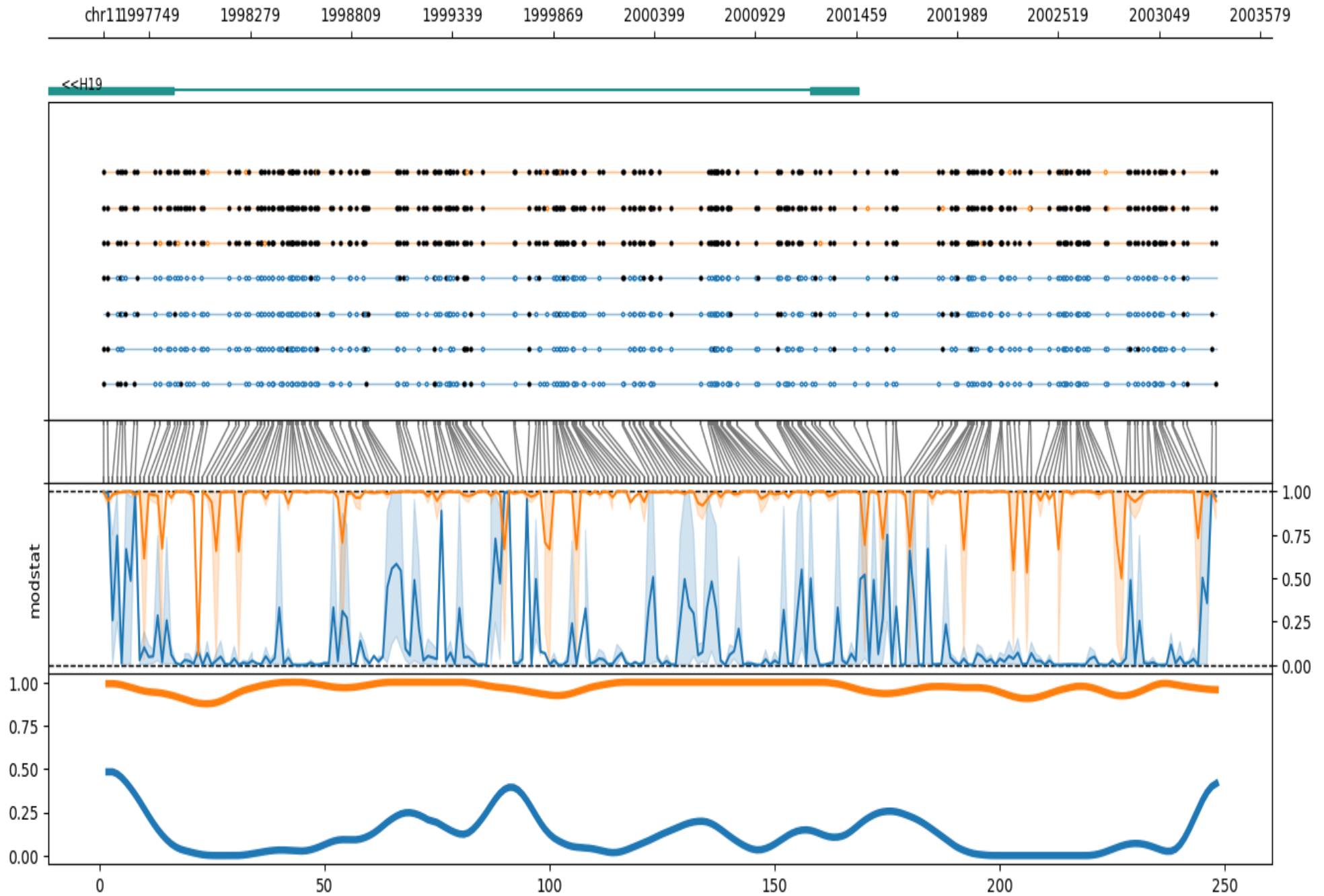
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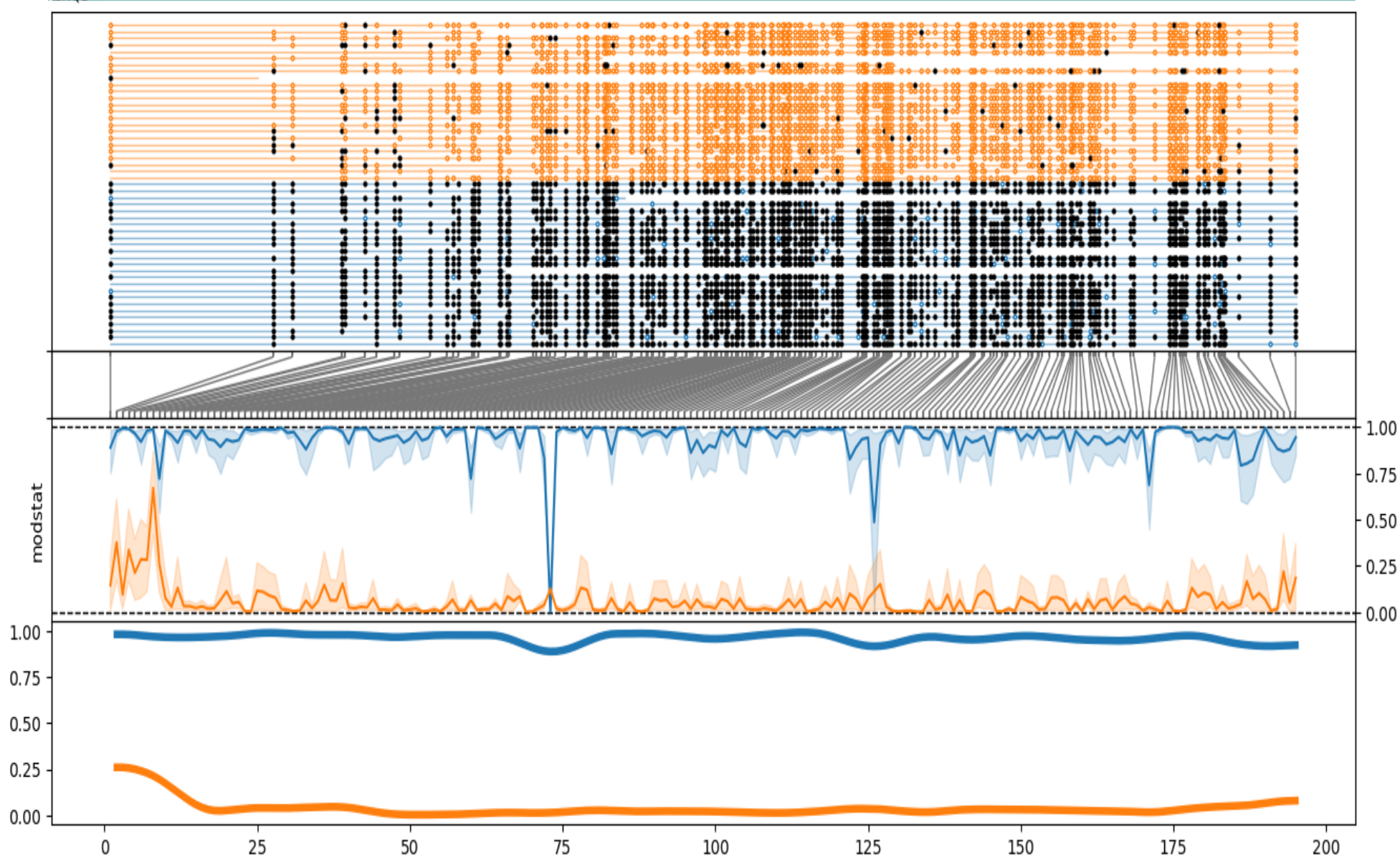
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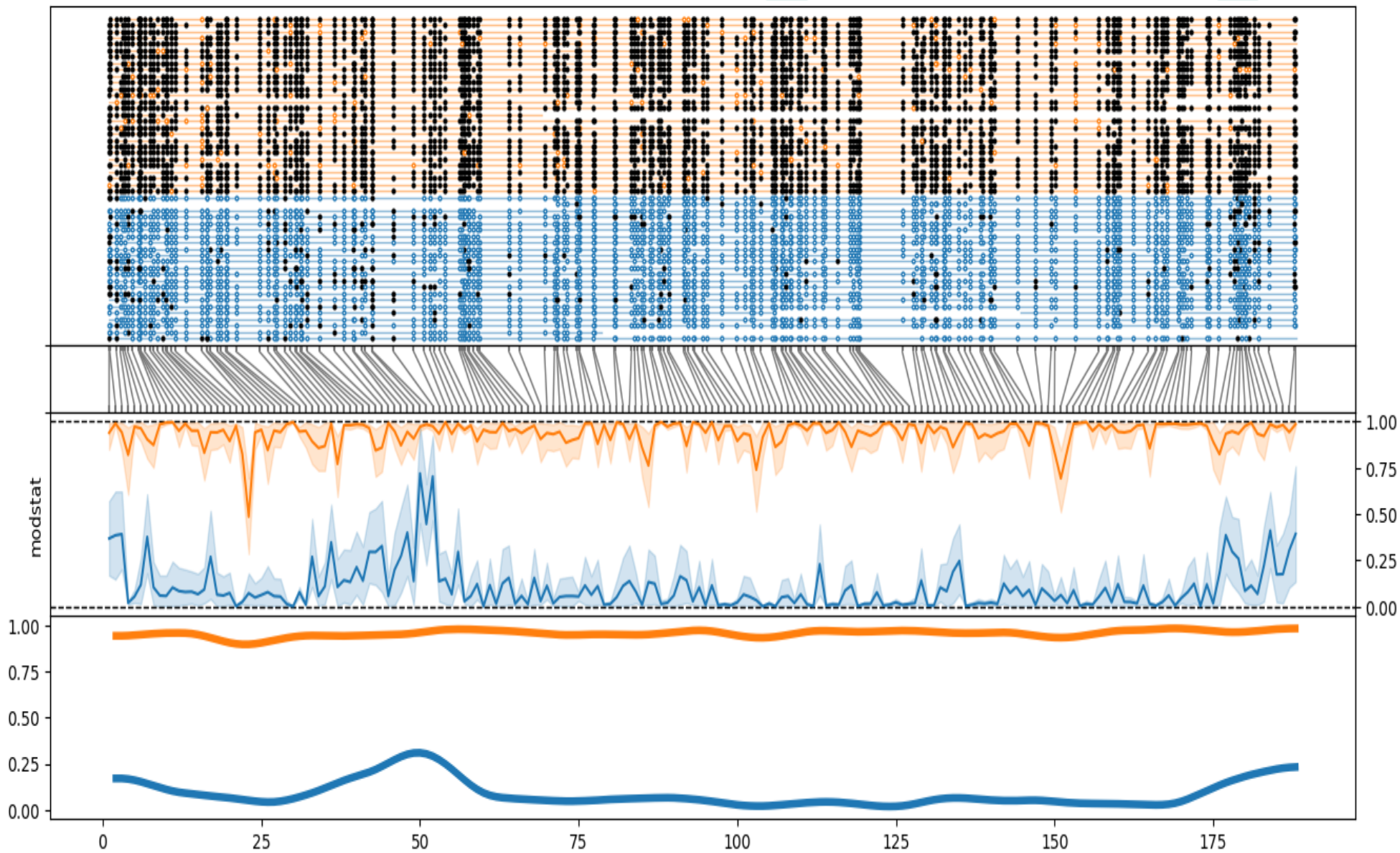
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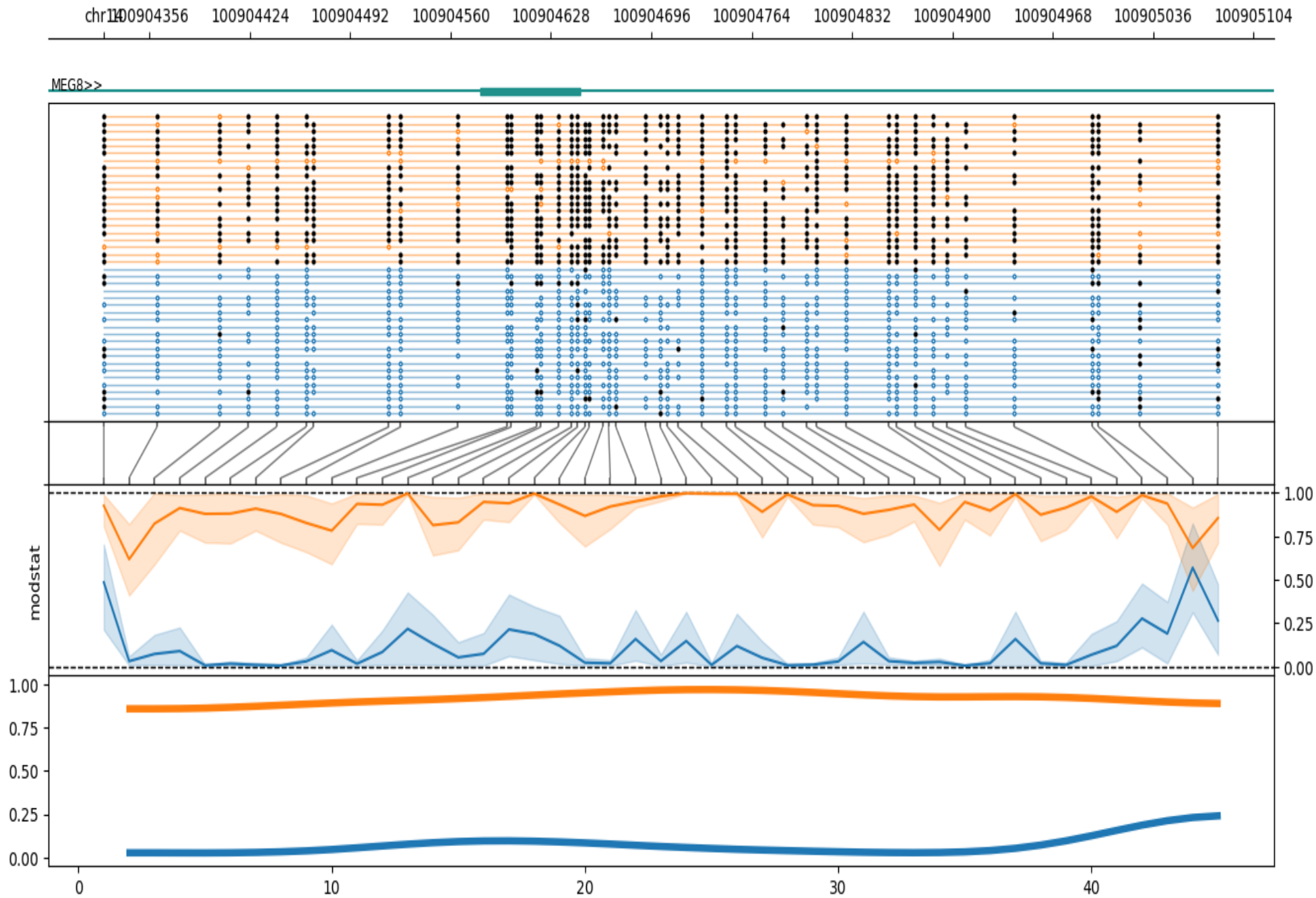
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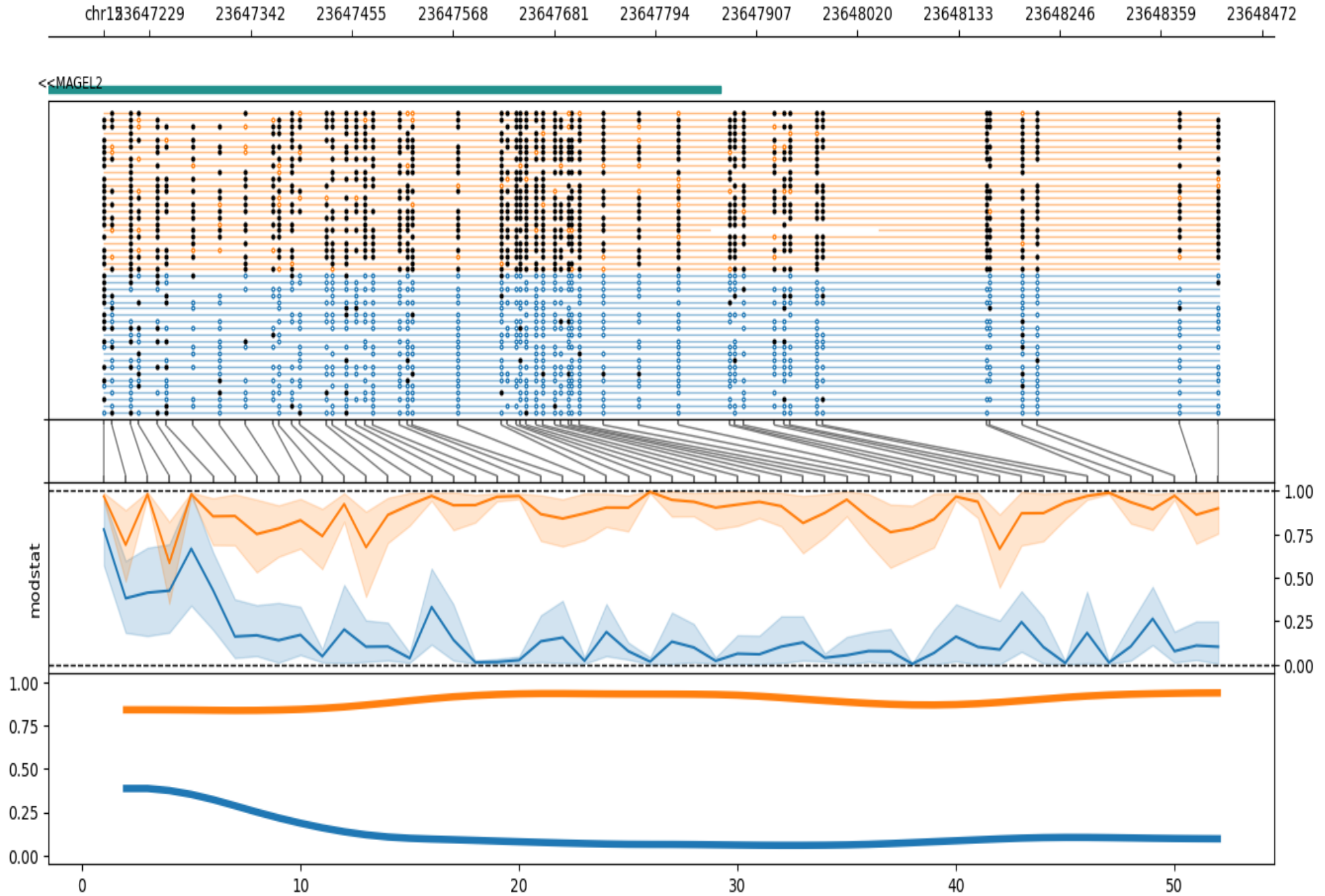
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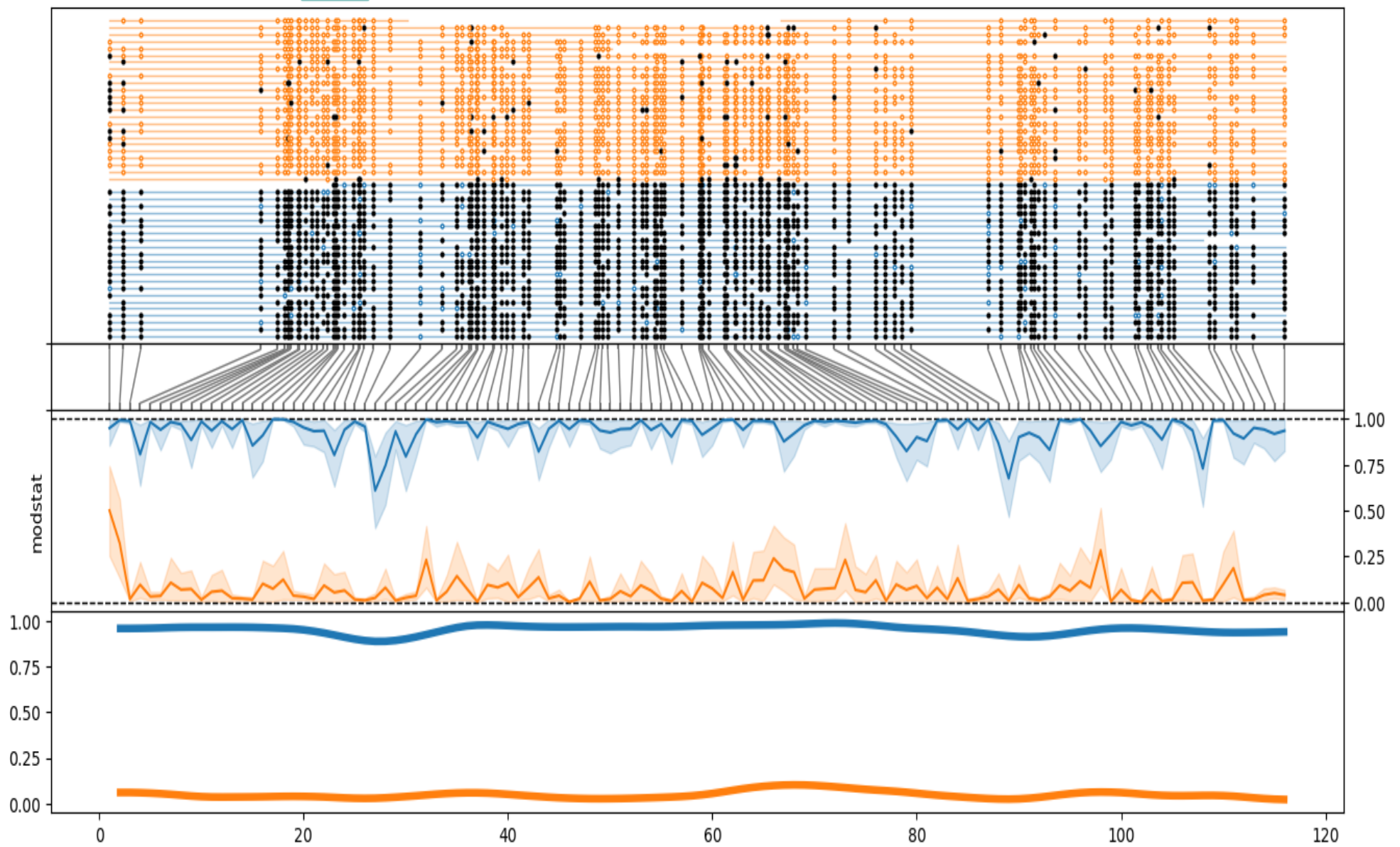
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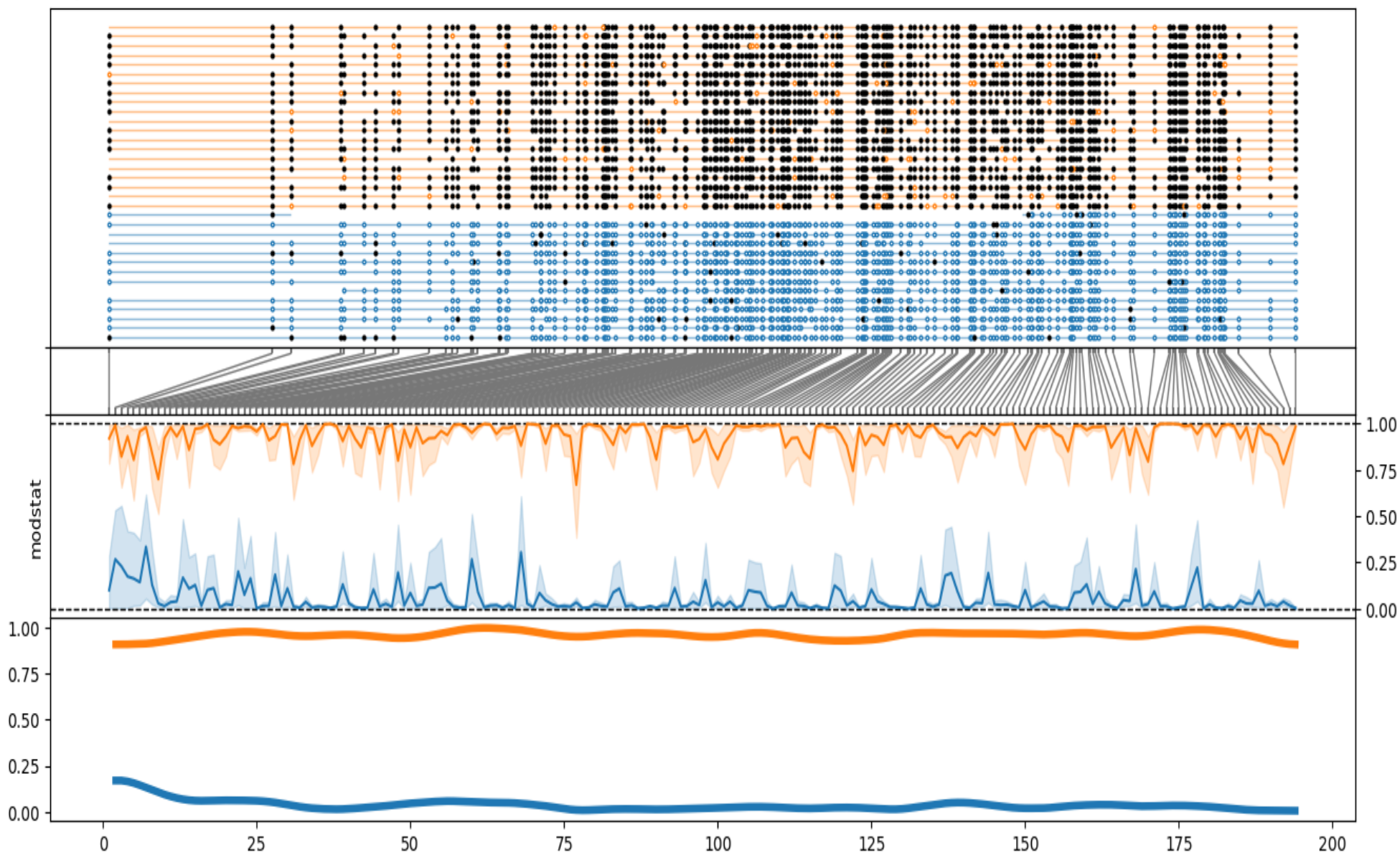
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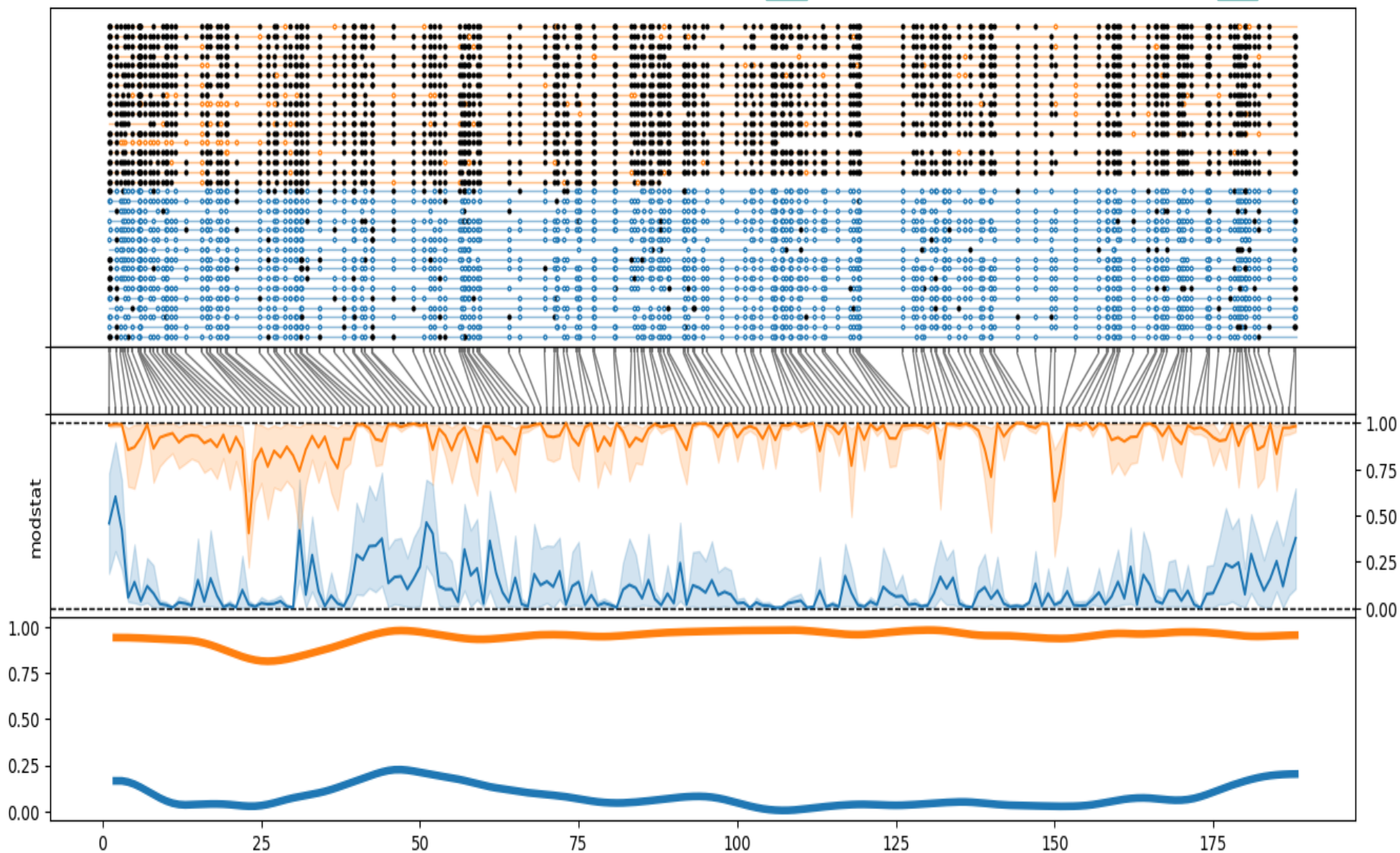
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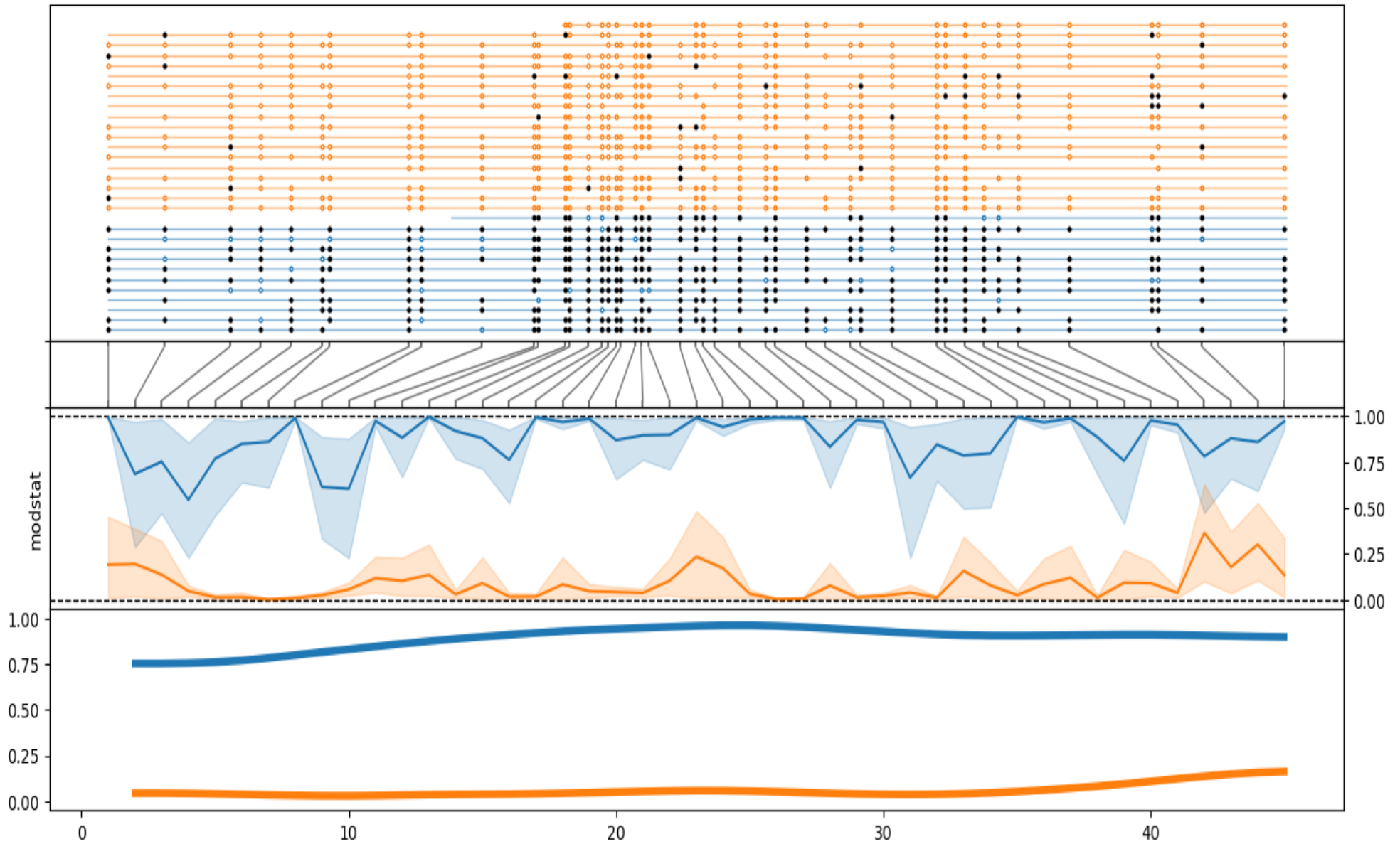
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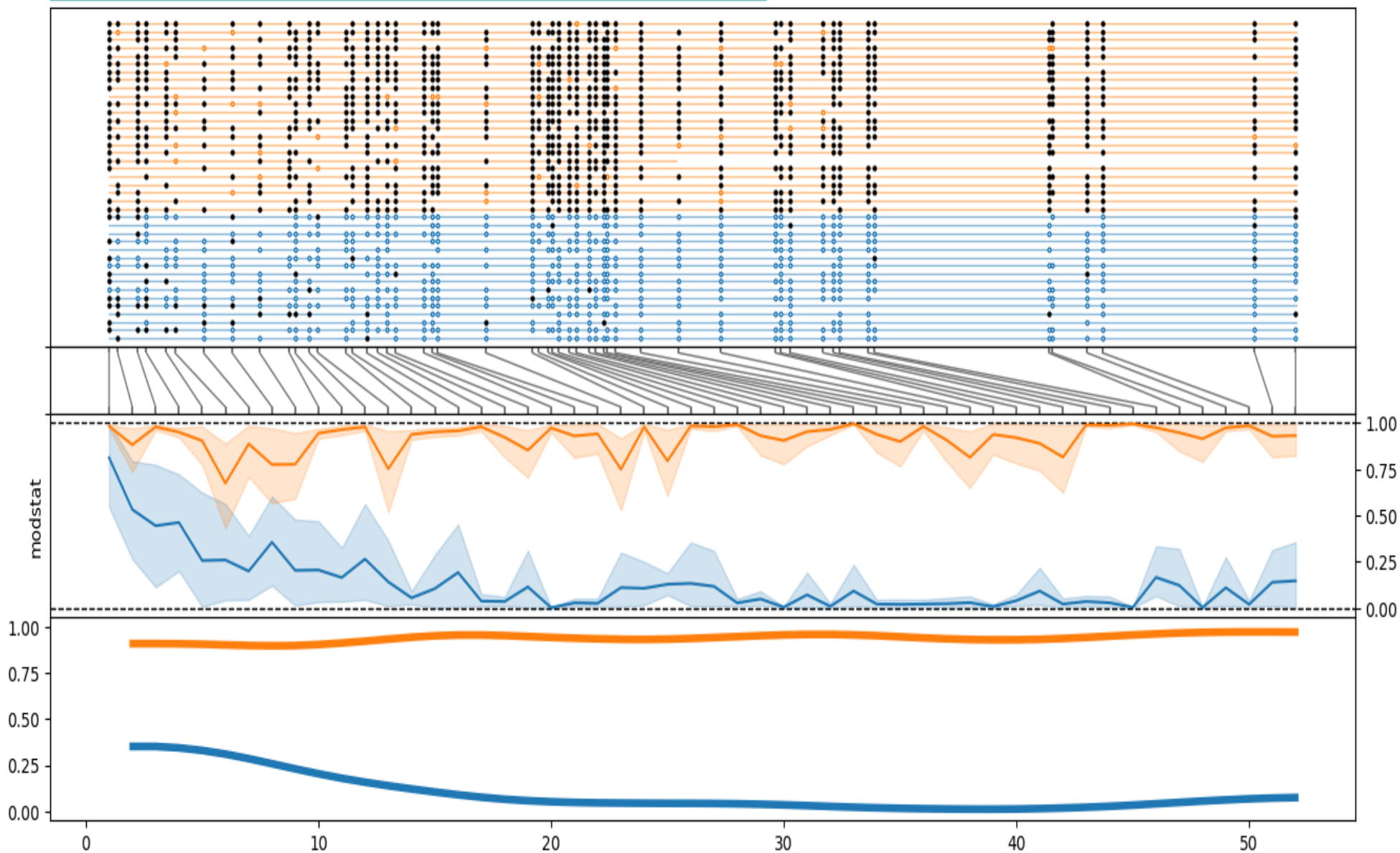
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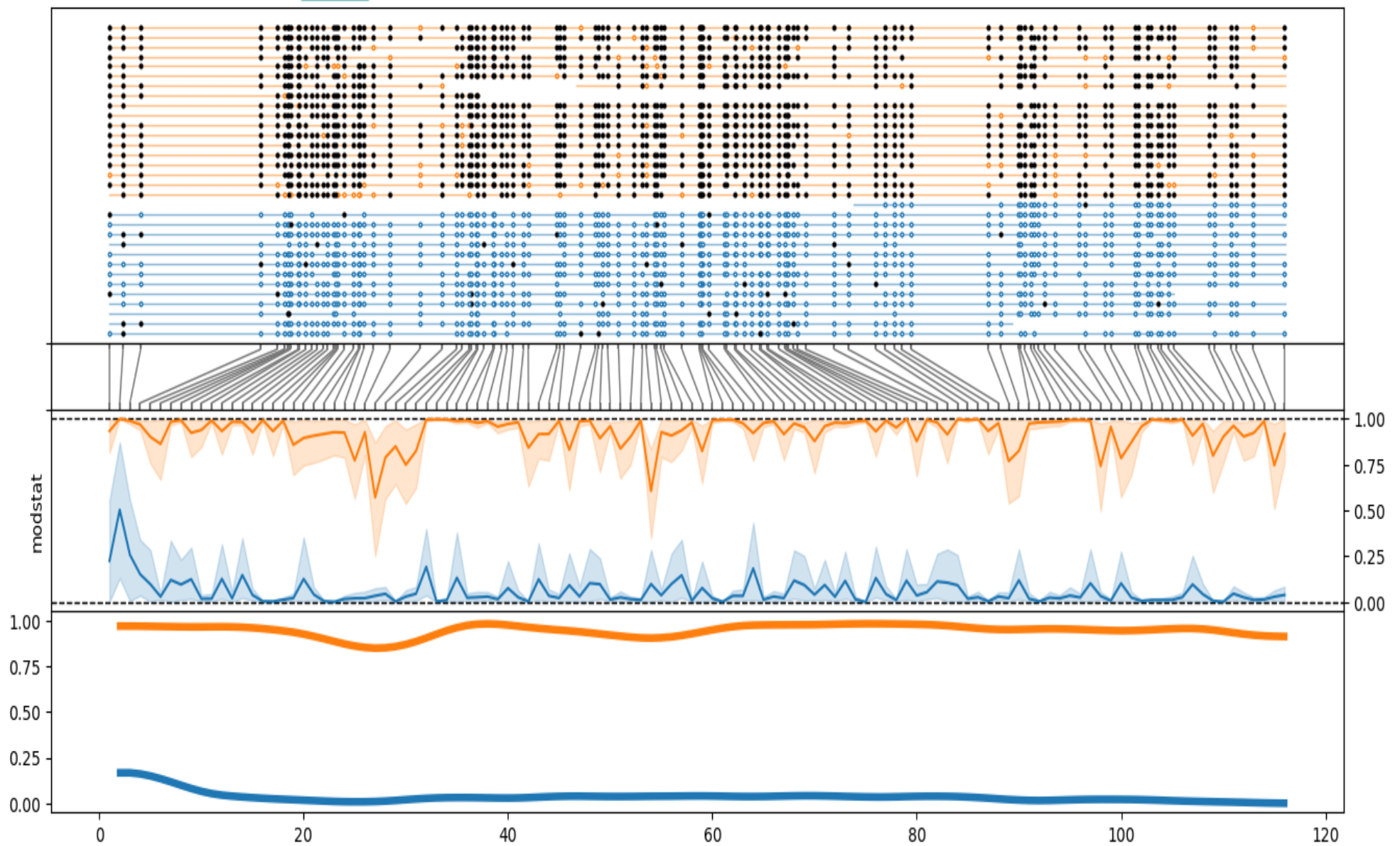
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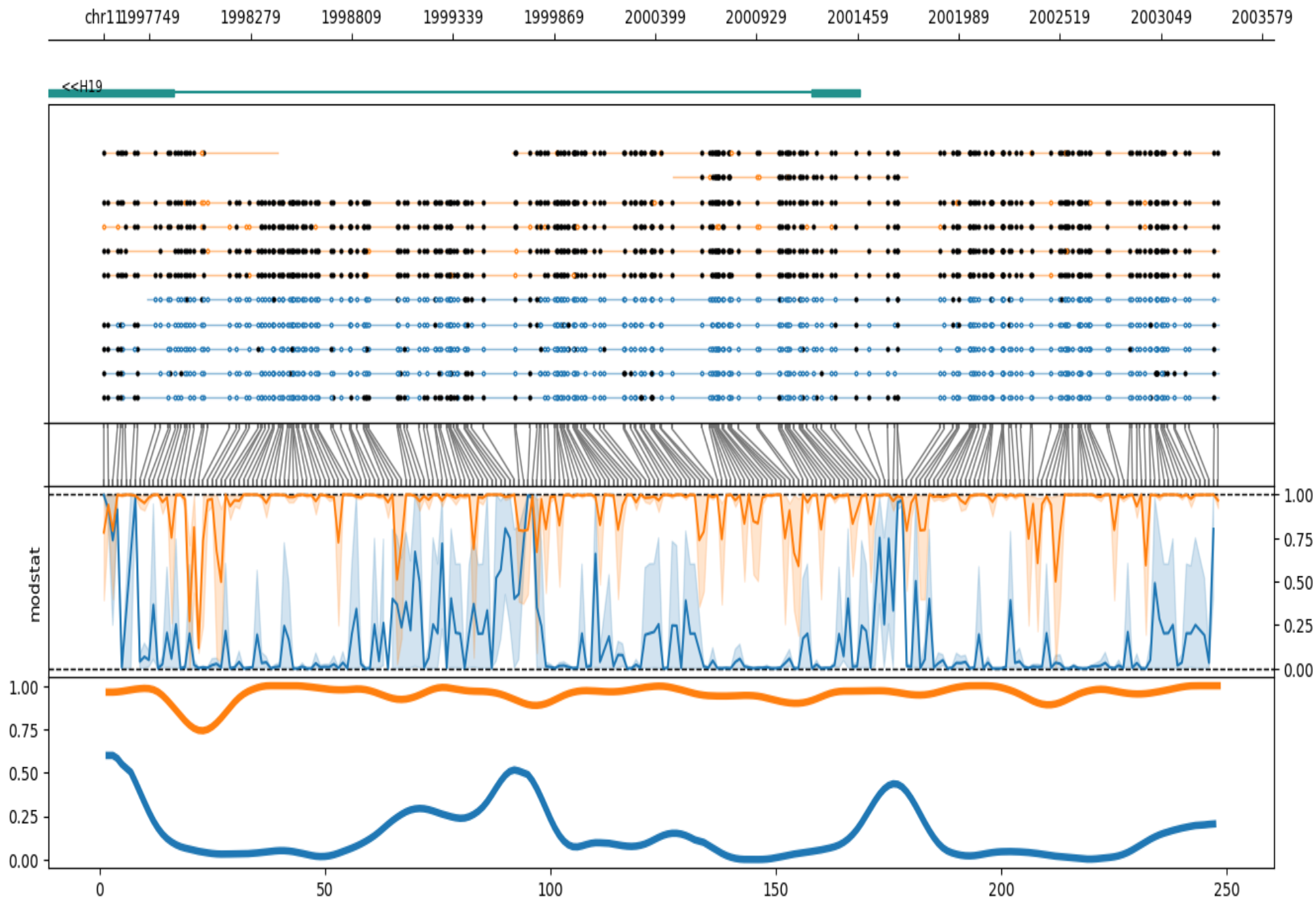
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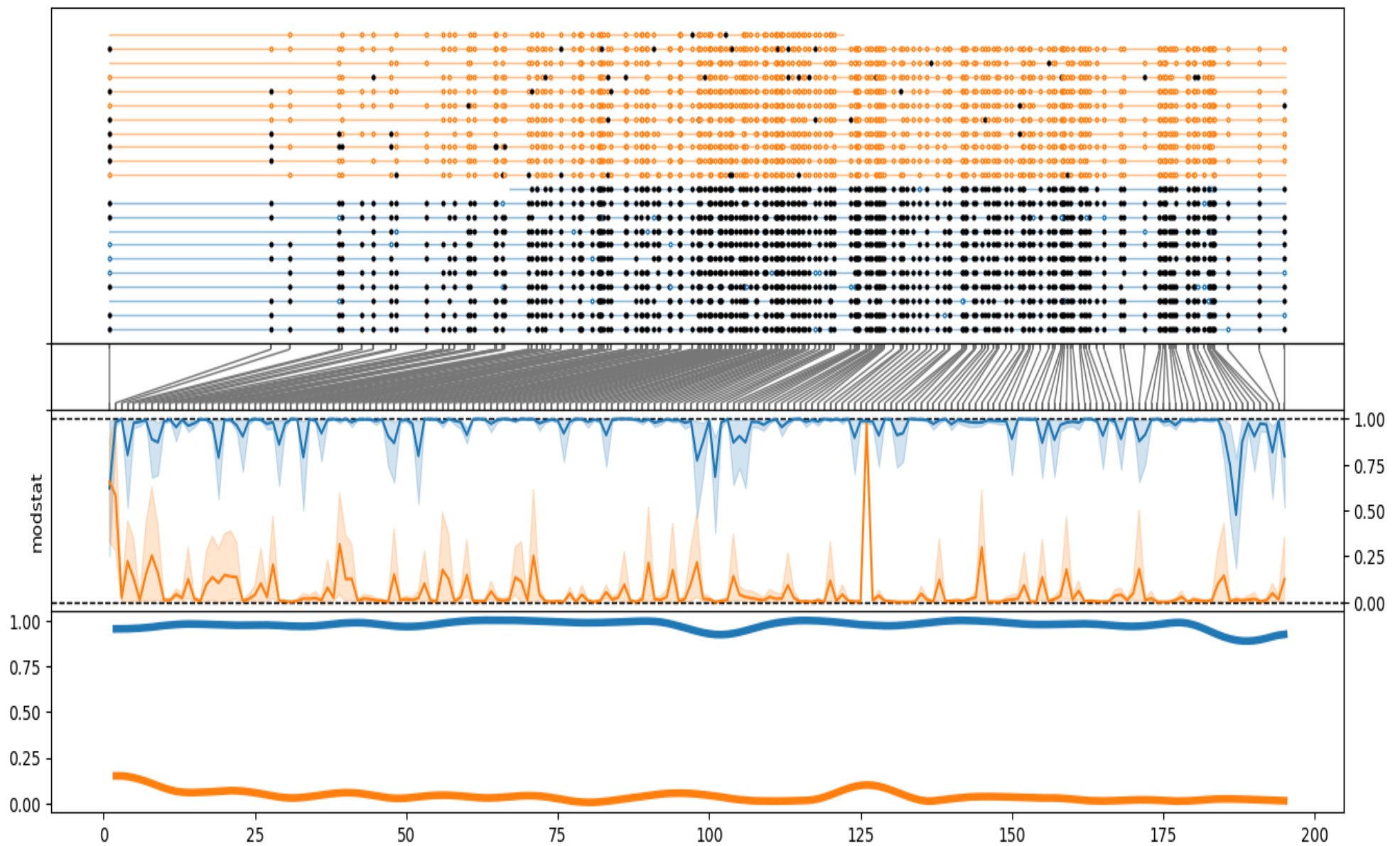
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EPI_07_hg38_phased_chr11_2698155_2701028

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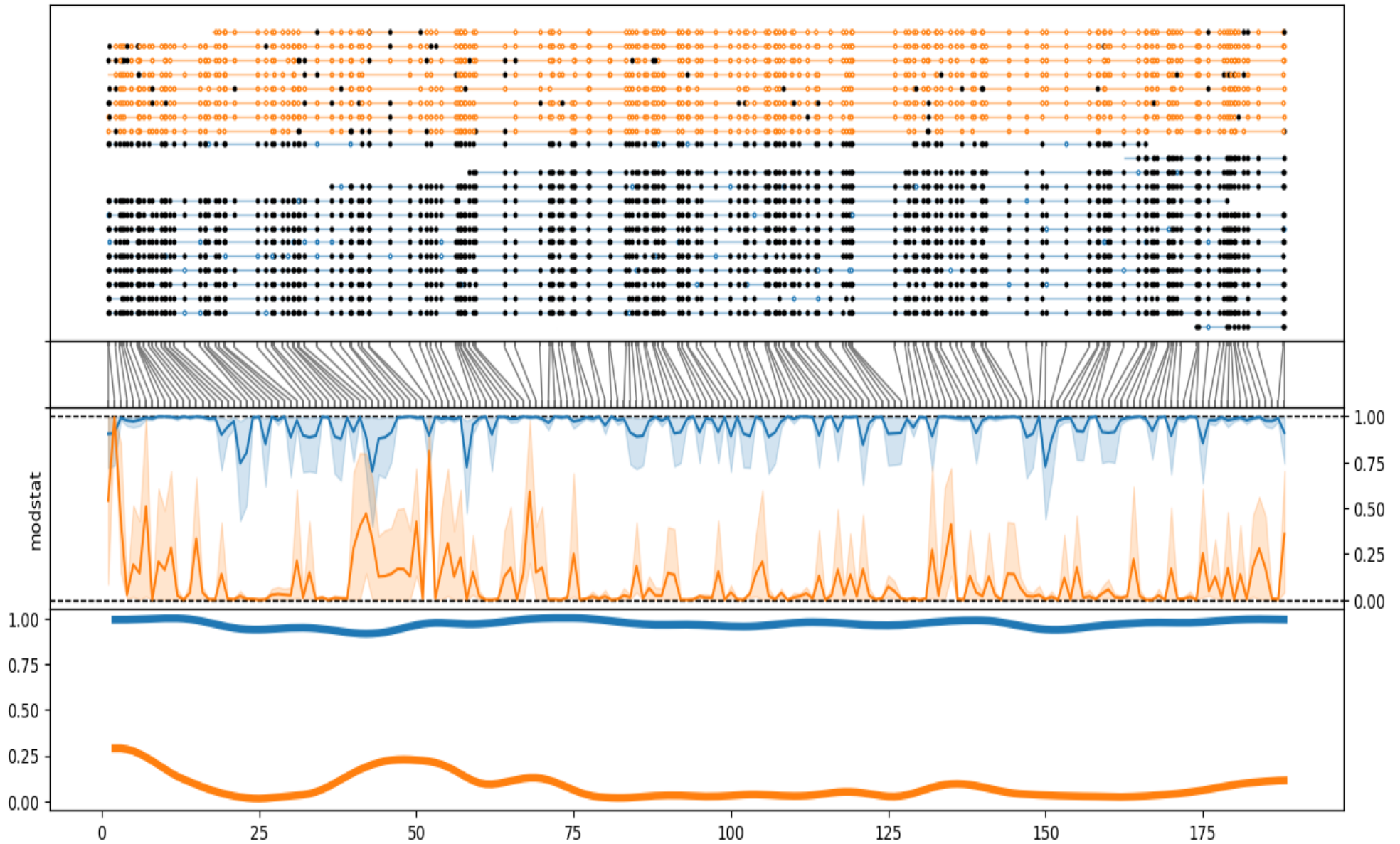
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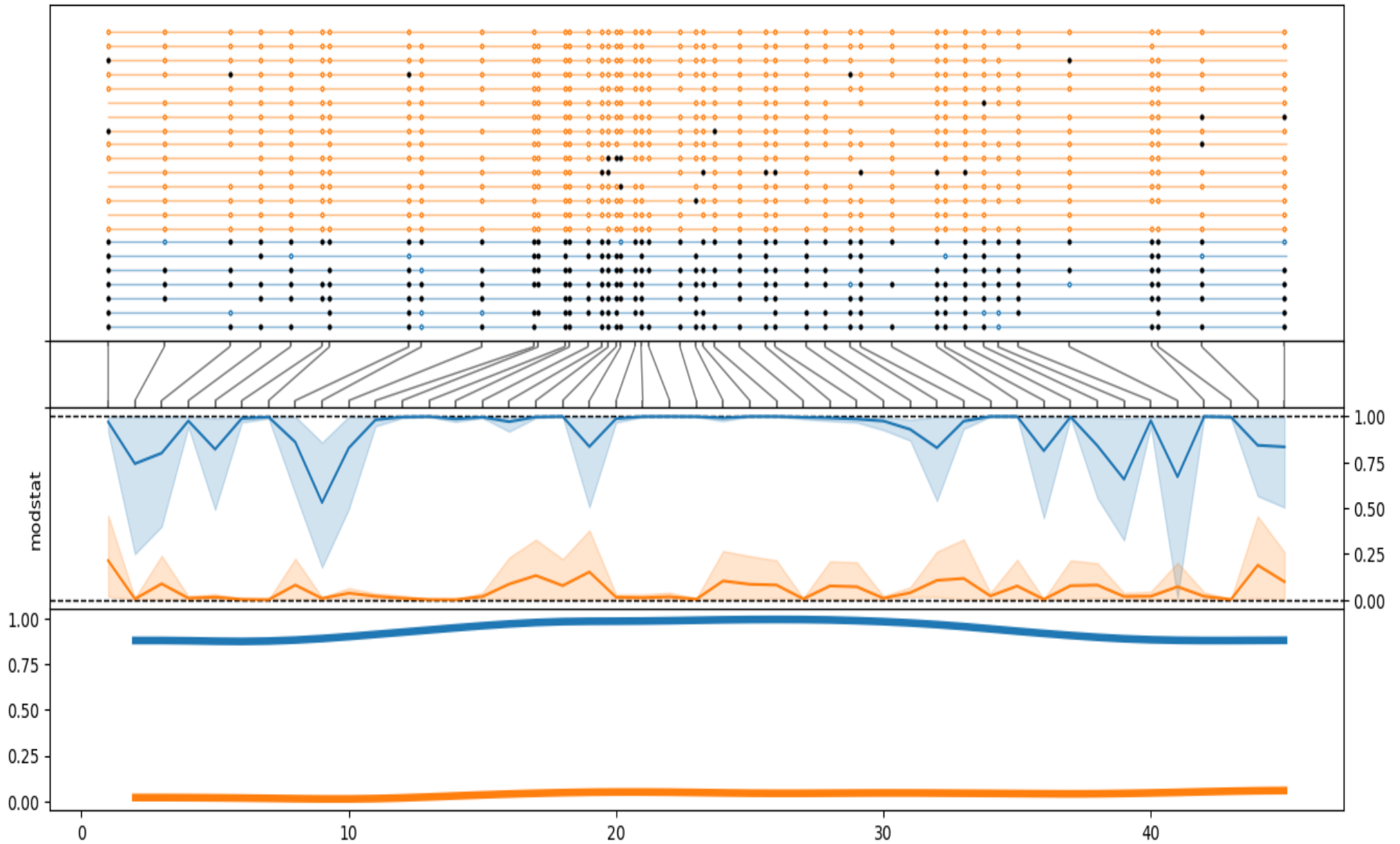
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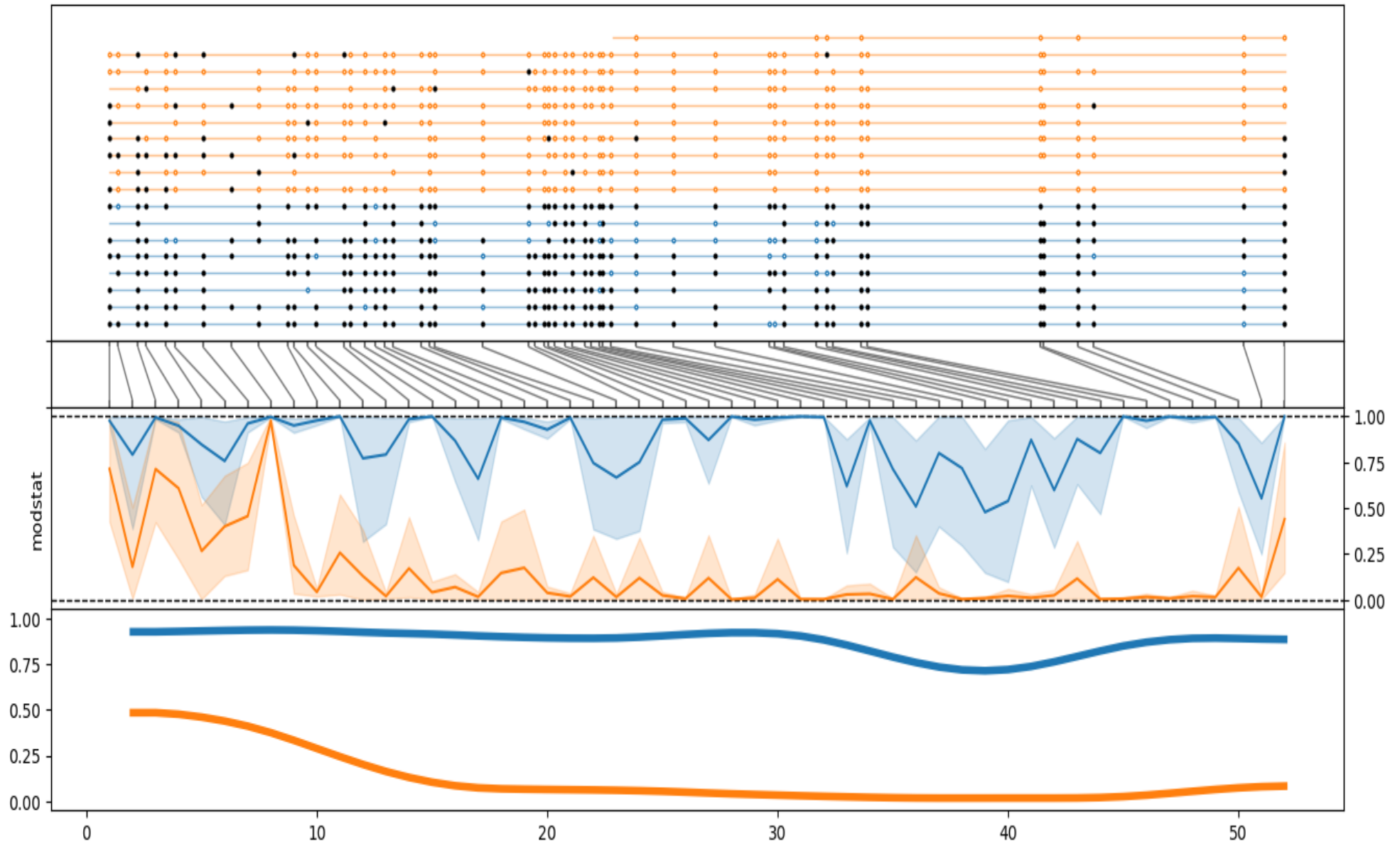
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EPI_07_hg38_phased_chr15_23647178_23648424

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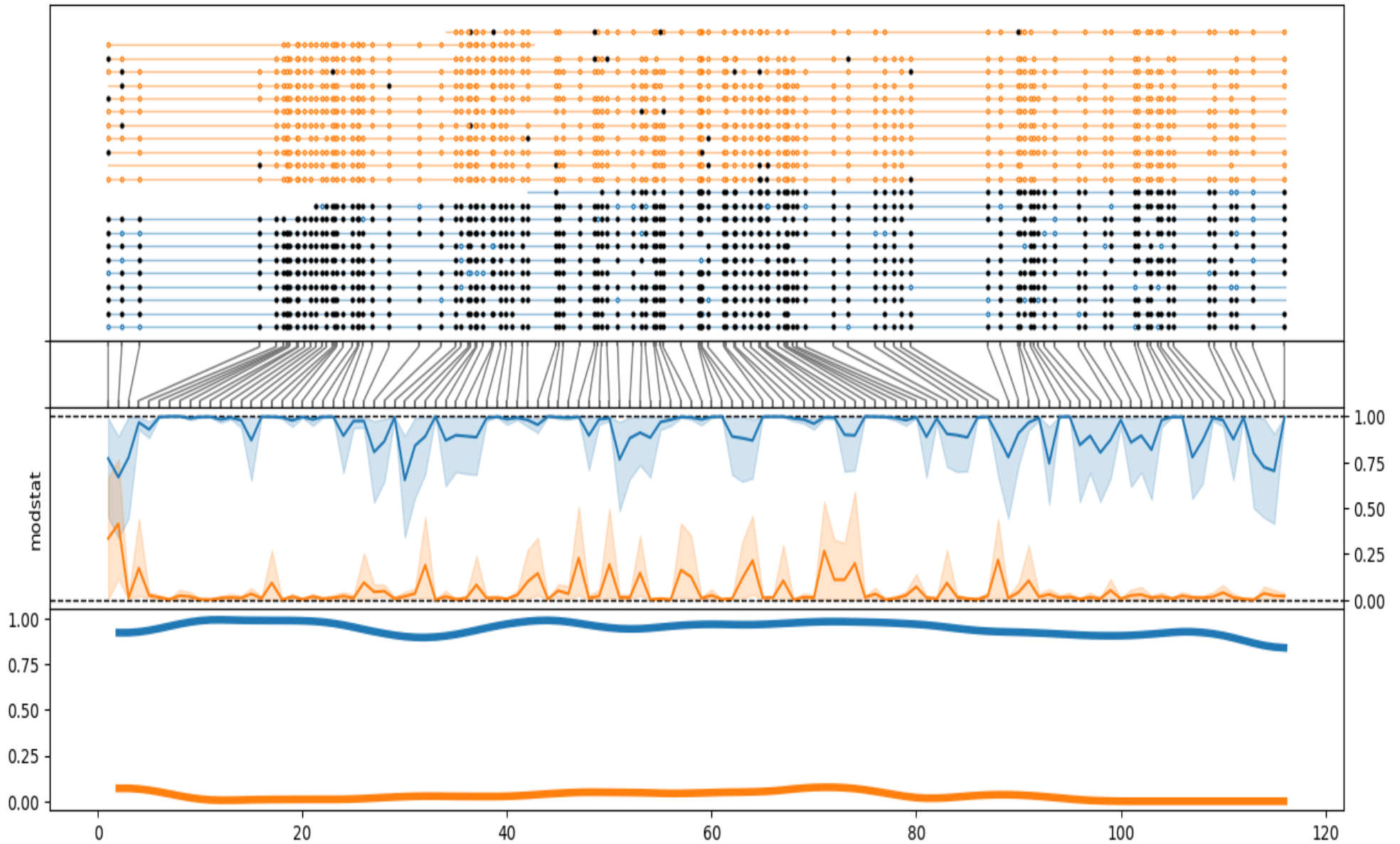
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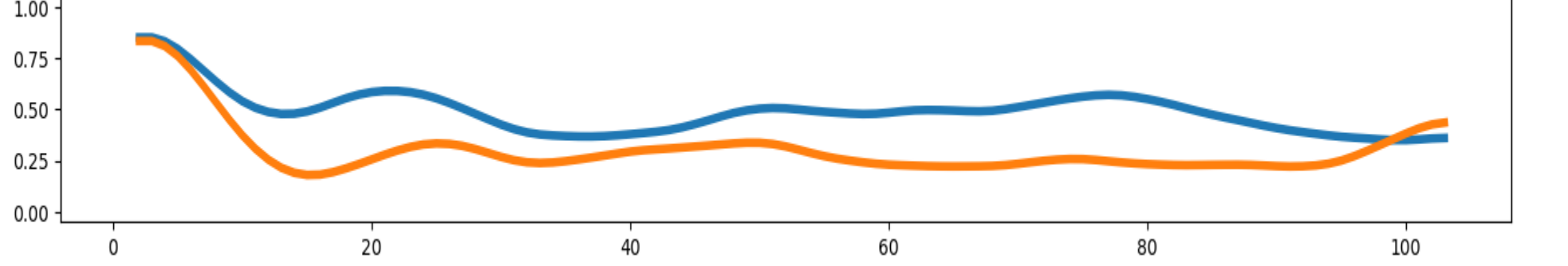
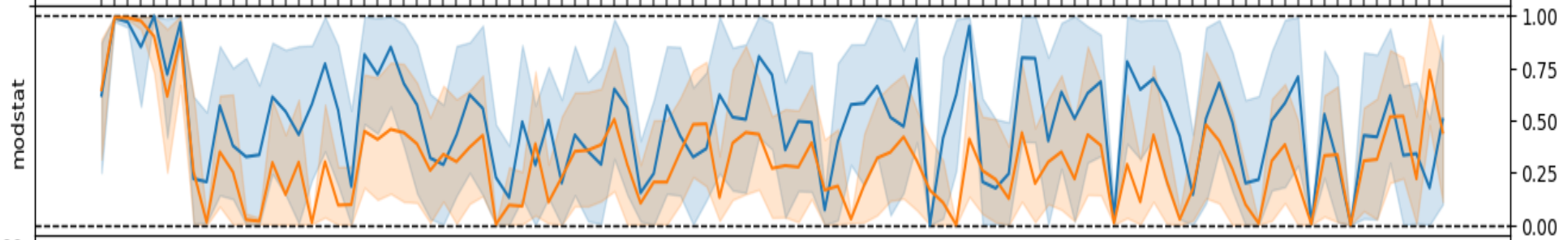
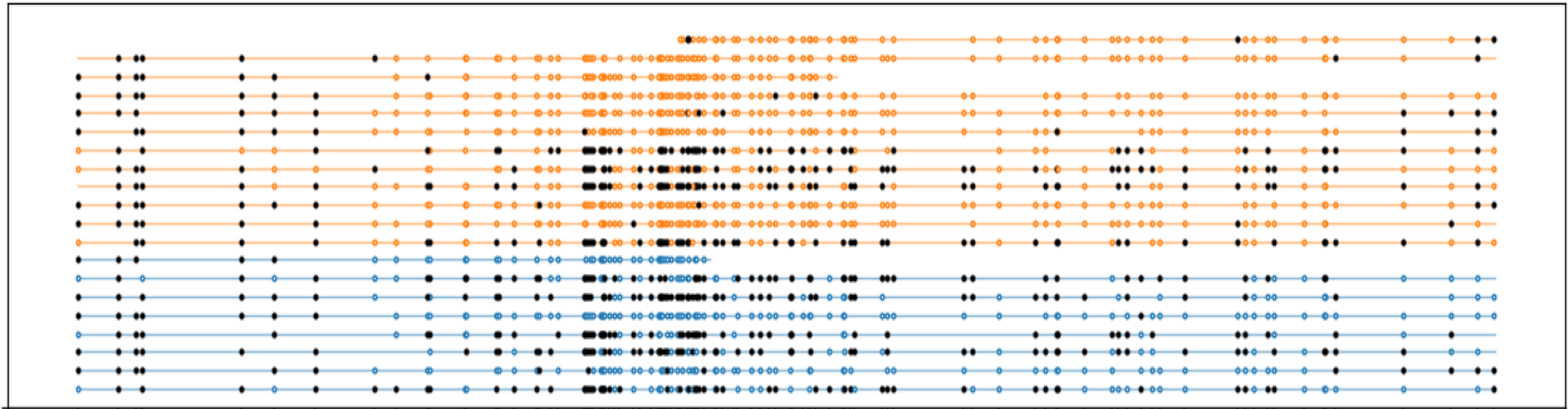
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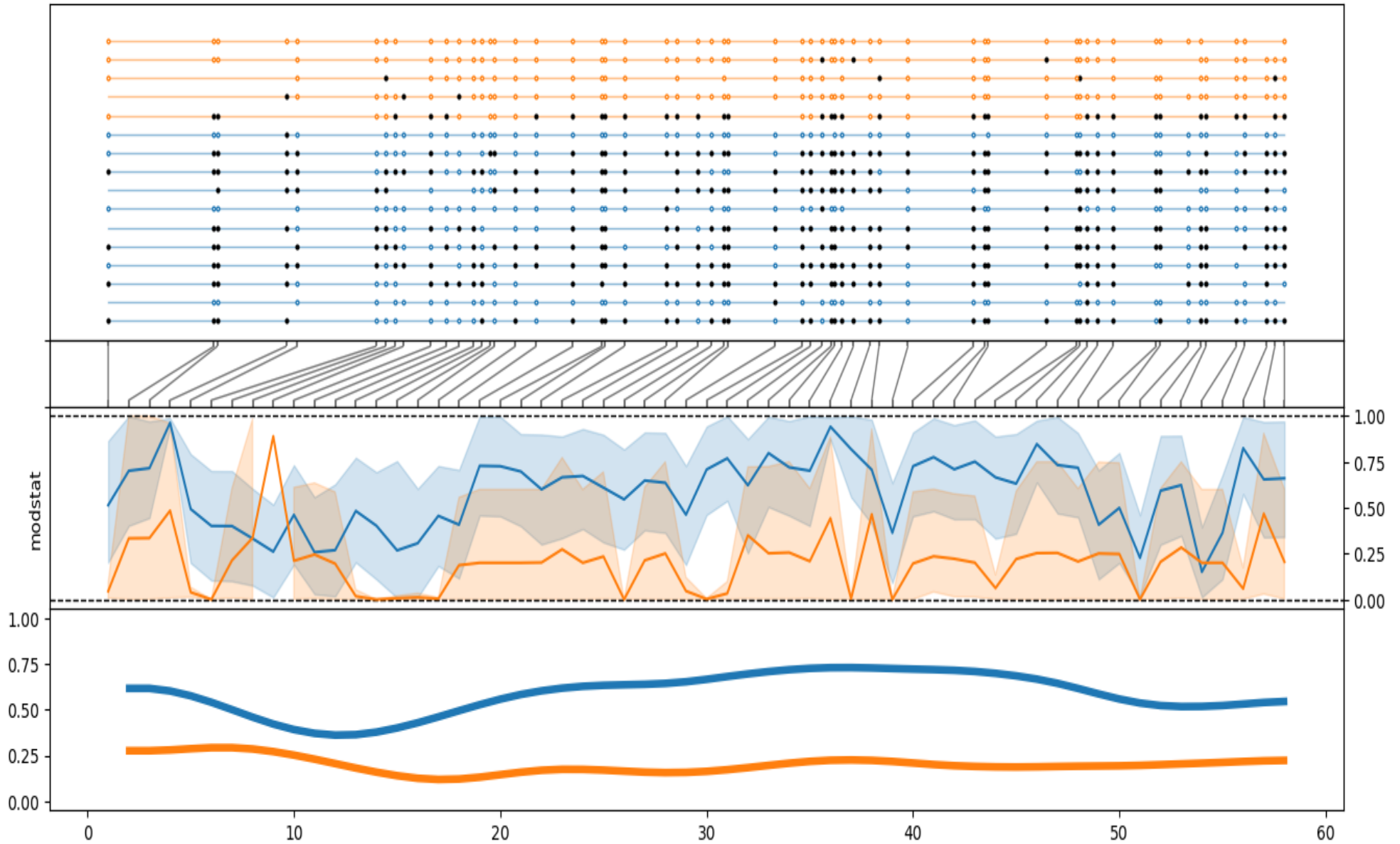
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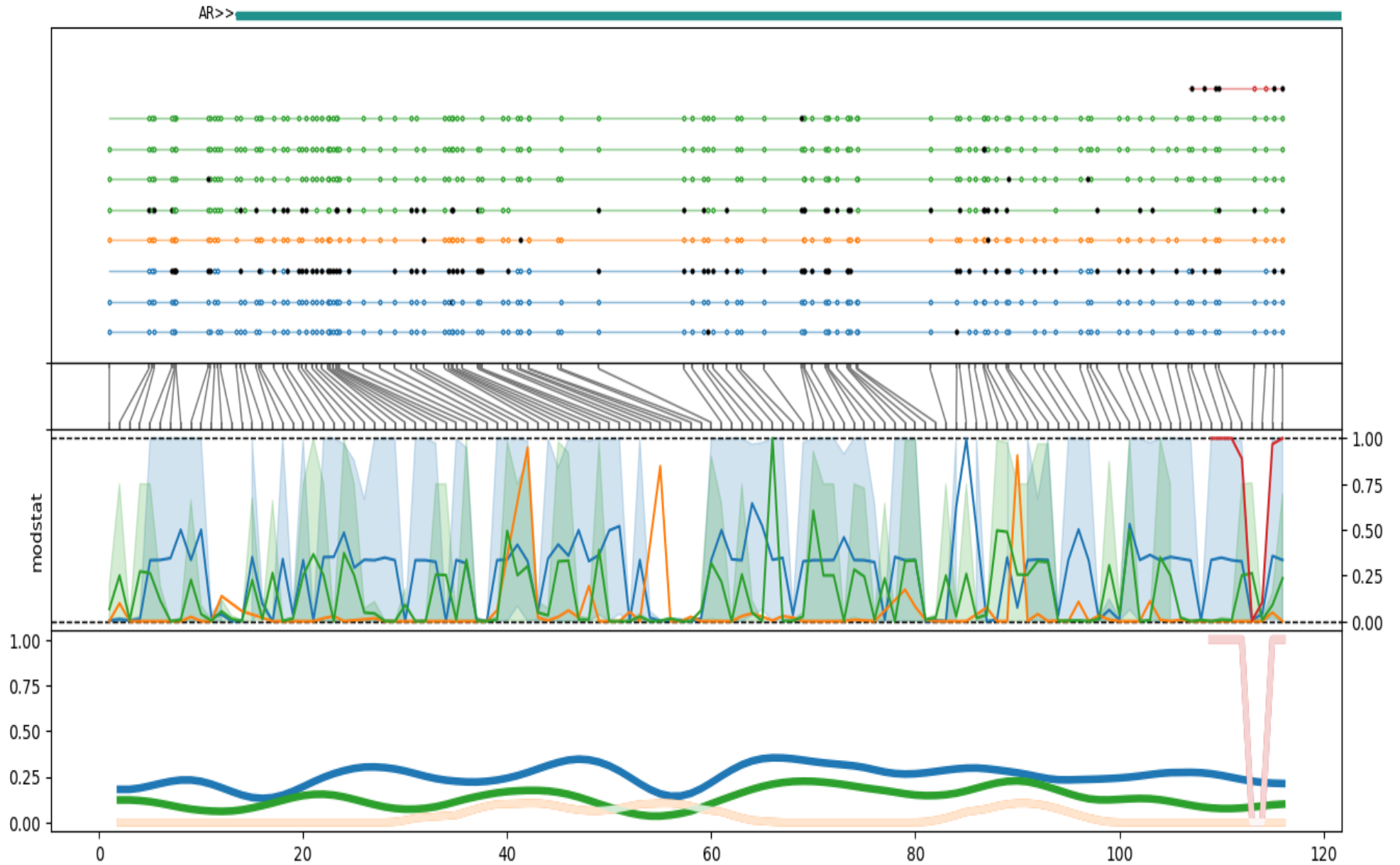
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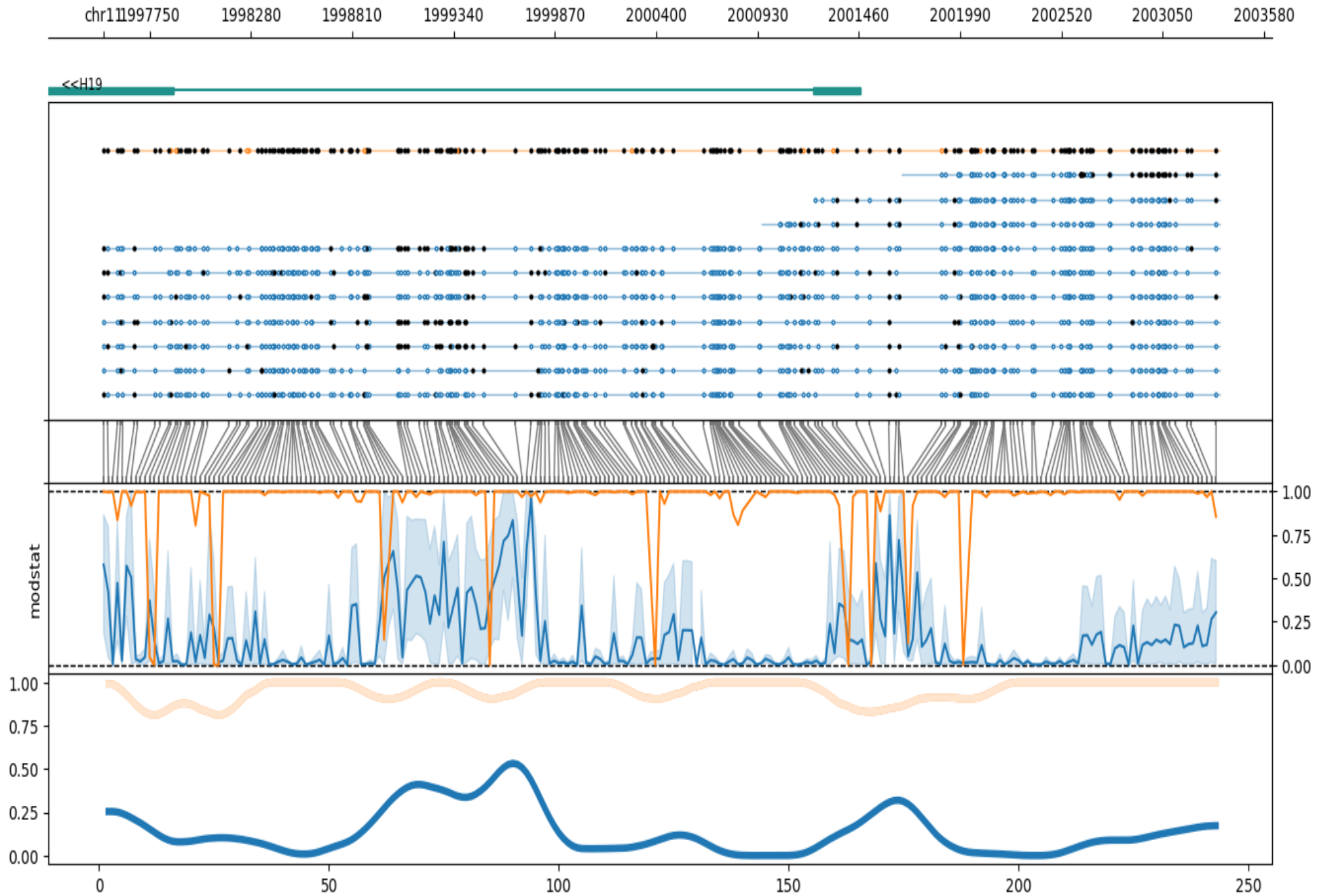


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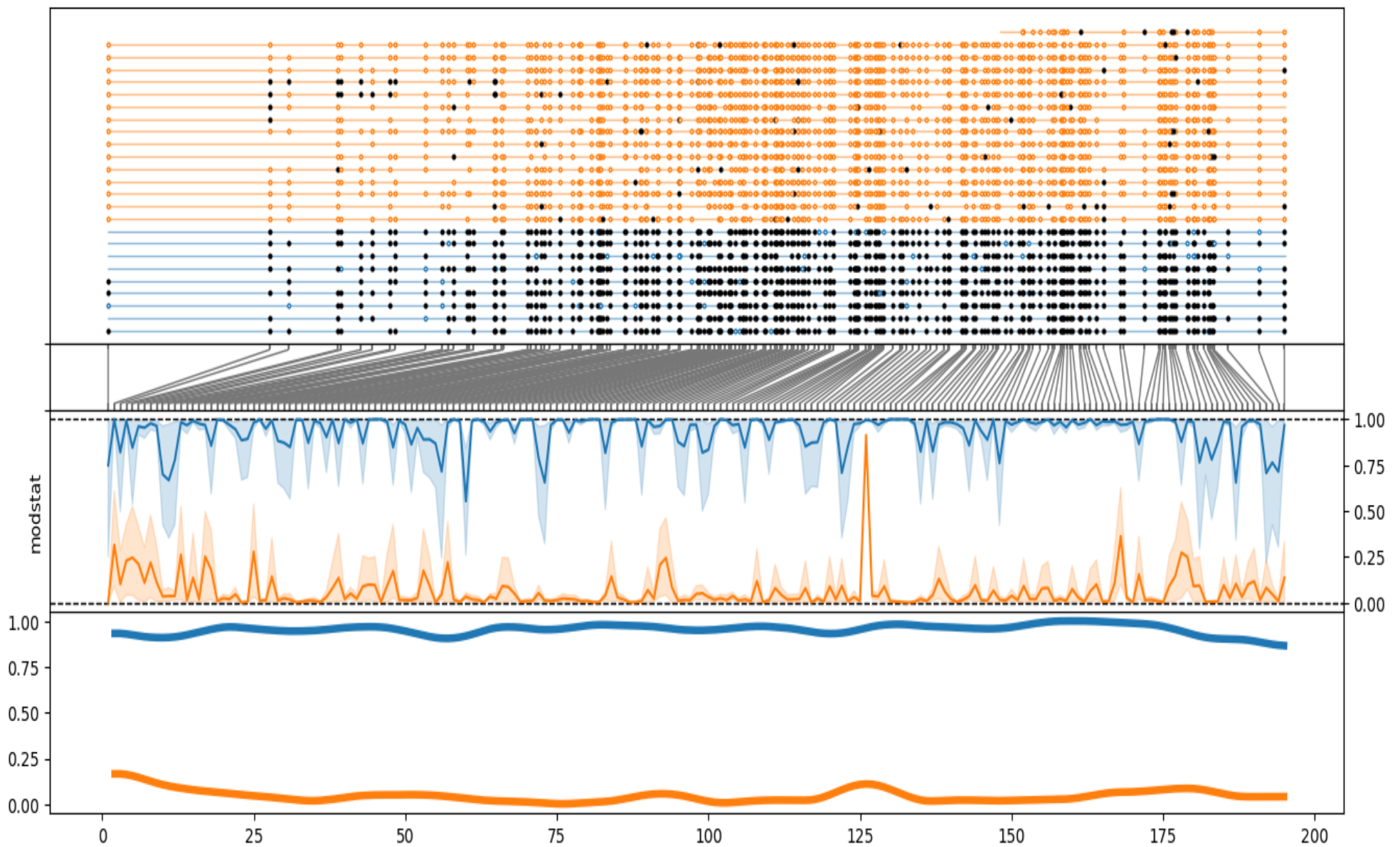
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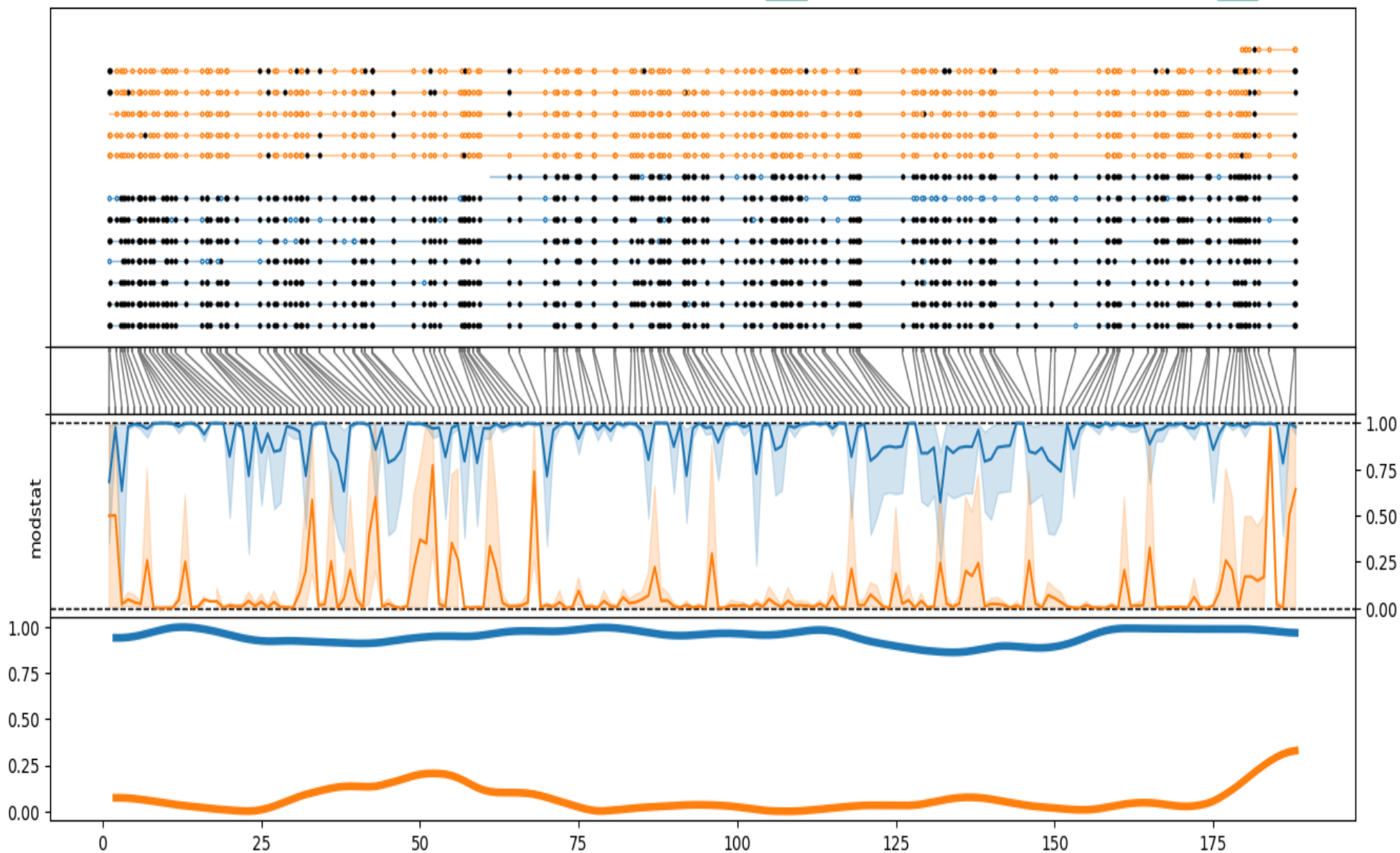
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EPI_08_hg38_phased_chr14_100824185_100827640

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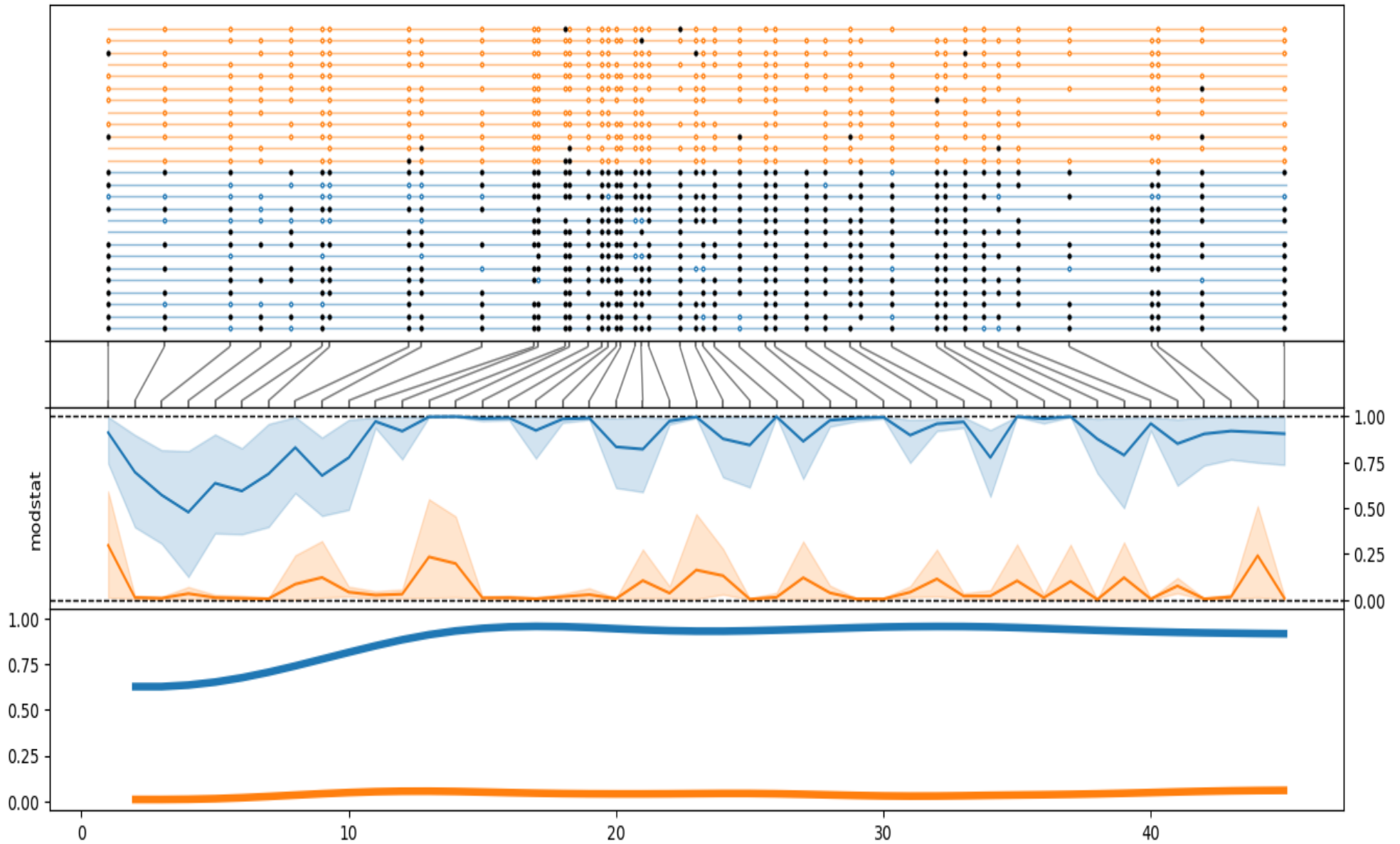
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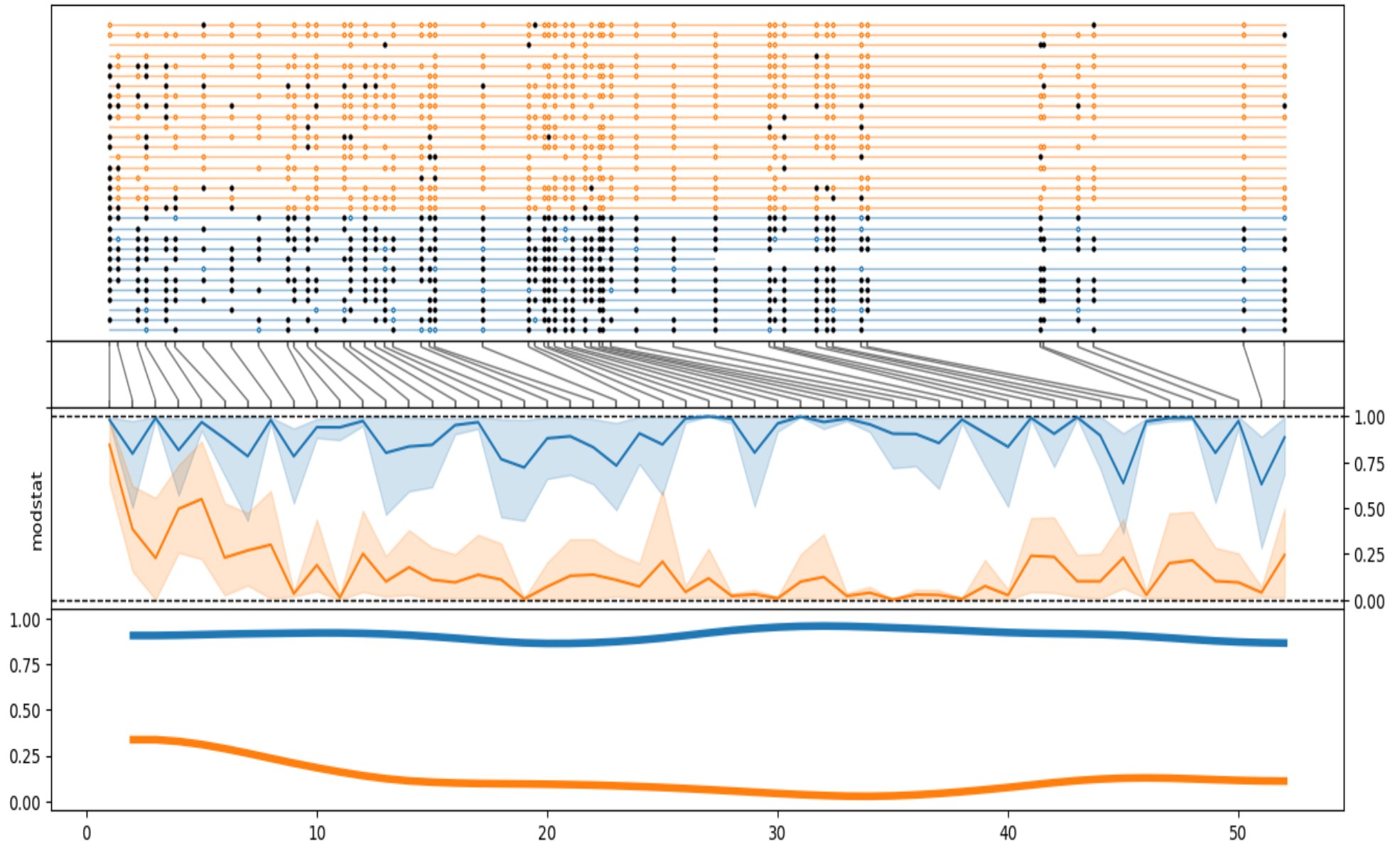
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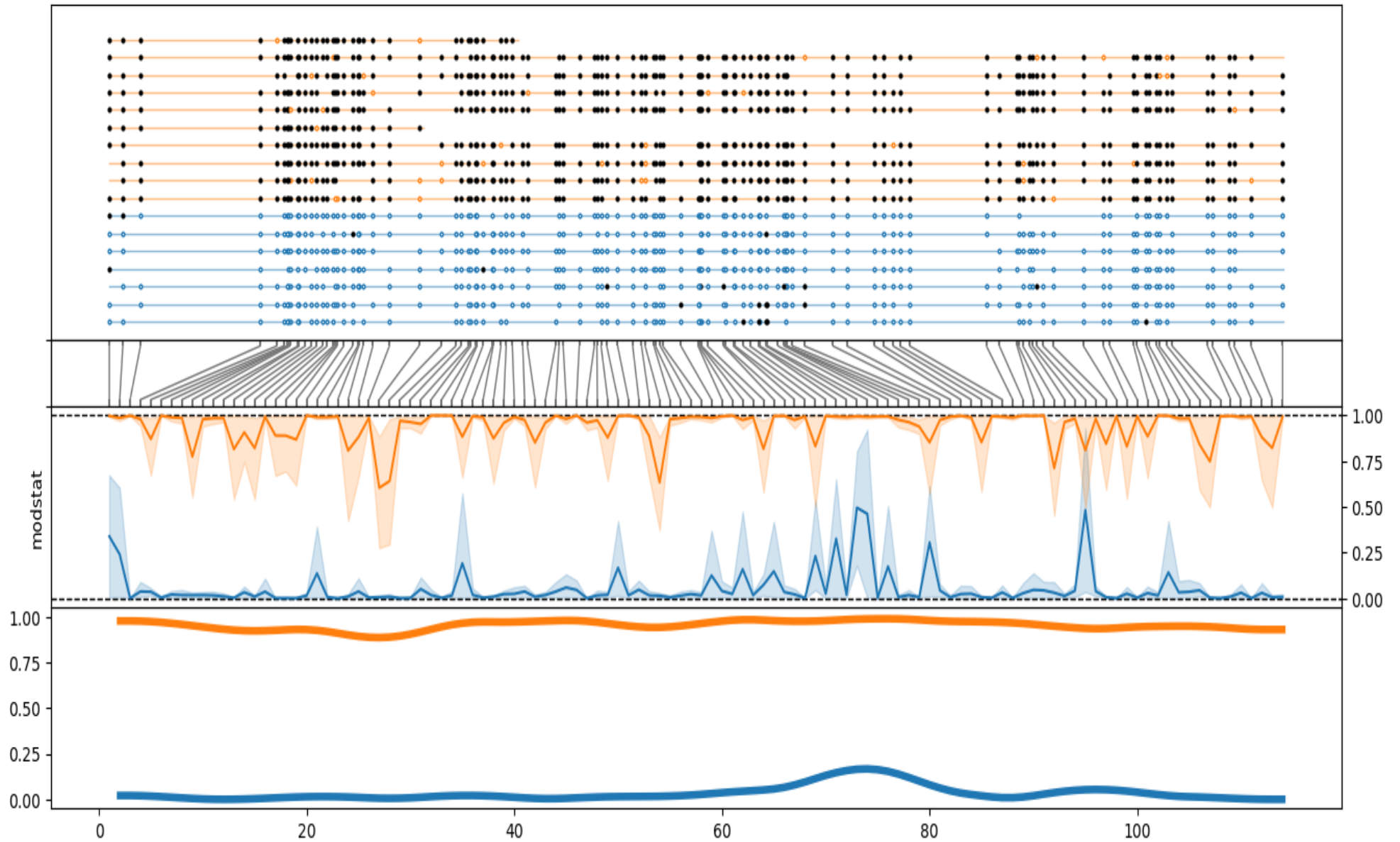
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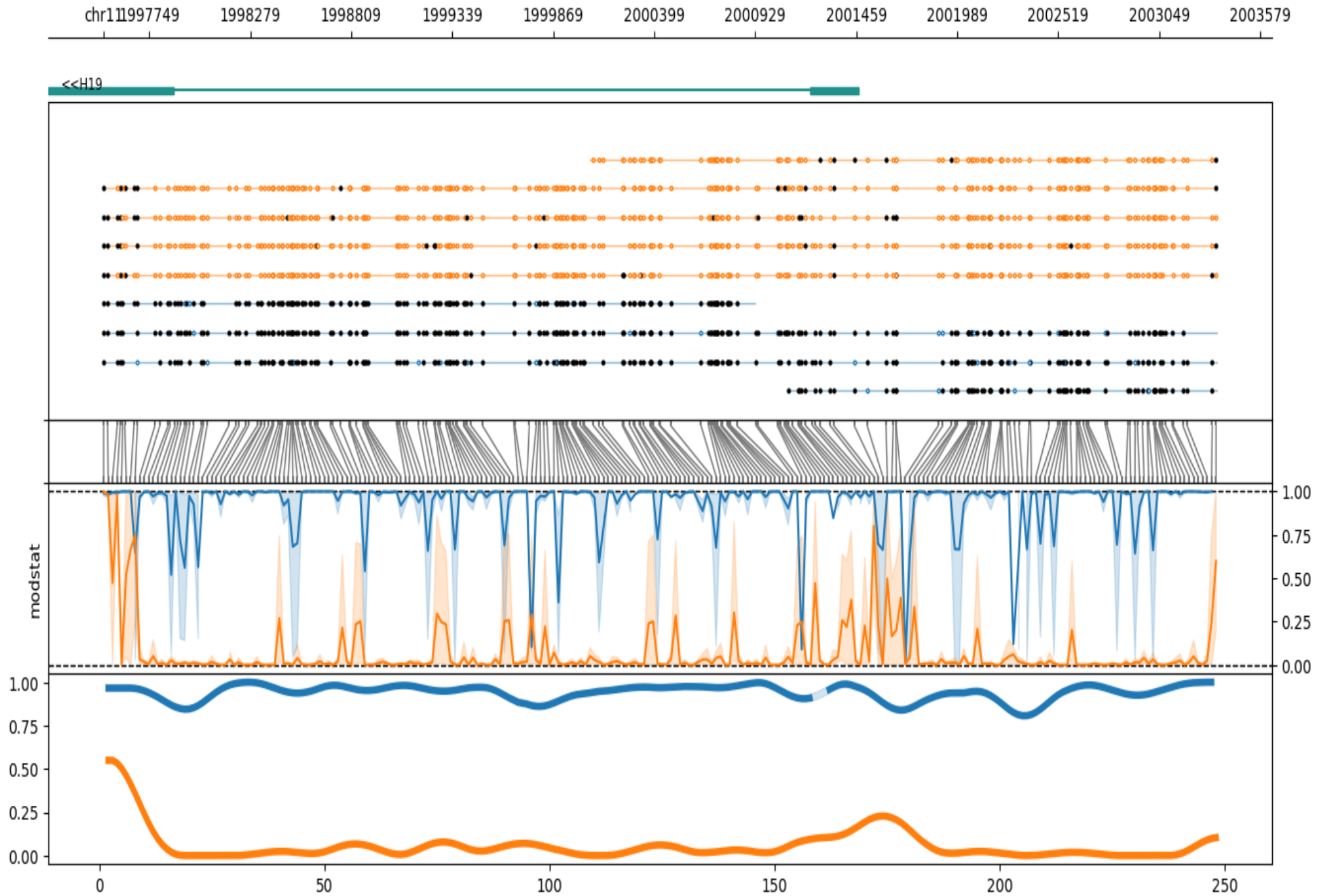
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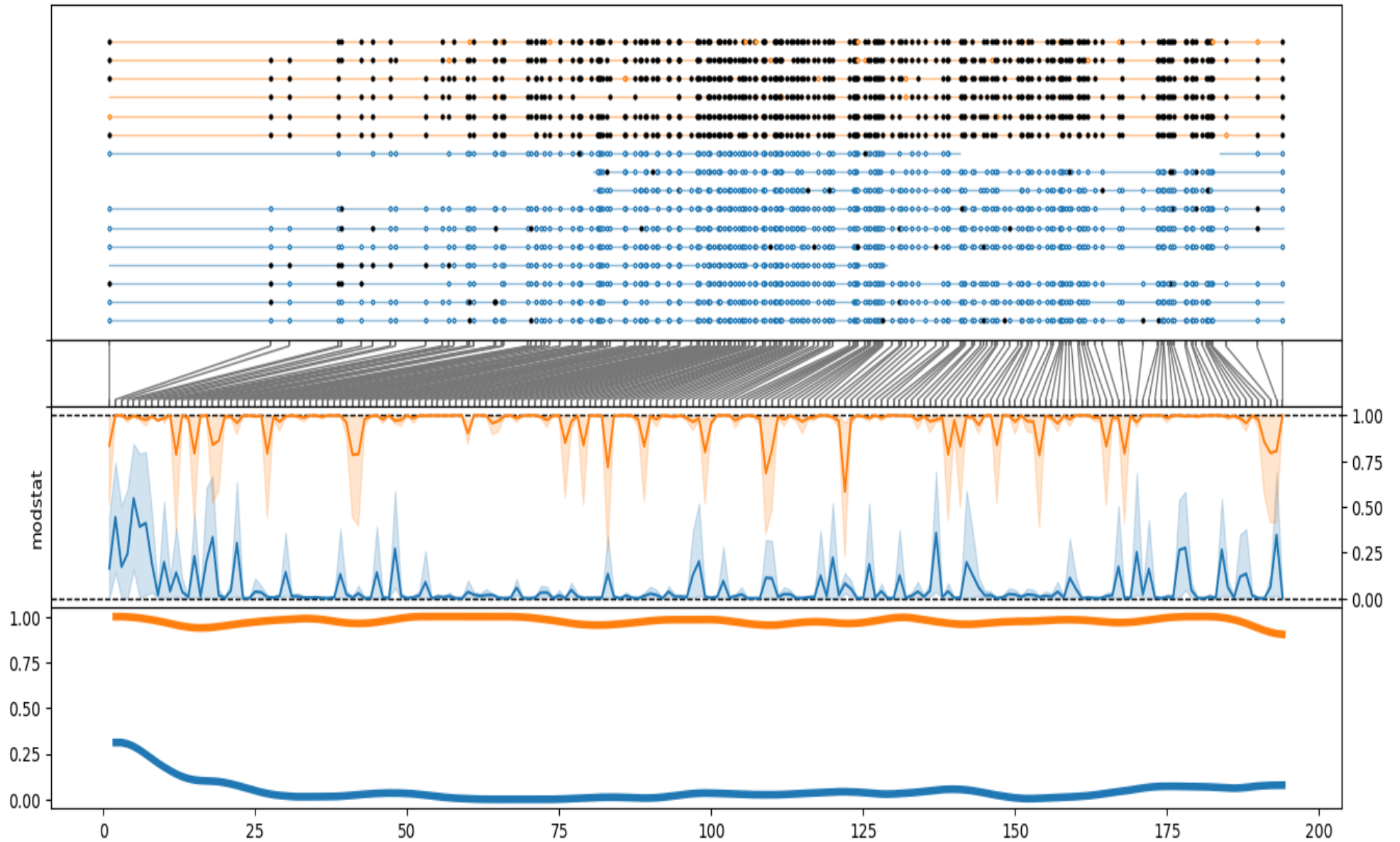
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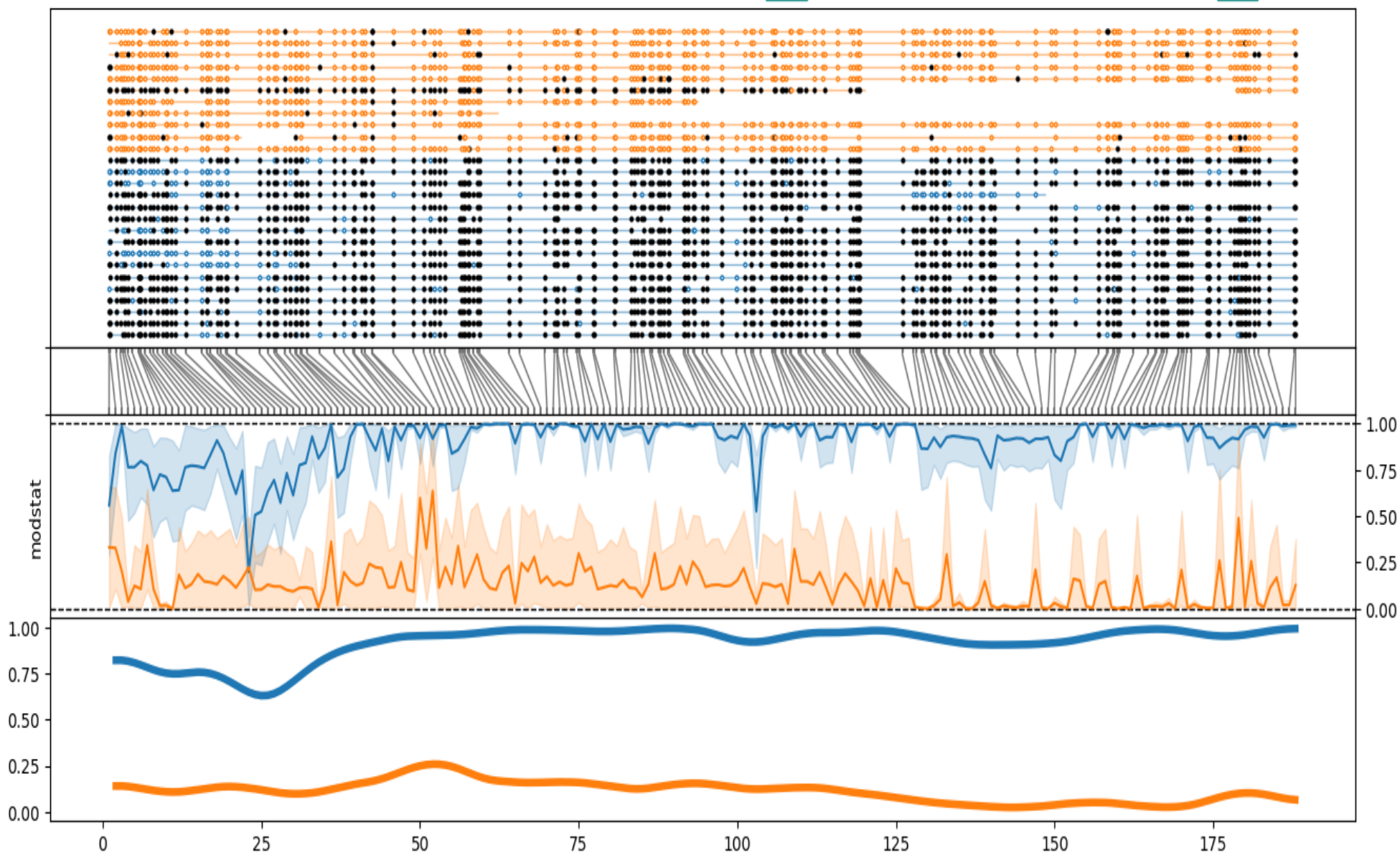
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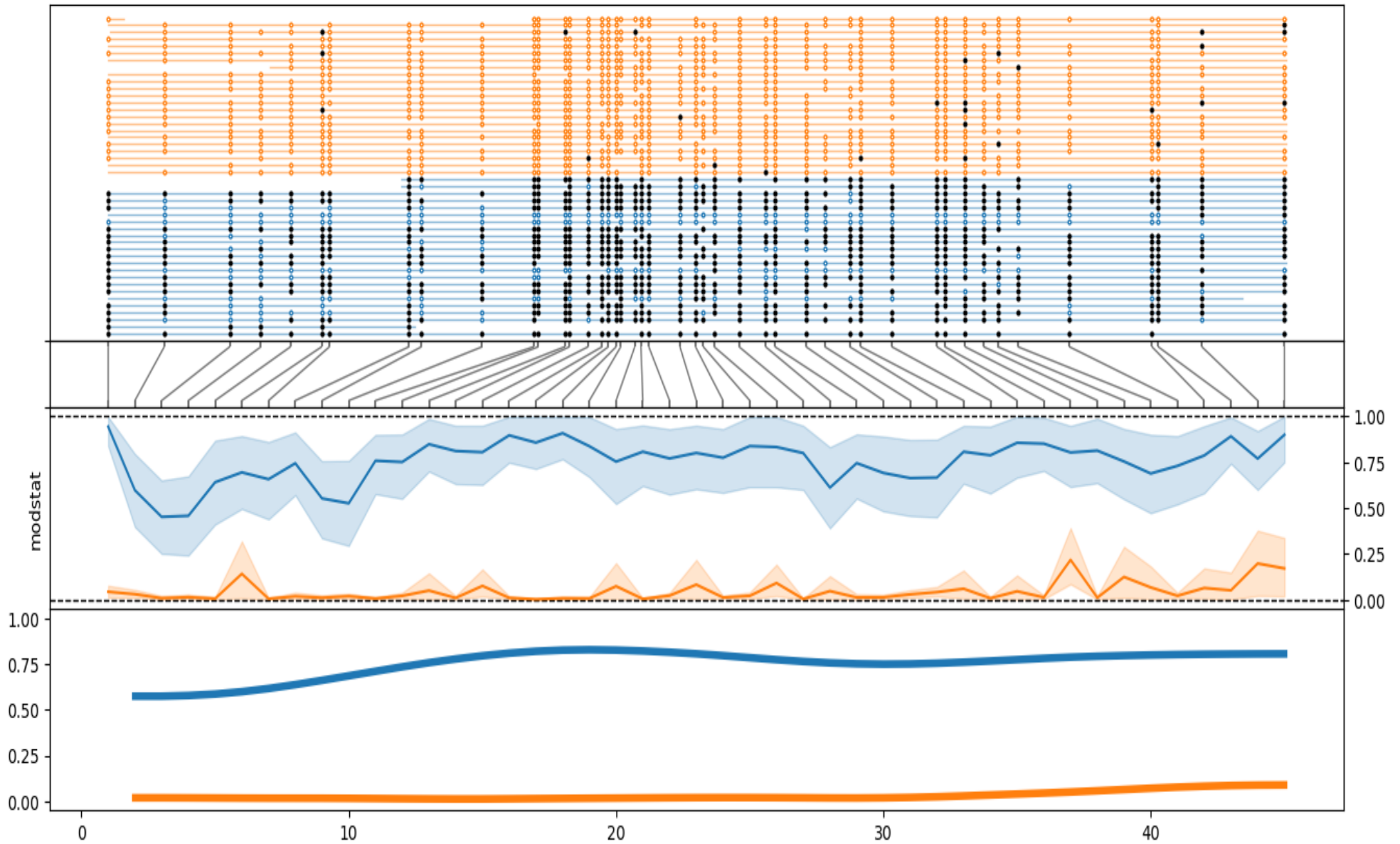
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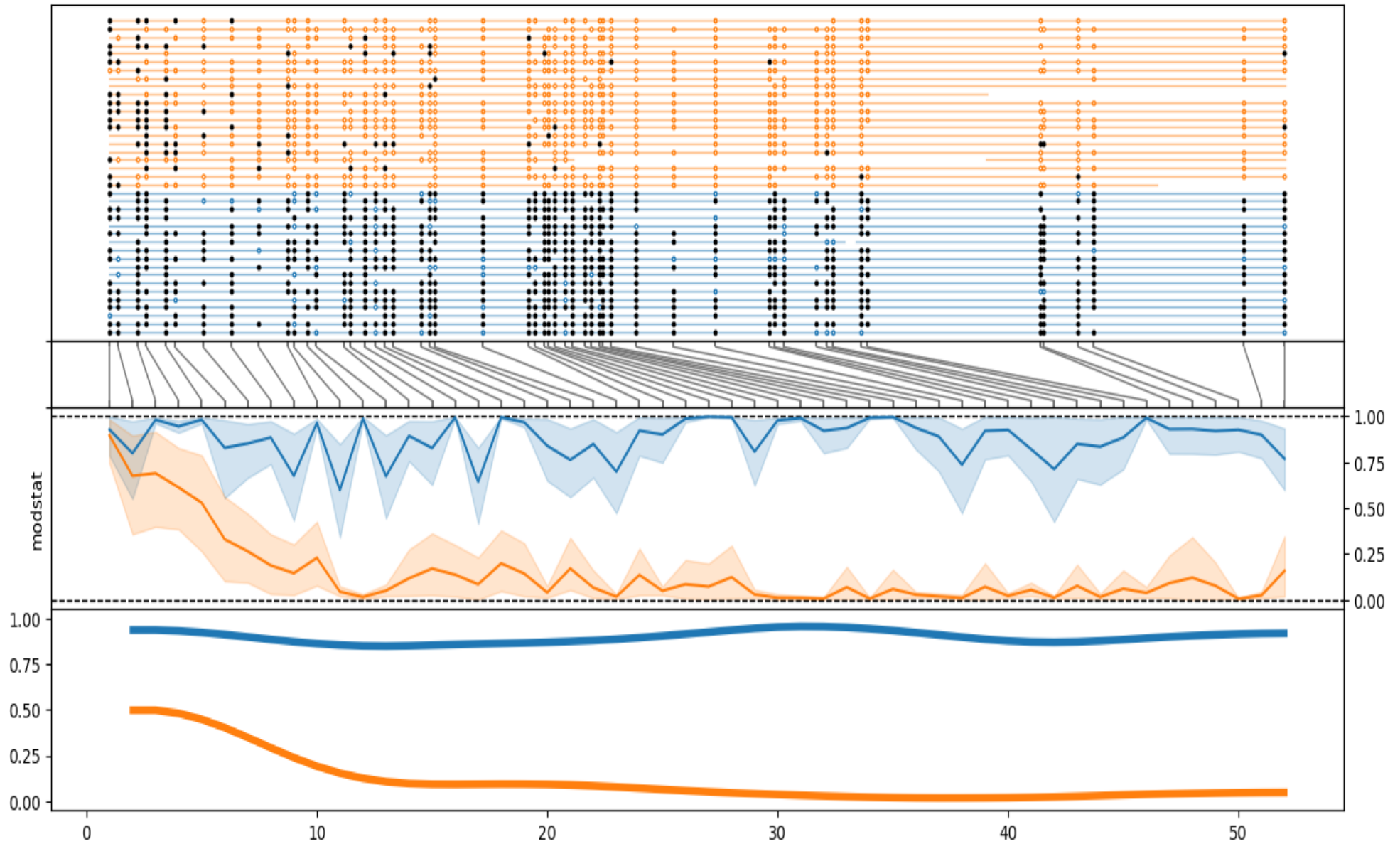
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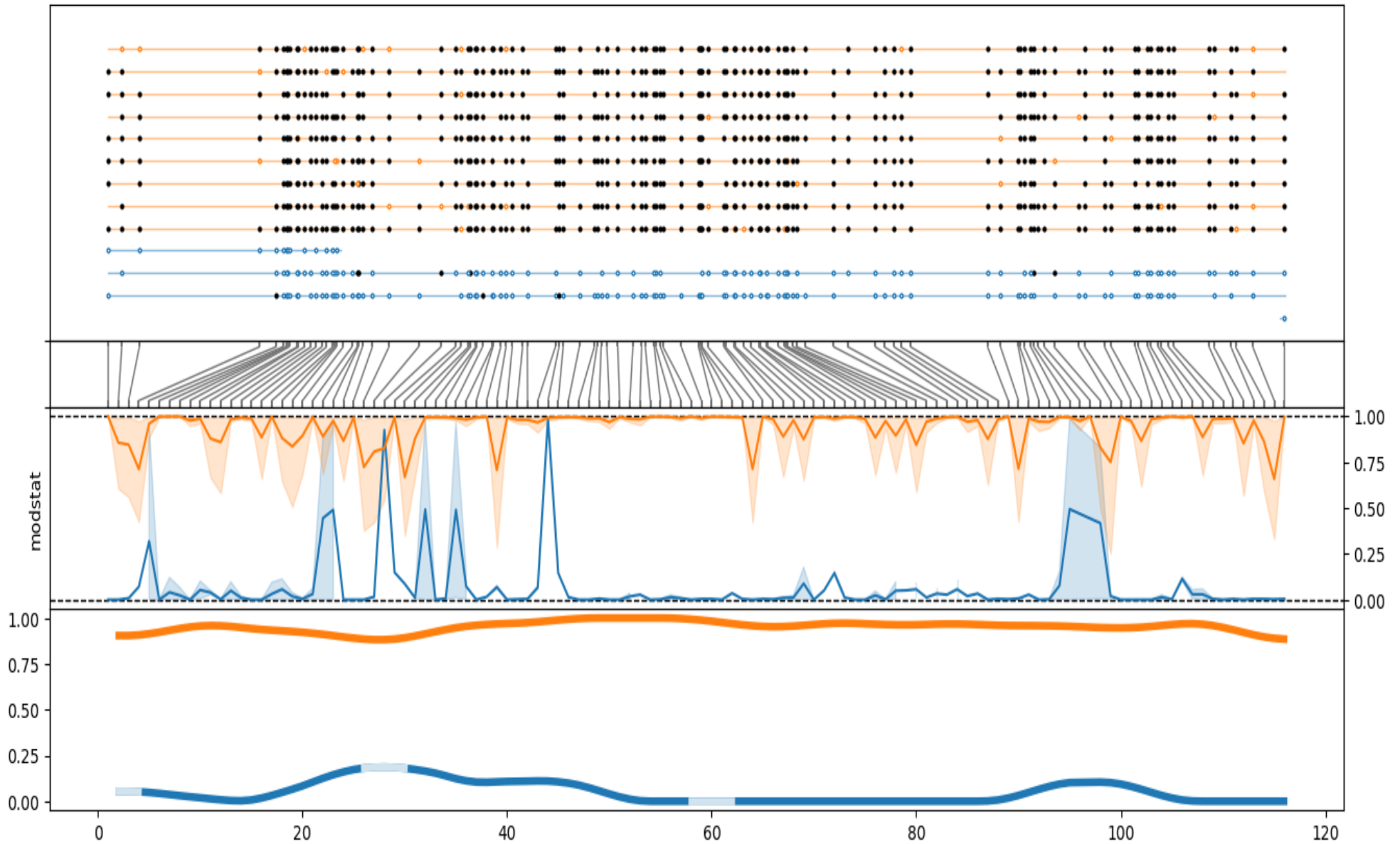
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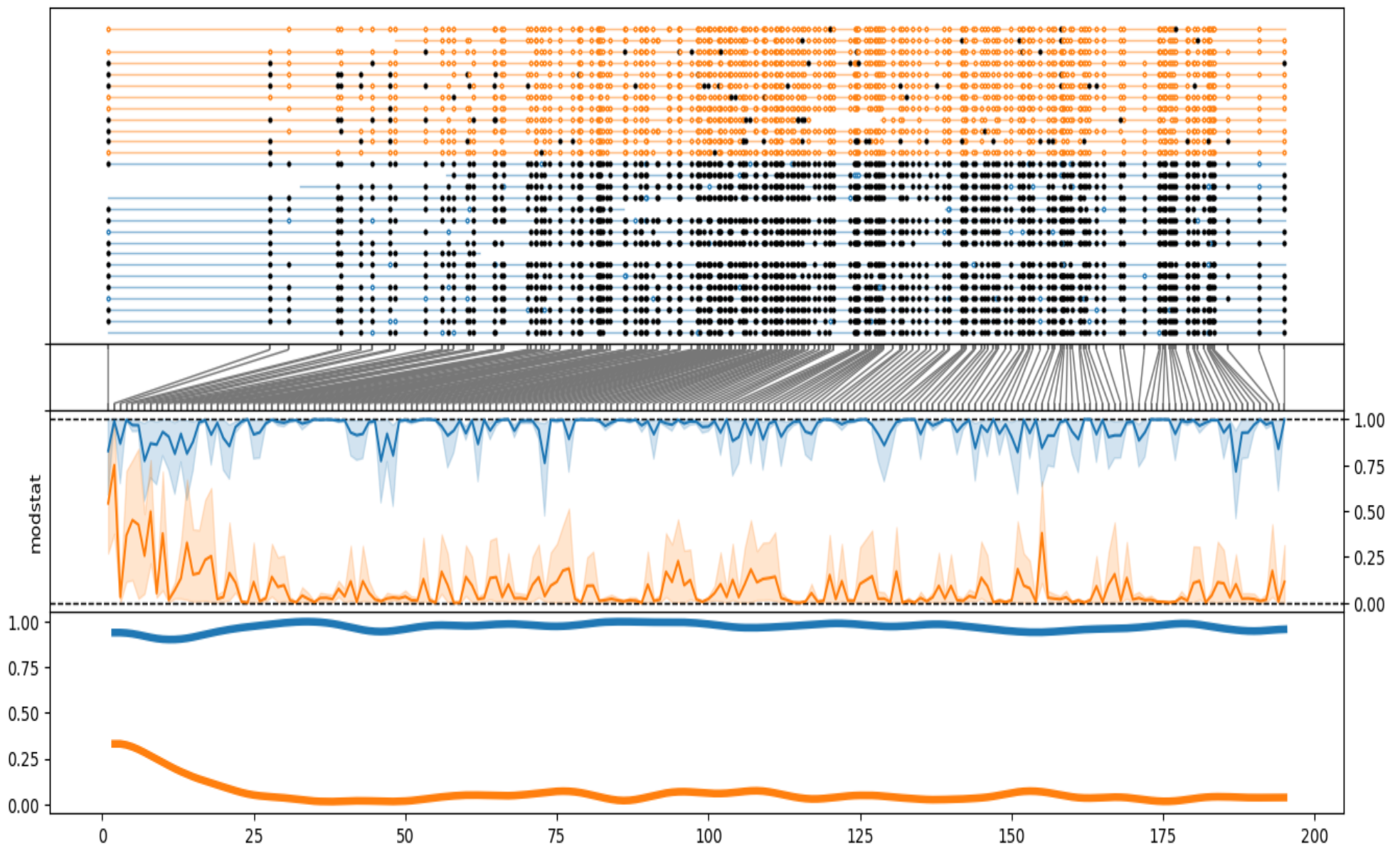
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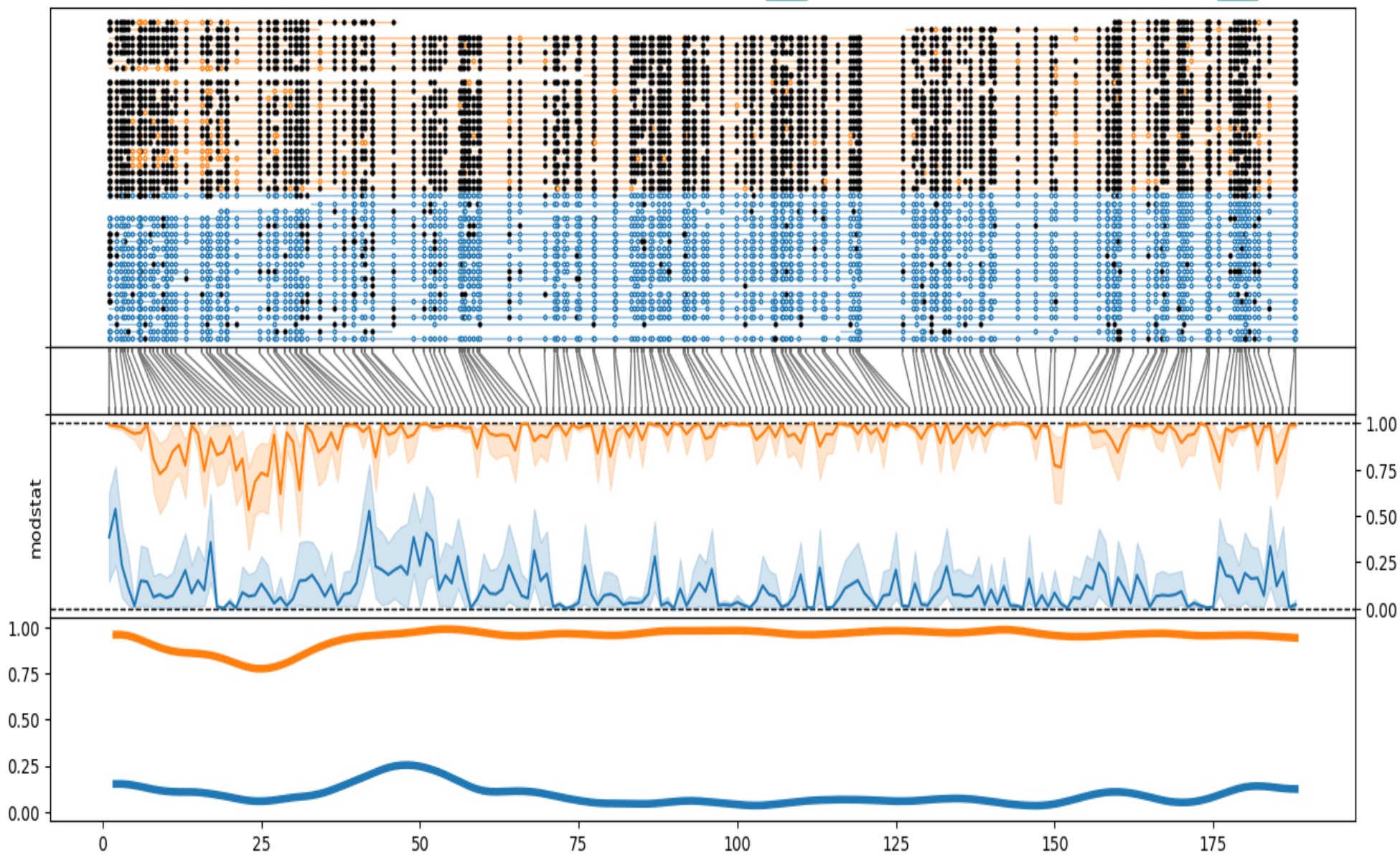
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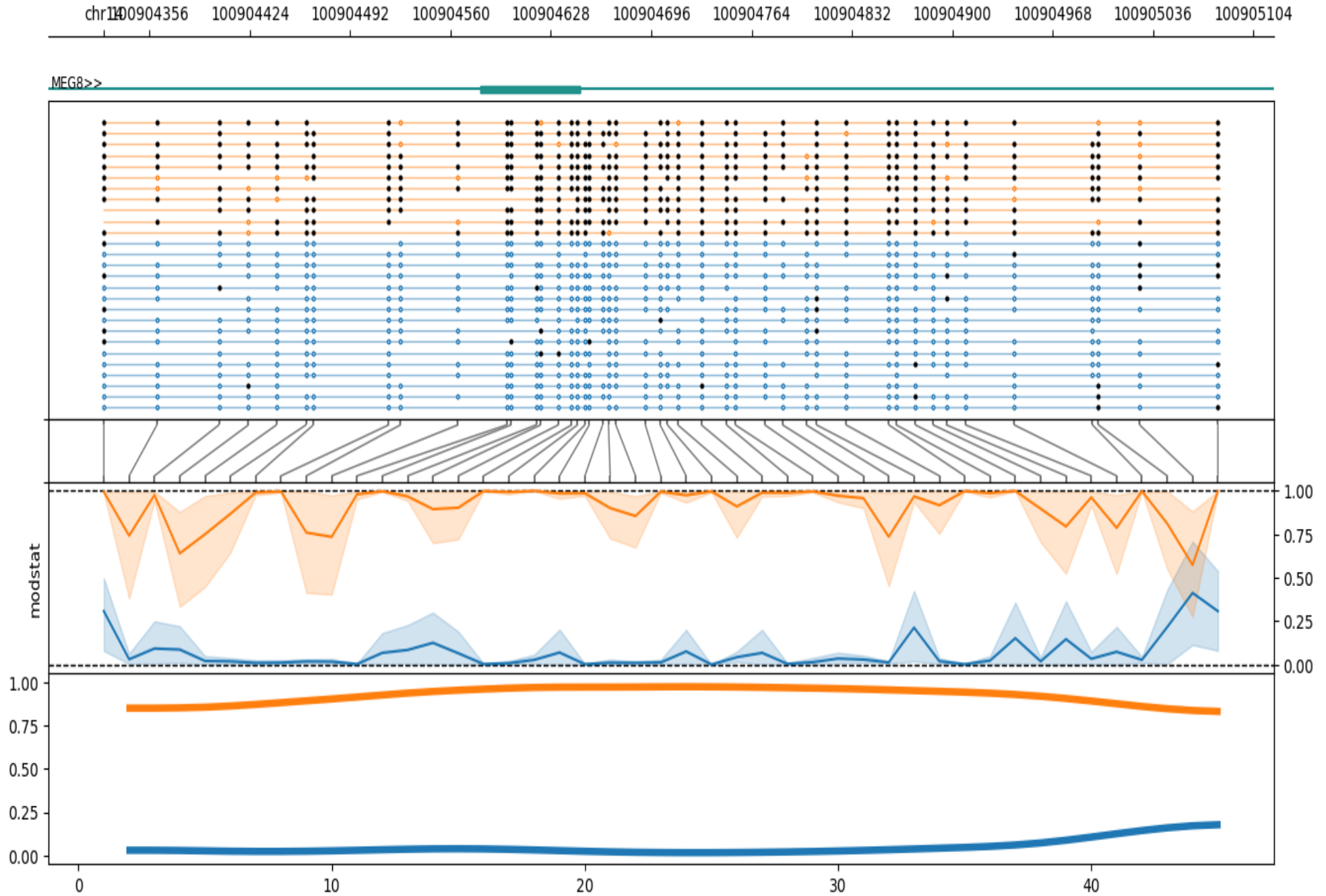
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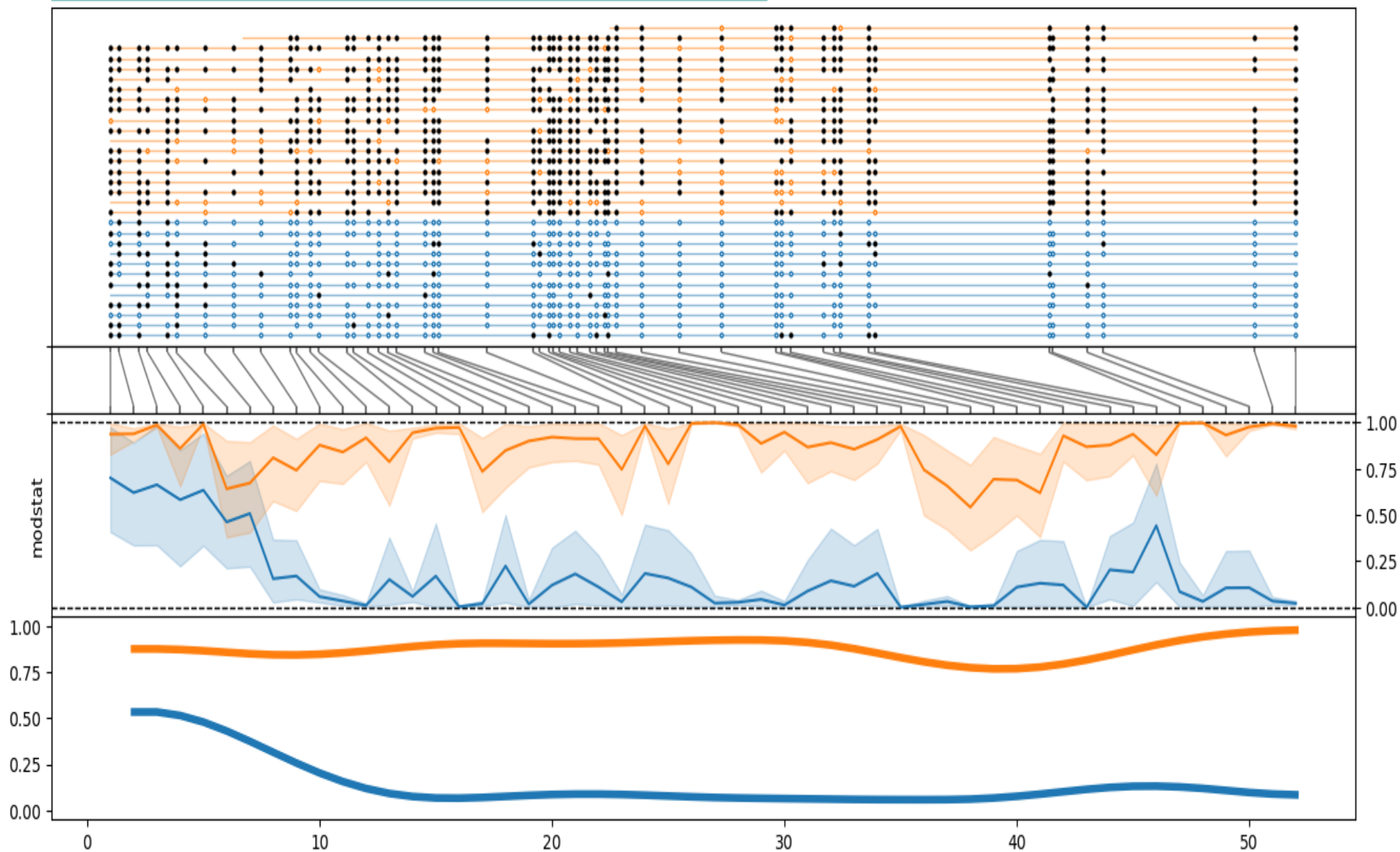
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EPI_10_hg38_phased_chr15_23647178_23648424

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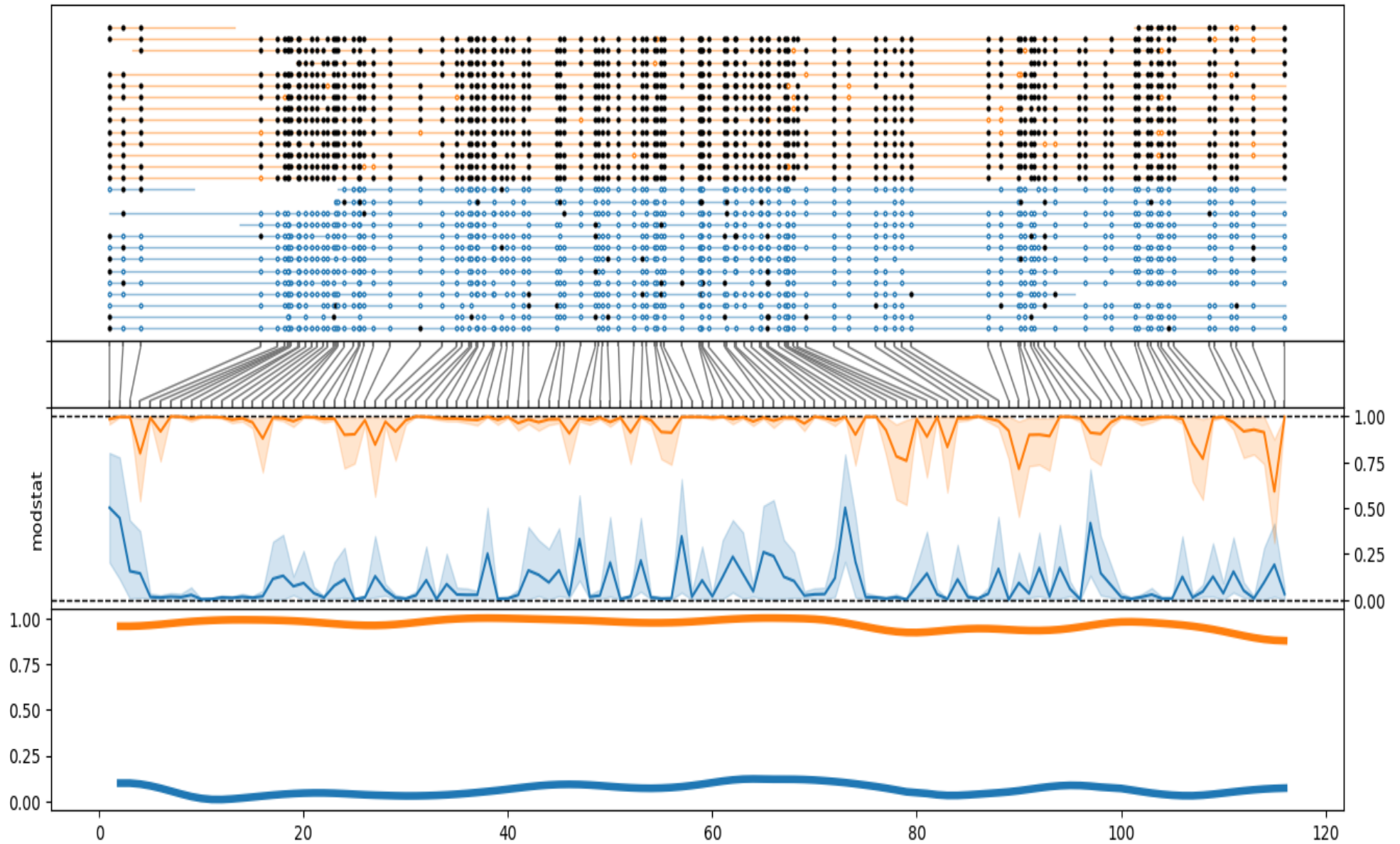
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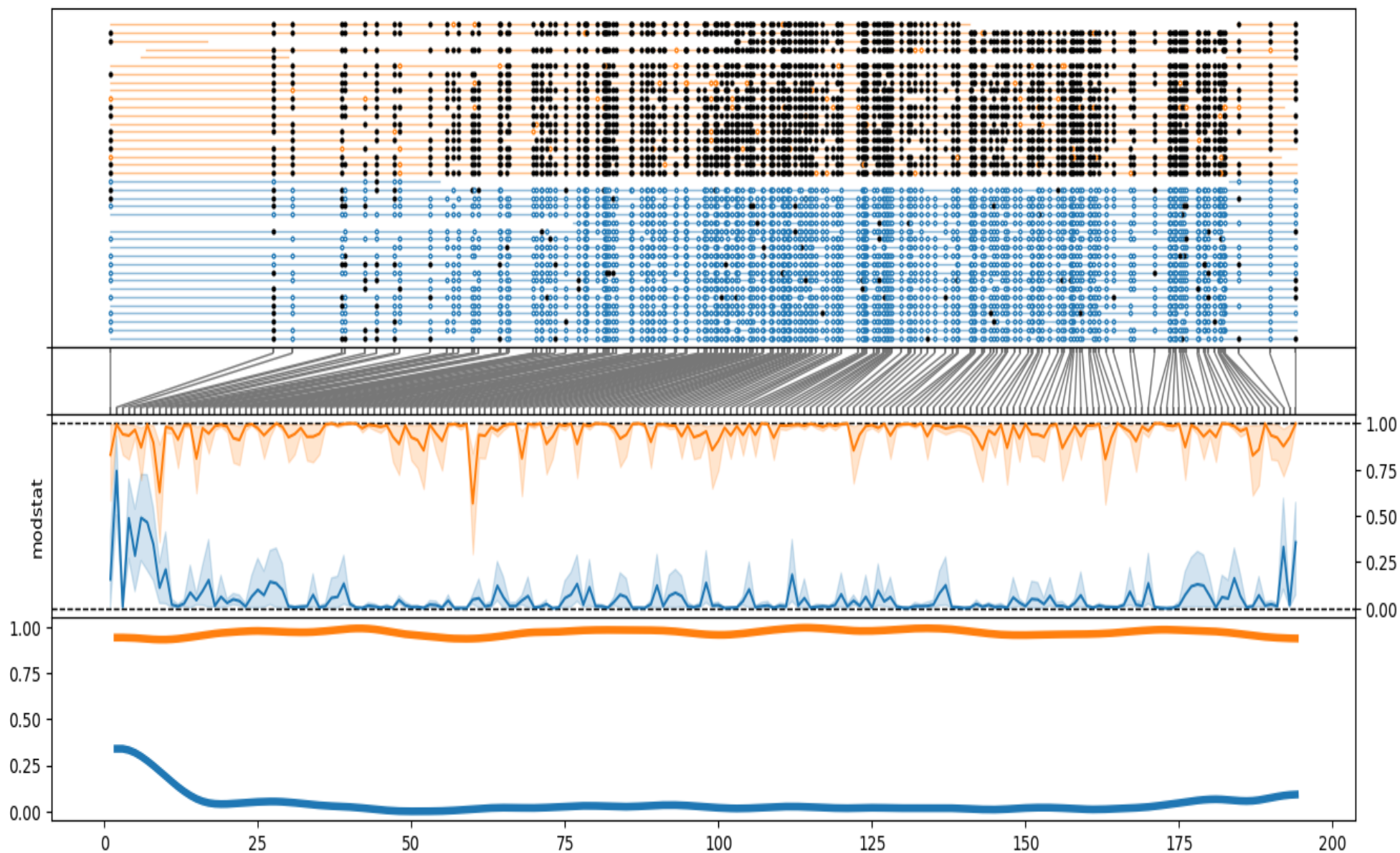
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EPI_11_hg38_phased_chr11_2698155_2701028

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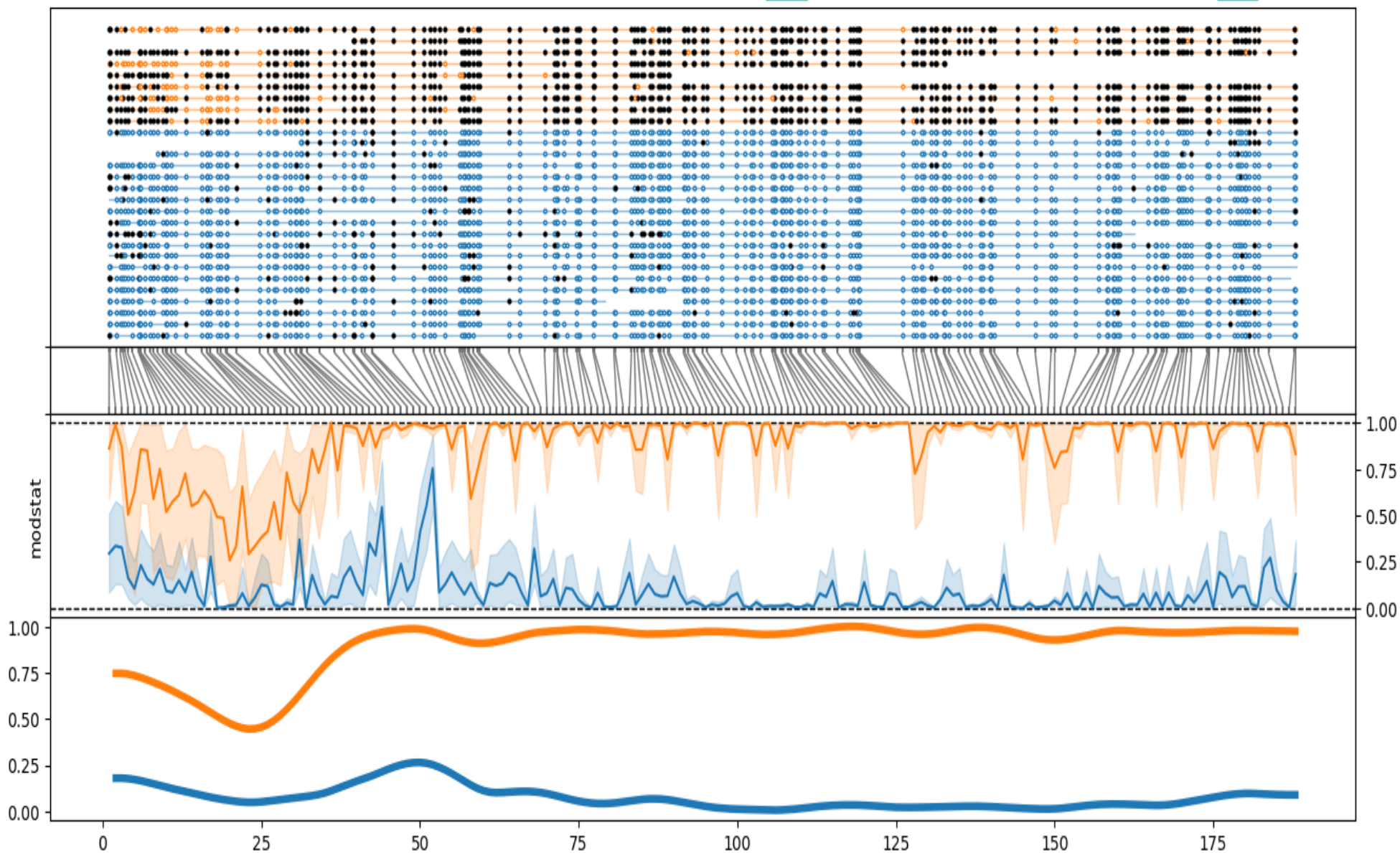
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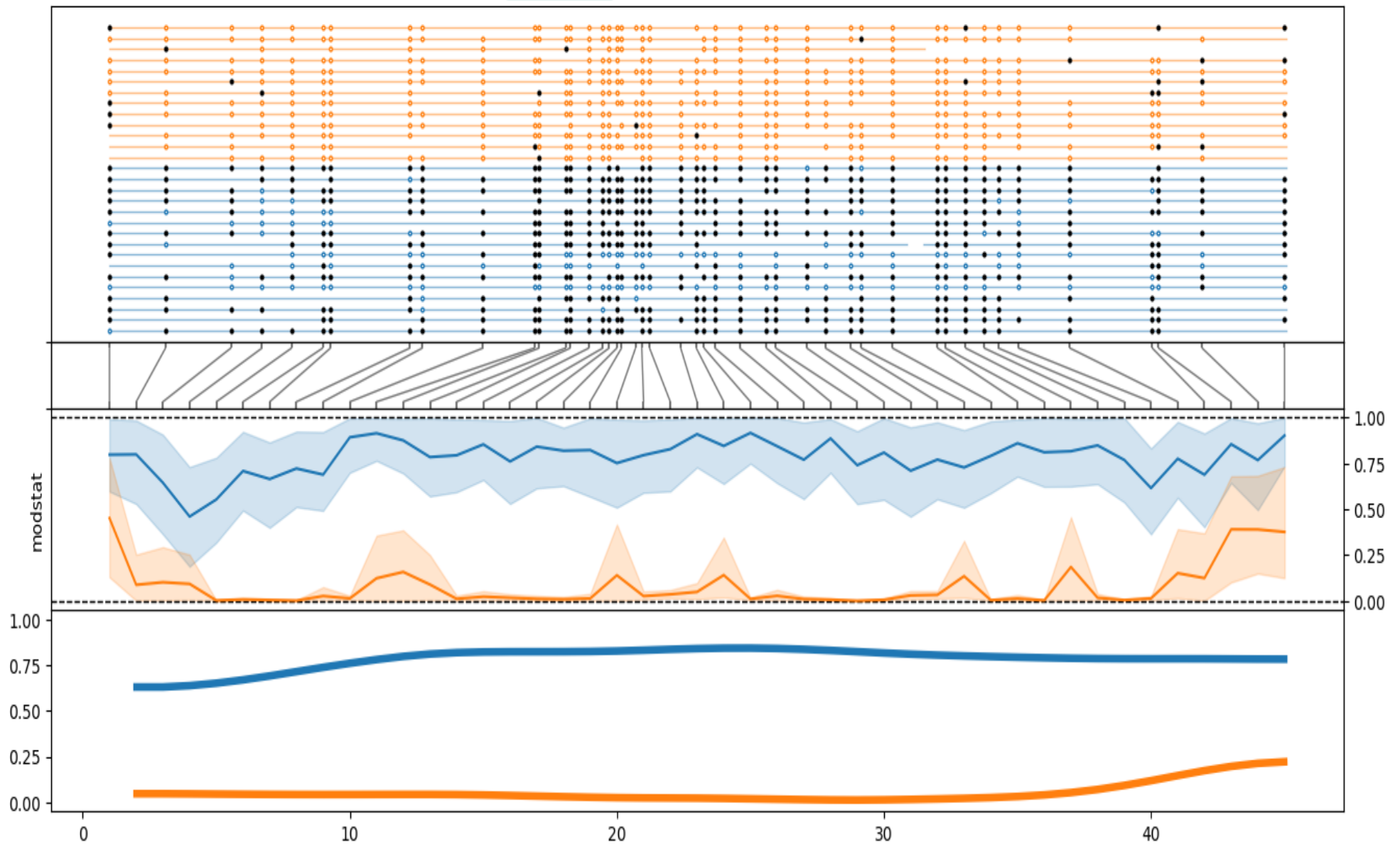
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EPI_11_hg38_phased_chr14_100904325_100905081

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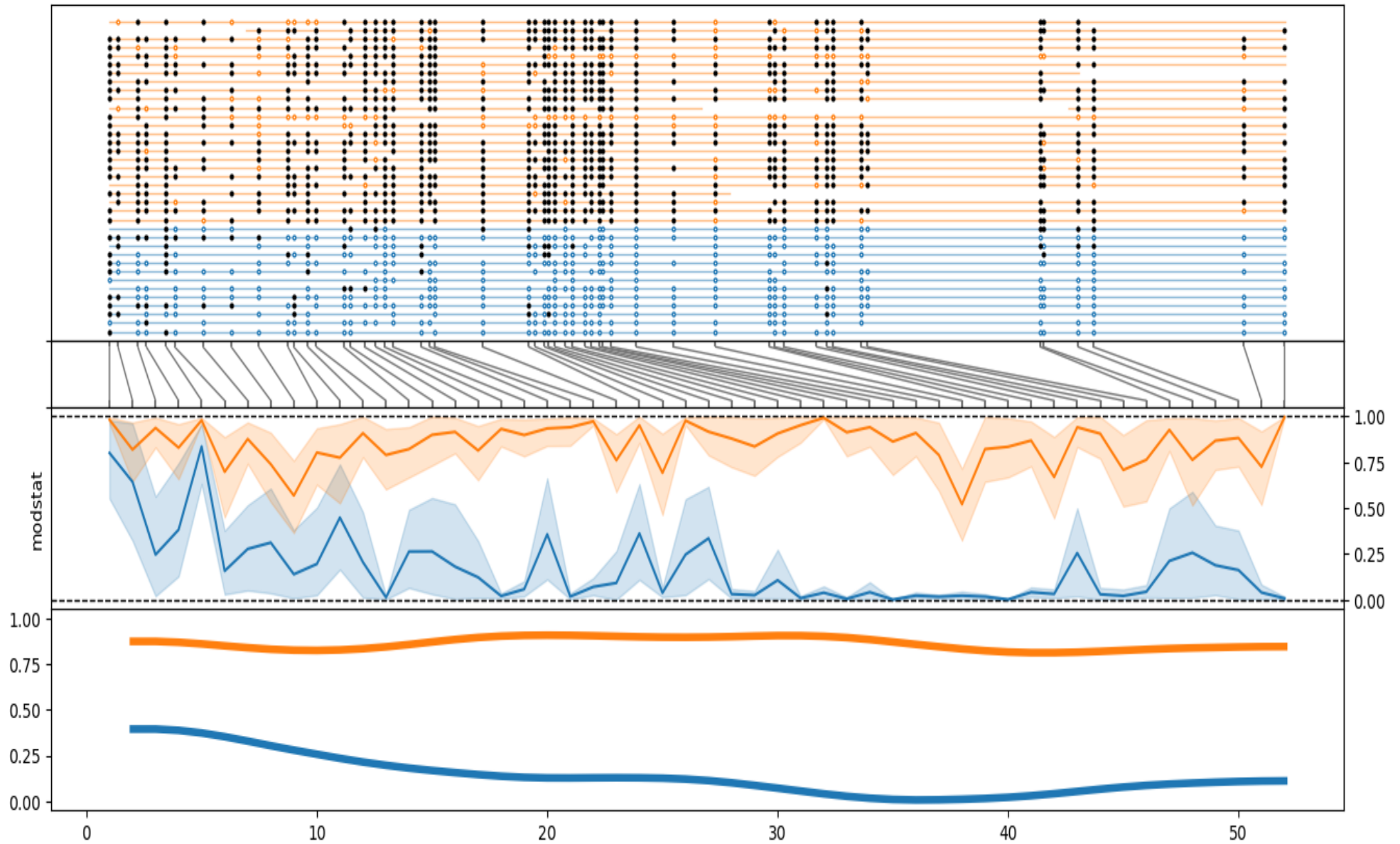
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EPI_11_hg38_phased_chr15_23647178_23648424

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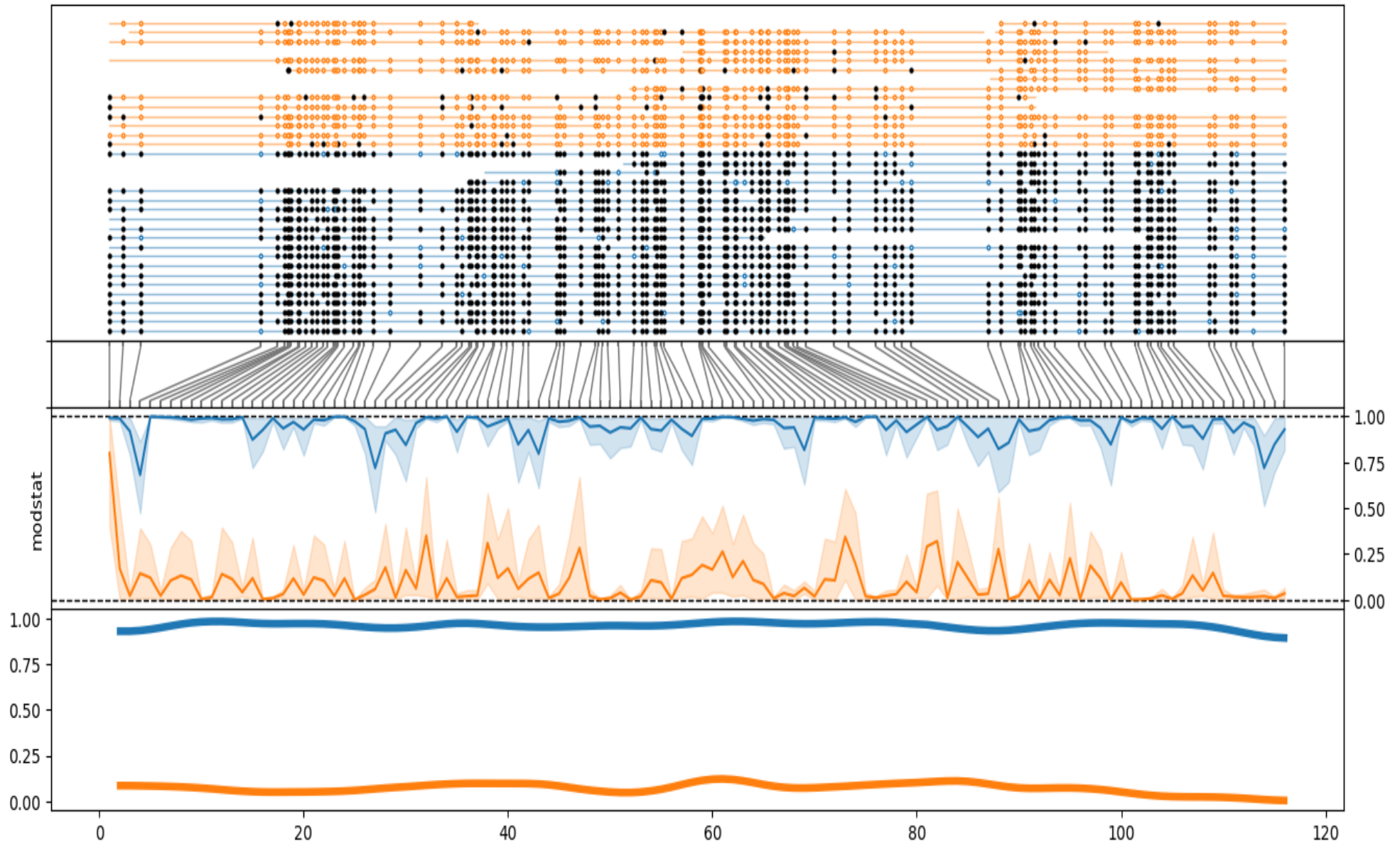
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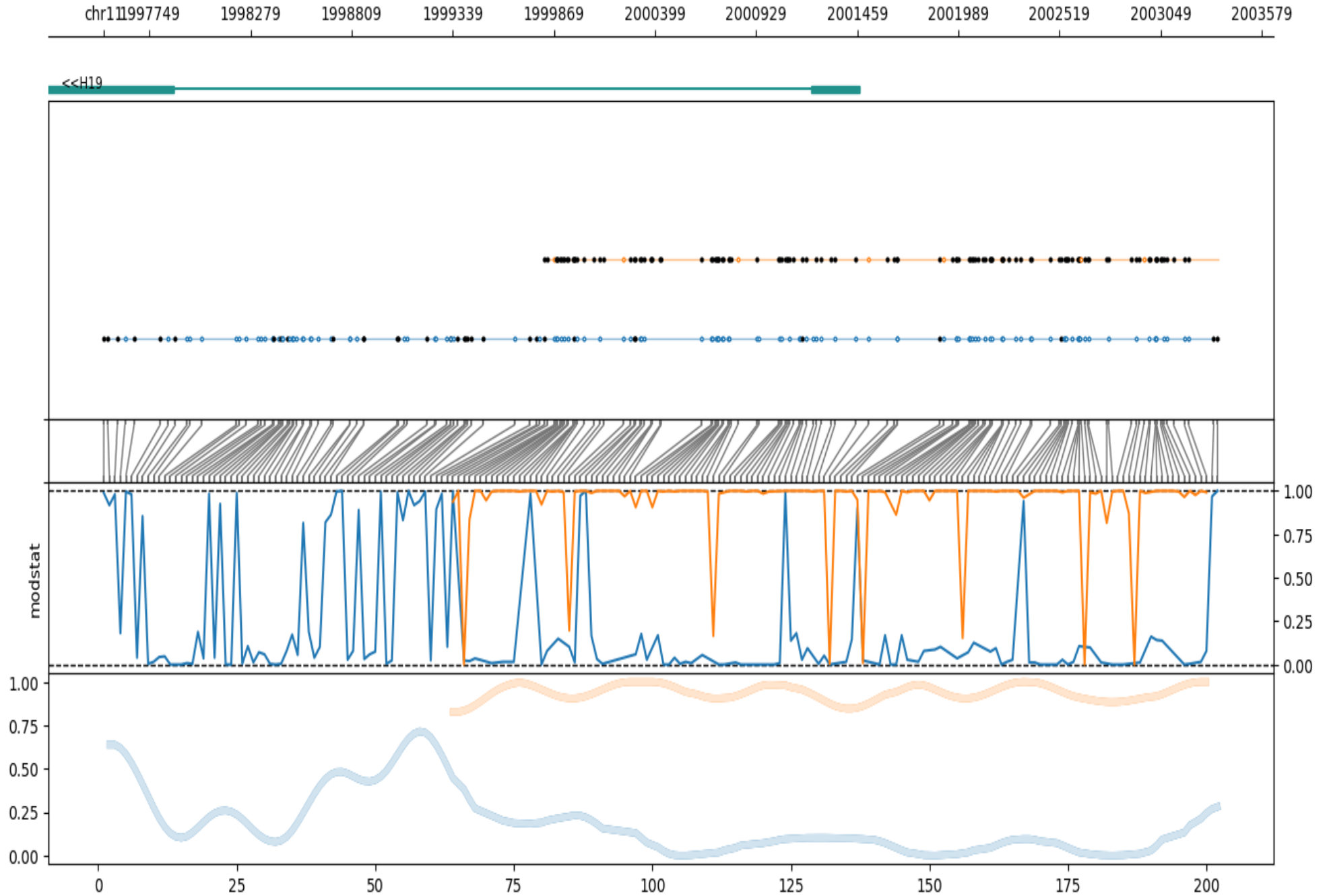
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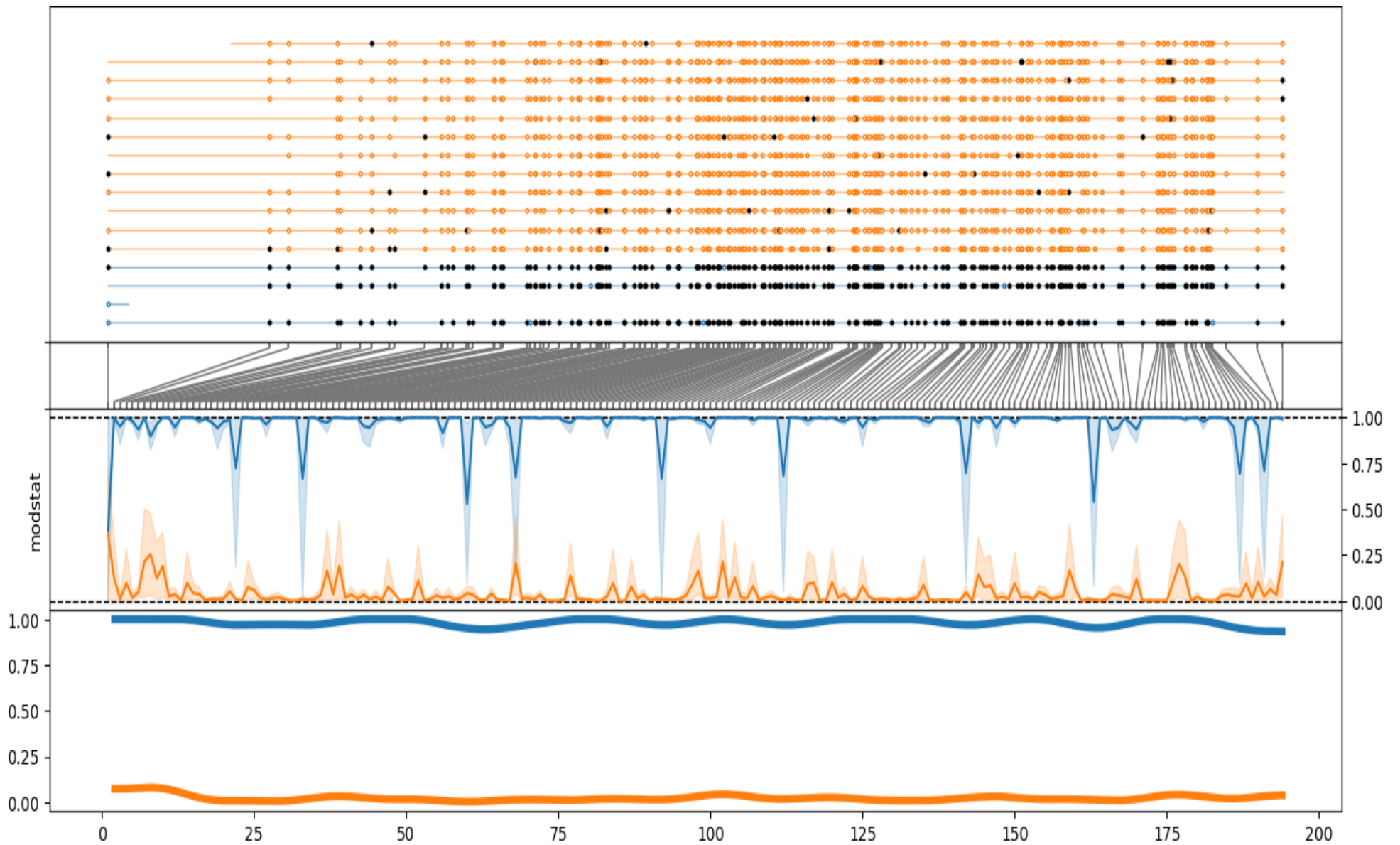
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EPI_12_hg38_phased_chr11_2698155_2701028

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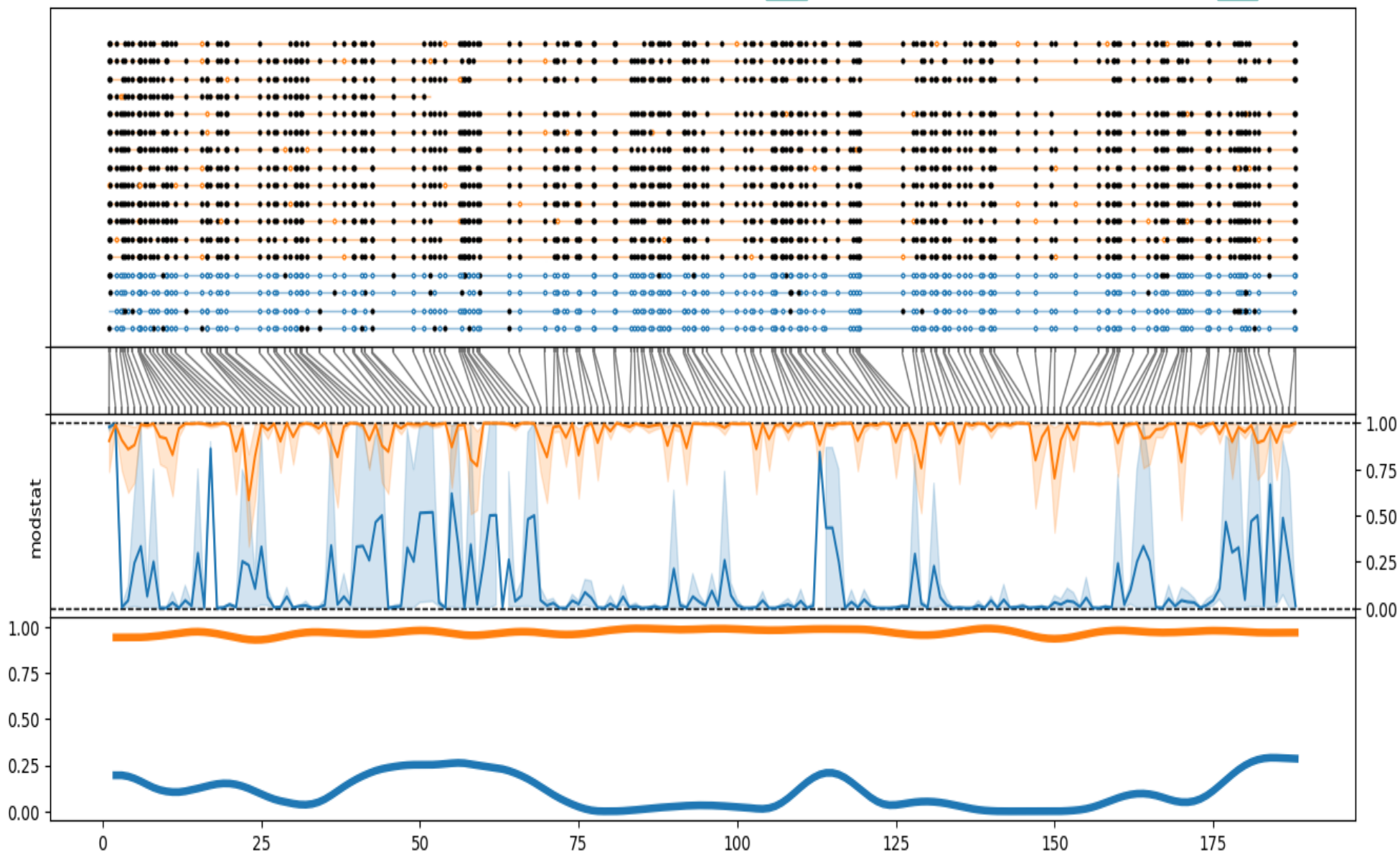
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EPI_12_hg38_phased_chr14_100824185_100827640

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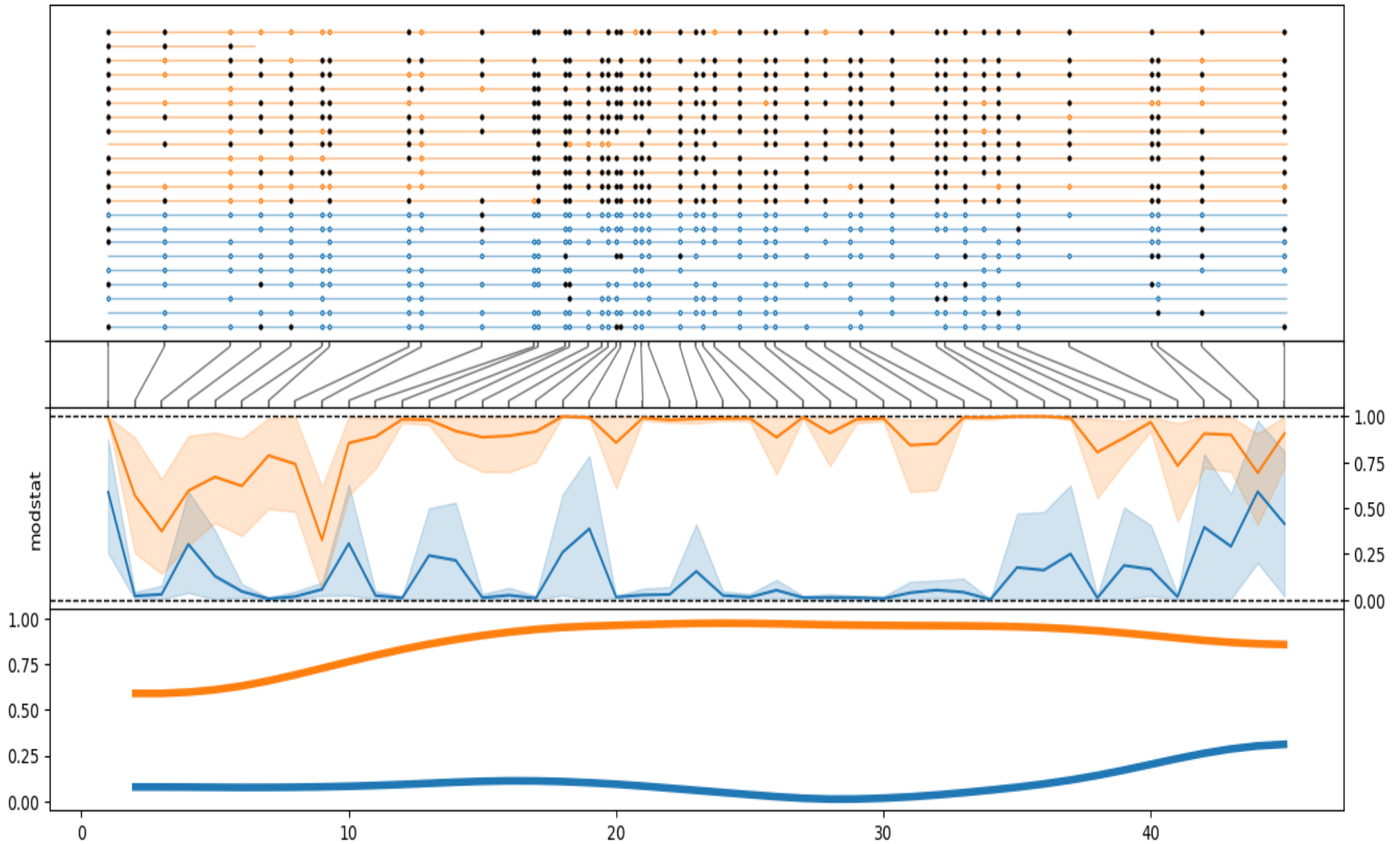
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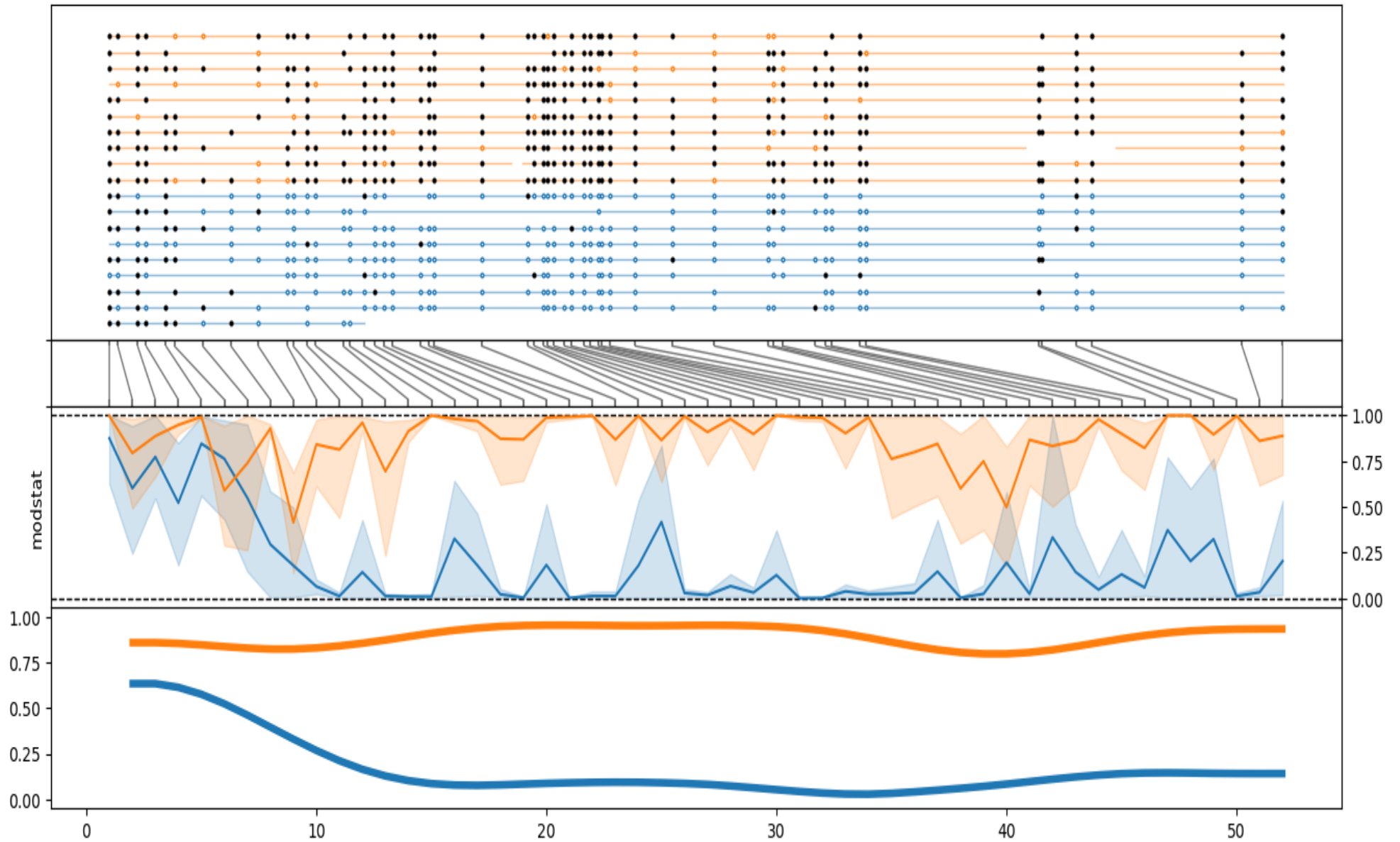
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EPI_12_hg38_phased_chr15_23647178_23648424

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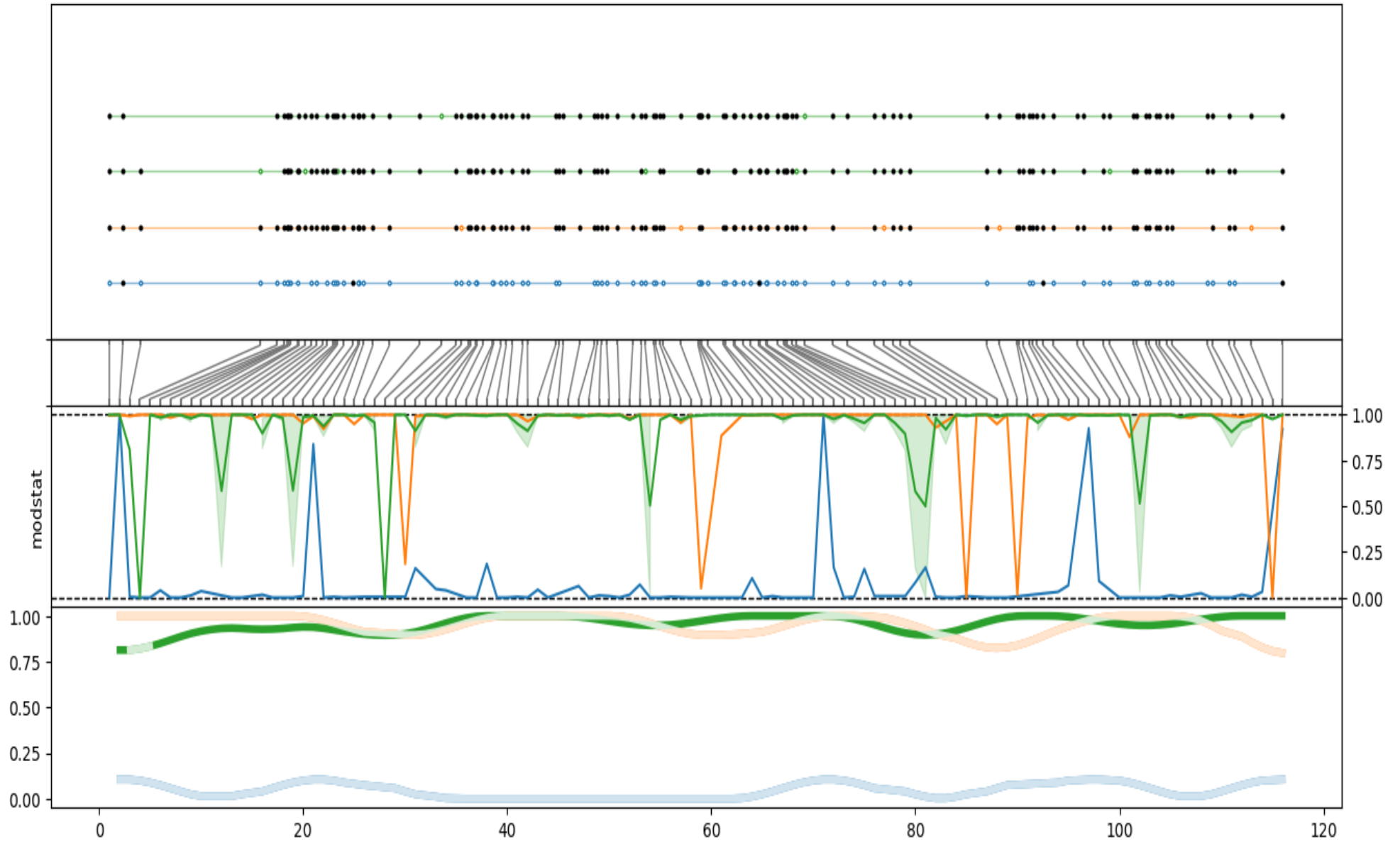
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EPI_12_hg38_phased_chr15_24954564_24956828

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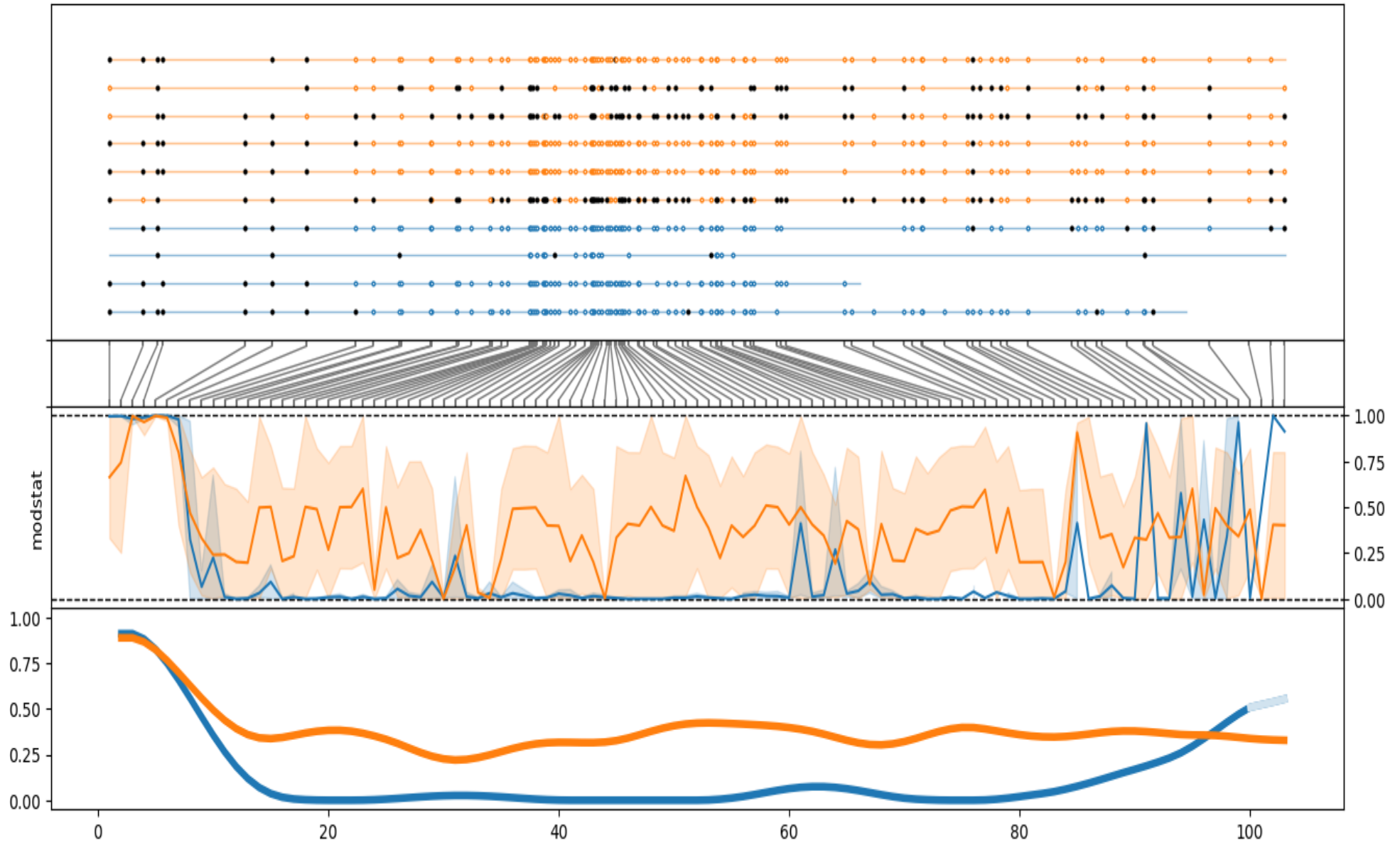
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EPI_12_hg38_phased_chrX_134372110_134374891

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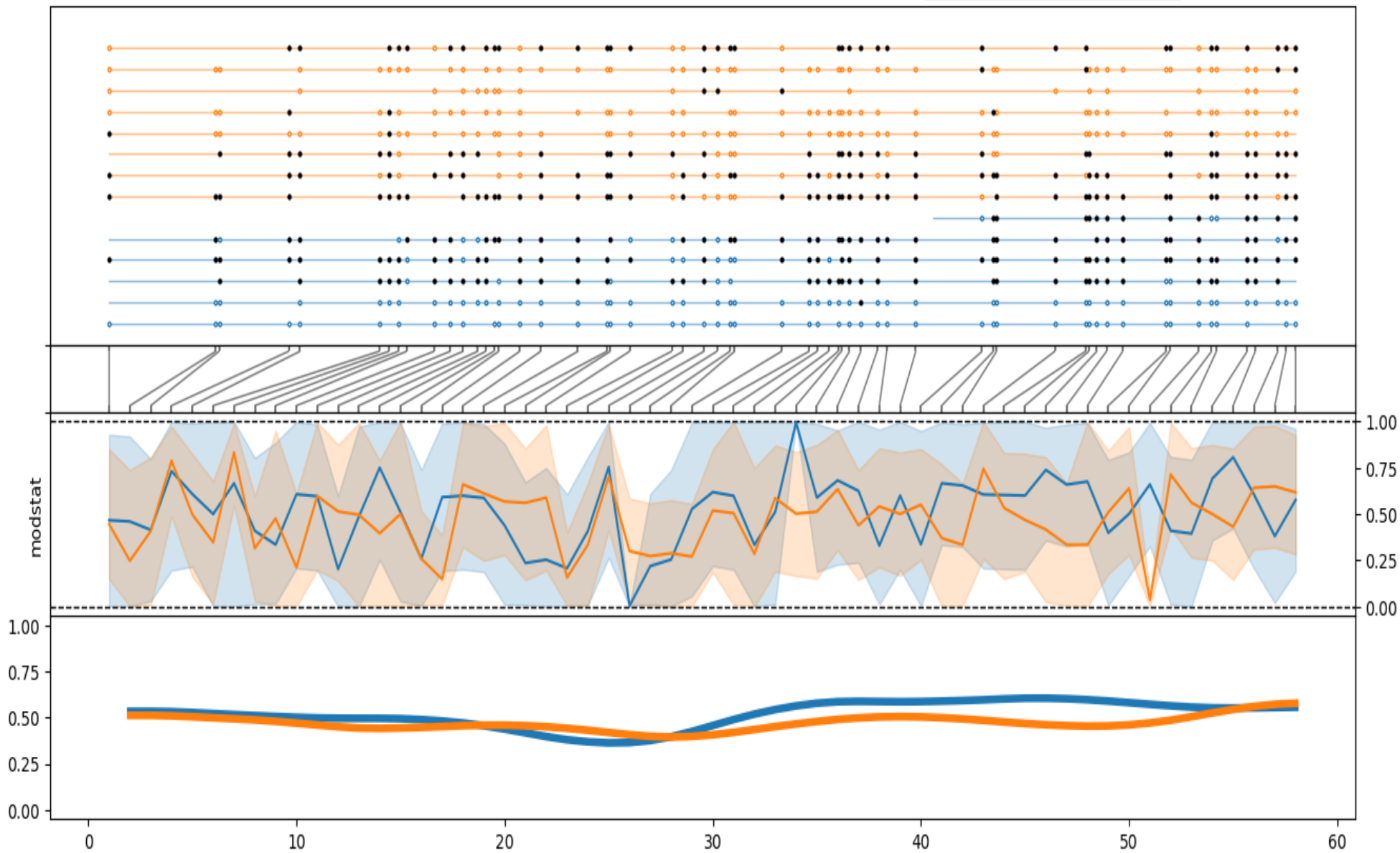
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EPI_12_hg38_phased_chrX_46836539_46837273

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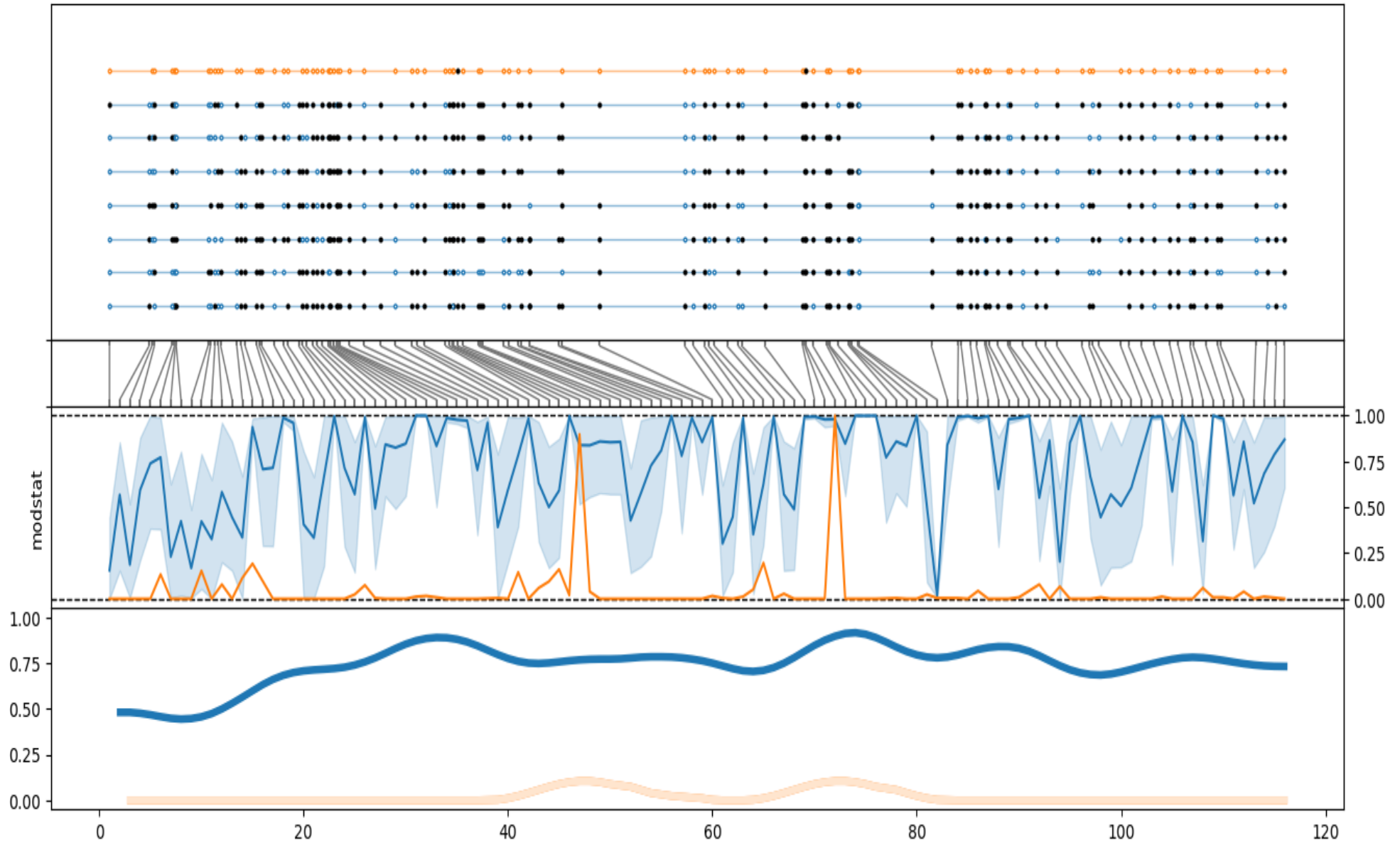
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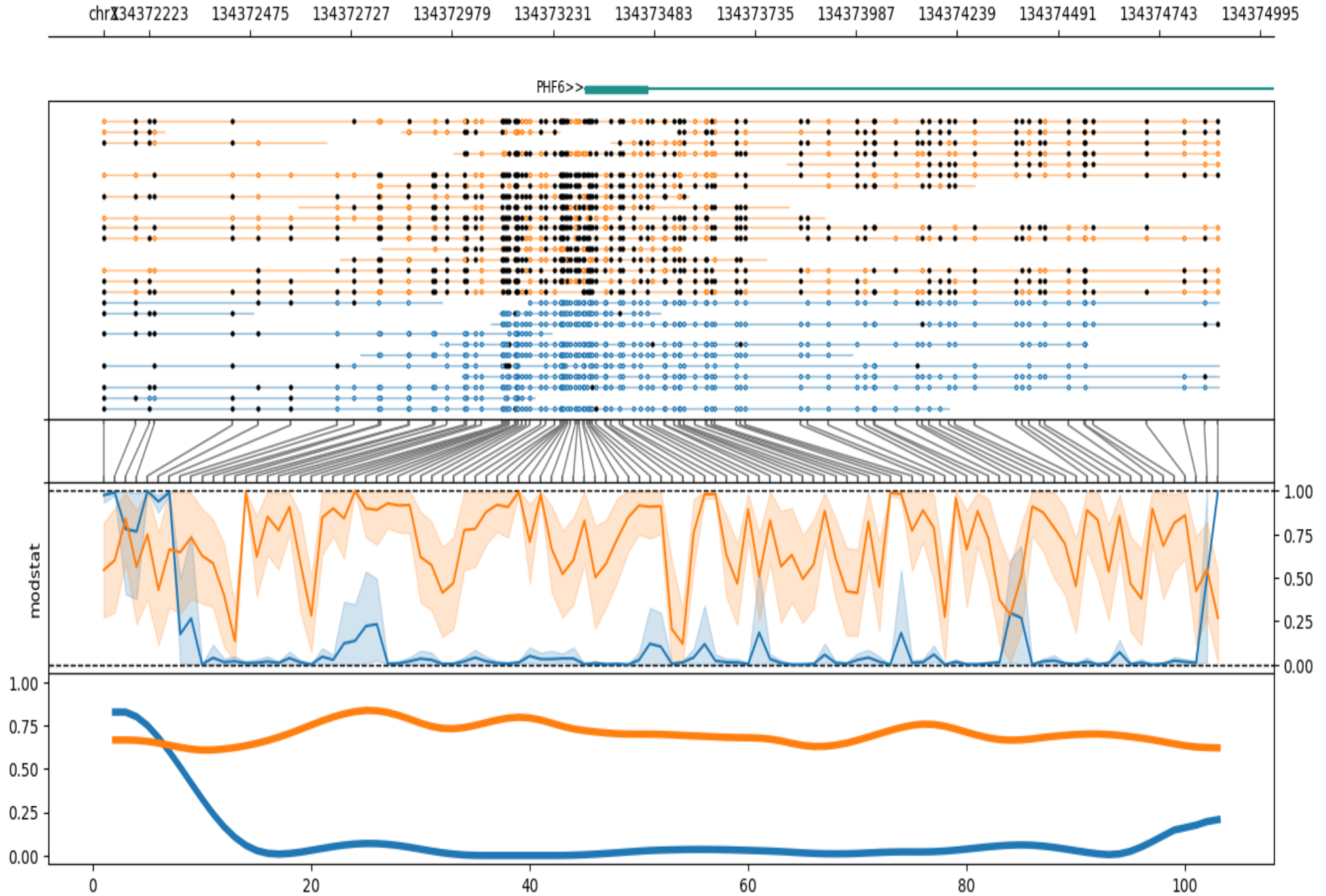
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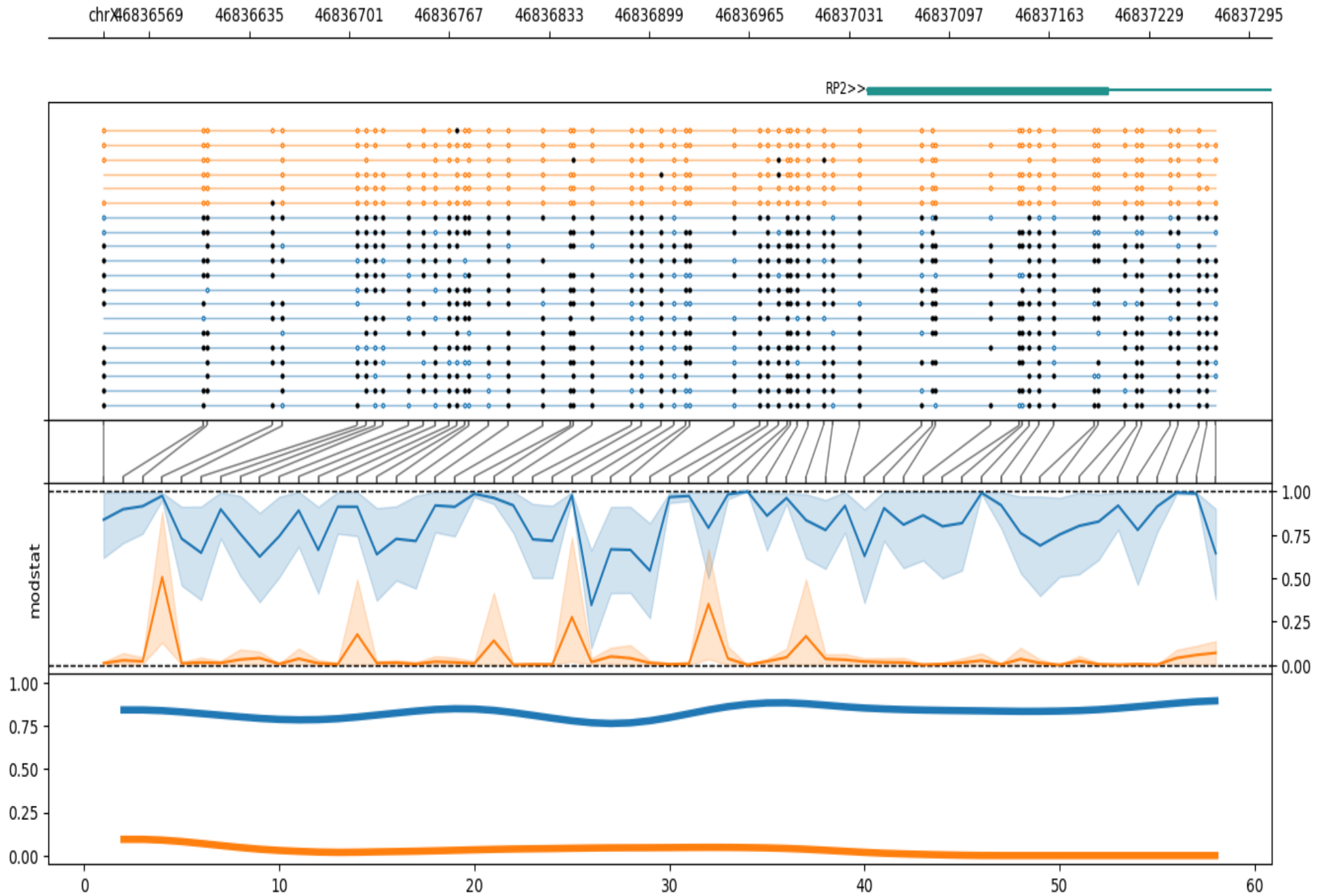
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EPI_13_buccalswab_hg38_phased_chrx_134372110_134374891



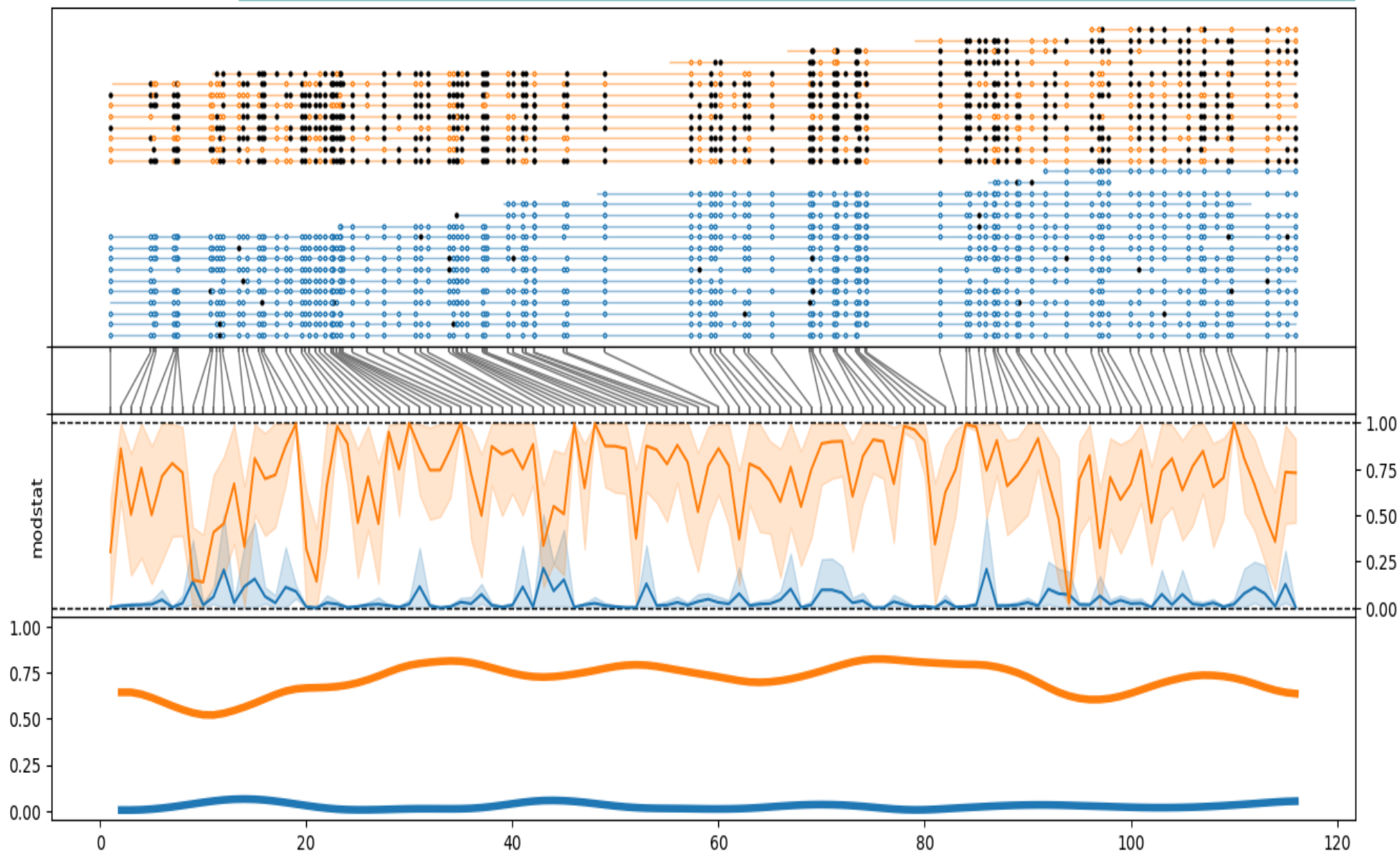
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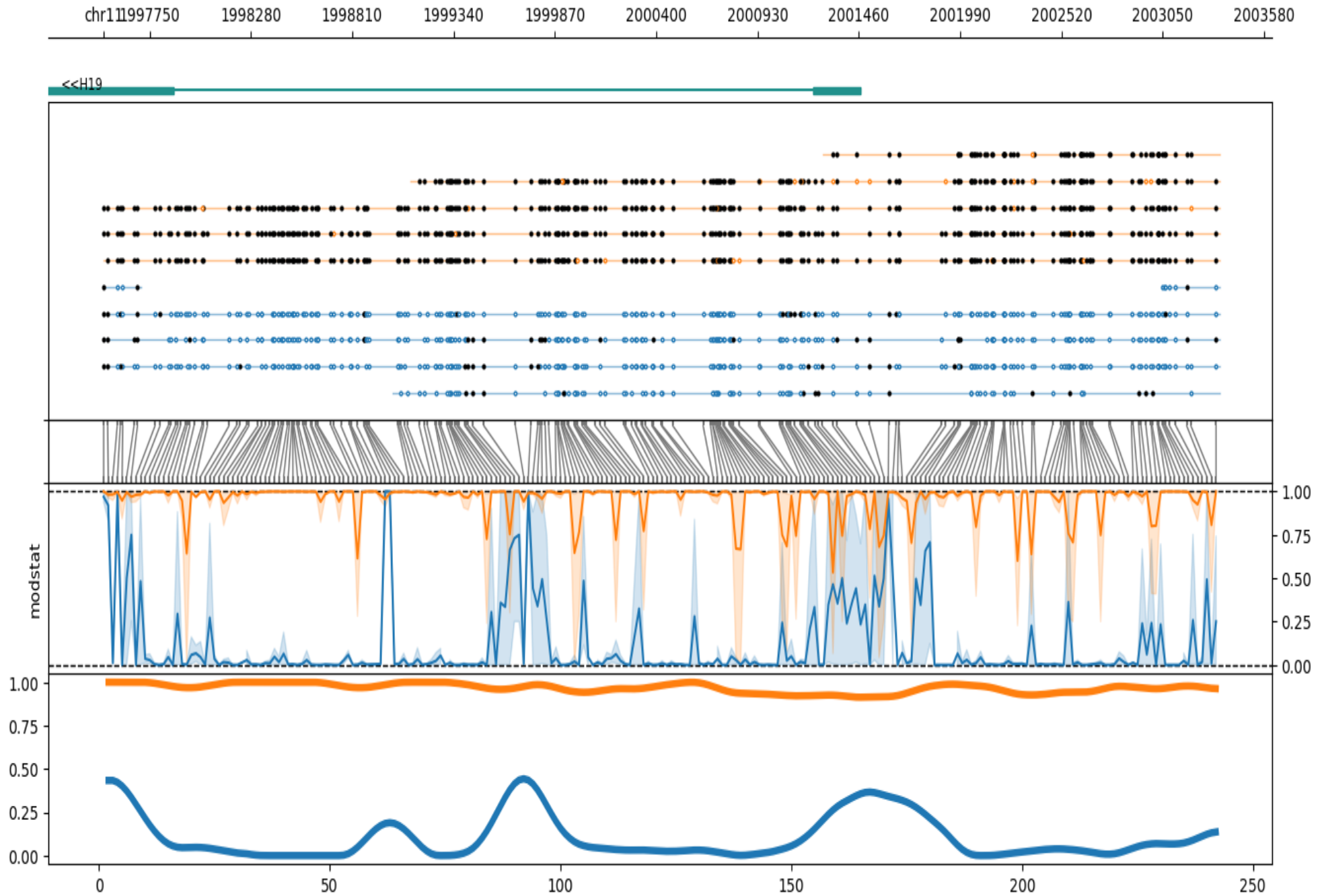
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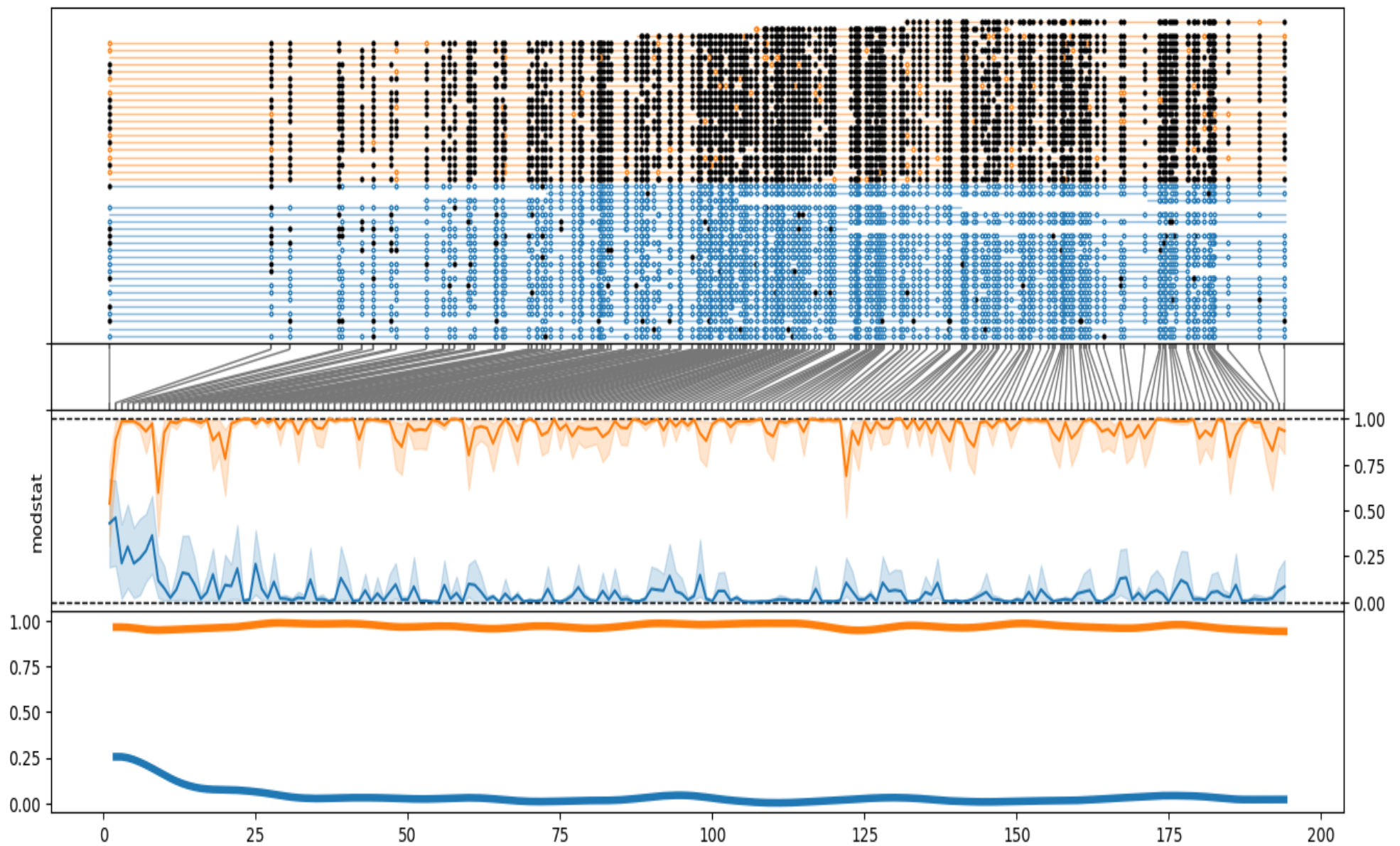
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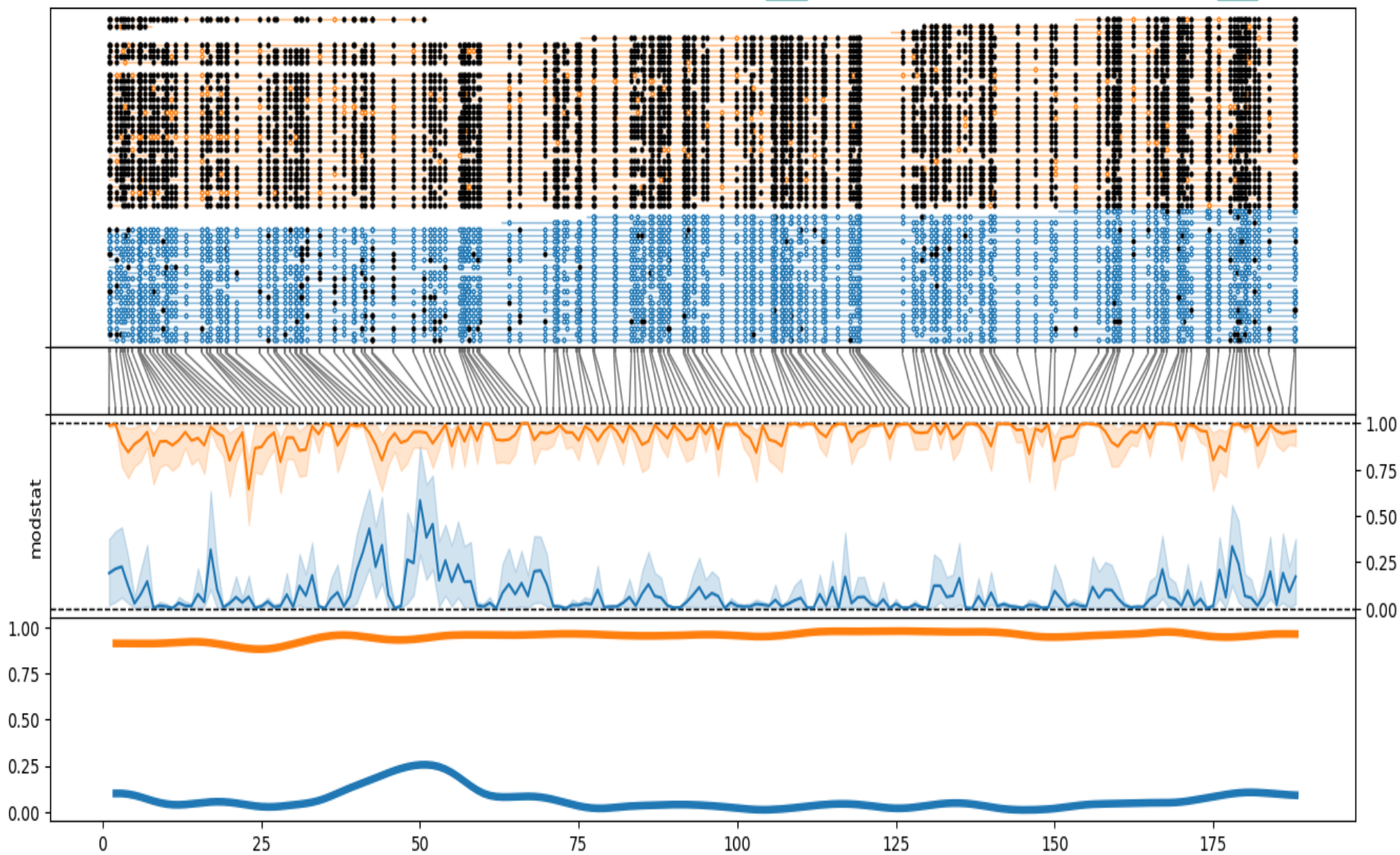
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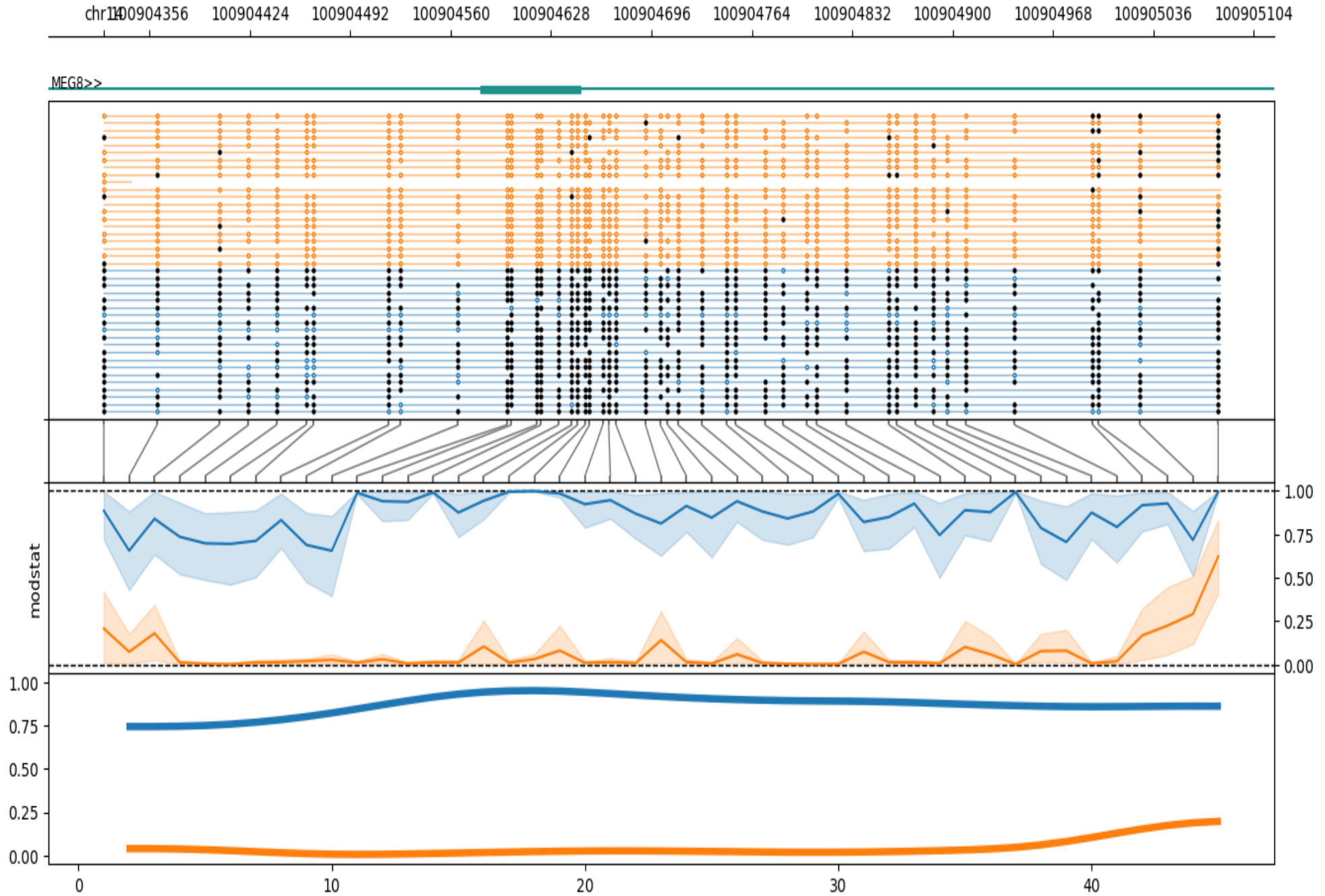
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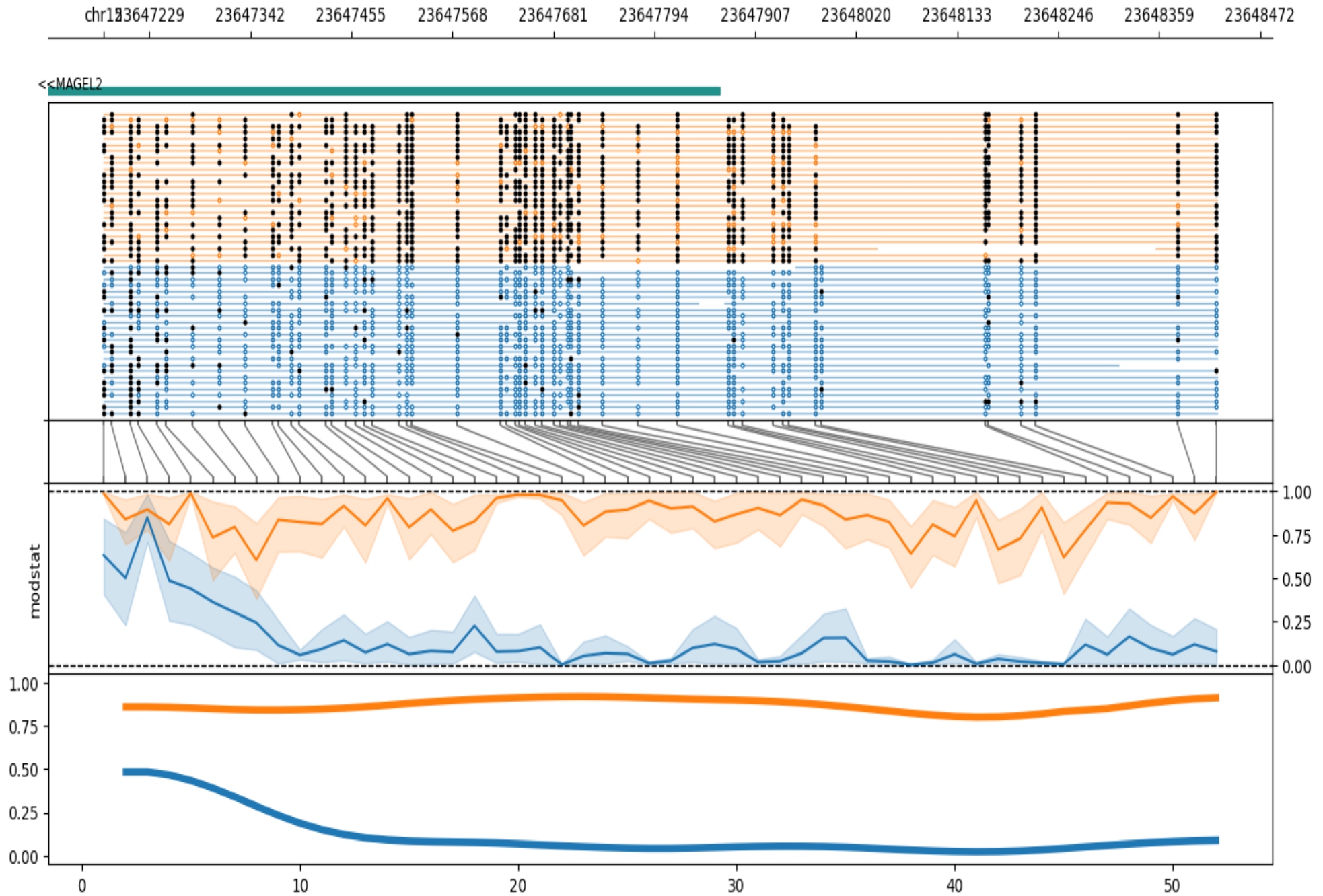
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EPI_13_hg38_phased_chr14_100904325_100905081



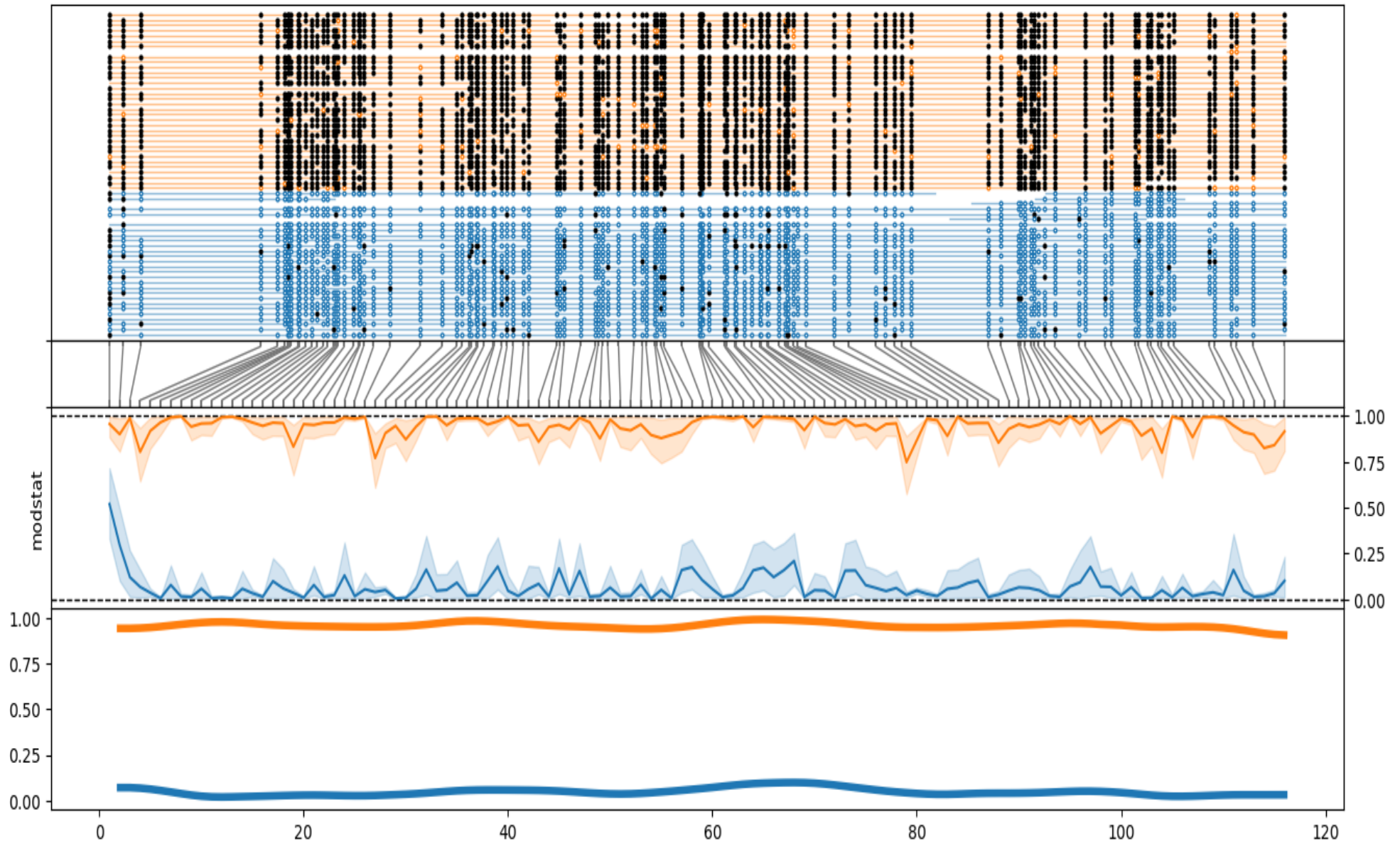
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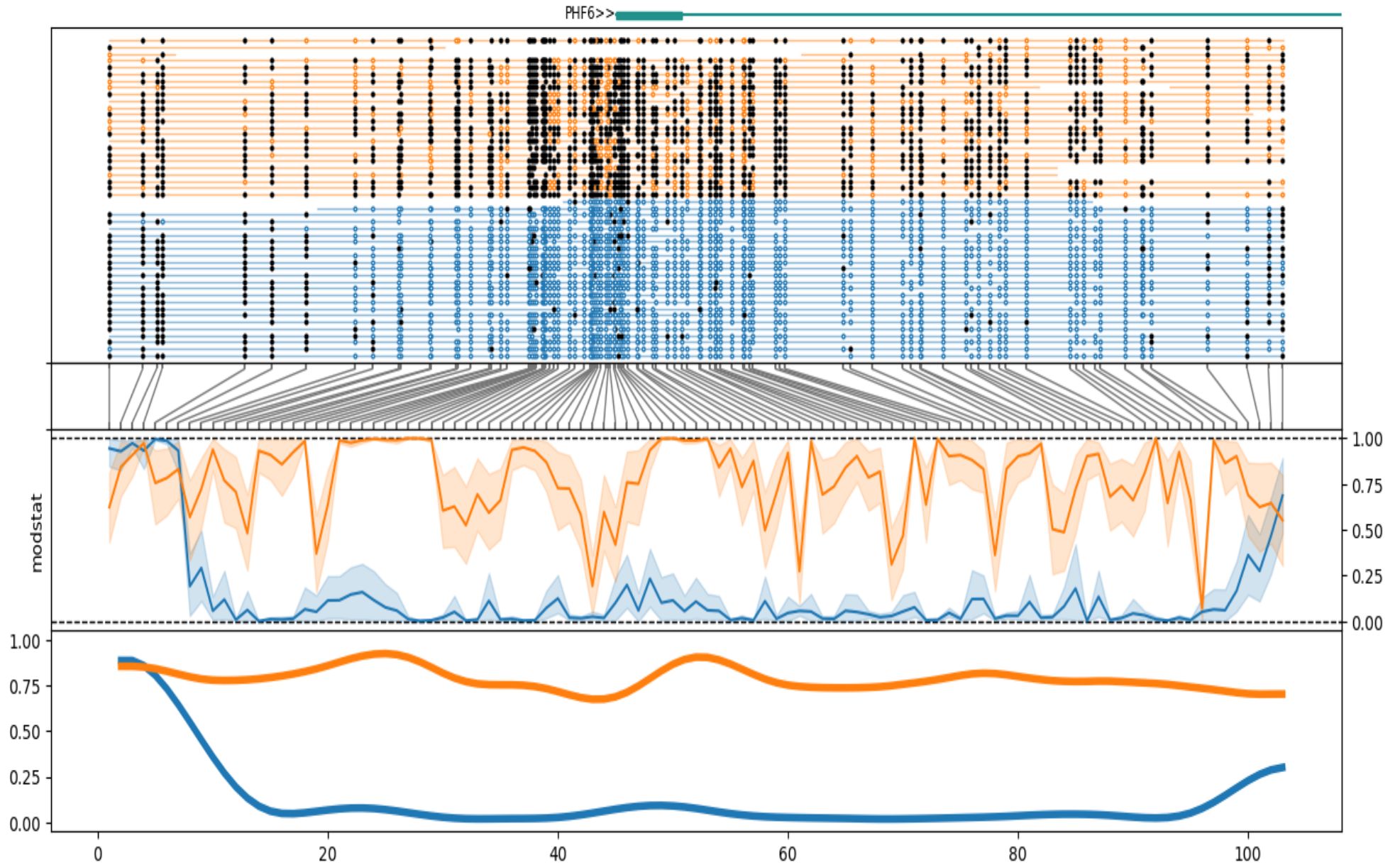
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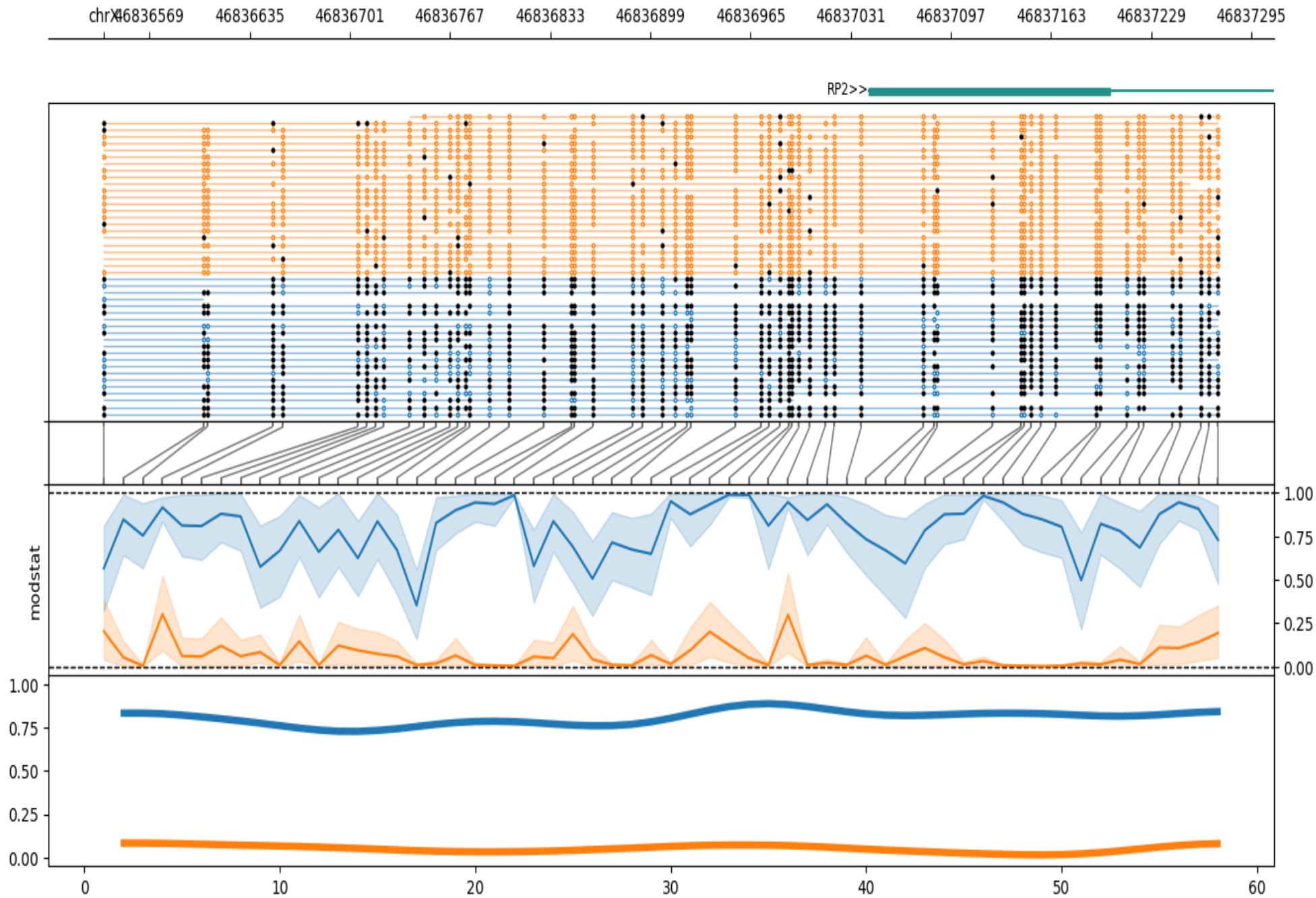


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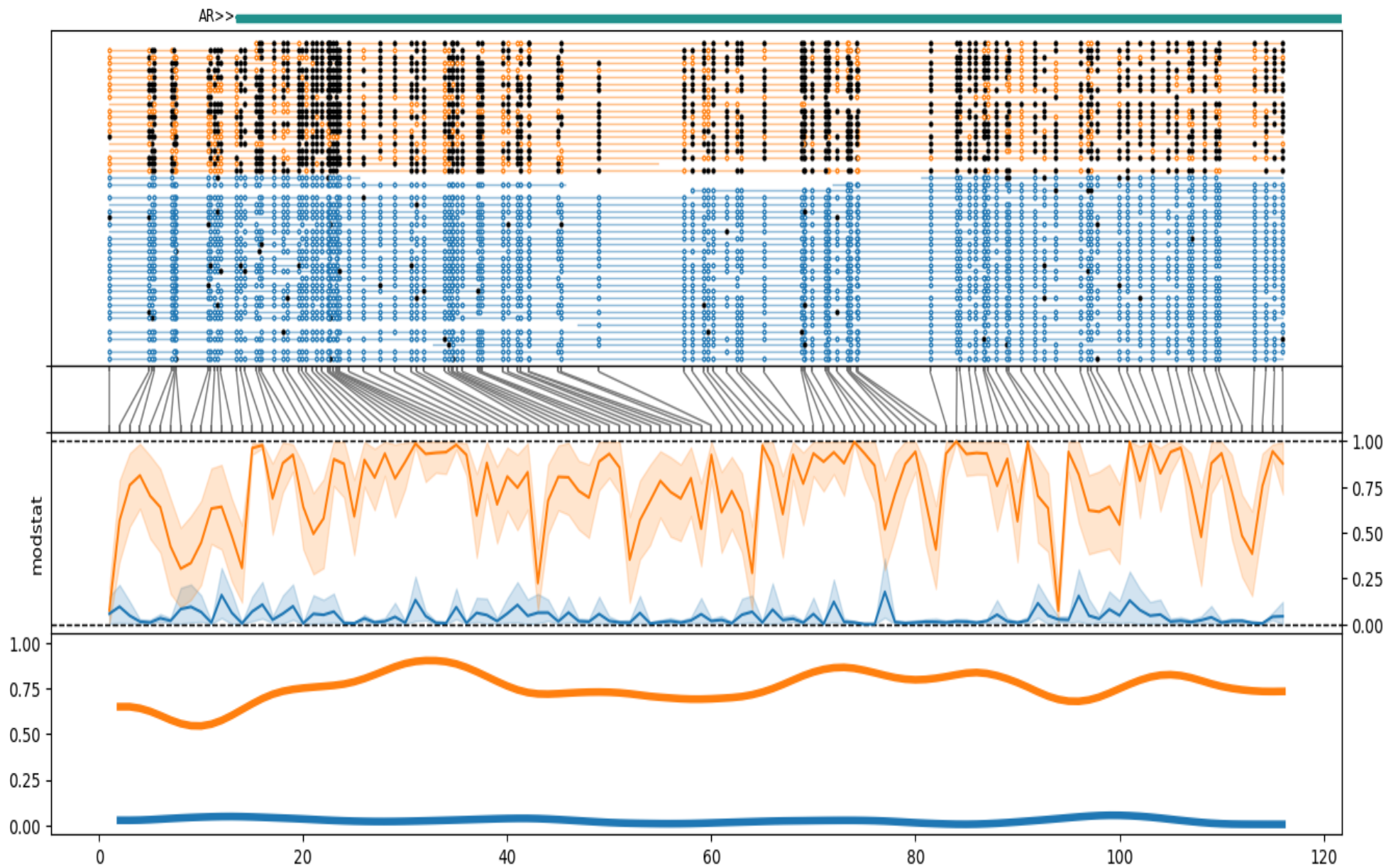


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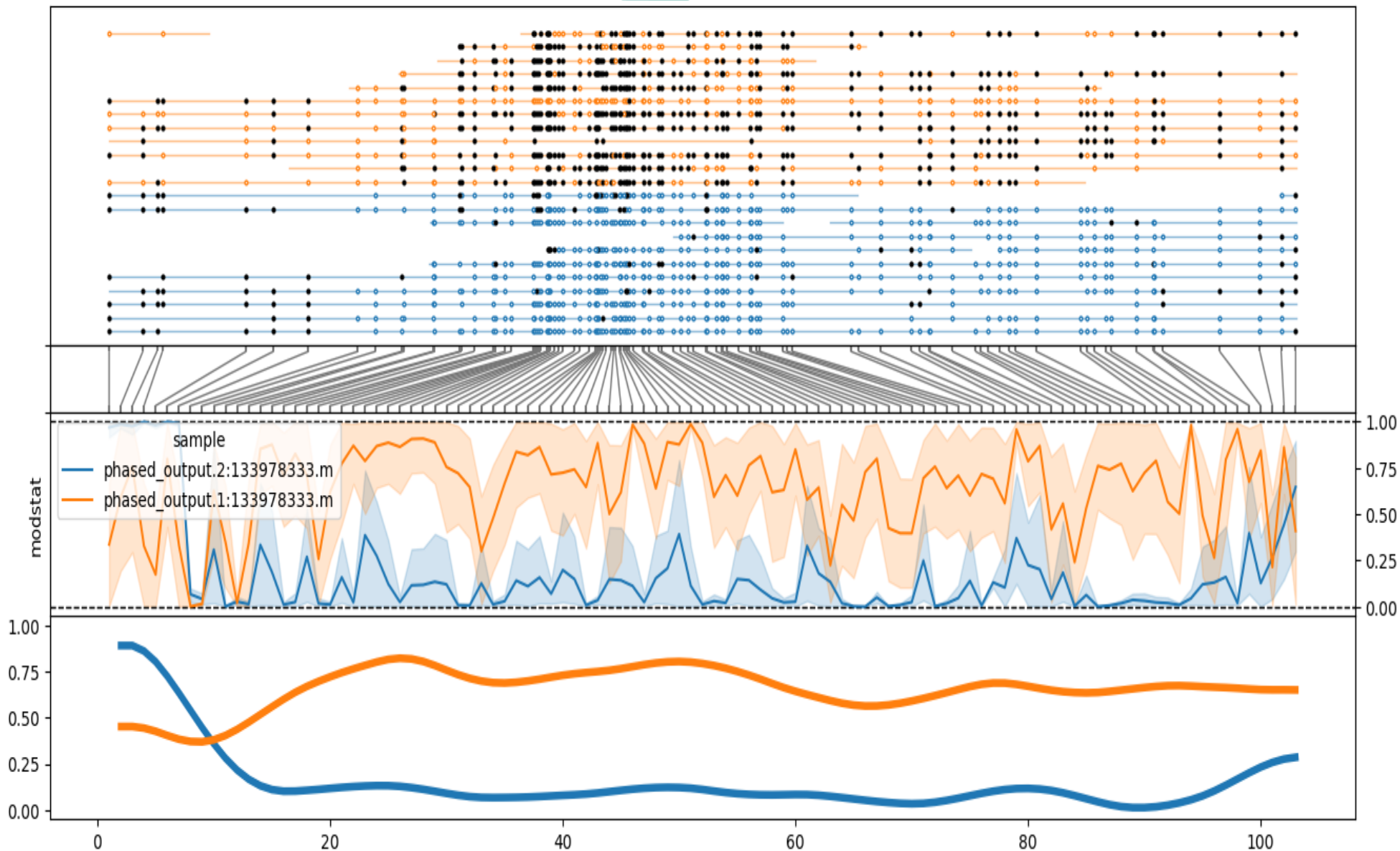
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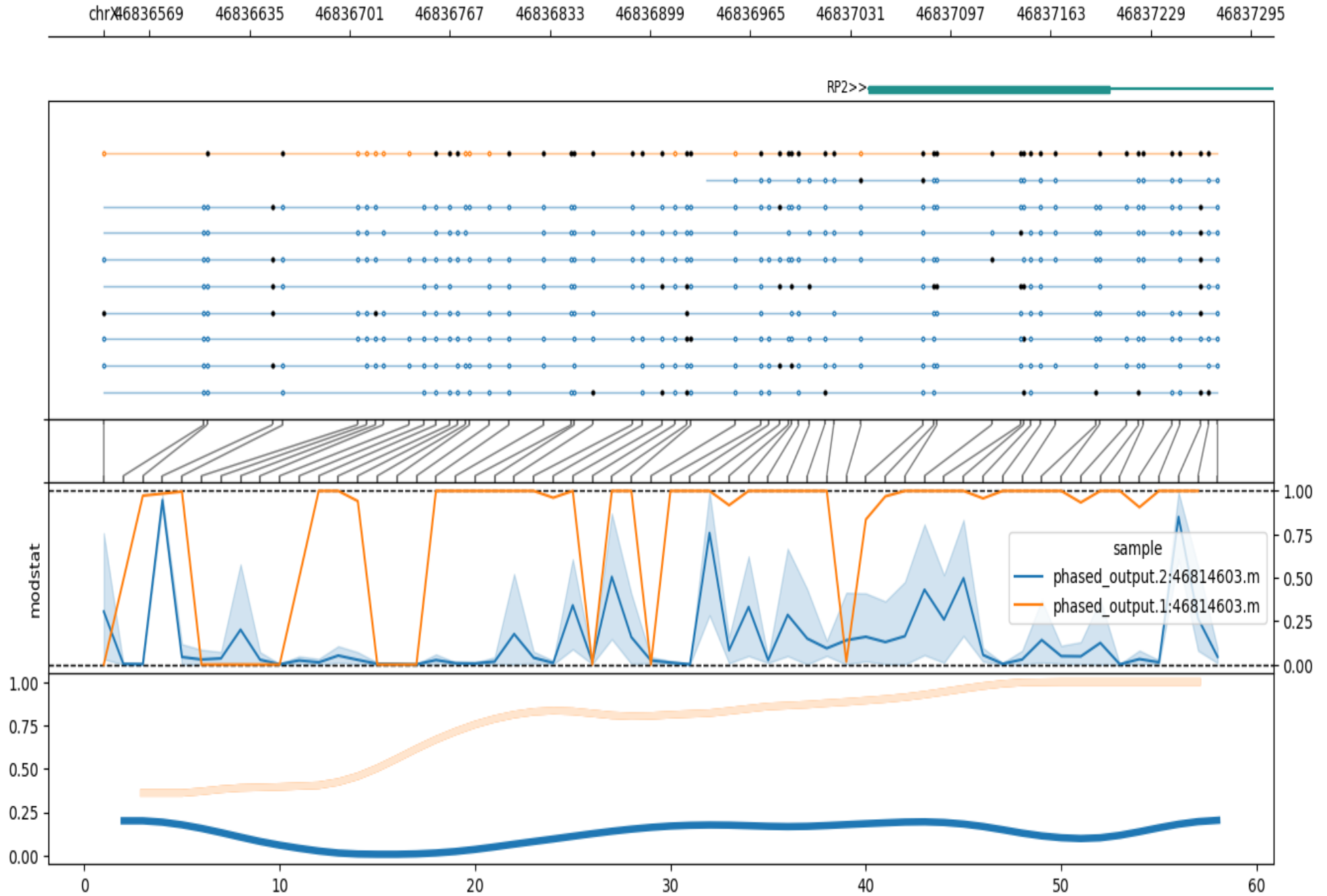
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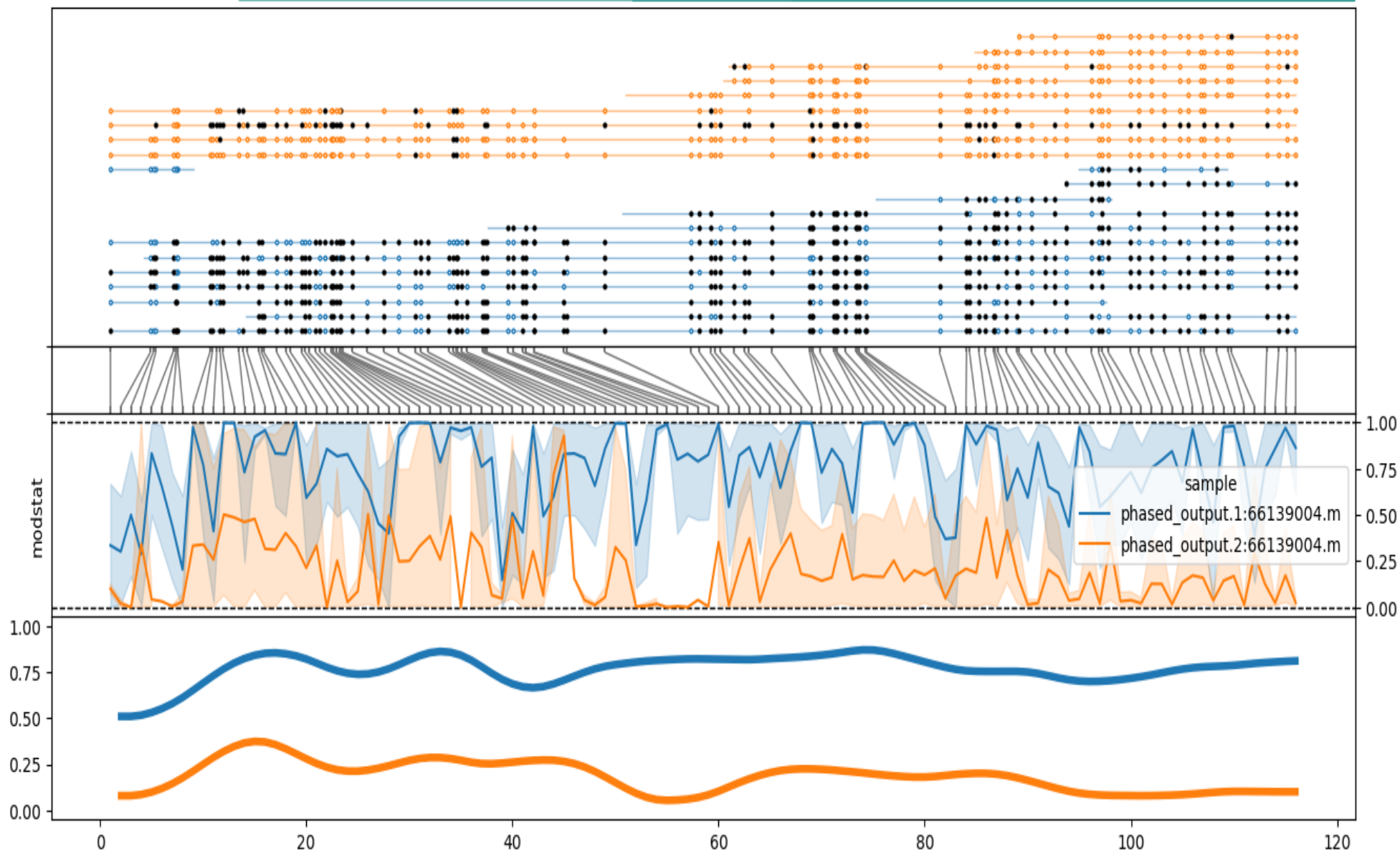
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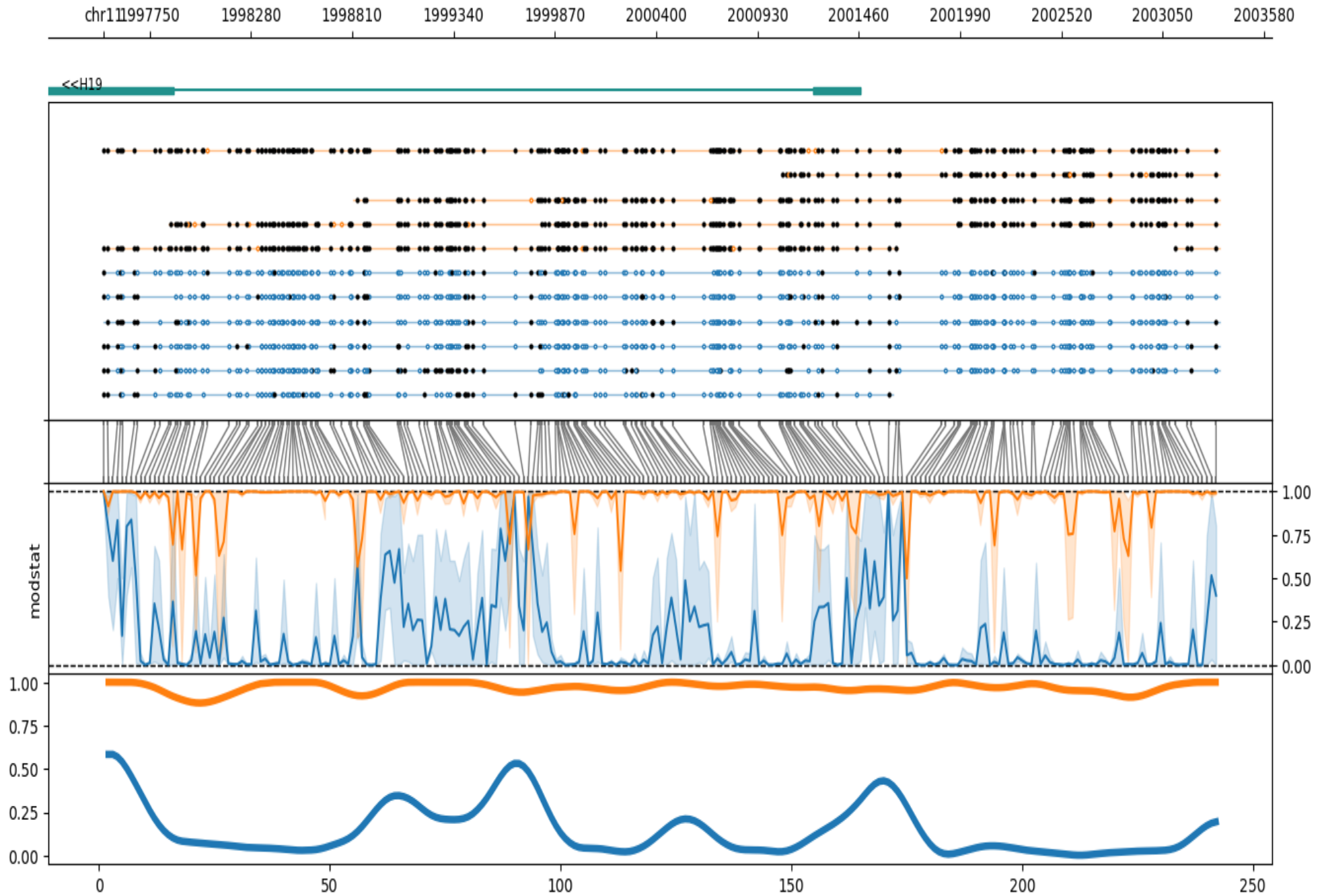
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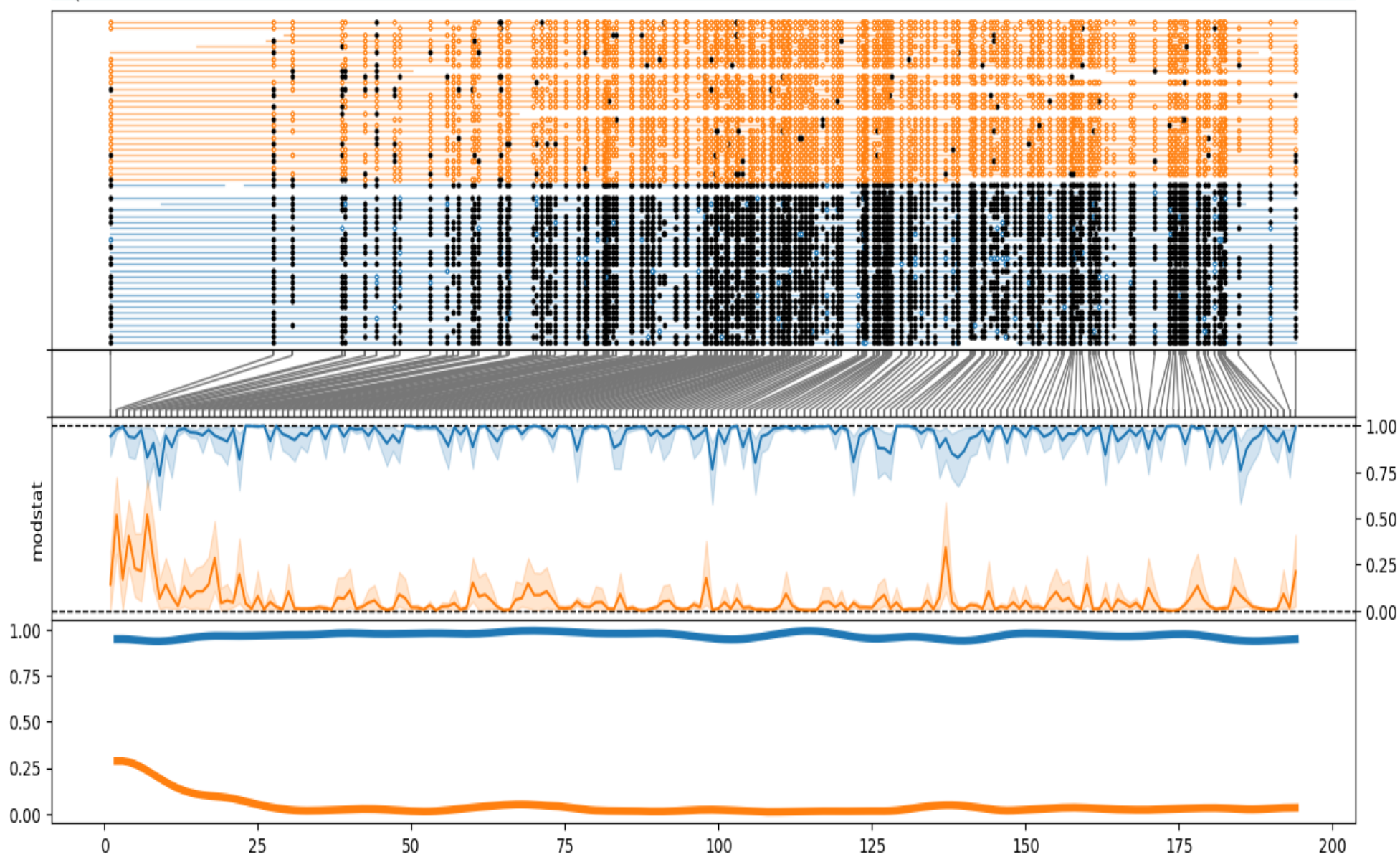
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EPI_14_hg38_phased_chr11_2698155_2701028

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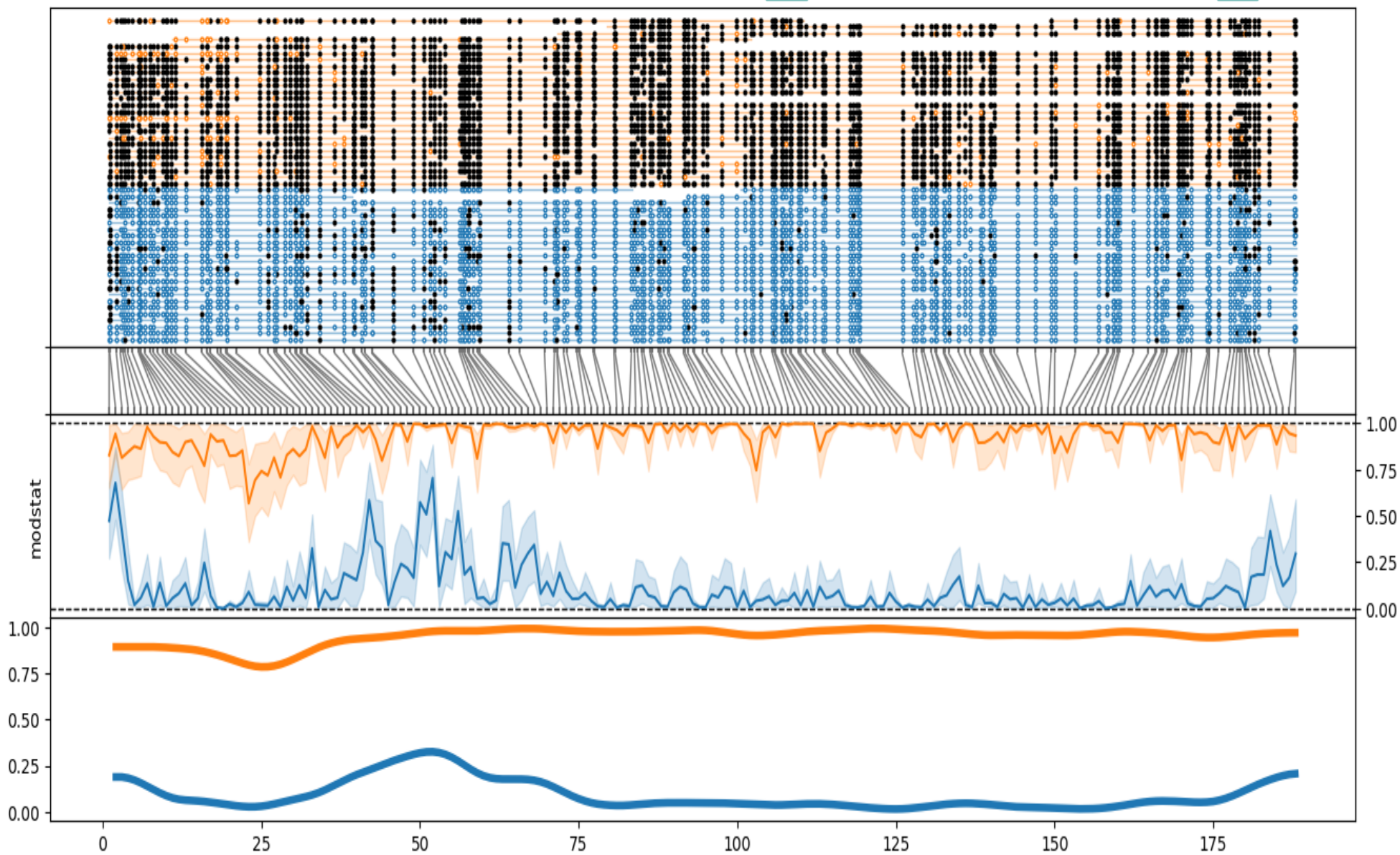
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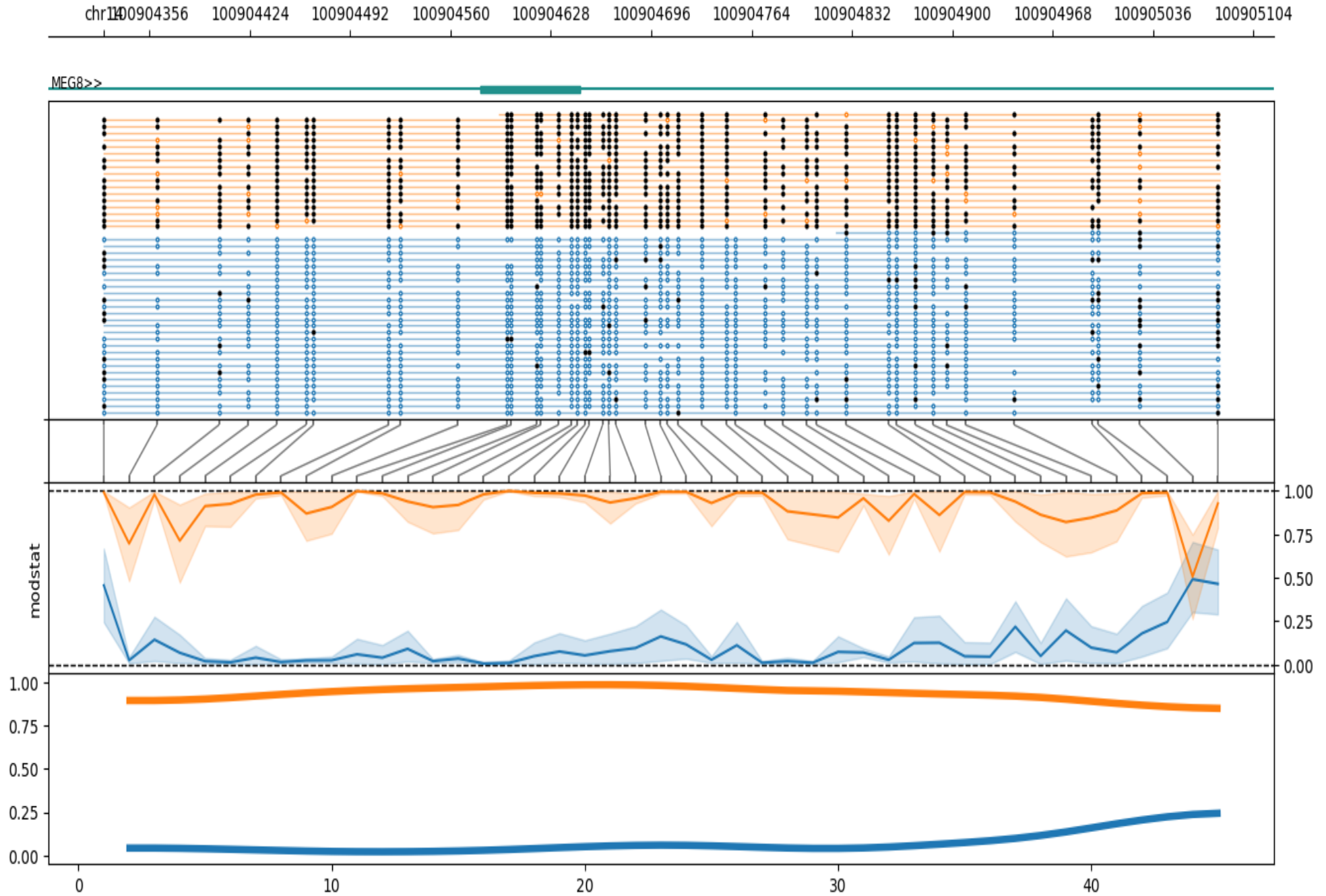
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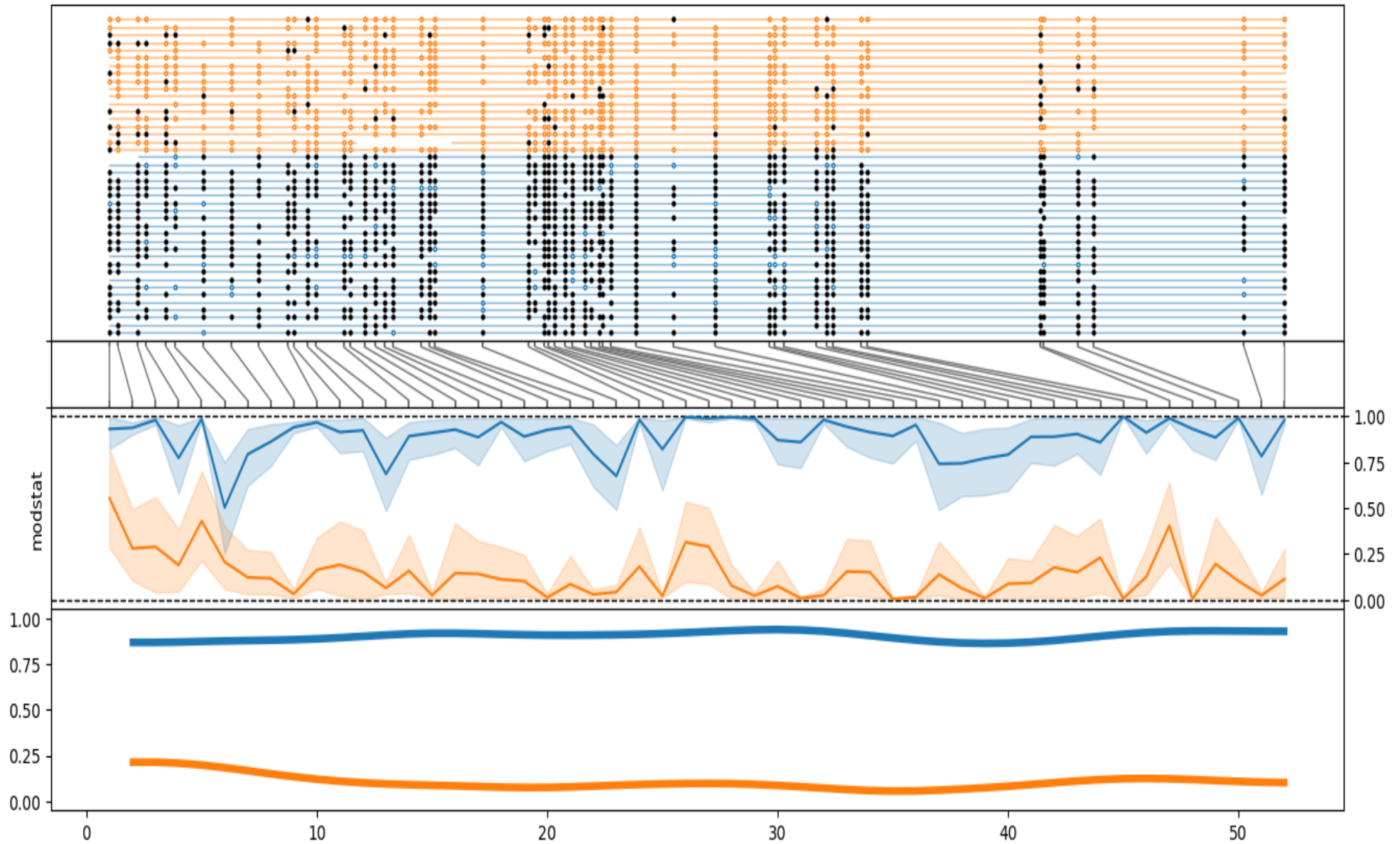
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EPI_14_hg38_phased_chromosome15_23647178_23648424

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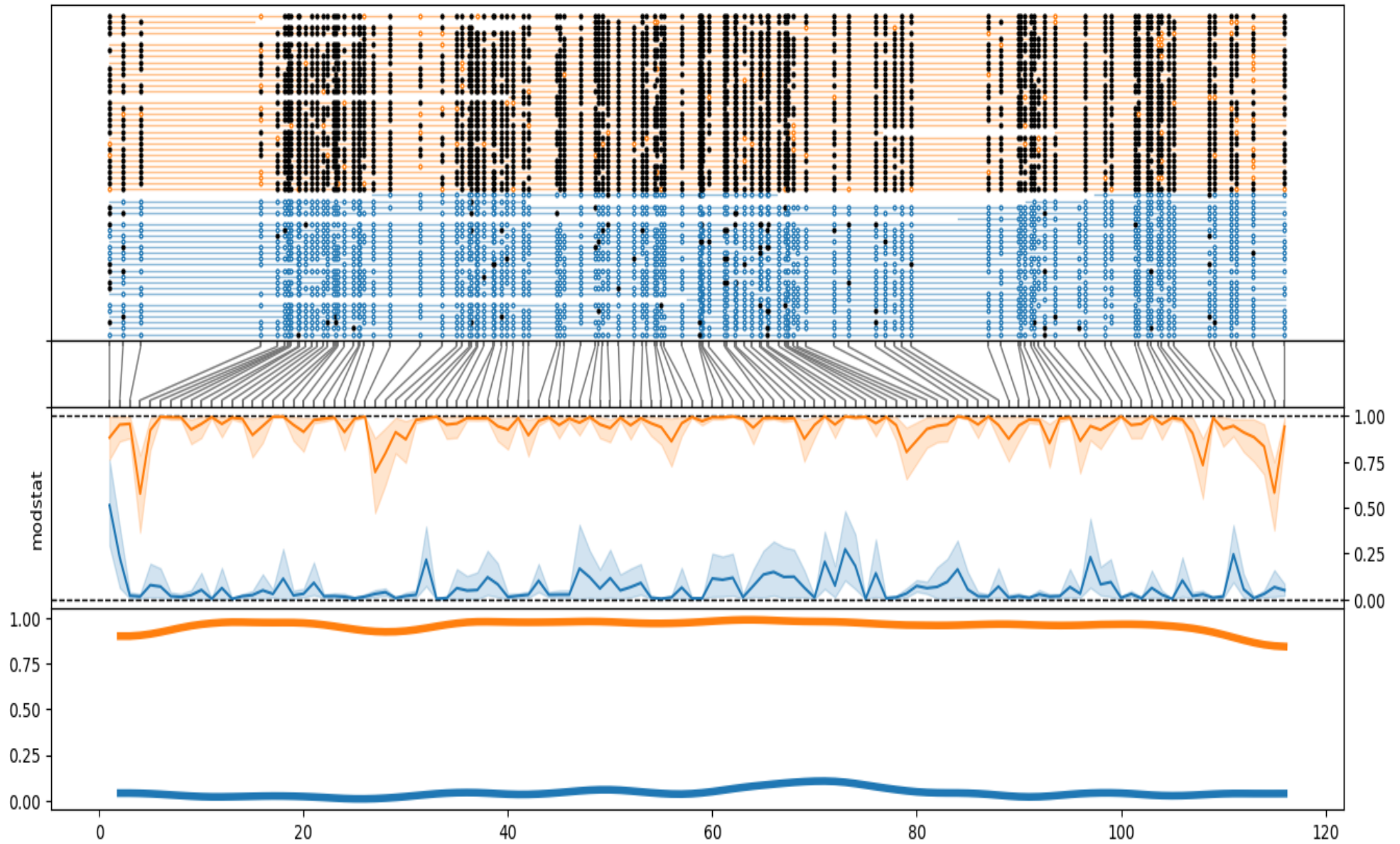
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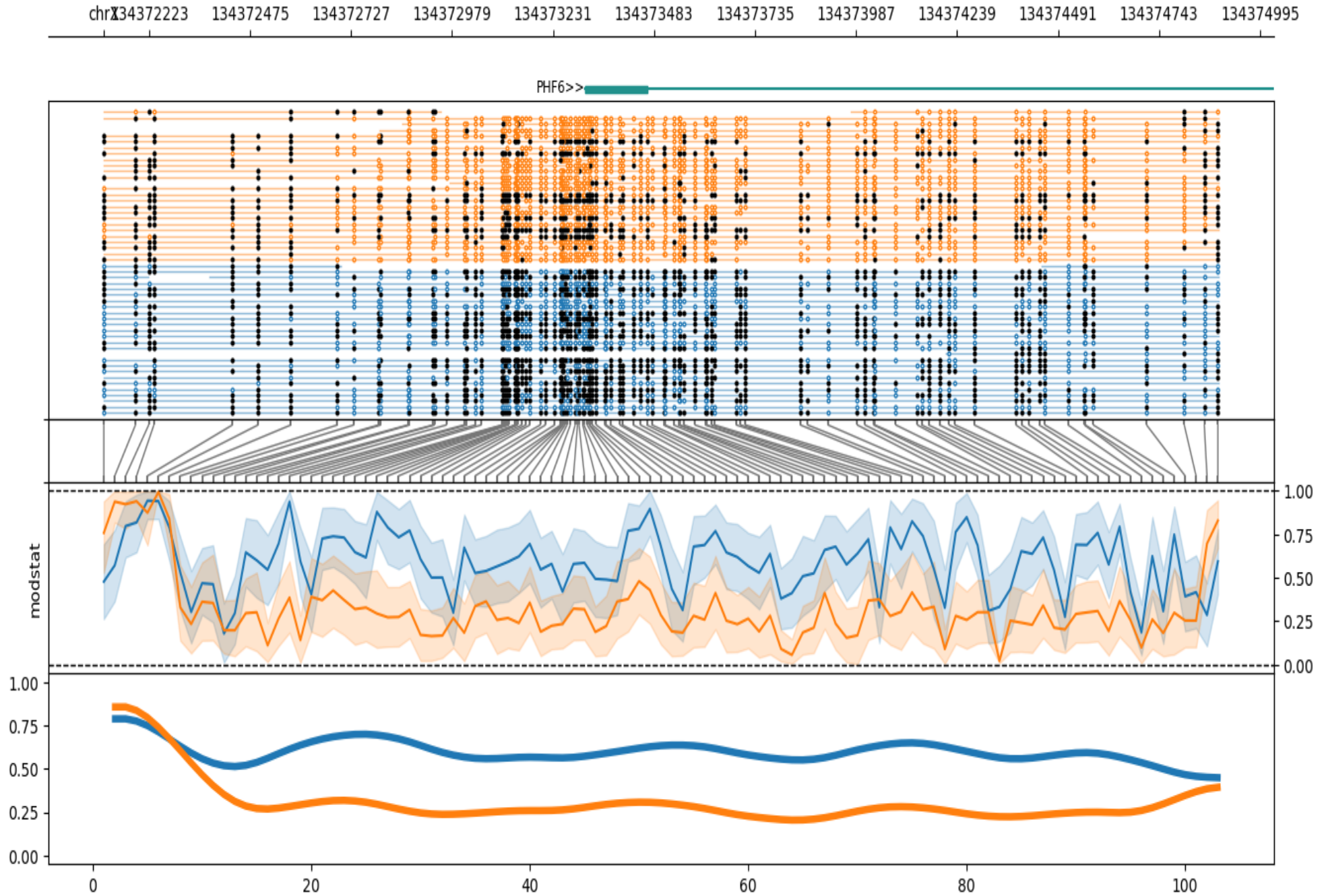
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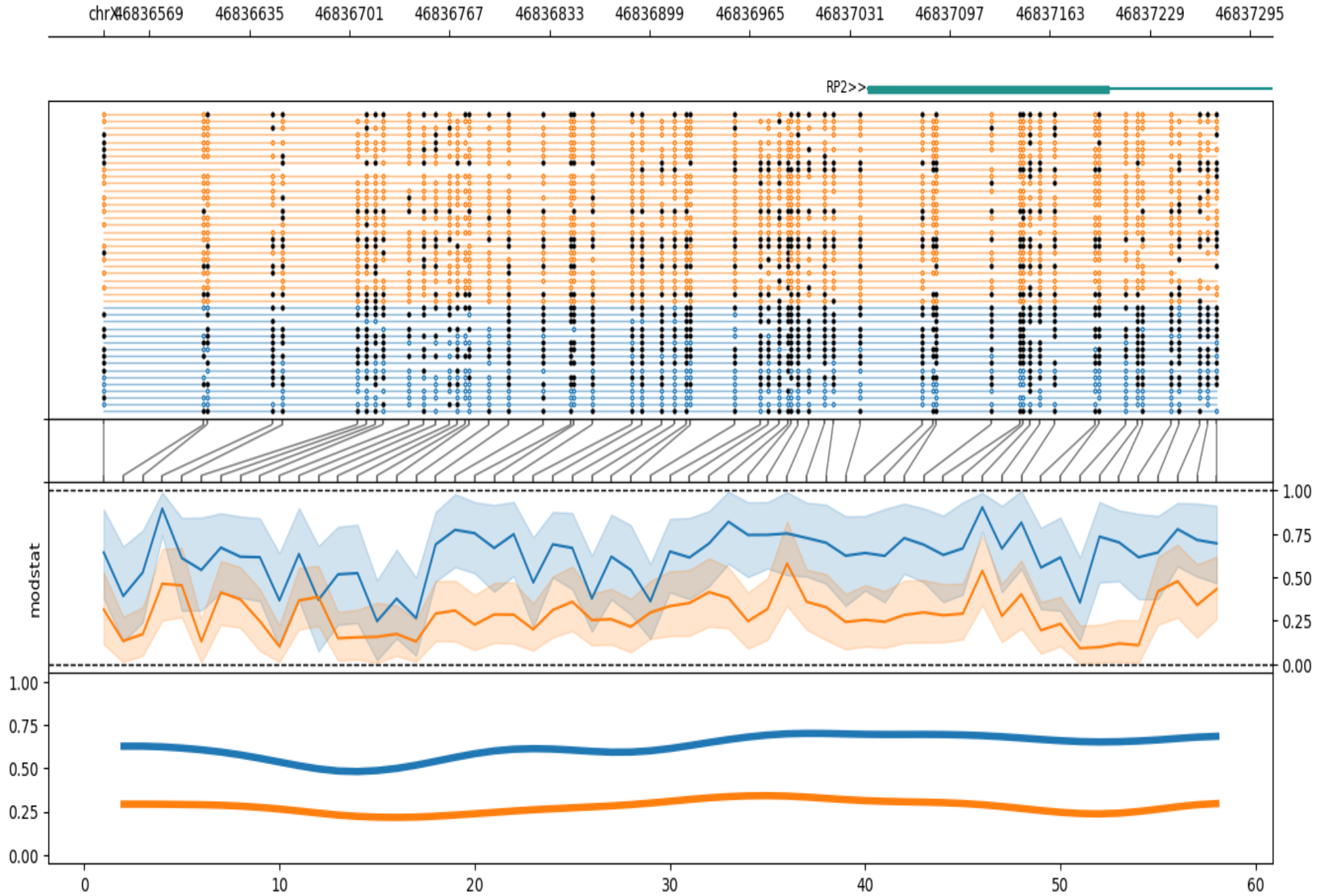
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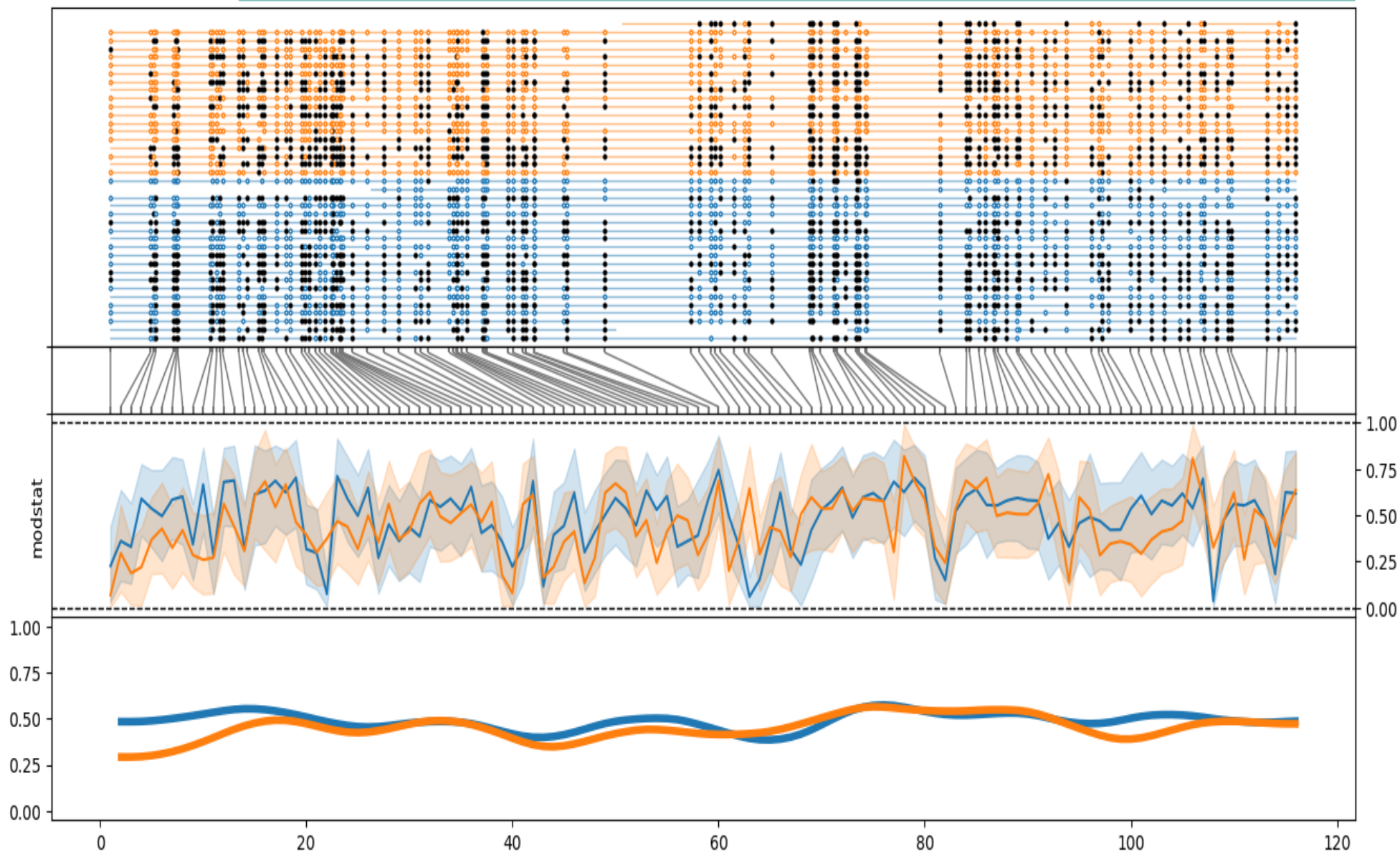
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EPI_14_hg38_phased_chrX_67543761_67546170

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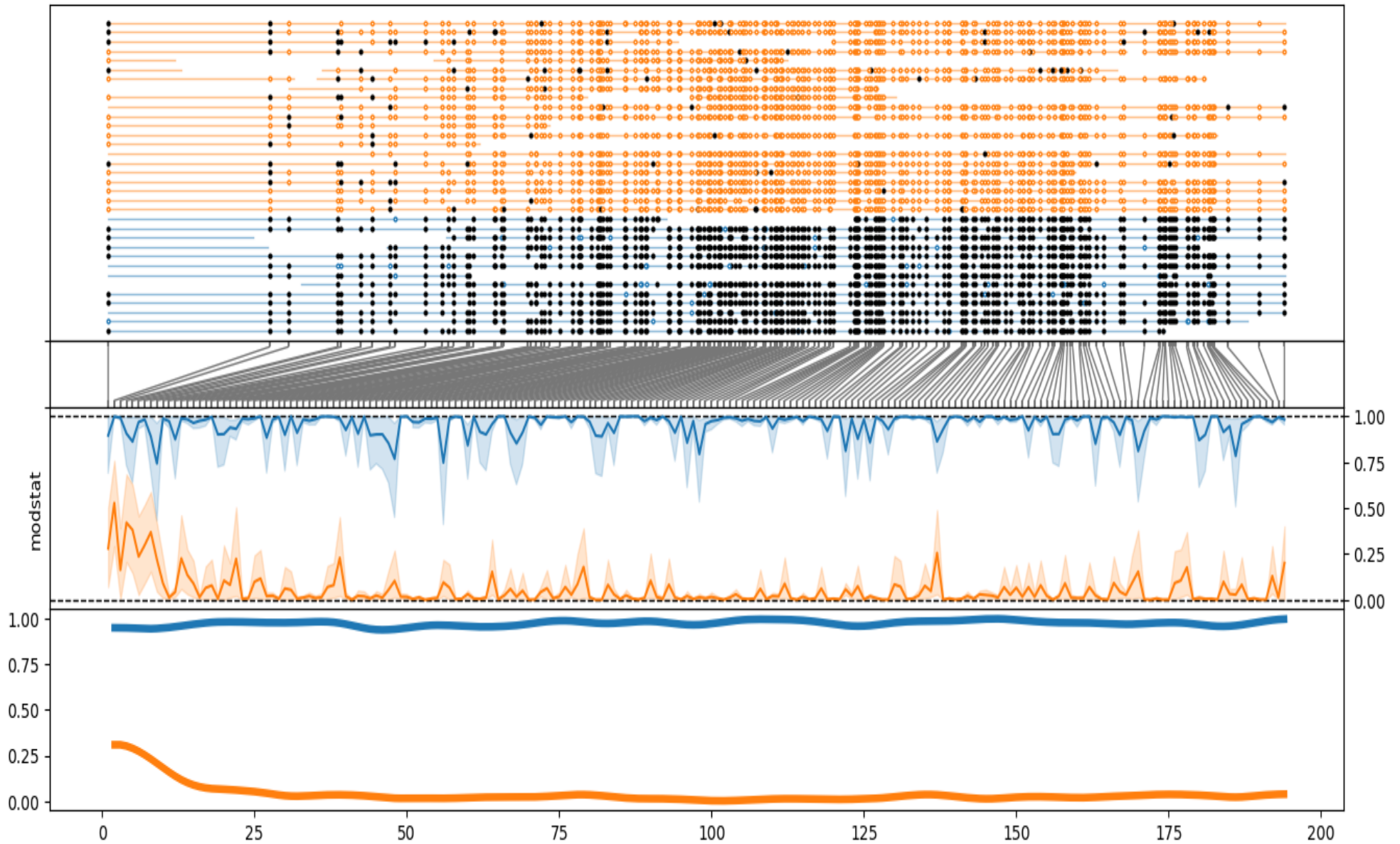
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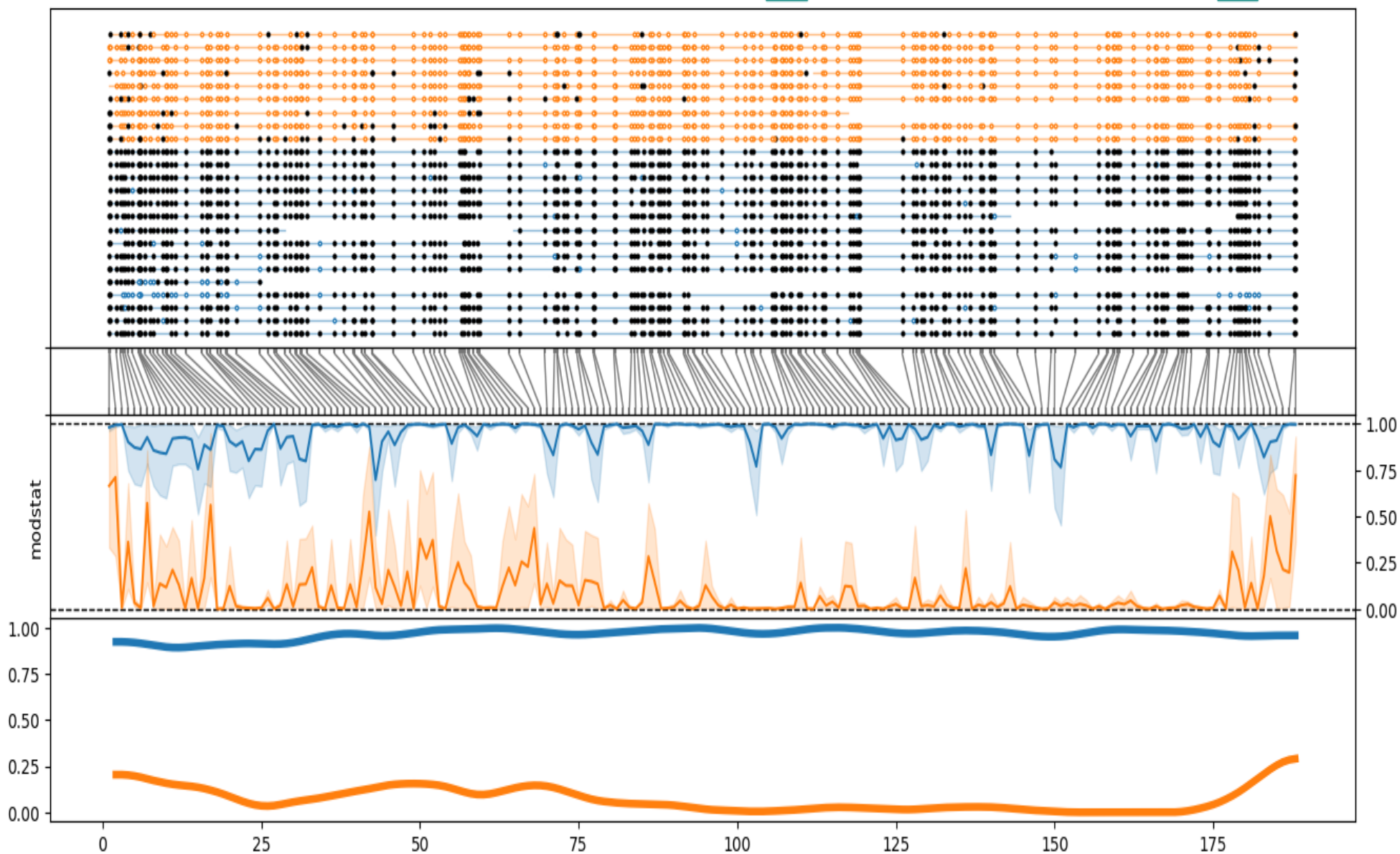
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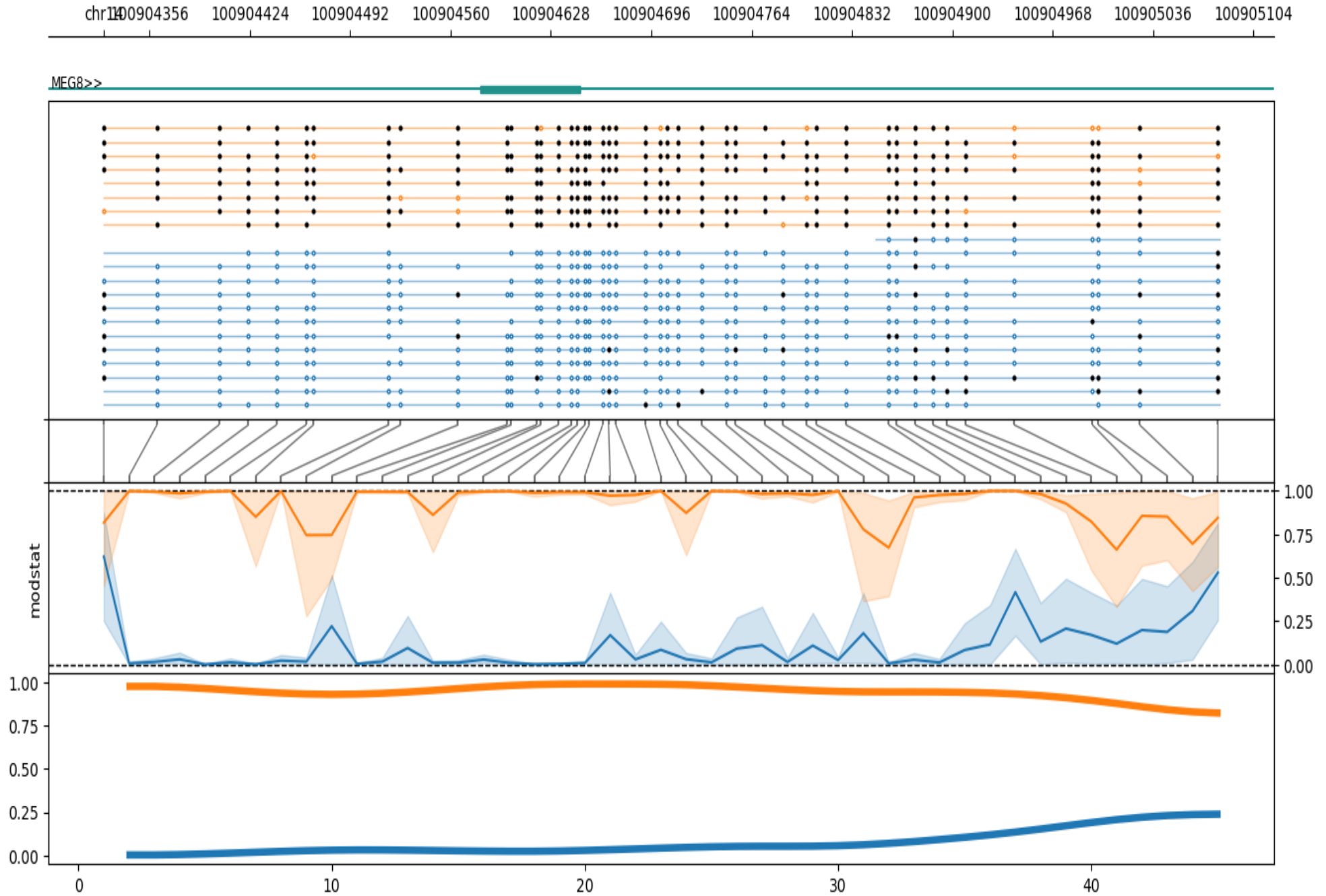
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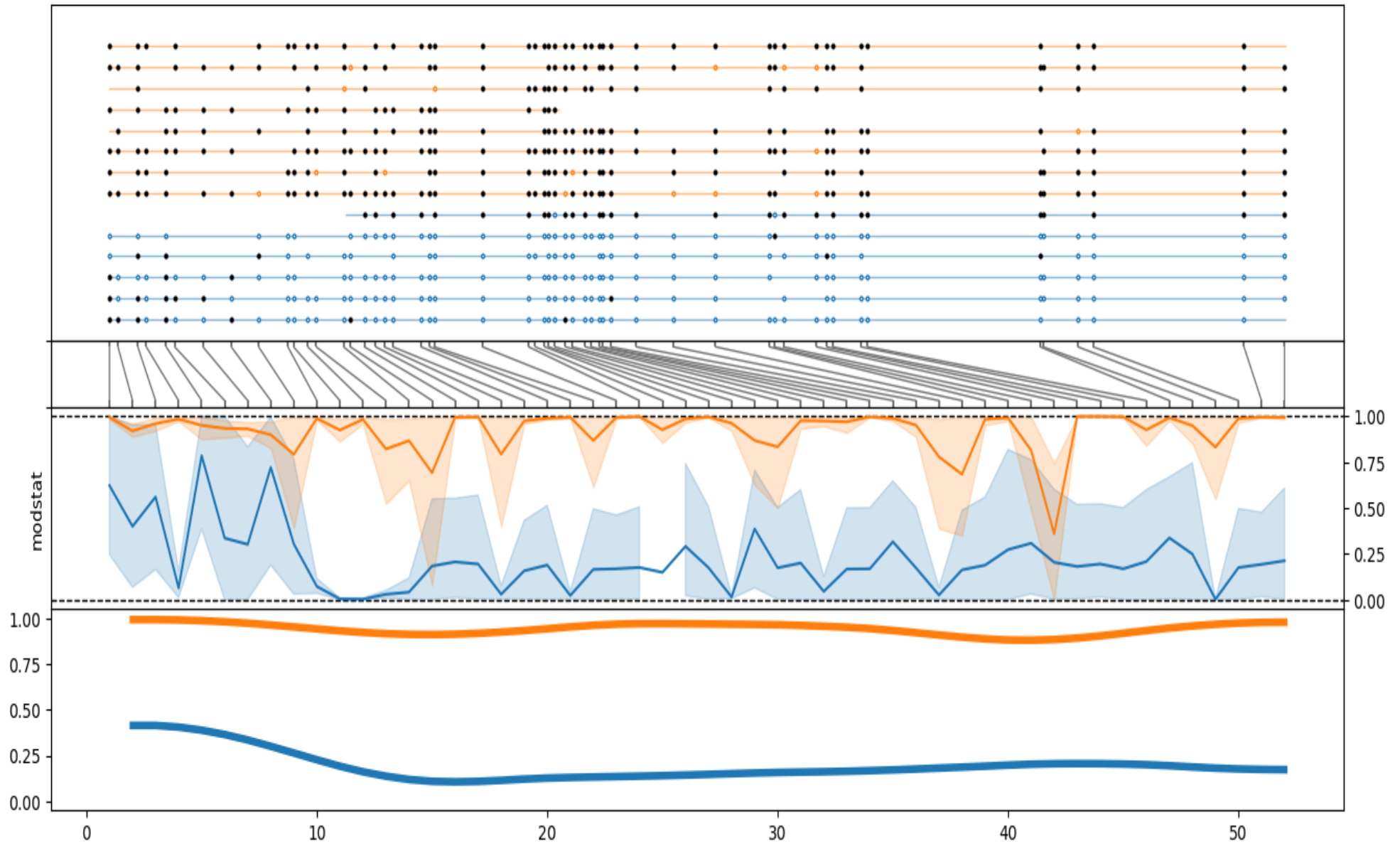
EPI_15_hg38_phased_chr14_100904325_100905081



EPI_15_hg38_phased_chr15_23647178_23648424

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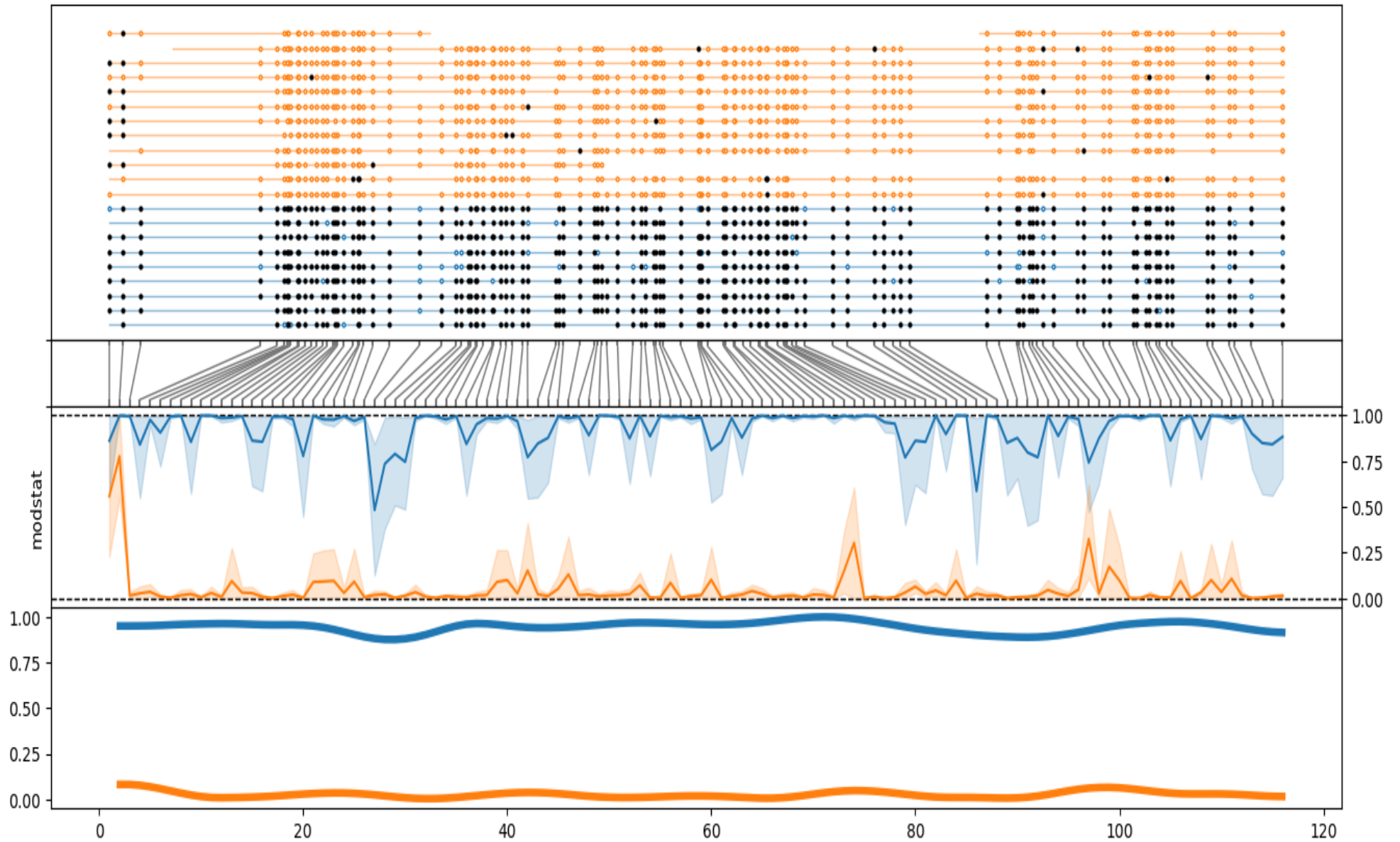
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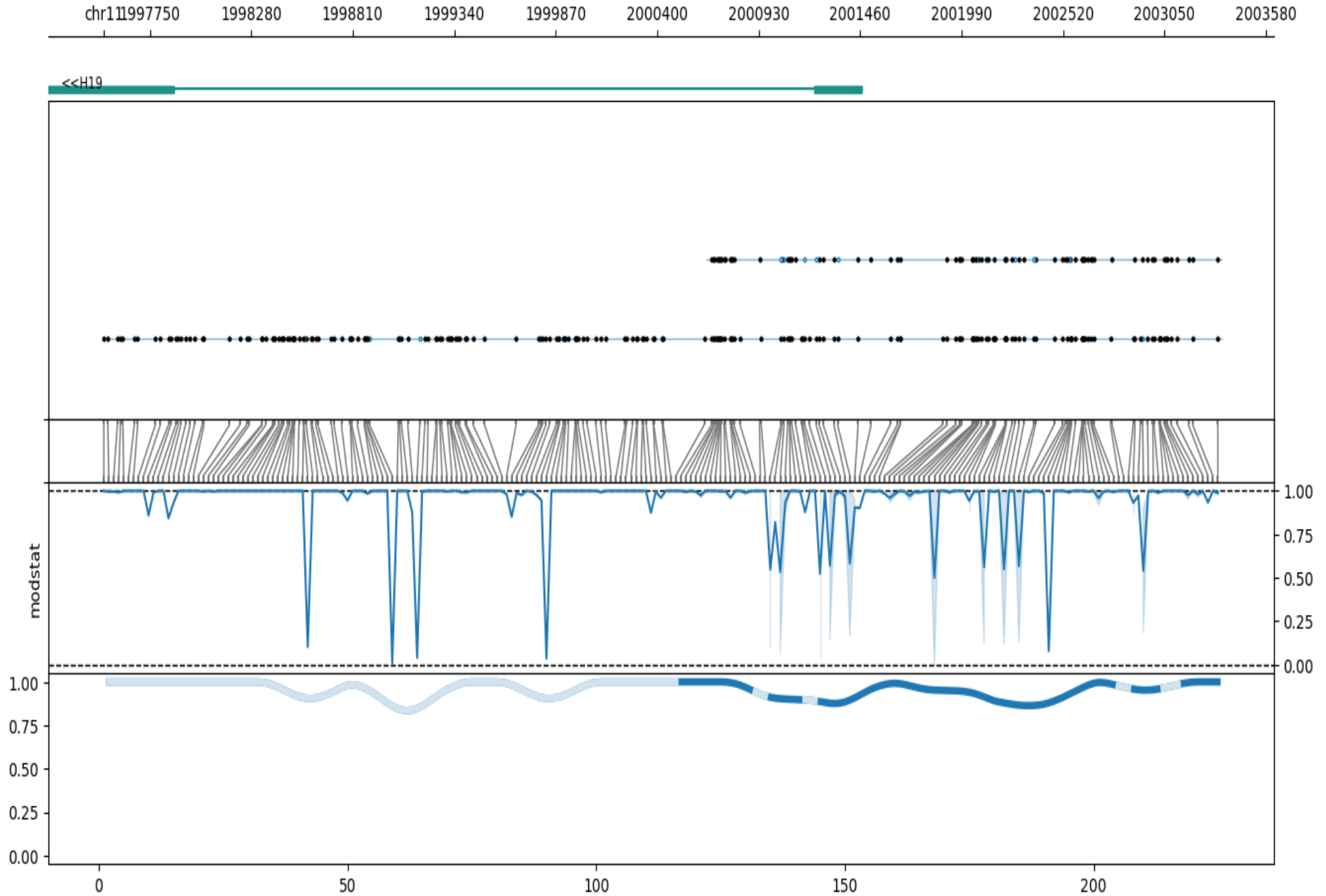
EPI_15_hg38_phased_chr15_24954564_24956828

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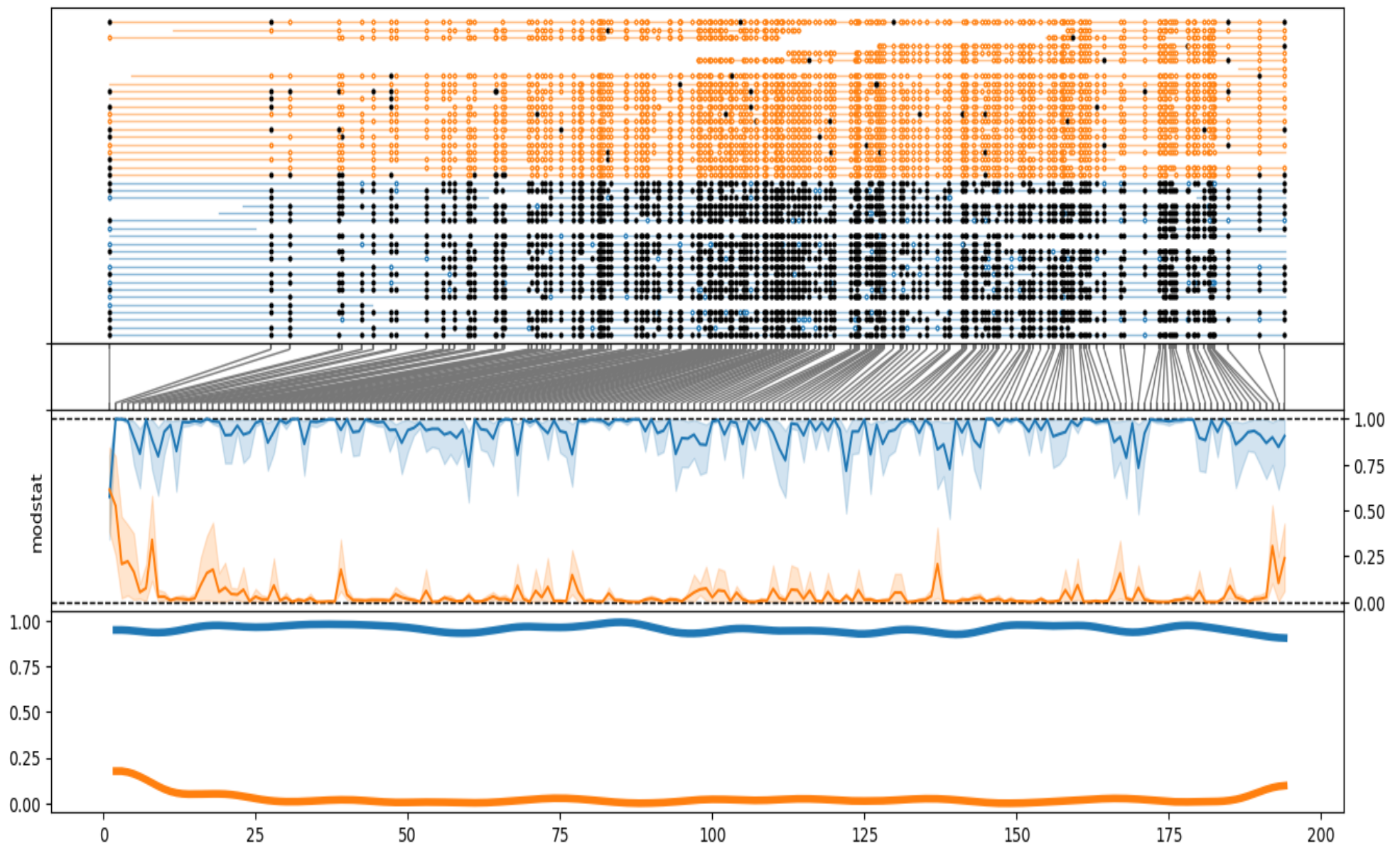
EPI_16_hg38_phased_chr11_1997509_2003349



EPI_16_hg38_phased_chr11_2698155_2701028

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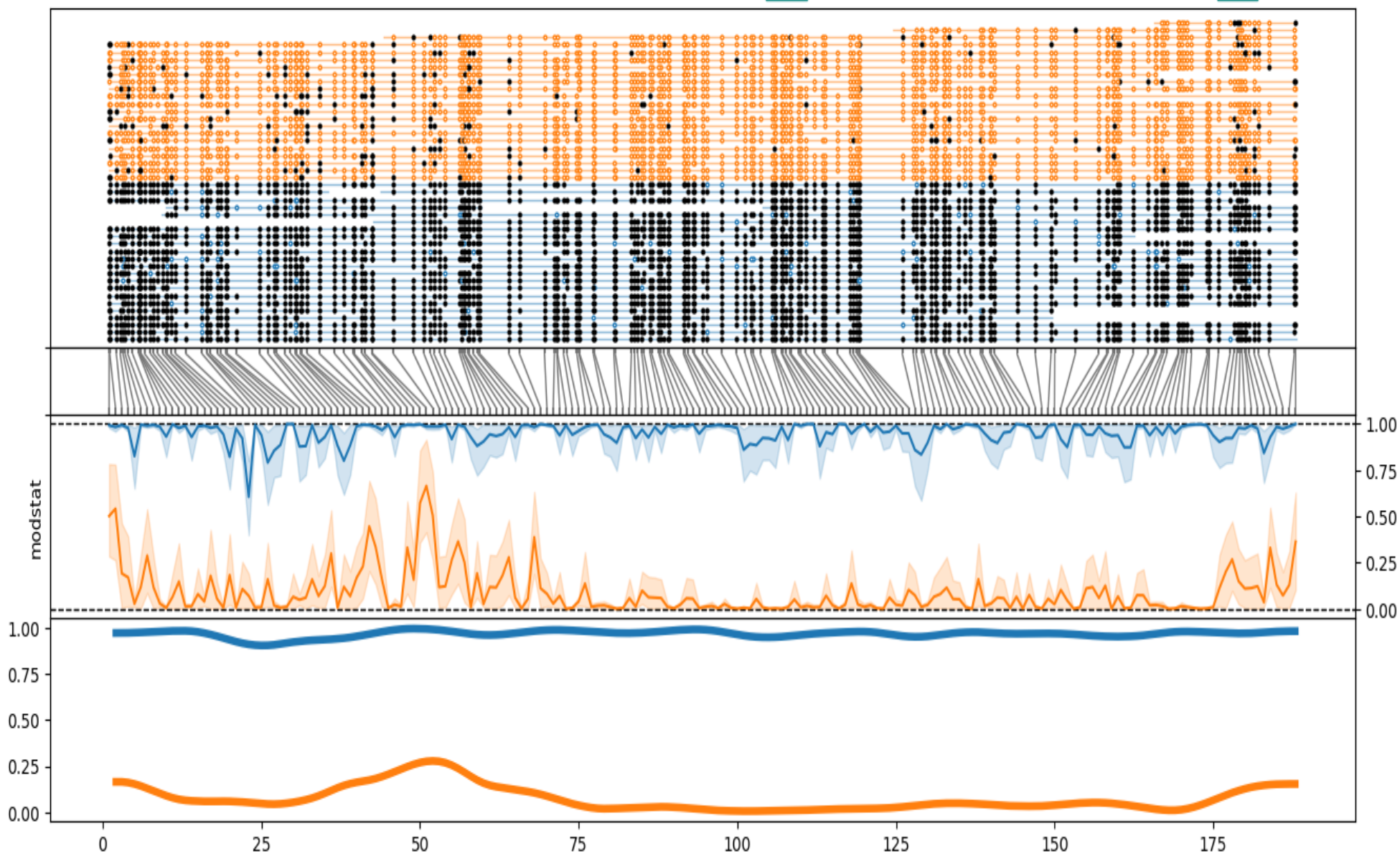
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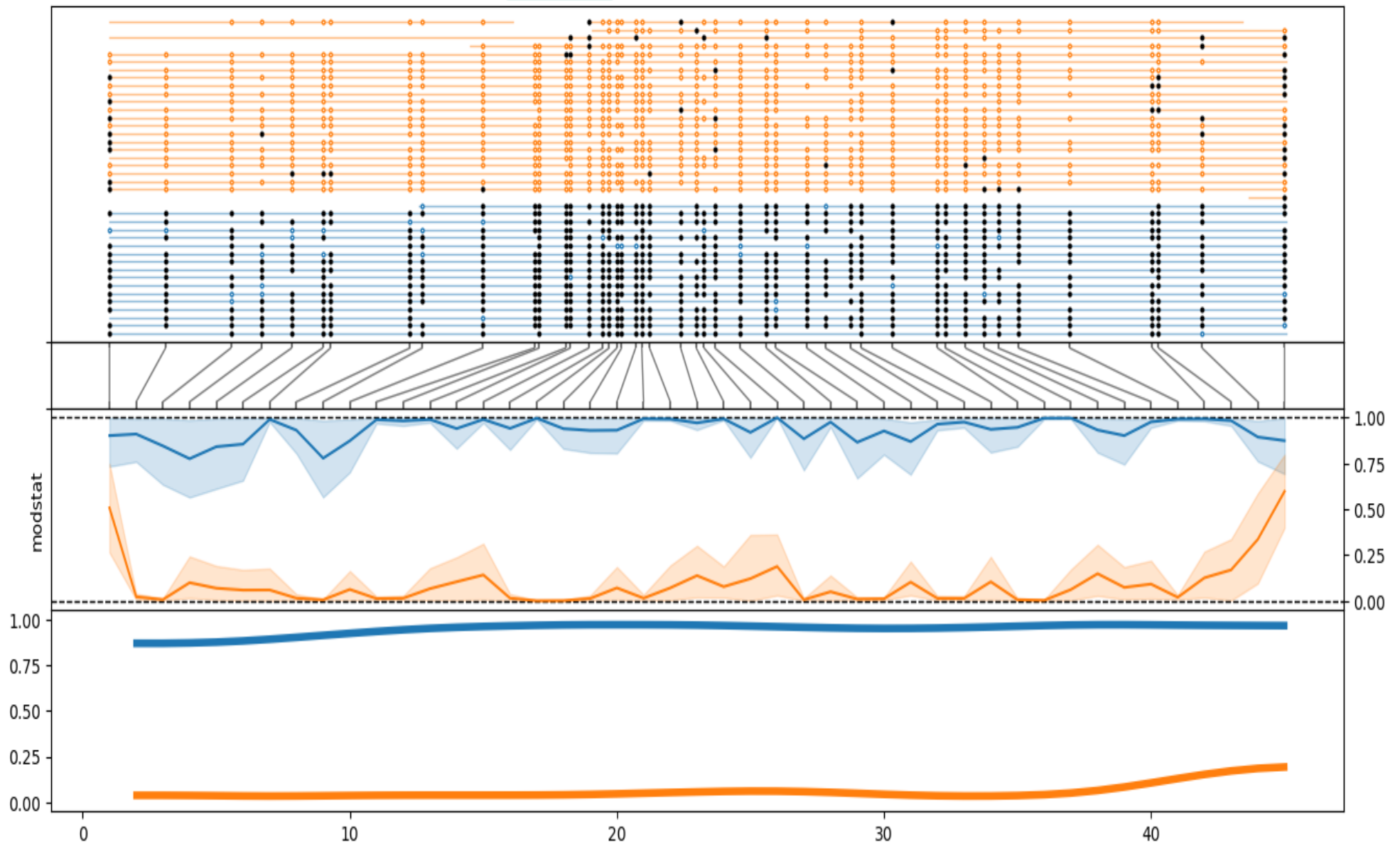
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EPI_16_hg38_phased_chr14_100904325_100905081

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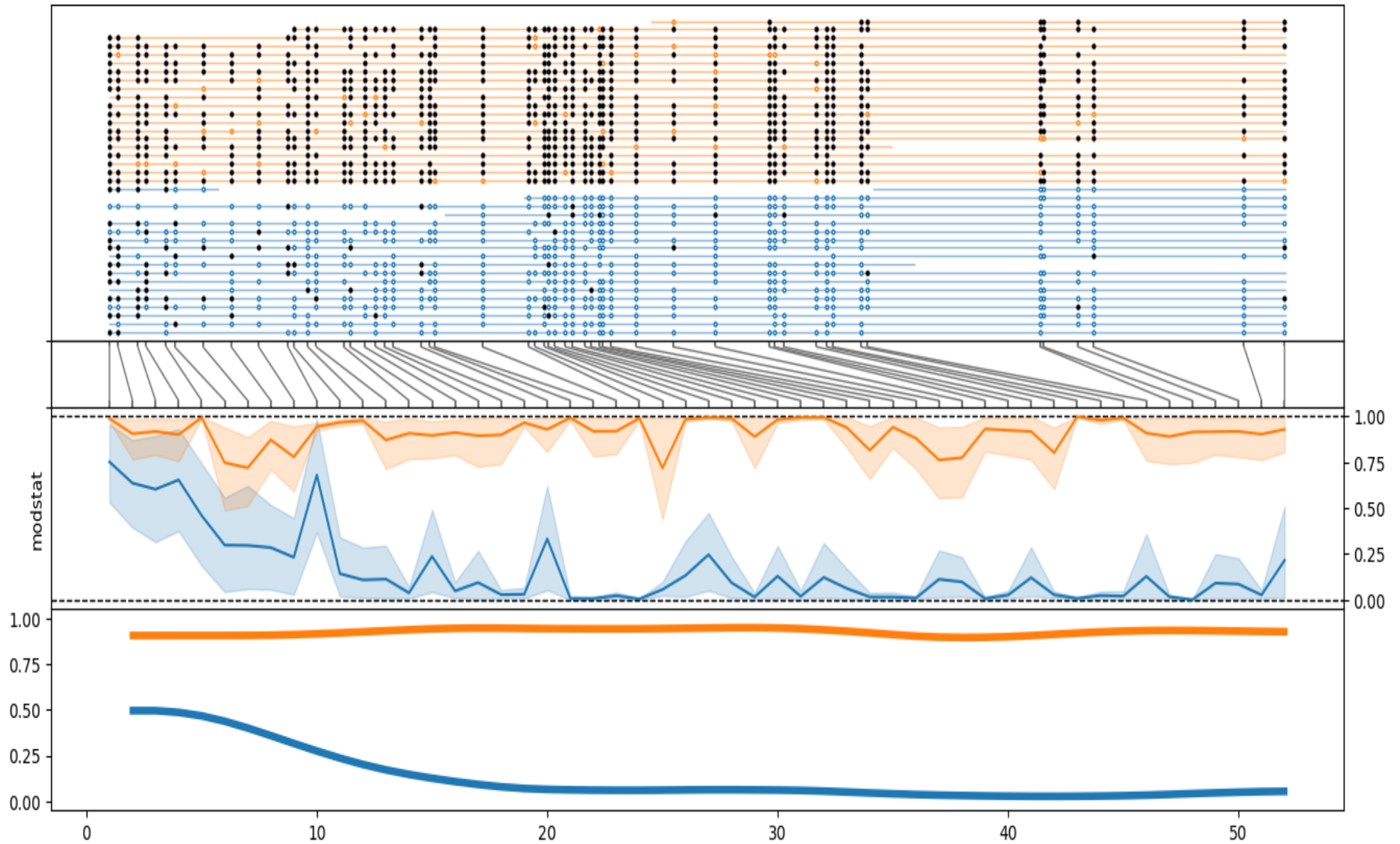
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EPI_16_hg38_phased_chr15_23647178_23648424

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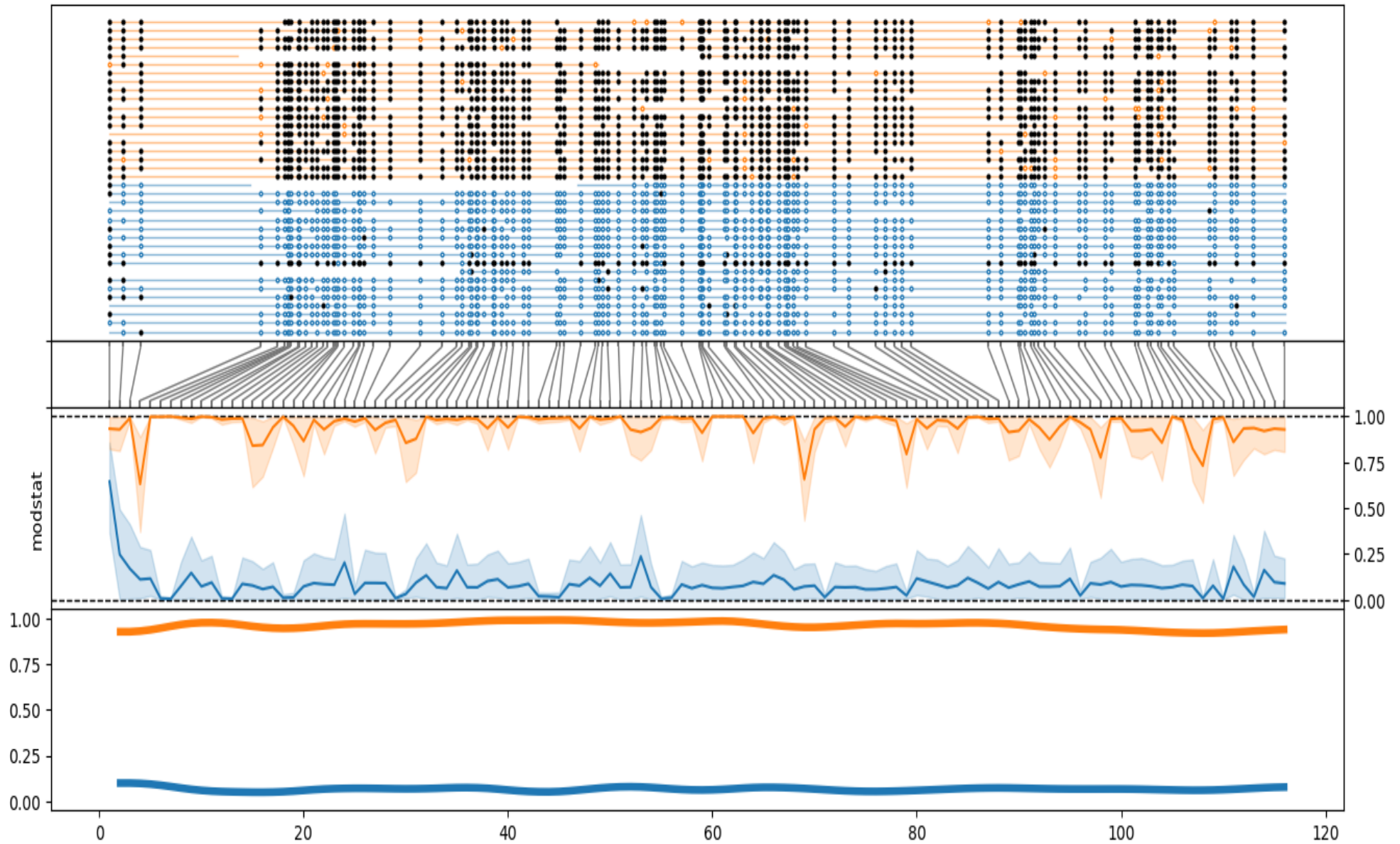
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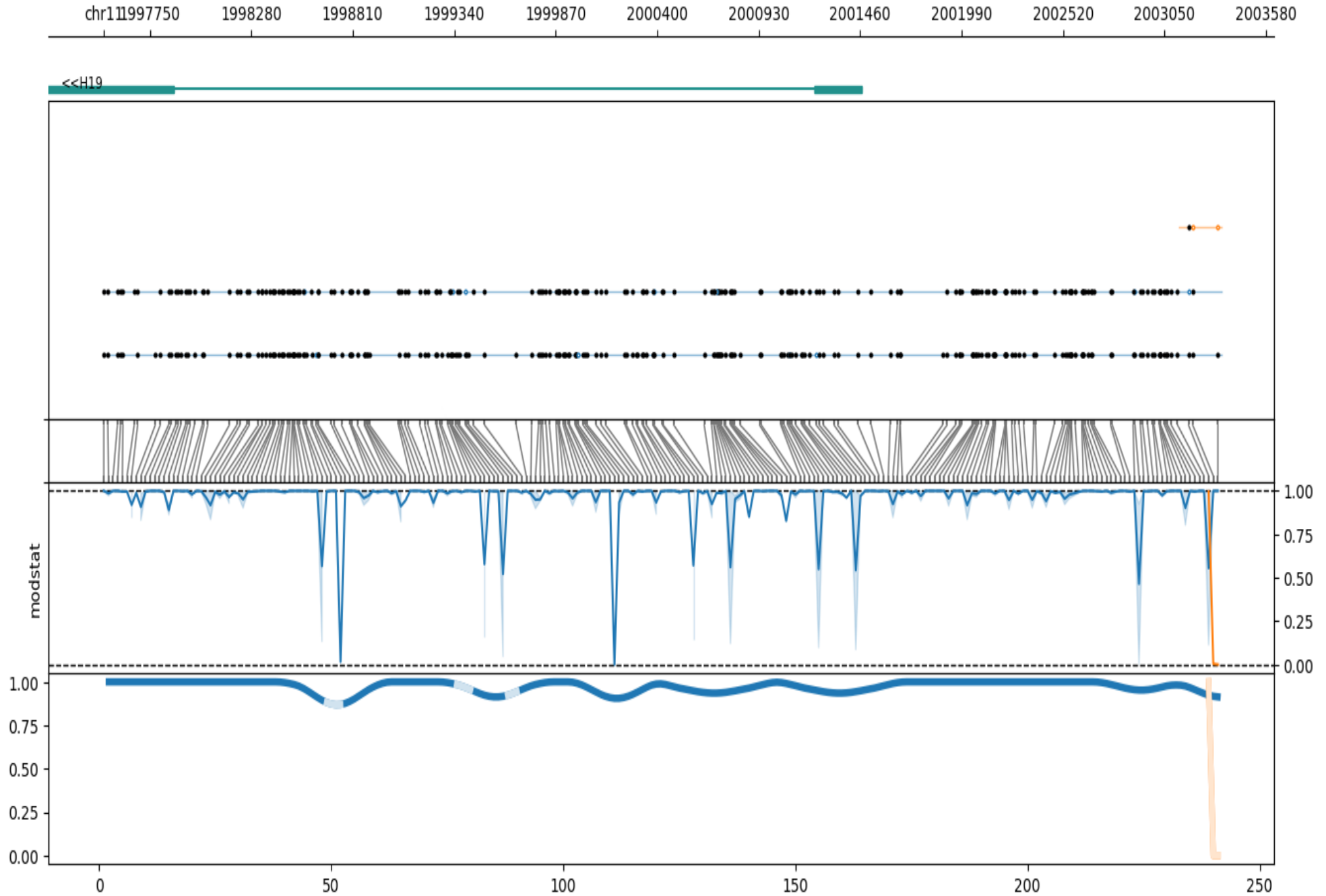
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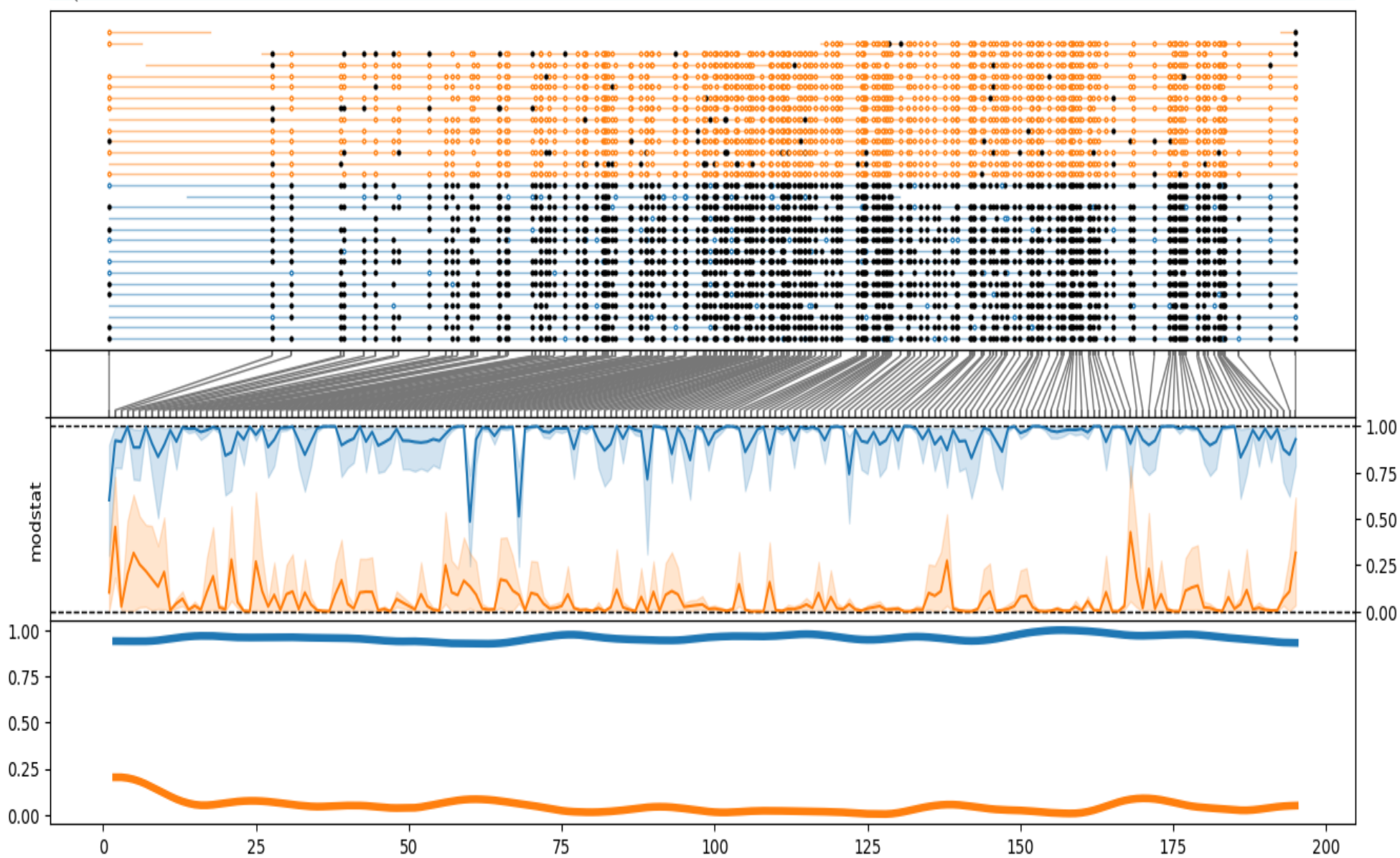
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EPI_17_hg38_phased_chr11_2698155_2701028

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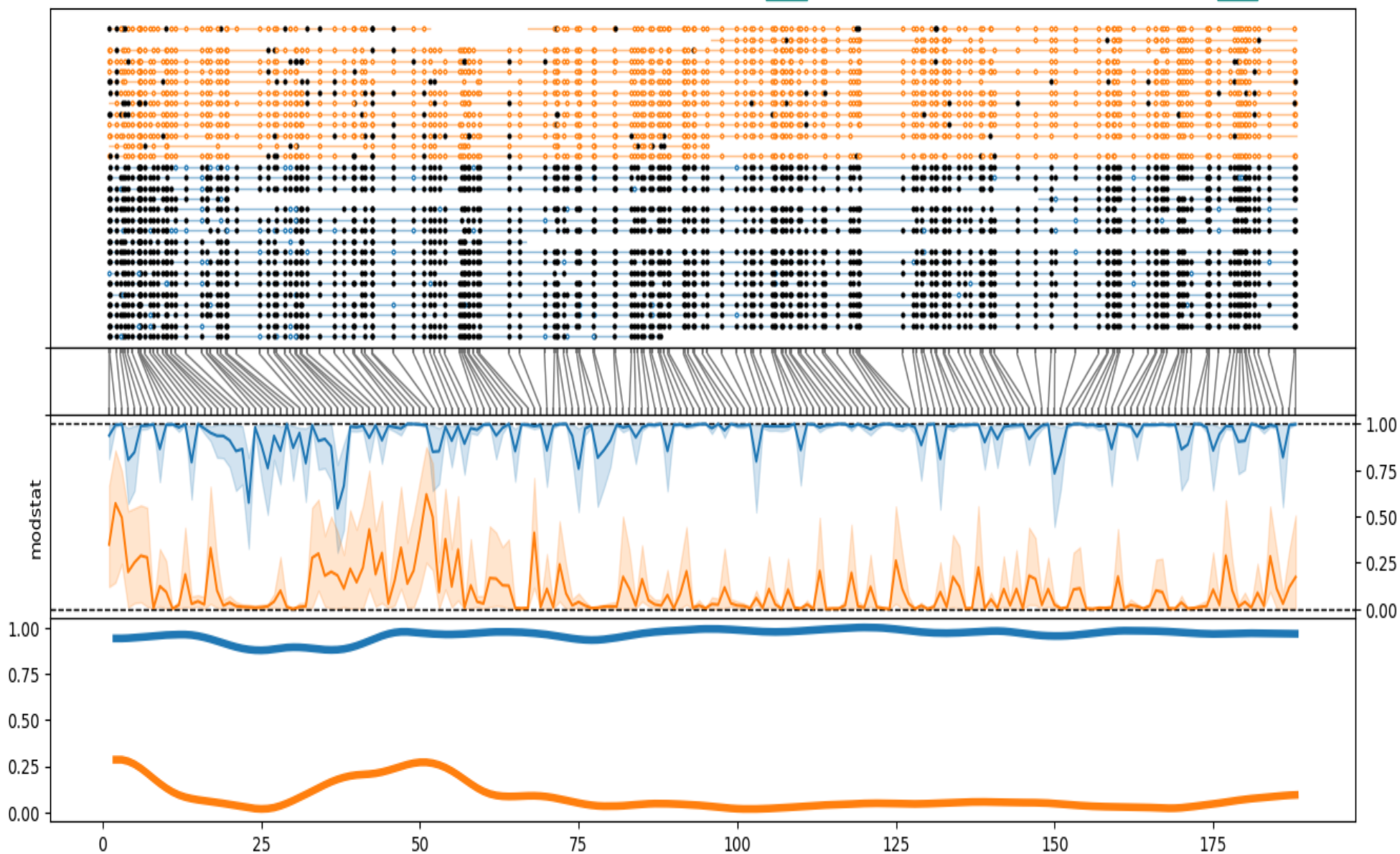
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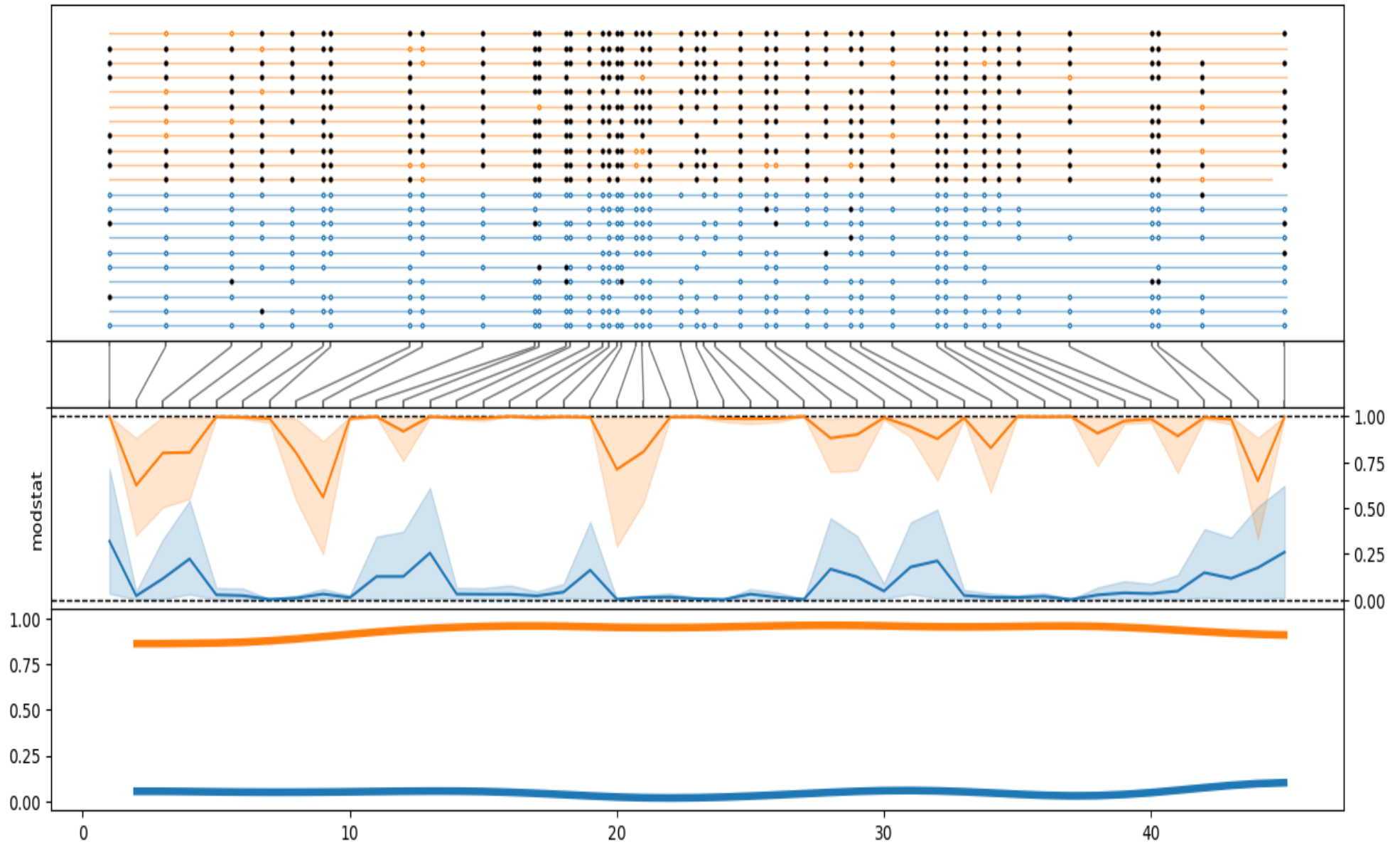
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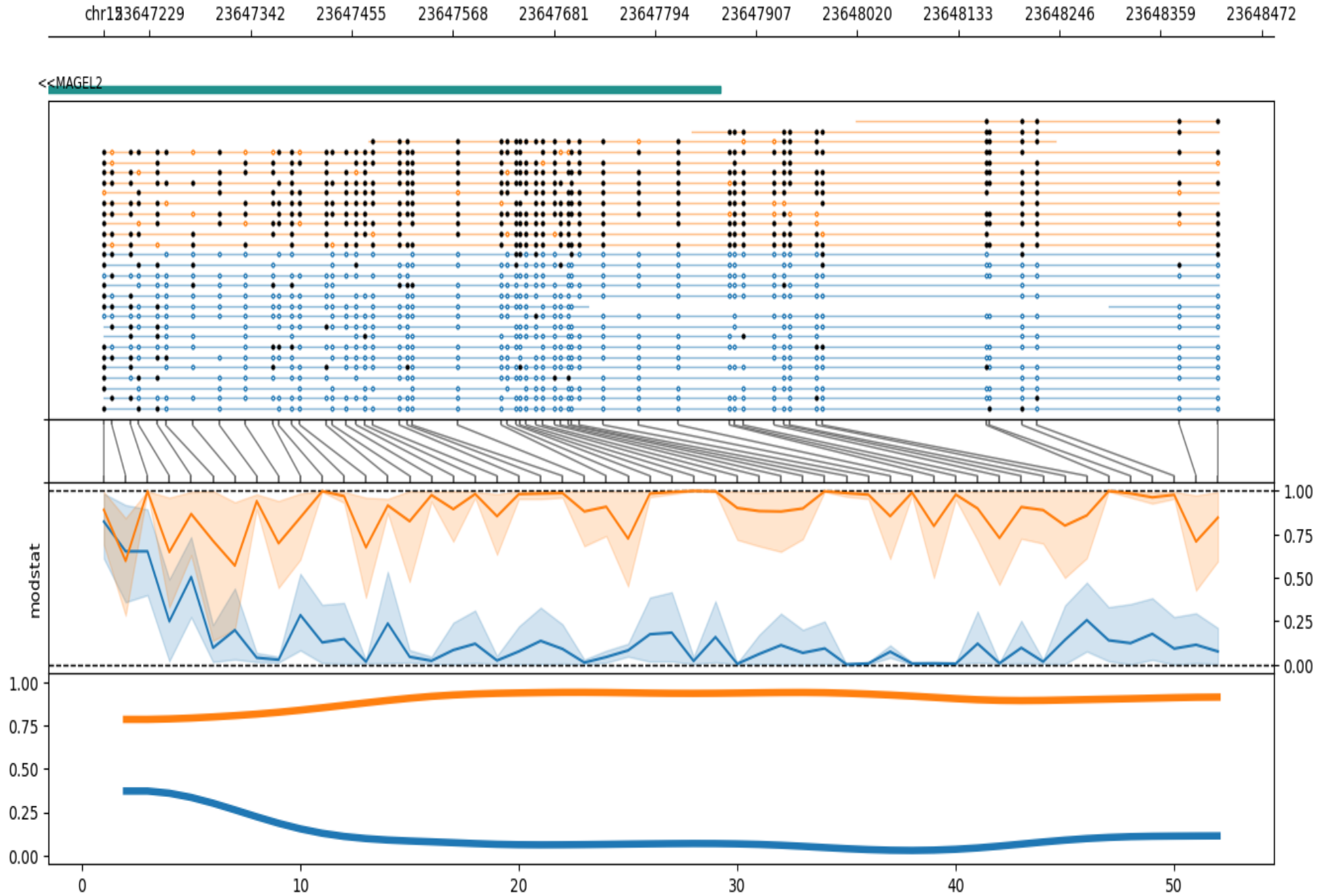
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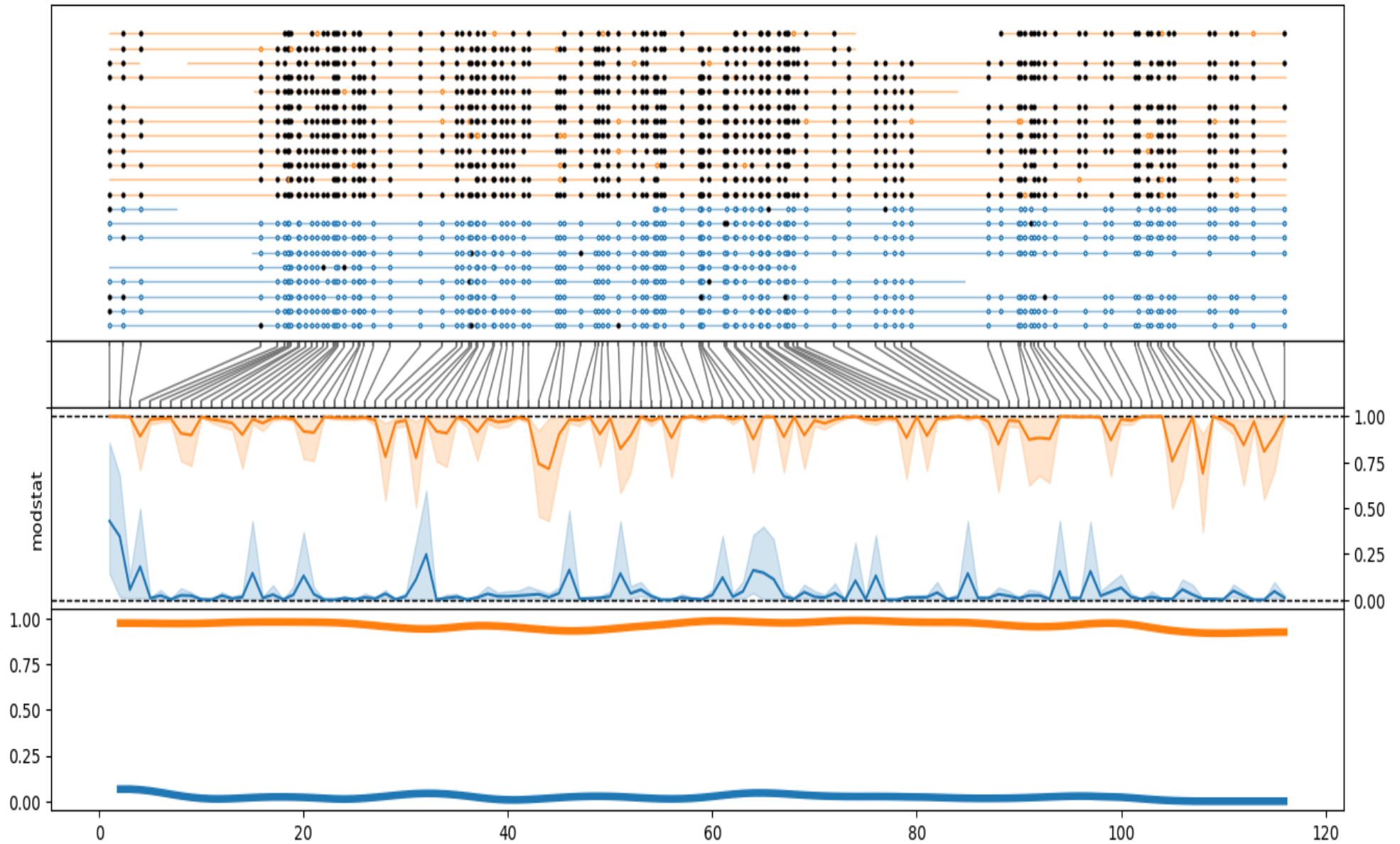
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EPI_17_hg38_phased_chr15_24954564_24956828

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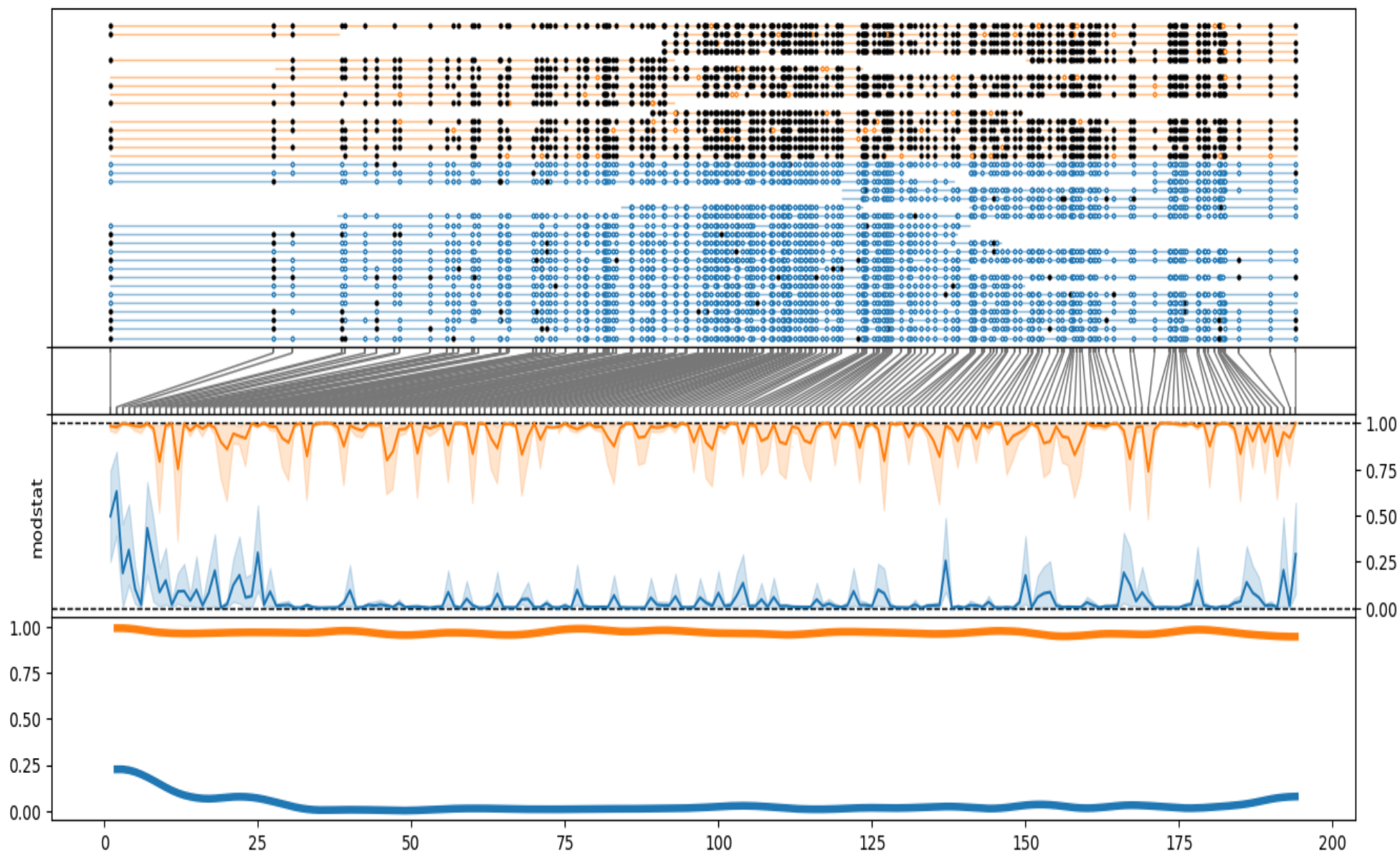
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EPI_18_hg38_phased_chr11_2698155_2701028

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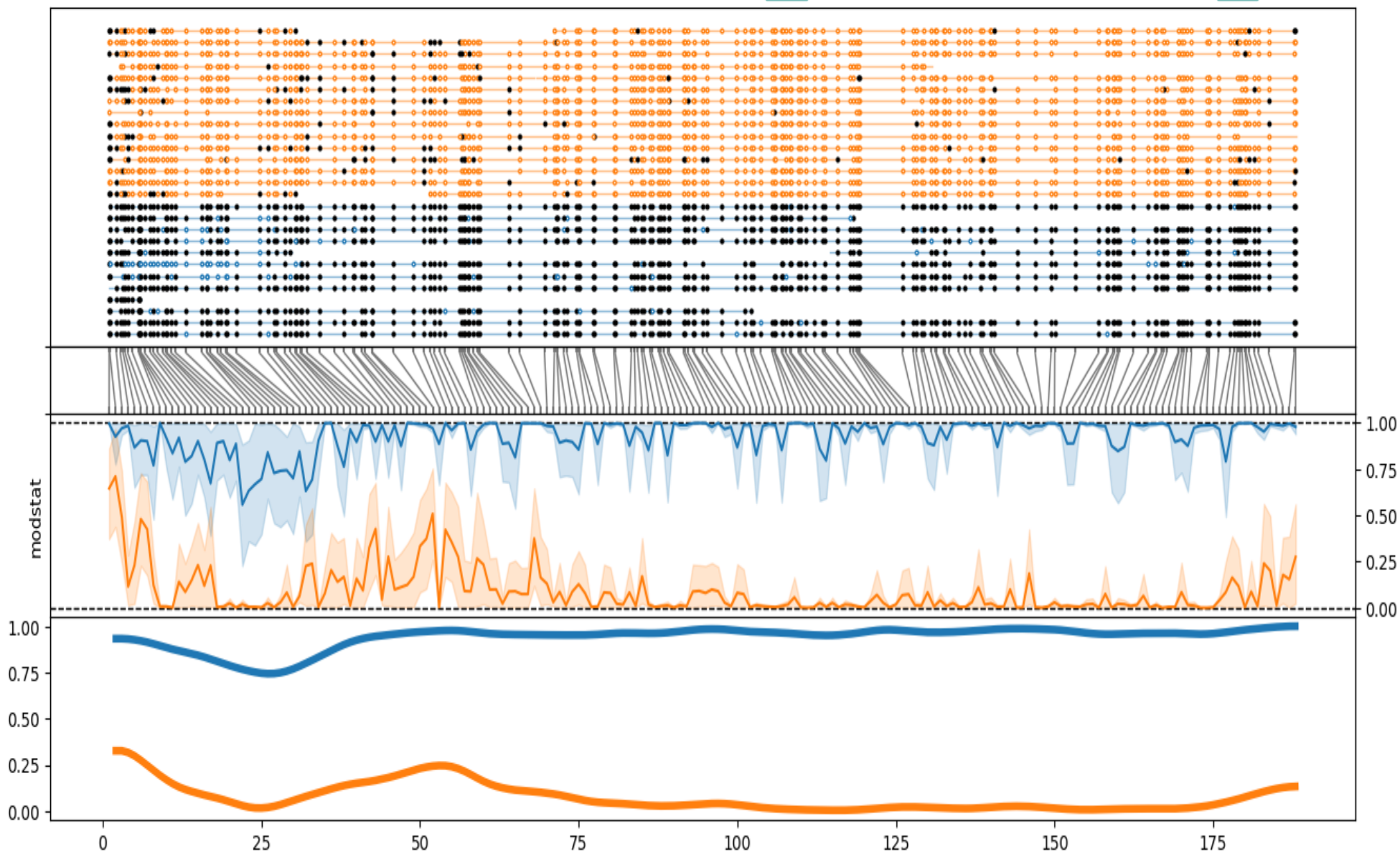
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EPI_18_hg38_phased_chr14_100824185_100827640

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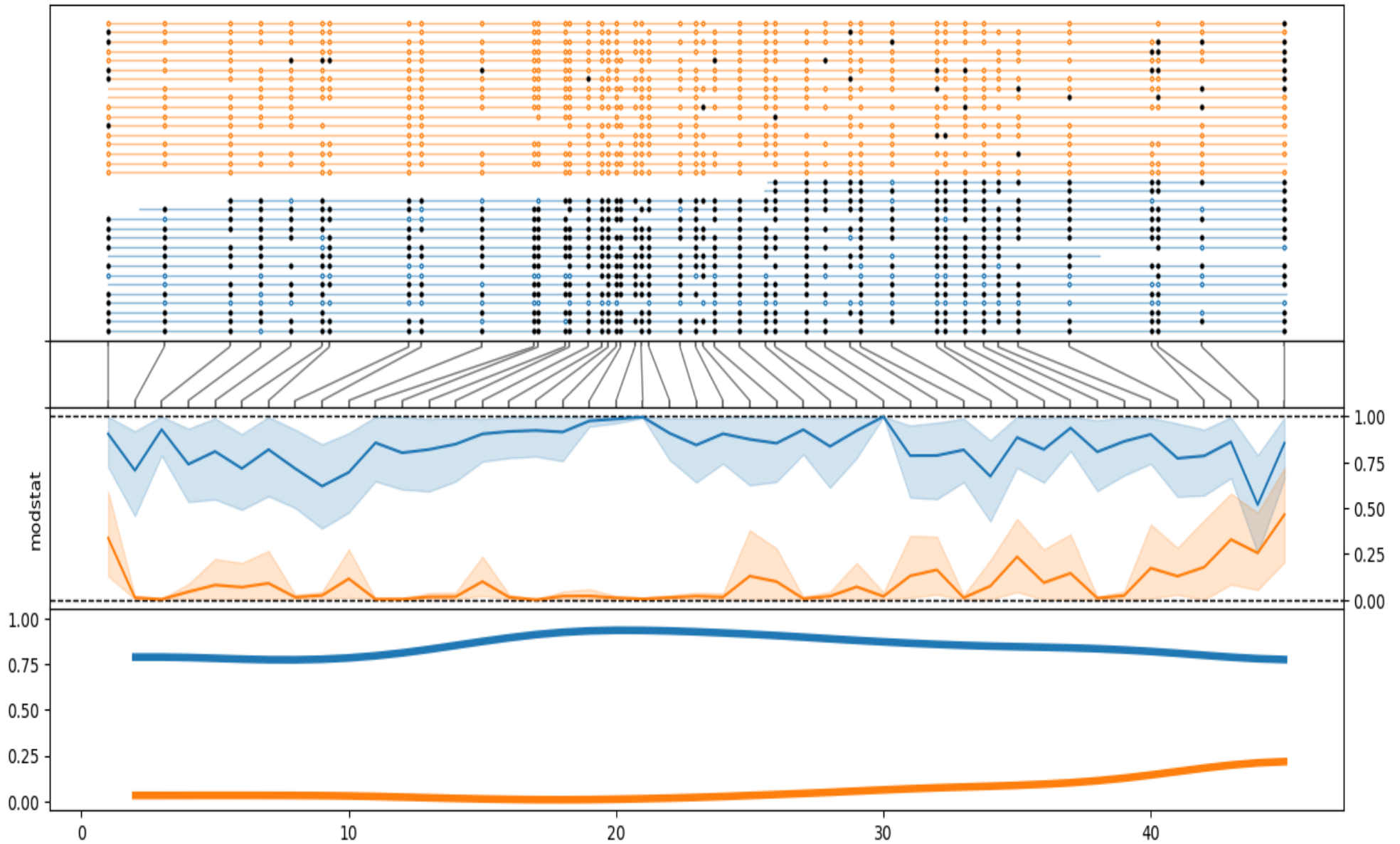
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EPI_18_hg38_phased_chr14_100904325_100905081

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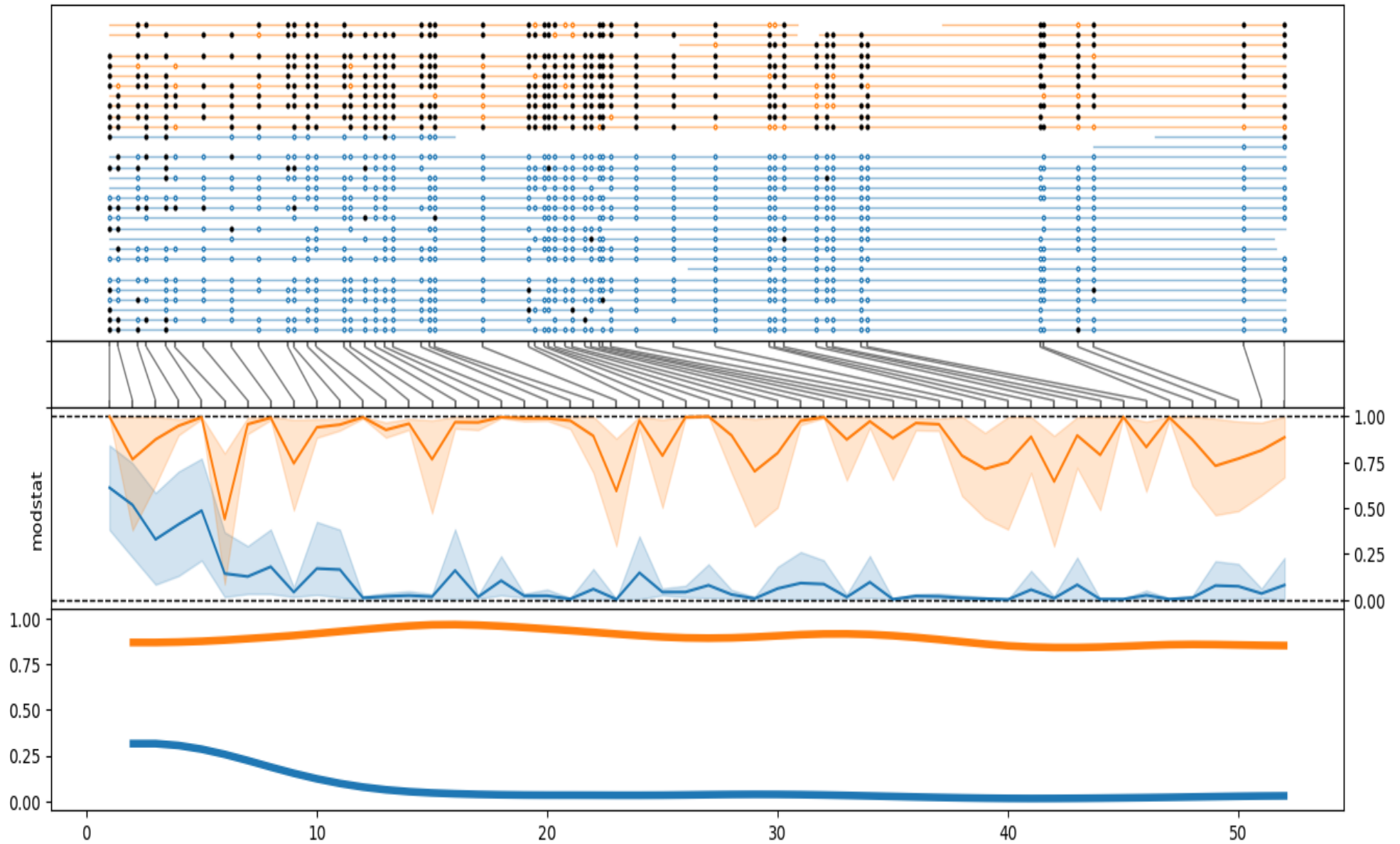
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EPI_18_hg38_phased_chr15_23647178_23648424

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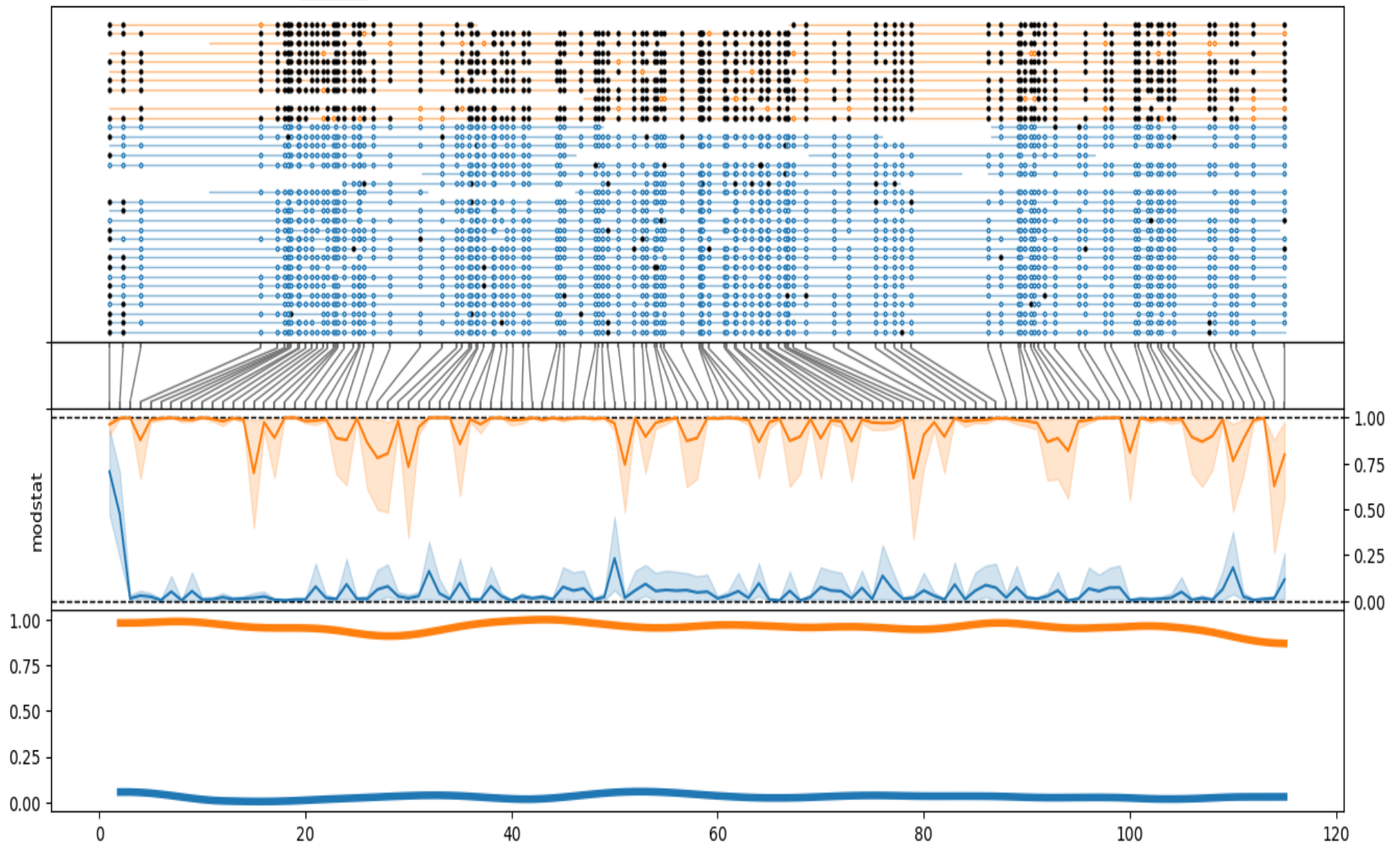
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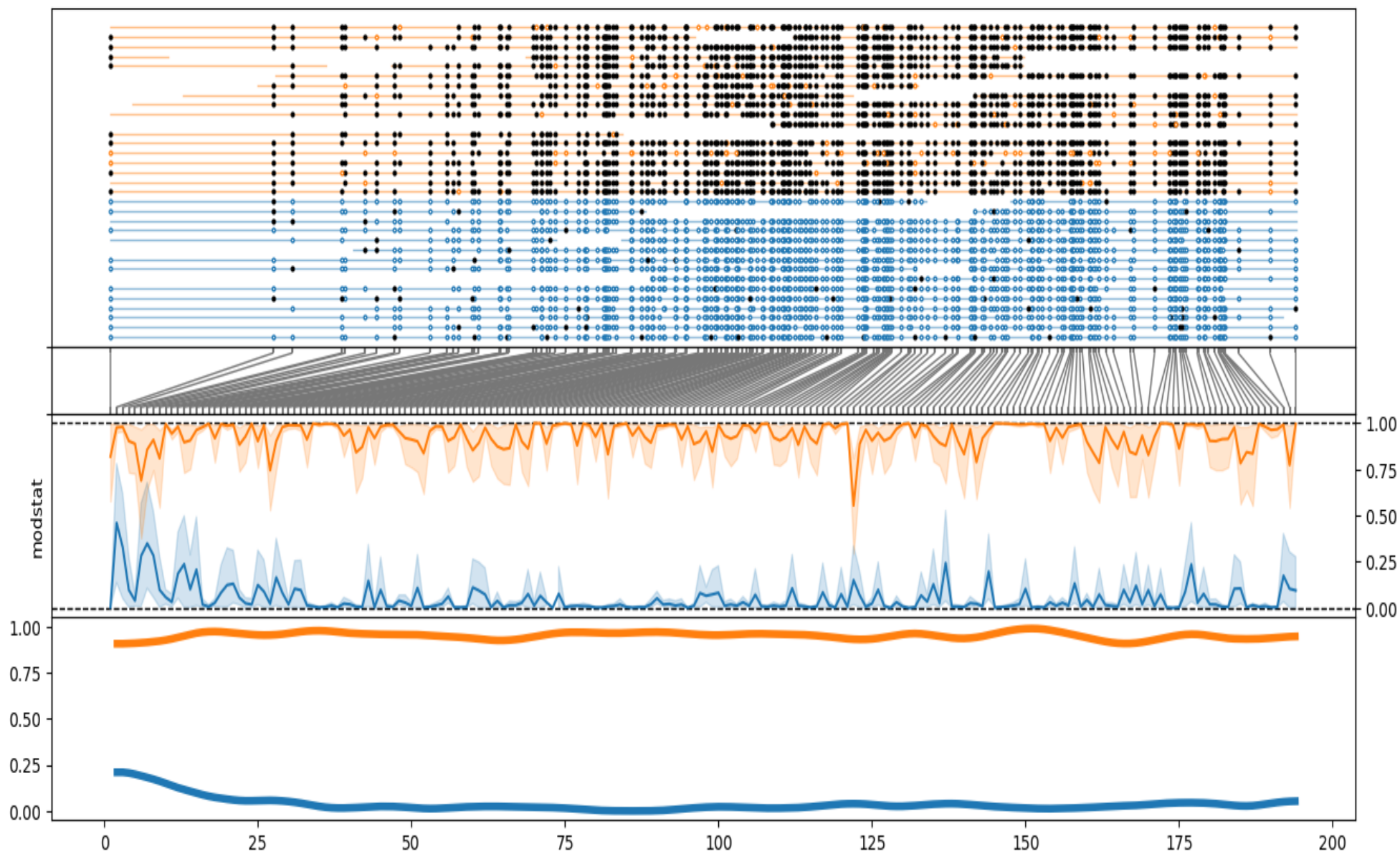
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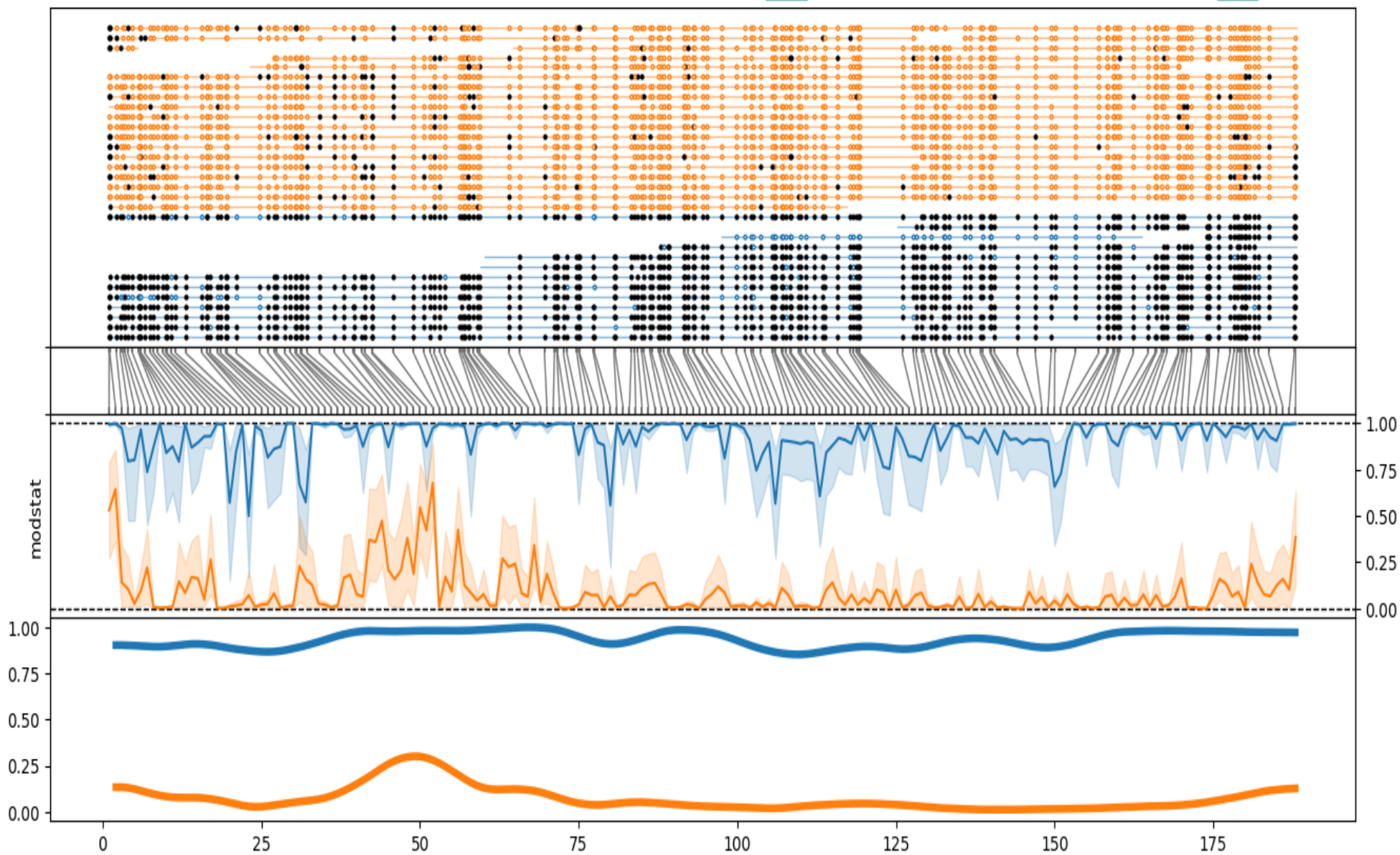
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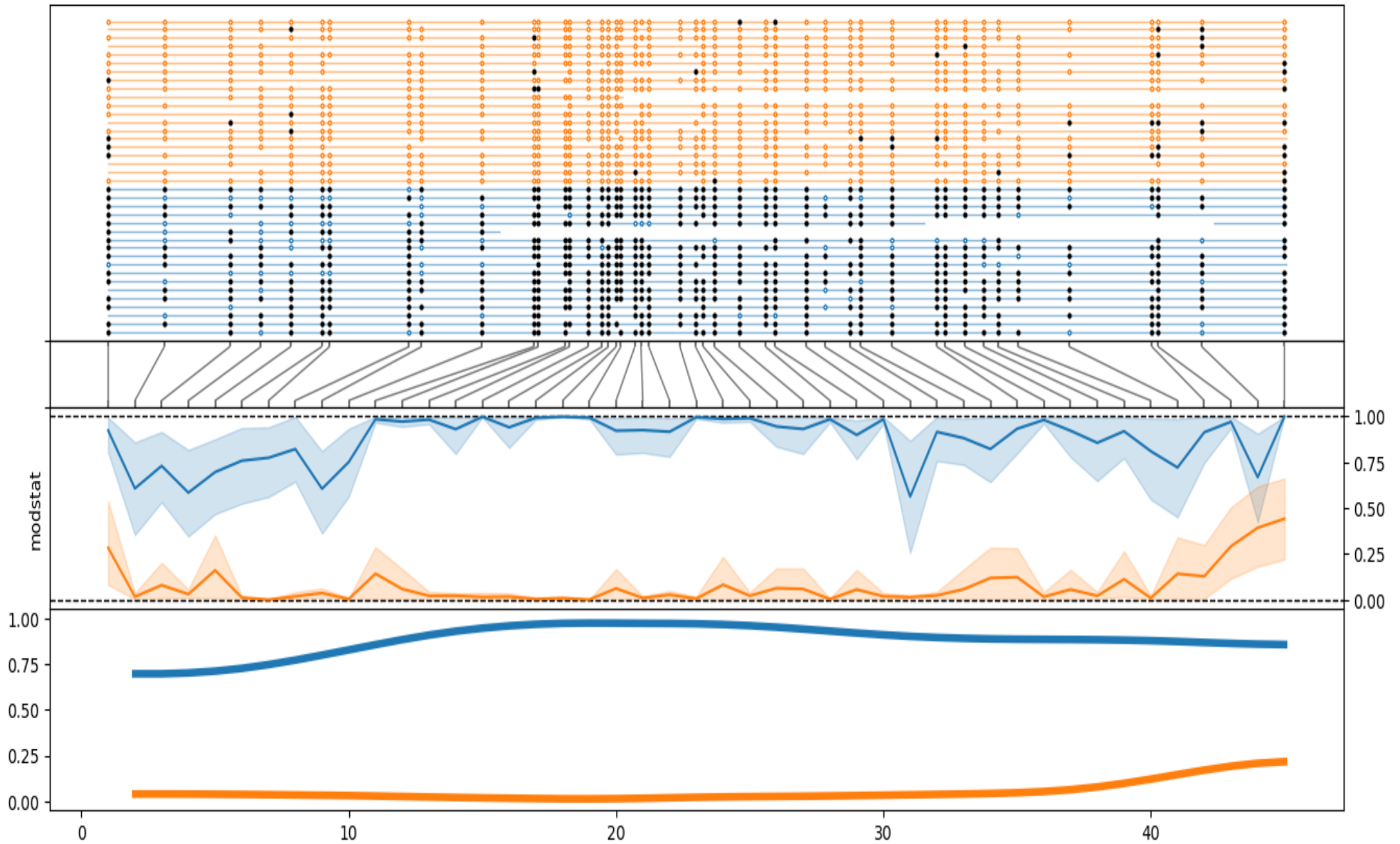
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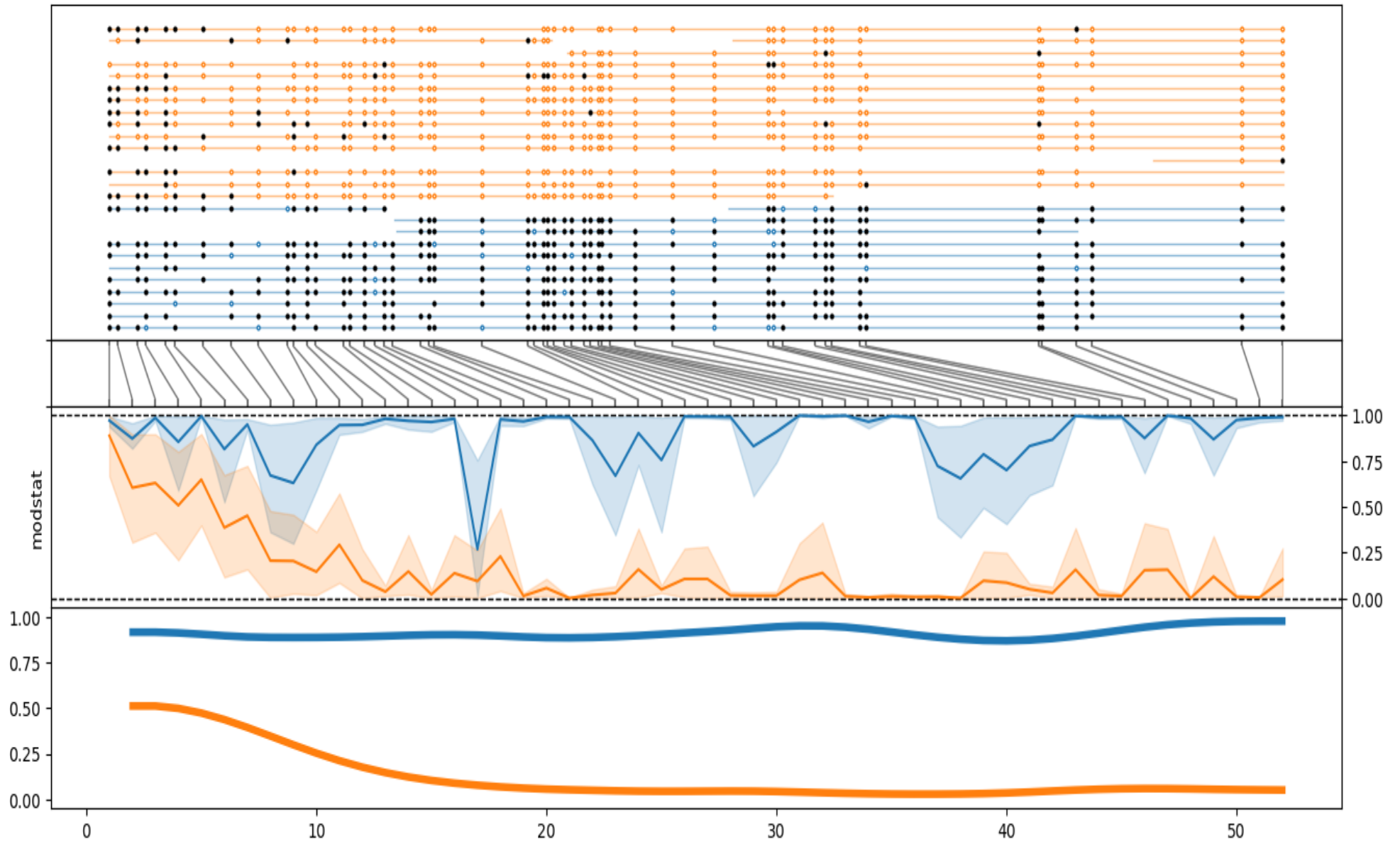
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EPI_19_hg38_phased_chr15_23647178_23648424

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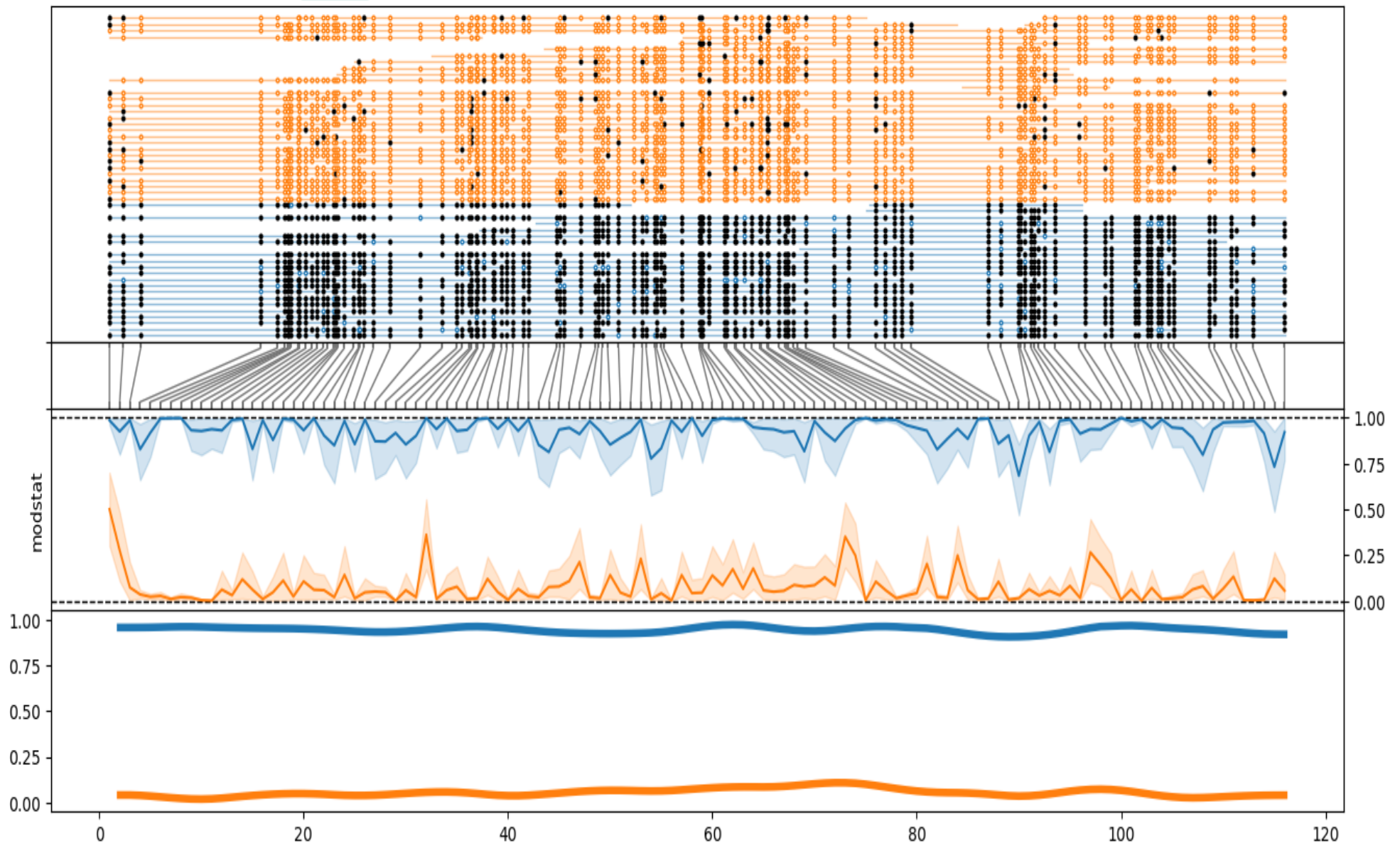
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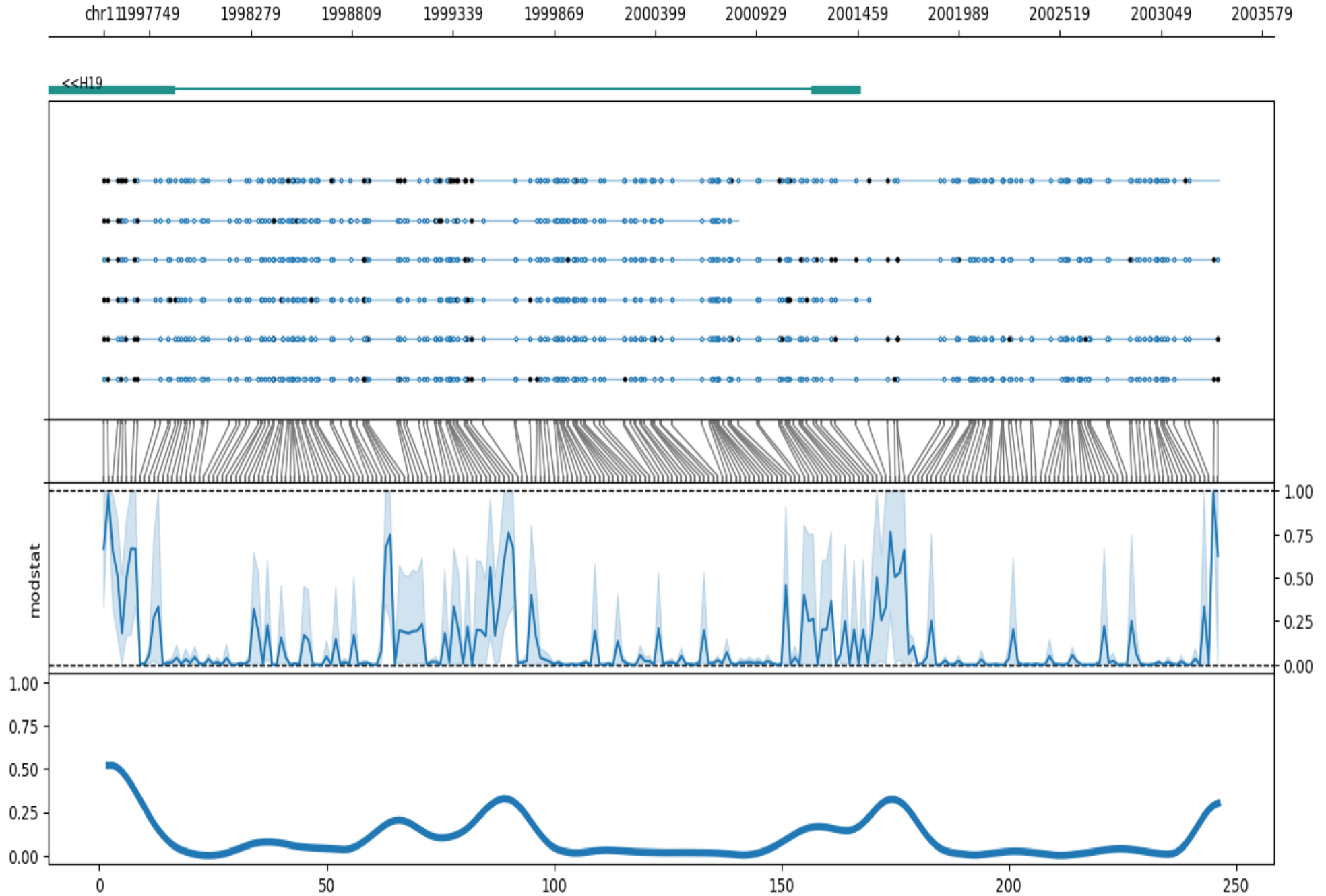
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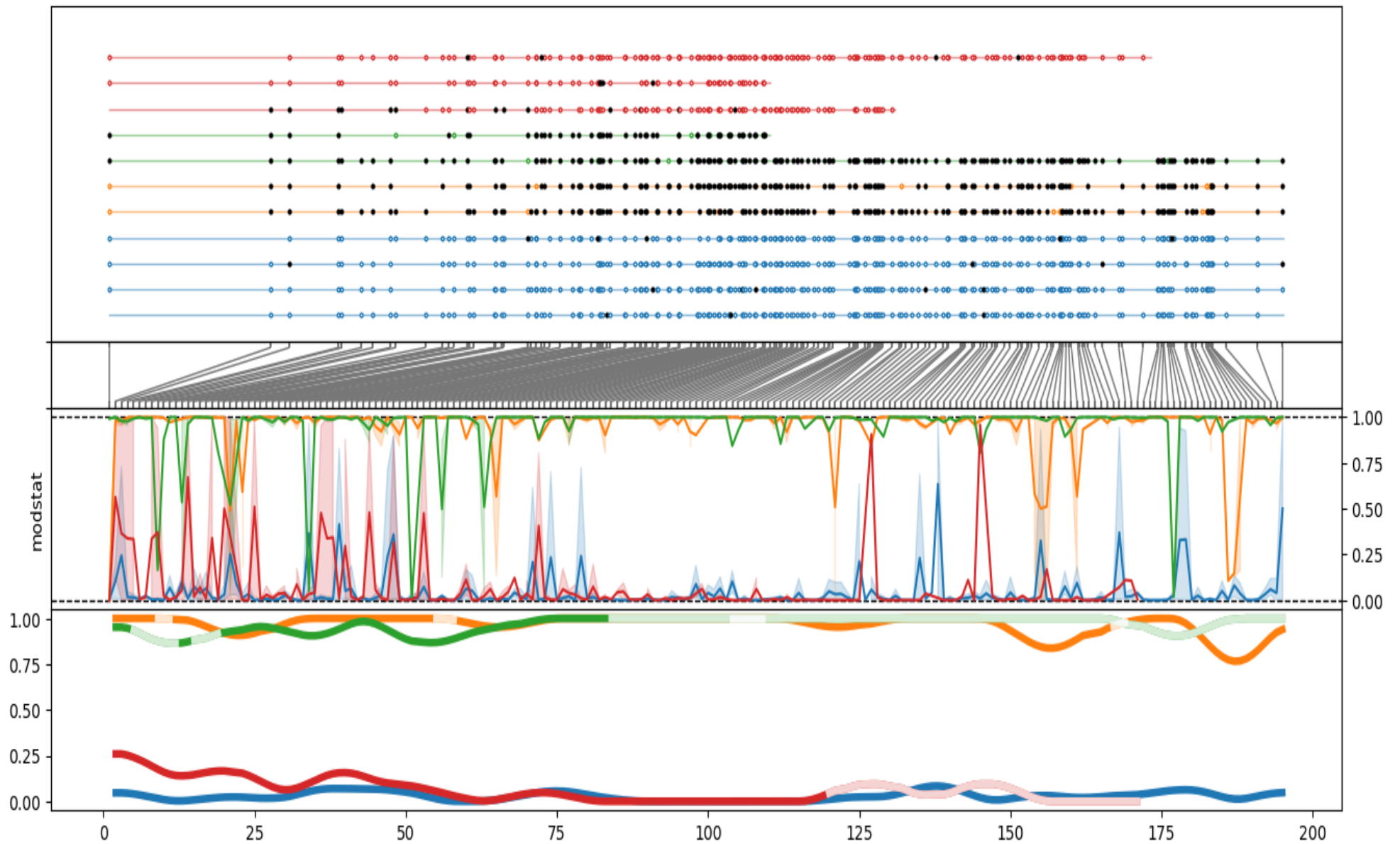
EPI_20_hg38_phased_chr11_1997509_2003349



EPI_20_hg38_phased_chr11_2698155_2701028

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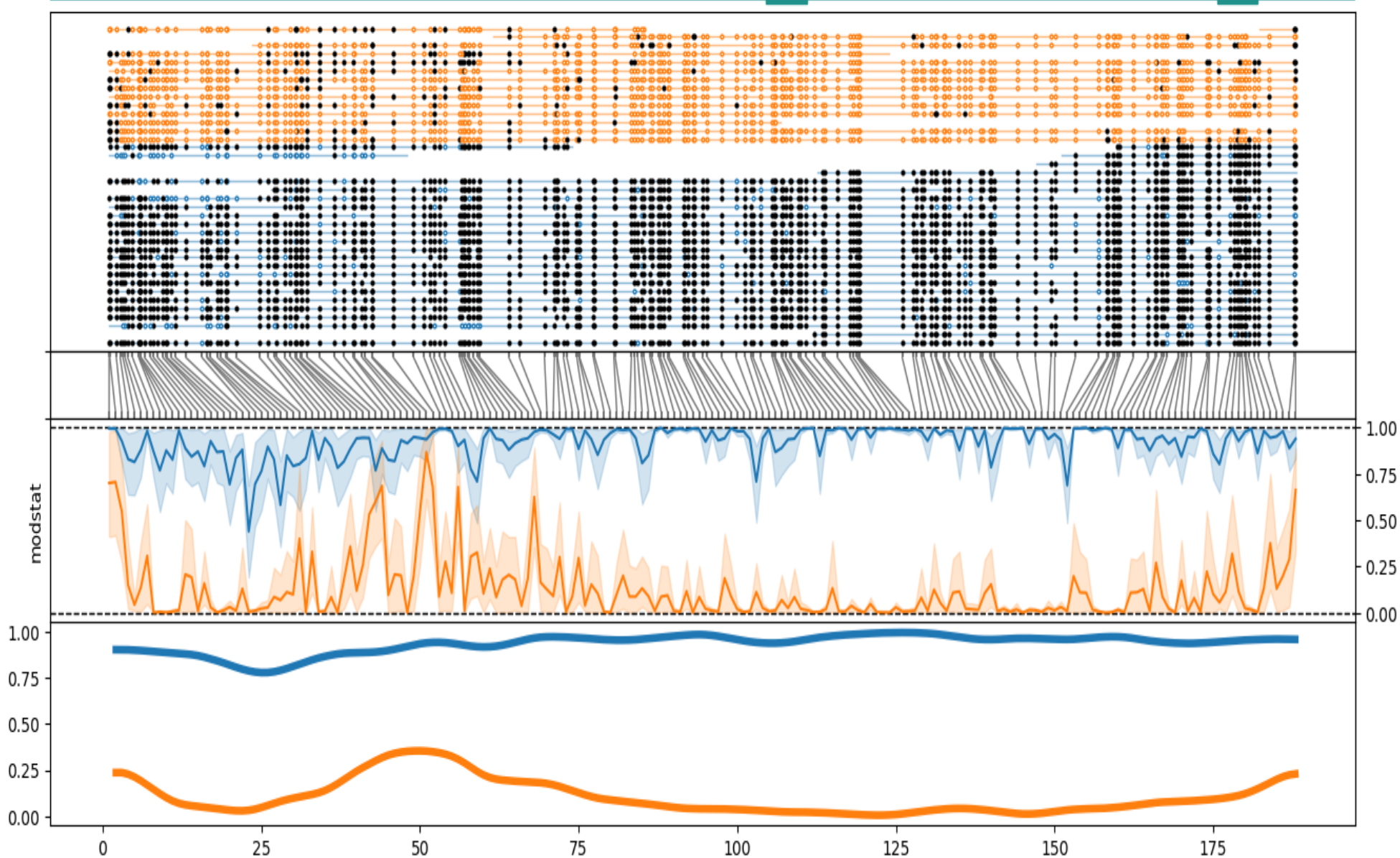
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EPI_20_hg38_phased_chr14_100824185_100827640

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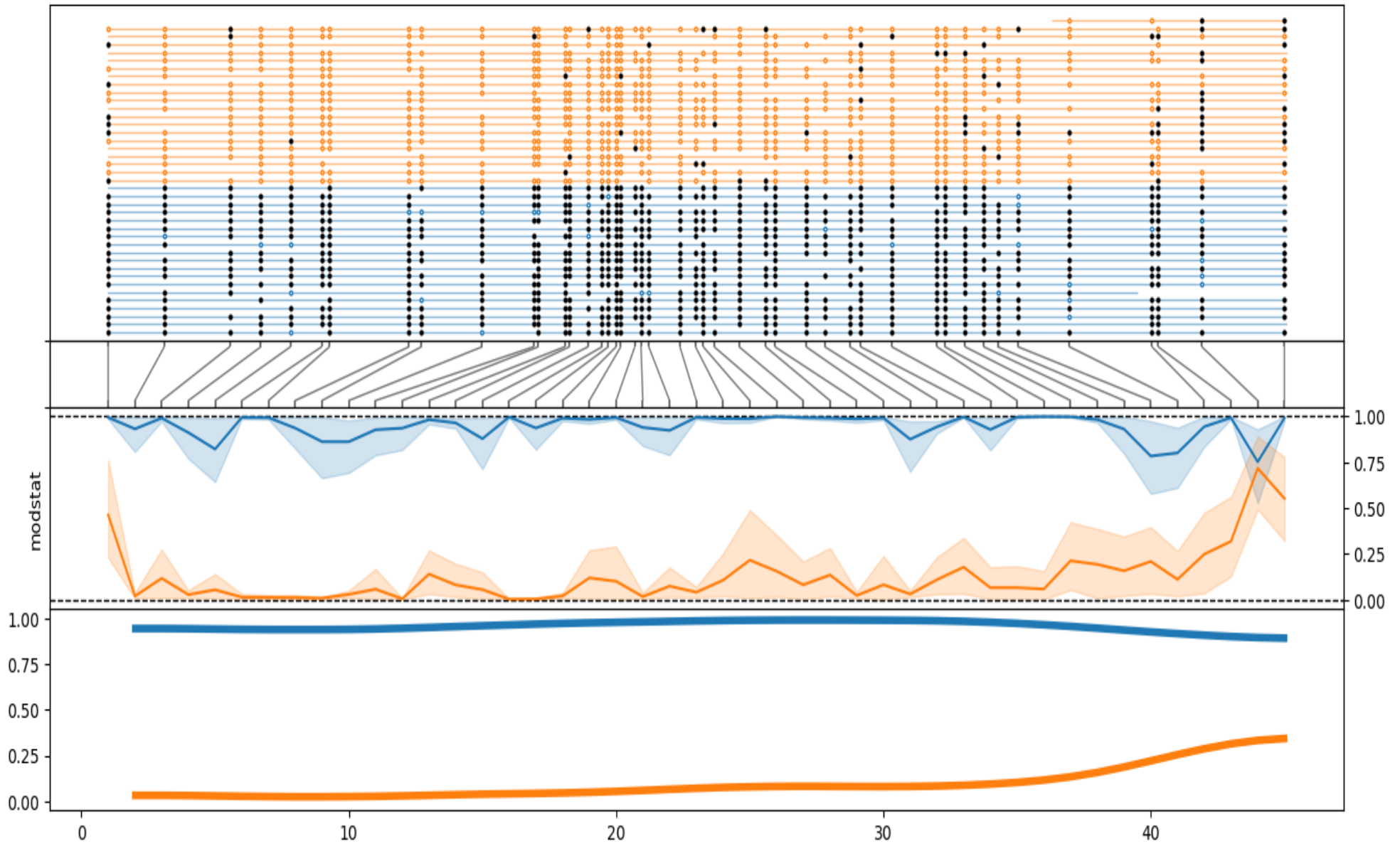
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EPI_20_hg38_phased_chr14_100904325_100905081

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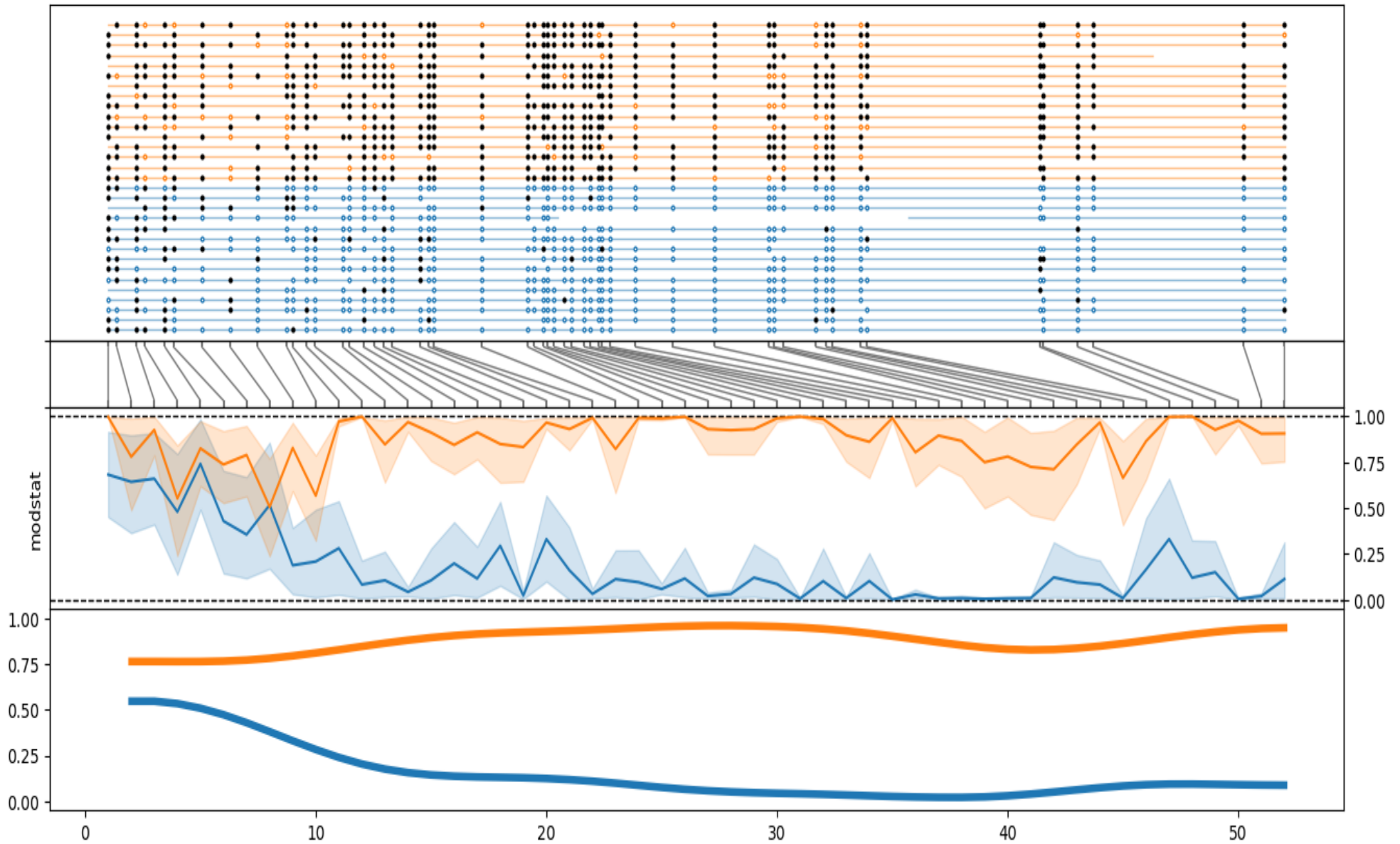
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EPI_20_hg38_phased_chr15_23647178_23648424

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EPI_20_hg38_phased_chr15_24954564_24956828

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