

Feature #	Feature	Description	Feature type	Related to	Additional Info
1	tissue_specificity	coefficient of variation of eGene's expression profile across EN-TE _x samples (indivs. and tissues)	continuous	donor tissue	ratio between standard deviation and mean of gene expression profile
2	slope	GTEx v8 eQTL-eGene regression slope	continuous	donor tissue	-
3	tss_distance	GTEx v8 distance from eGene's TSS	continuous	donor tissue	-
4	ATAC	presence/absence of ATAC peak overlapping the SNV	binary	target tissue	set to 1 if peak present in ≥ 1 indiv.
5	CTCF	presence/absence of CTCF peak overlapping the SNV	binary	target tissue	set to 1 if peak present in ≥ 1 indiv.
6	DNase	presence/absence of DNase peak overlapping the SNV	binary	target tissue	set to 1 if peak present in ≥ 1 indiv.
7	H3K27ac	presence/absence of H3K27ac peak overlapping the SNV	binary	target tissue	set to 1 if peak present in ≥ 1 indiv.
8	H3K27me3	presence/absence of H3K27me3 peak overlapping the SNV	binary	target tissue	set to 1 if peak present in ≥ 1 indiv.
9	H3K36me3	presence/absence of H3K36me3 peak overlapping the SNV	binary	target tissue	set to 1 if peak present in ≥ 1 indiv.
10	H3K4me1	presence/absence of H3K4me1 peak overlapping the SNV	binary	target tissue	set to 1 if peak present in ≥ 1 indiv.
11	H3K4me3	presence/absence of H3K4me3 peak overlapping the SNV	binary	target tissue	set to 1 if peak present in ≥ 1 indiv.
12	H3K9me3	presence/absence of H3K9me3 peak overlapping the SNV	binary	target tissue	set to 1 if peak present in ≥ 1 indiv.
13	POLR2A	presence/absence of POLR2A peak overlapping the SNV	binary	target tissue	set to 1 if peak present in ≥ 1 indiv.
14	POLR2A phospho5	presence/absence of POLR2Aphospho5 peak overlapping the SNV	binary	target tissue	set to 1 if peak present in ≥ 1 indiv.
15	EP300	presence/absence of EP300 peak overlapping the SNV	binary	target tissue	set to 1 if peak present in ≥ 1 indiv.
16	sum	sum of features 4-15	discrete	target tissue	-
17	ATAC_k	fold-change ATAC signal (± 5 bp window around the SNV)	continuous	target tissue	mean value across indivs.
18	CTCF_k	fold-change CTCF signal (± 5 bp window around the SNV)	continuous	target tissue	mean value across indivs.
19	DNase_k	fold-change DNase signal (± 5 bp window around the SNV)	continuous	target tissue	mean value across indivs.
20	H3K27ac_k	fold-change H3K27ac signal (± 5 bp window around the SNV)	continuous	target tissue	mean value across indivs.
21	H3K27me3_k	fold-change H3K27me3 signal (± 5 bp window around the SNV)	continuous	target tissue	mean value across indivs.
22	H3K4me1_k	fold-change H3K4me1 signal (± 5 bp window around the SNV)	continuous	target tissue	mean value across indivs.

Feature #	Feature	Description	Feature type	Related to	Additional Info
23	H3K9me3_k	fold-change H3K9me3 signal (\pm 5 bp window around the SNV)	continuous	target tissue	mean value across indivs.
24	POLR2A_k	fold-change POLR2A signal (\pm 5 bp window around the SNV)	continuous	target tissue	mean value across indivs.
25	ATAC_p	fraction of tissues with ATAC peak over SNV	continuous	28 EN-TE _x tissues	-
26	CTCF_p	fraction of tissues with CTCF peak over SNV	continuous	28 EN-TE _x tissues	-
27	DNase_p	fraction of tissues with DNase peak over SNV	continuous	28 EN-TE _x tissues	-
28	H3K27ac_p	fraction of tissues with H3K27ac peak over SNV	continuous	28 EN-TE _x tissues	-
29	H3K27me3_p	fraction of tissues with H3K27me3 peak over SNV	continuous	28 EN-TE _x tissues	-
30	H3K36me3_p	fraction of tissues with H3K36me3 peak over SNV	continuous	28 EN-TE _x tissues	-
31	H3K4me1_p	fraction of tissues with H3K4me1 peak over SNV	continuous	28 EN-TE _x tissues	-
32	H3K4me3_p	fraction of tissues with H3K4me3 peak over SNV	continuous	28 EN-TE _x tissues	-
33	H3K9me3_p	fraction of tissues with H3K9me3 peak over SNV	continuous	28 EN-TE _x tissues	-
34	POLR2A_p	fraction of tissues with POLR2A peak over SNV	continuous	28 EN-TE _x tissues	-
35	POLR2A phosphoS5_p	fraction of tissues with POLR2AphosphoS5 peak over SNV	continuous	28 EN-TE _x tissues	-
36	EP300_p	fraction of tissues with EP300 peak over SNV	continuous	28 EN-TE _x tissues	-
37	is_proximal	whether the SNV overlaps any annotated TSS (\pm 2 kb)	binary	-	set to 1 if SNV overlaps TSS wrt gencode v 24
38	is_cCRE	whether the SNV overlaps any cCRE	binary	-	set to 1 if SNV overlaps cCRE wrt ENCODE3
39	is_out_repeat	whether the SNV overlaps any repeated region	binary	-	set to 1 if SNV does not overlap repeated region