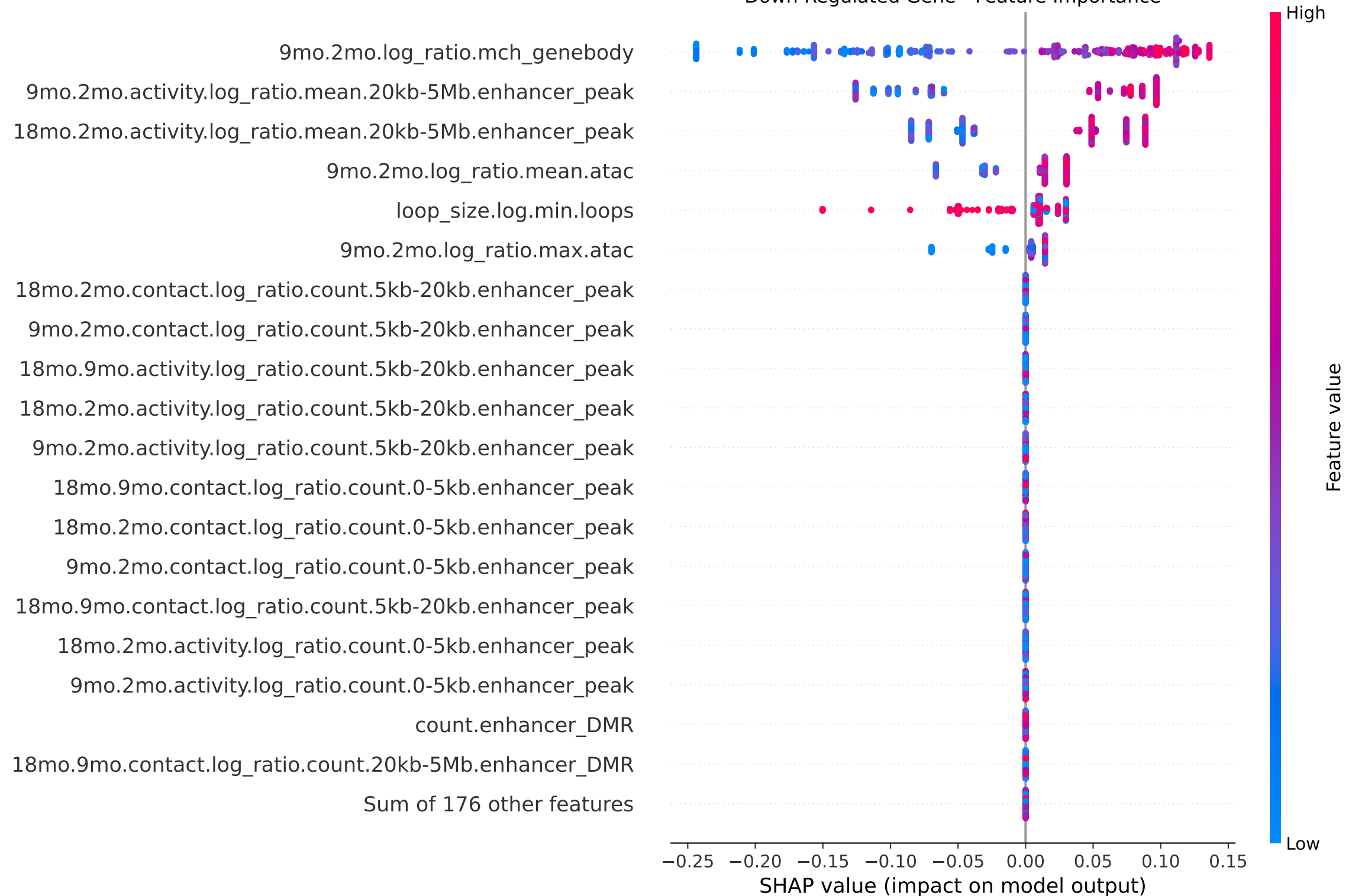


Down Regulated Gene - Feature Importance



Non-Age Regulated Gene - Feature Importance

High

Feature value

Low

gene_length.meta

log2_distance.max.atac

9mo.2mo.log_ratio.mch_genebody

18mo.2mo.log_ratio.min.atac

18mo.9mo.contact.log_ratio.count.5kb-20kb.enhancer_peak

18mo.2mo.contact.log_ratio.count.5kb-20kb.enhancer_peak

9mo.2mo.contact.log_ratio.count.5kb-20kb.enhancer_peak

18mo.9mo.activity.log_ratio.count.5kb-20kb.enhancer_peak

18mo.2mo.activity.log_ratio.count.5kb-20kb.enhancer_peak

9mo.2mo.activity.log_ratio.count.5kb-20kb.enhancer_peak

18mo.9mo.contact.log_ratio.count.0-5kb.enhancer_peak

18mo.2mo.contact.log_ratio.count.0-5kb.enhancer_peak

9mo.2mo.contact.log_ratio.count.0-5kb.enhancer_peak

18mo.9mo.activity.log_ratio.count.0-5kb.enhancer_peak

9mo.2mo.activity.log_ratio.mean.20kb-5Mb.enhancer_peak

9mo.2mo.activity.log_ratio.count.0-5kb.enhancer_peak

count.enhancer_DMR

18mo.9mo.contact.log_ratio.count.20kb-5Mb.enhancer_DMR

18mo.9mo.contact.log_ratio.min.20kb-5Mb.enhancer_DMR

Sum of 176 other features

SHAP value (impact on model output)

Up Regulated Gene - Feature Importance

