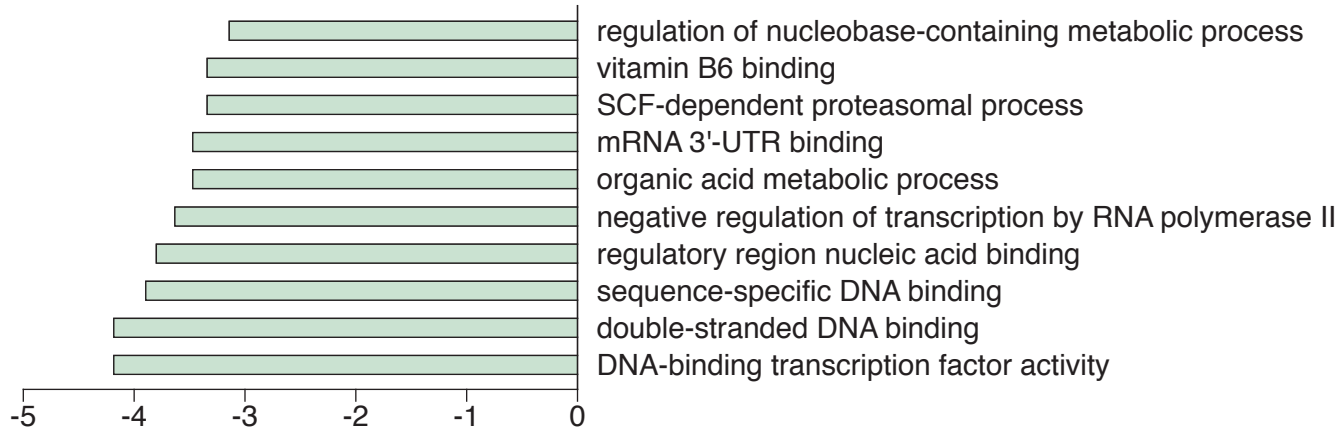
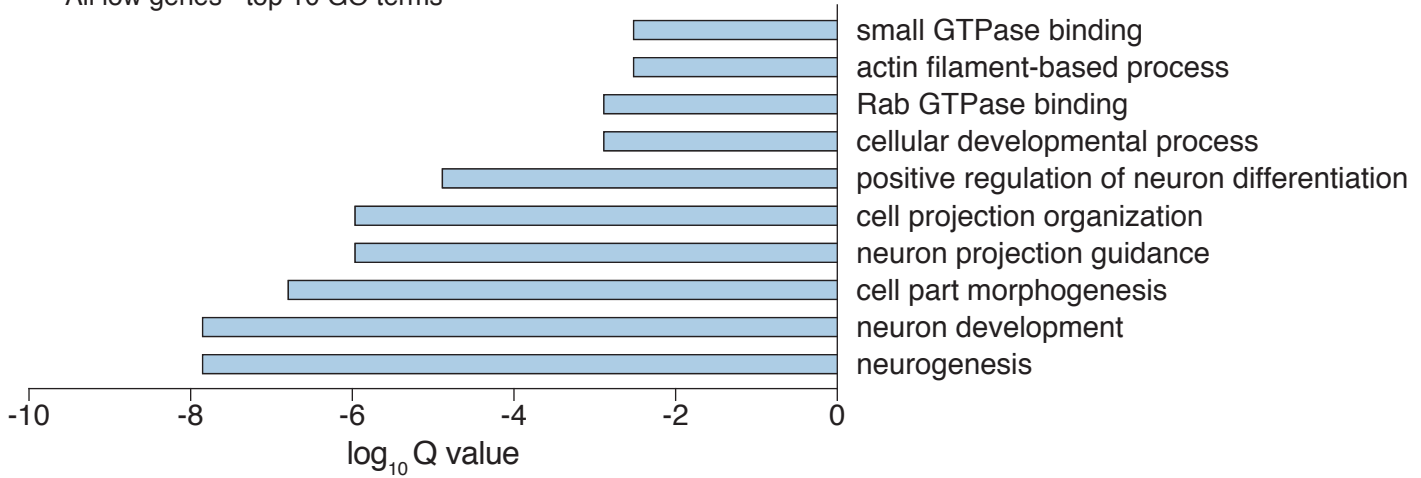


Figure 1 - supplement

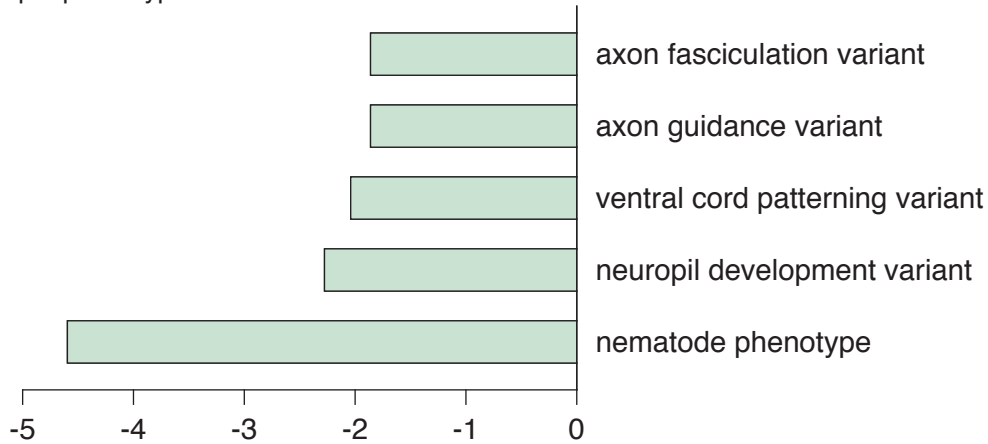
A All high genes - top 10 GO terms



All low genes - top 10 GO terms



B All high genes - top 5 phenotype terms



All low genes - top 5 phenotype terms

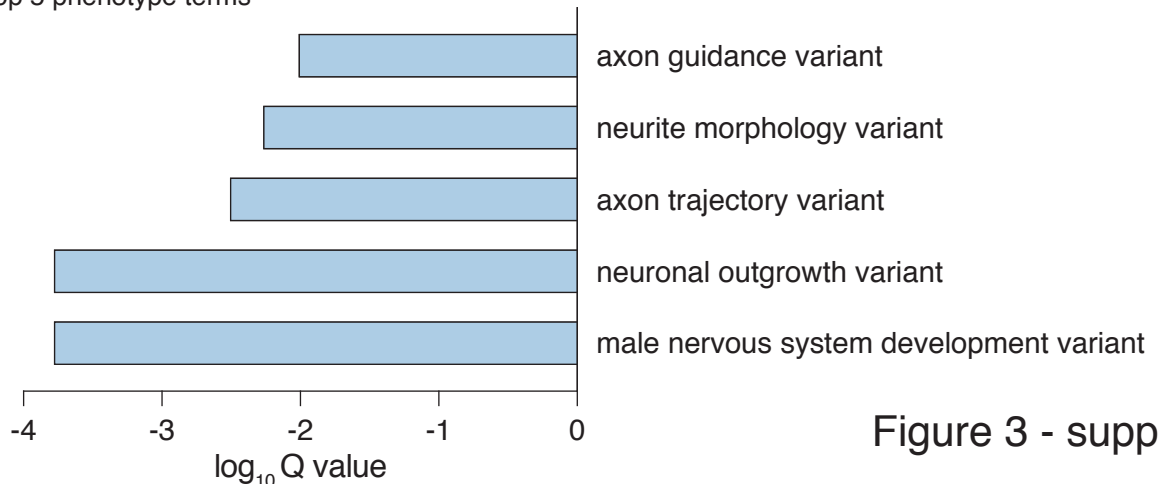
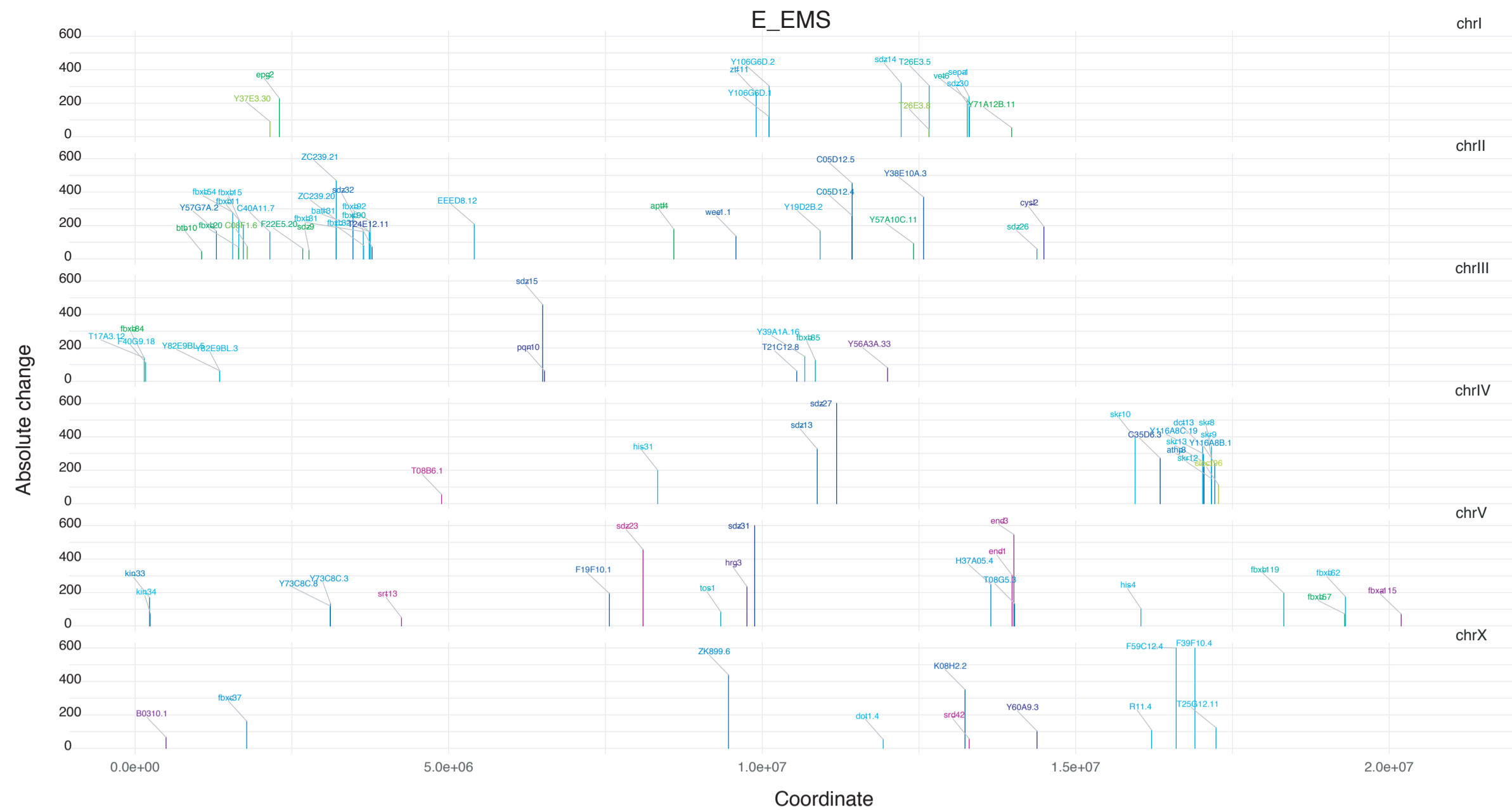
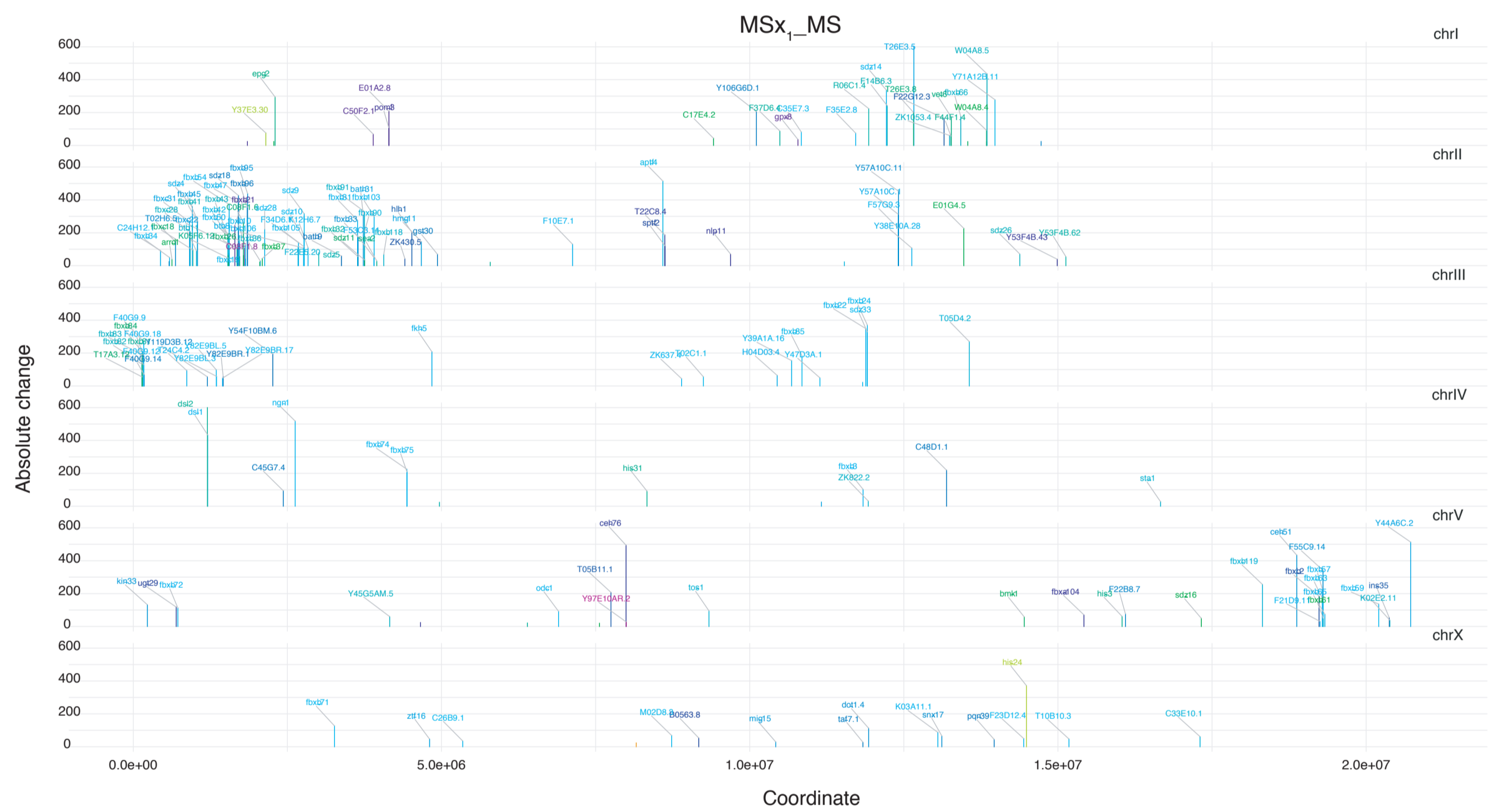


Figure 3 - supplement

E_EMS



MSx₁_MS



ABprx_ABpr

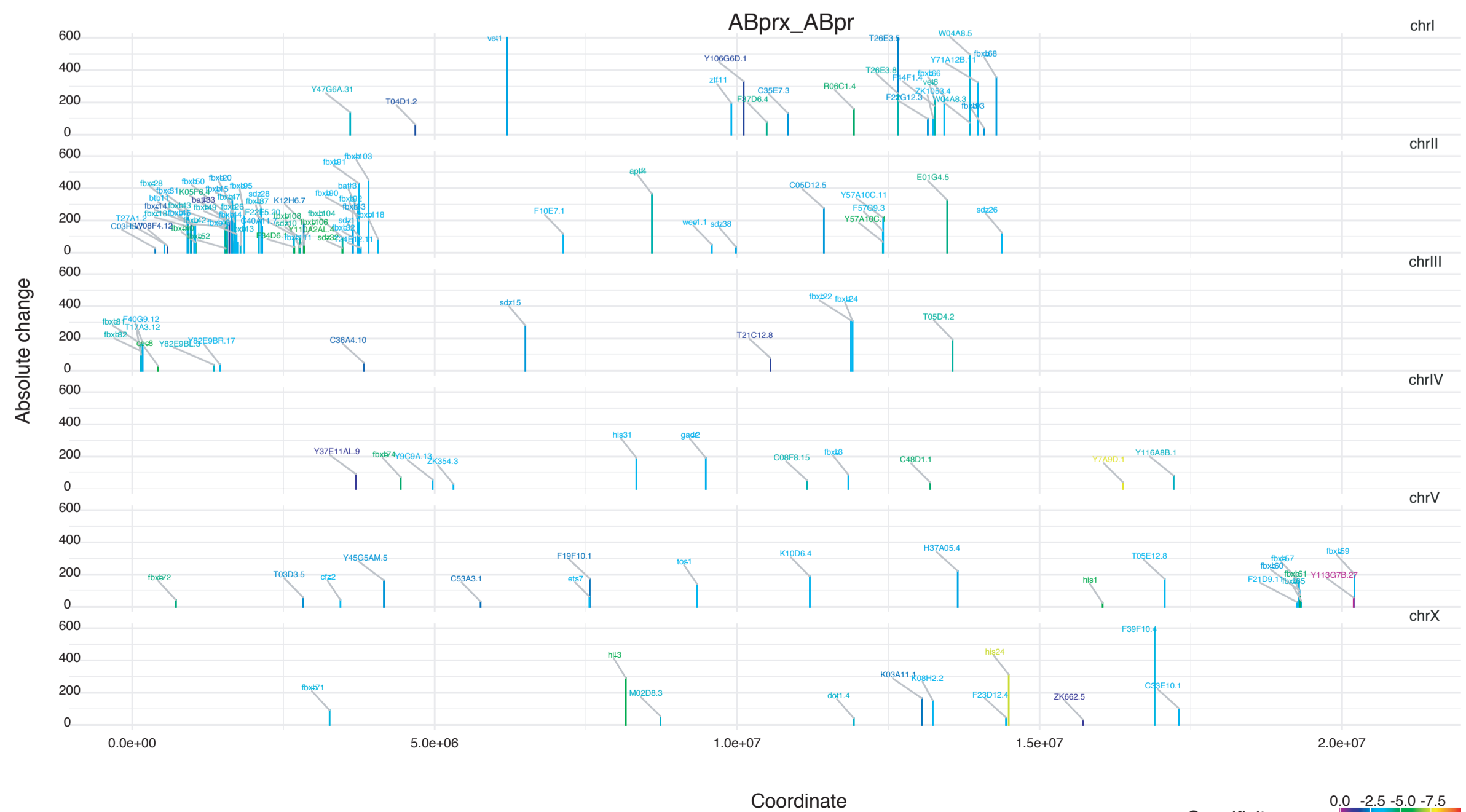


Figure 4 - supplement

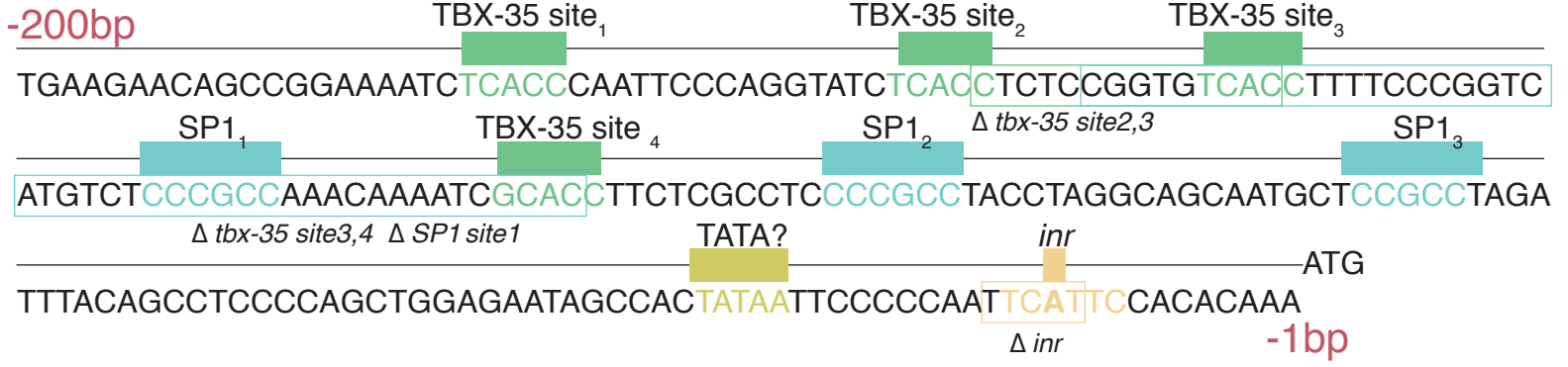
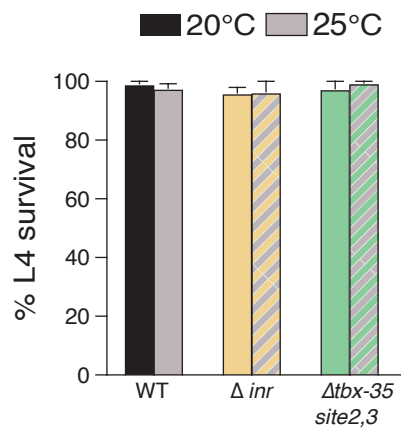
A**B**

Figure 6 - supplement

Supplemental figure legends

Figure. 1 supplement: Use of absolute change and fold change to categorize accumulation rates of genes

A. Heatmap of all absolute change (AC) and fold change (FC) as related to the number of genes at each combination of AC and FC in germline (P cells). **B.** Correlation between AC and FC across different rate categories. **C.** Histogram distribution of positive AC (>1) in different founder lineages. **D.** Number of genes in each rate category at each embryonic cell stage (related to Fig. 1C,D).

Figure. 3 supplement: Wormbase Enrichment Analysis

A. Gene enrichment analysis including biological process, cellular component and molecular function. Top 10 enrichments in each category shown. **B.** Phenotypes enrichment analysis - top 5 categories shown.

Fig. 4 supplement: Karyogram of clustered genes on all chromosomes for indicated cell types (related to figure 4G)

A. Karyogram showing absolute change of genes over genomic position (coordinate) for genes in E cells with Fold Change > 5 over the parent EMS cell. **B and C.** Same as A but for MSx1 cell compared to MS parent (B) and for ABprx compared to ABpr parent. Specificity score indicates how specific the expression is to the particular cell (purple is specific to that cell, red is broadly expressed in all cells).

Fig. 6 supplement: *ceh-51* promoter region and motif deletion mutant survival

A. Detailed sequence of up to -200bp from the ATG start codon of the *ceh-51* promoter. Motifs indicated in filled colored boxes. Colored boxes around the sequence shows the deleted regions in indicated mutants. **B.** Survival in motif mutants at 20°C and 25°C, n=at least 4 biological replicates.