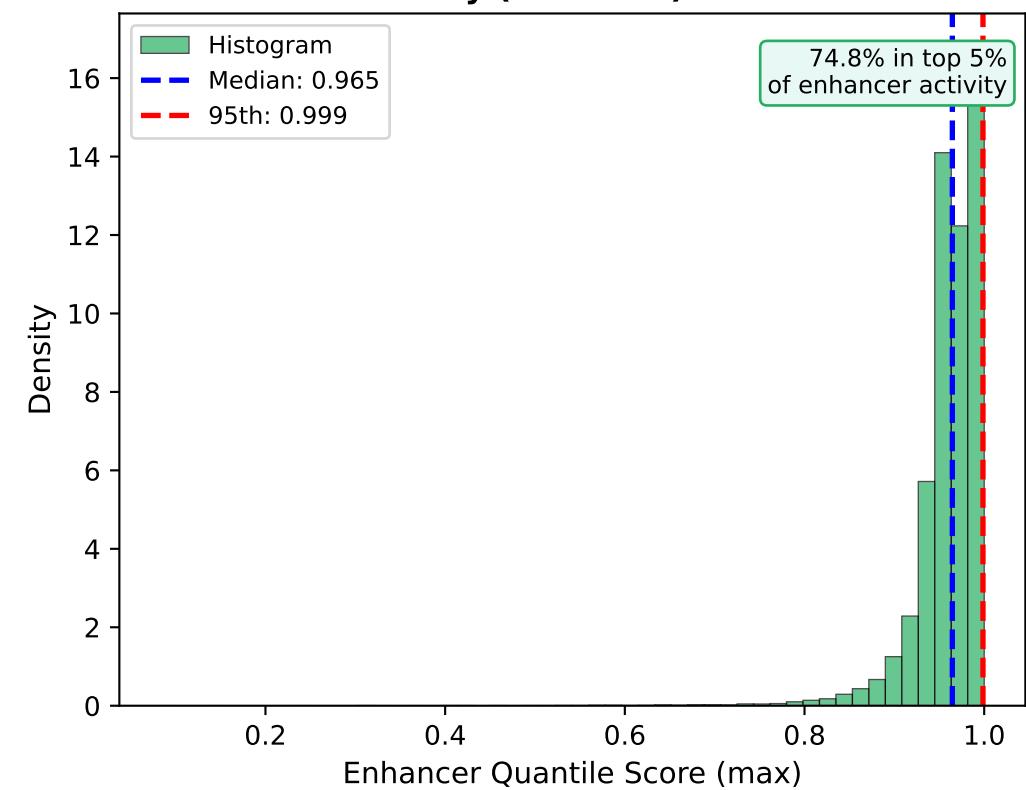
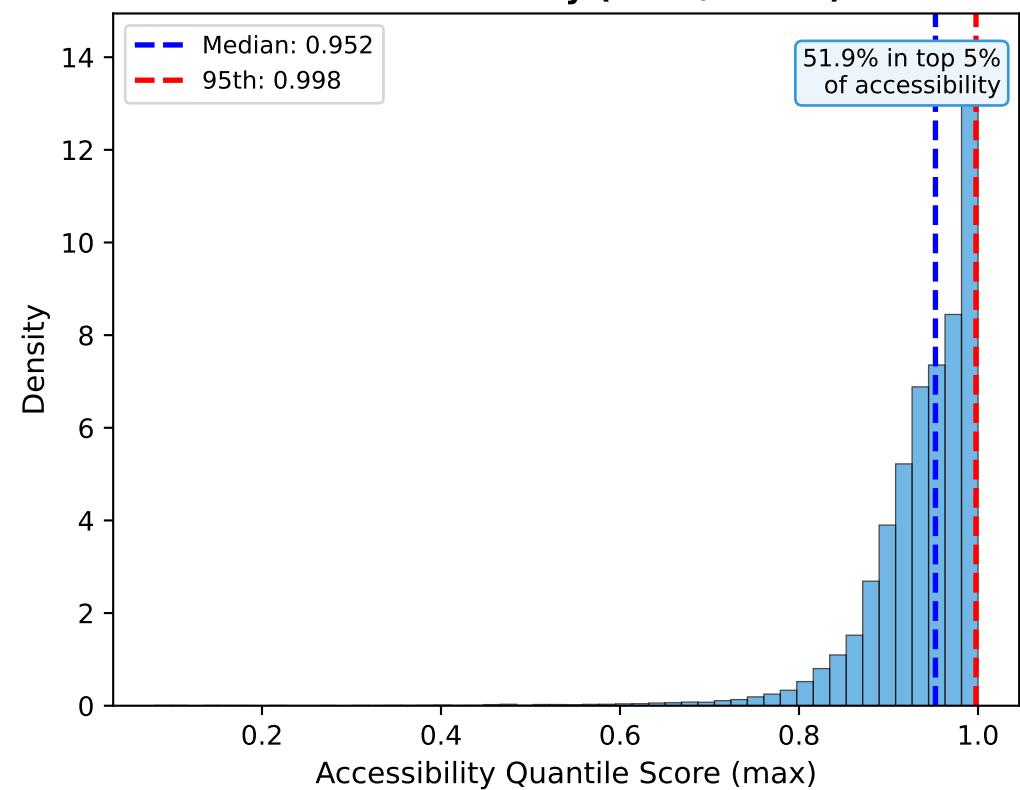


Functional Context of Forbidden Variants

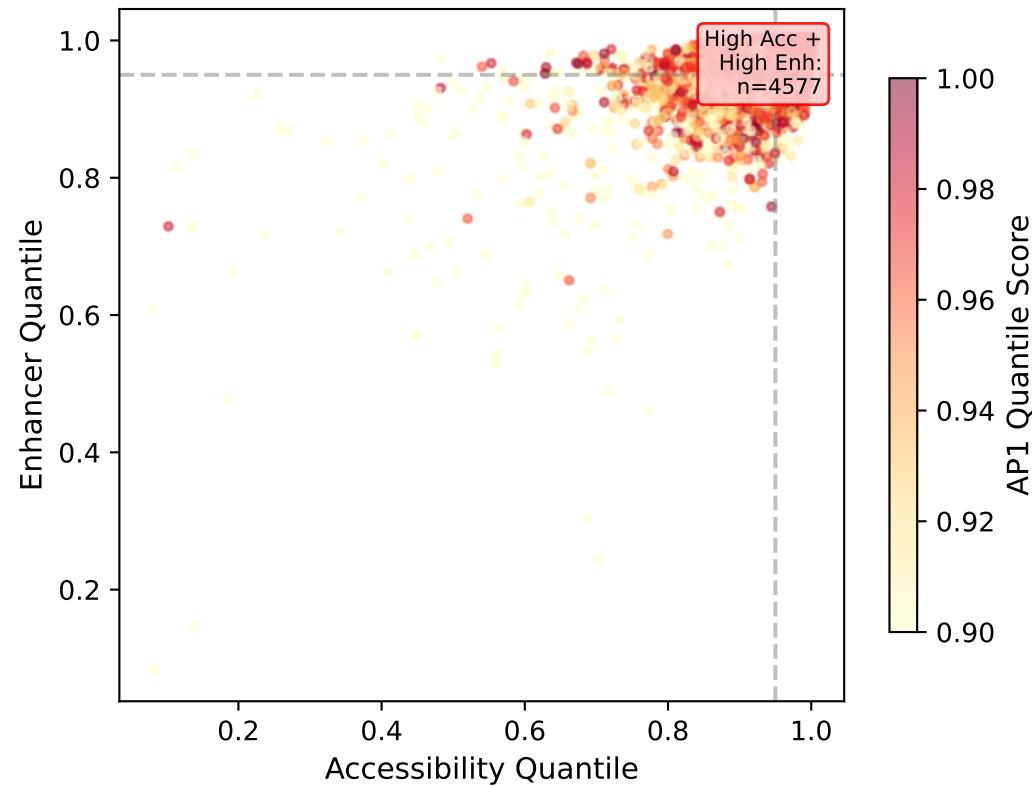
A. Enhancer Activity (H3K27ac)



B. Chromatin Accessibility (ATAC/DNase)



C. Multi-Feature Landscape



D. Top 10 Multi-Track High-Priority Candidates

Variant	AP1 Q	Enh Q	Acc Q	Best TF
chr19:43596274...	1.0000	0.9998	1.0000	NRF1
chr8:13746013...	1.0000	0.9669	0.9724	MAFK
chr2:43293974...	1.0000	1.0000	0.9999	FOSL2
chrX:10140798...	1.0000	0.9997	1.0000	CREB1
chr17:19378019...	0.9992	0.9997	1.0000	NRF1
chr3:5197917...	1.0000	1.0000	0.9994	ATF4
chr6:7975381...	1.0000	0.9992	1.0000	FOSL2
chr8:66113495...	0.9998	0.9999	1.0000	NRF1
chr13:11378679...	0.9994	0.9728	0.9611	CREB1
chr2:23744105...	1.0000	0.9979	0.9977	BATF

Criteria: AP1 > 99th, Enhancer > 95th, Accessibility > 95th percentile