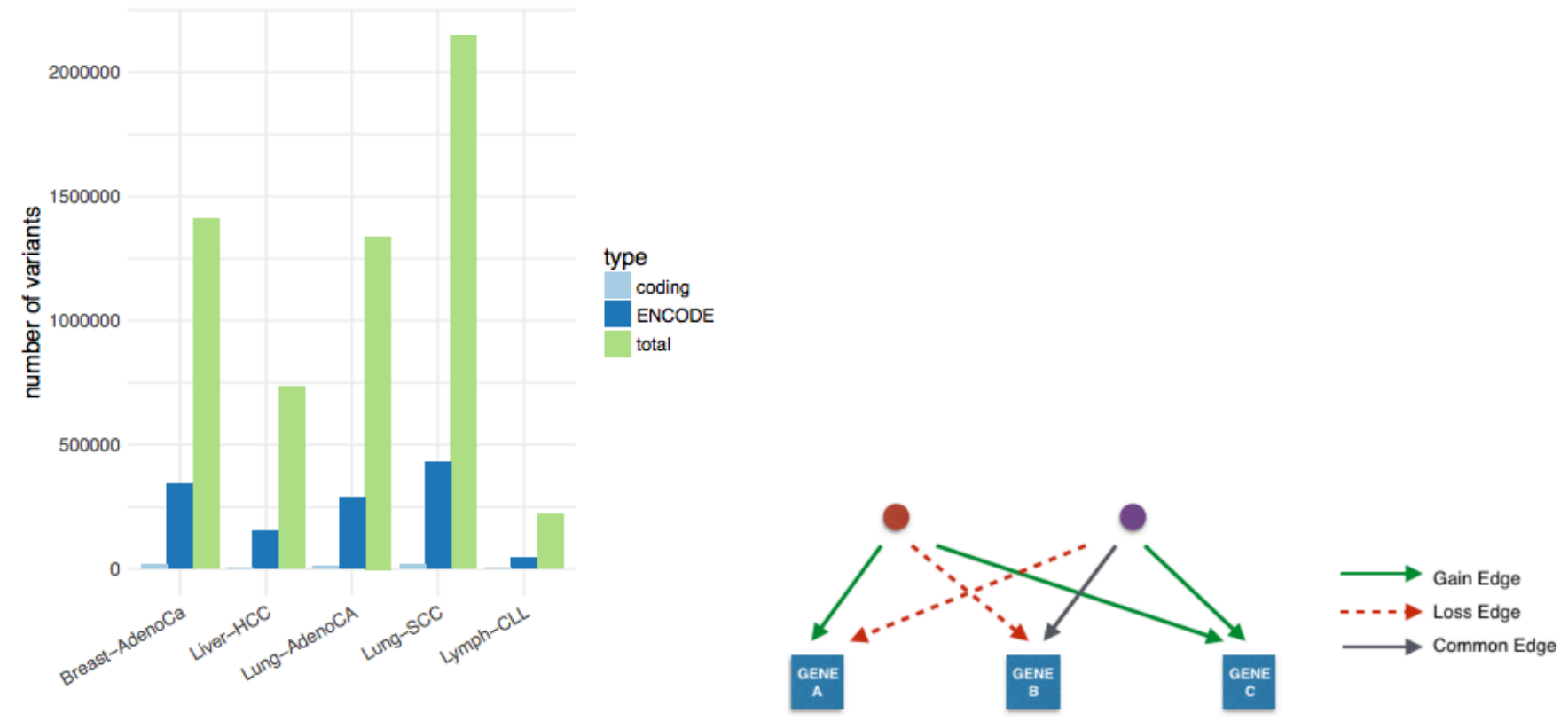


Data Matrix

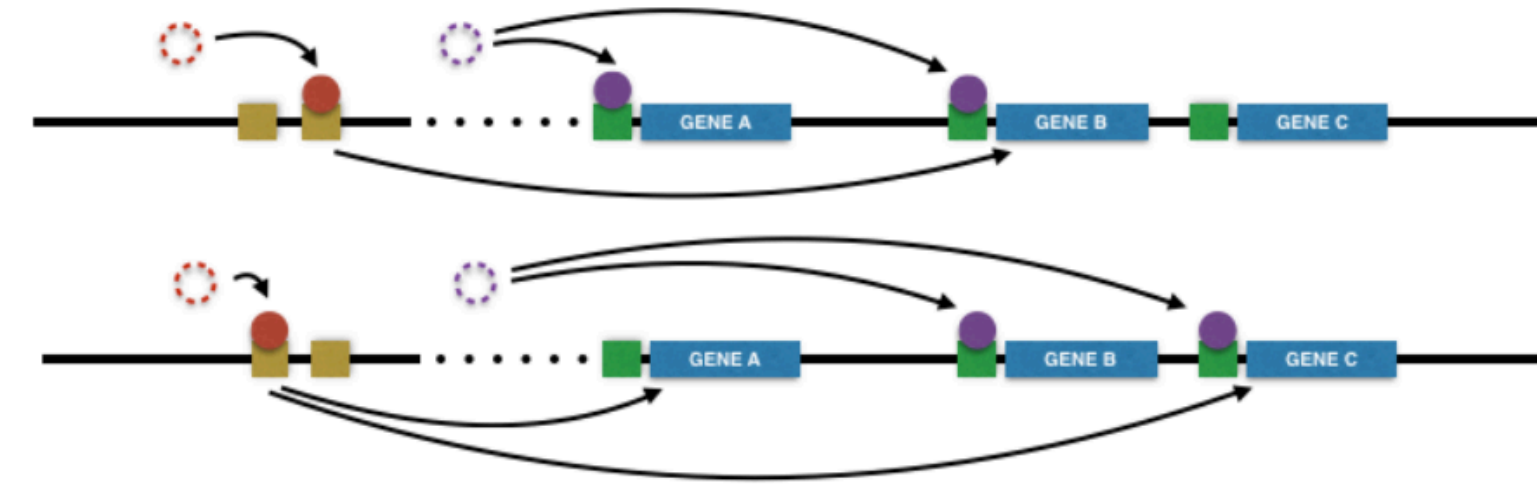
A

		K562	GM12878	HepG2	Liver	A549	IMR-90	MCF-7	MCF-10A	HeLa-S3
Cis-regulatory Elements	DNase-seq	1	1	1	0	1	1	0	0	1
	EnhancerSeq	1	1	0	0	0	0	0	0	0
DNA-binding Proteins (ChIP-seq)	TF	209	101	97	7	32	9	52	4	60
	TFSS	64	50	48	5	21	6	15	3	29
	Chromatin	17	6	7	0	3	1	3	1	4
	Histone	12	11	11	7	11	28	5	0	11
Methylation	WGBS	1	1	1	1	0	1	0	0	0
	RRBS	1	1	1	1	1	1	1	1	1
Transcription	RNA-seq	1	1	1	1	1	1	1	0	1
	RAMPAGE	1	1	0	0	0	0	0	0	0
Replication Timing	Repli-seq	1	1	1	0	0	0	1	0	1
	Repli-chip	0	0	0	0	0	1	0	0	1
Knockdown	siRNA	29	0	0	0	0	0	2	0	0
	shRNA	219	0	221	0	0	0	0	0	0
3D Chromatin Structure	ChIA-PET	3	1	1	0	0	0	4	0	1
	Hi-C	1	1	0	0	1	0	1	0	0
	SNV	1	1	0	0	0	0	1	0	1
WGS	SV	1	1	0	0	0	0	1	0	1
	Cohort	95	0	327	0	38	0	198	0	2
		<i>T</i>	<i>N</i>	<i>T</i>	<i>N</i>	<i>T</i>	<i>N</i>	<i>T</i>	<i>N</i>	<i>T</i>
		Blood		Liver		Lung		Breast		Cervix

B



D



C

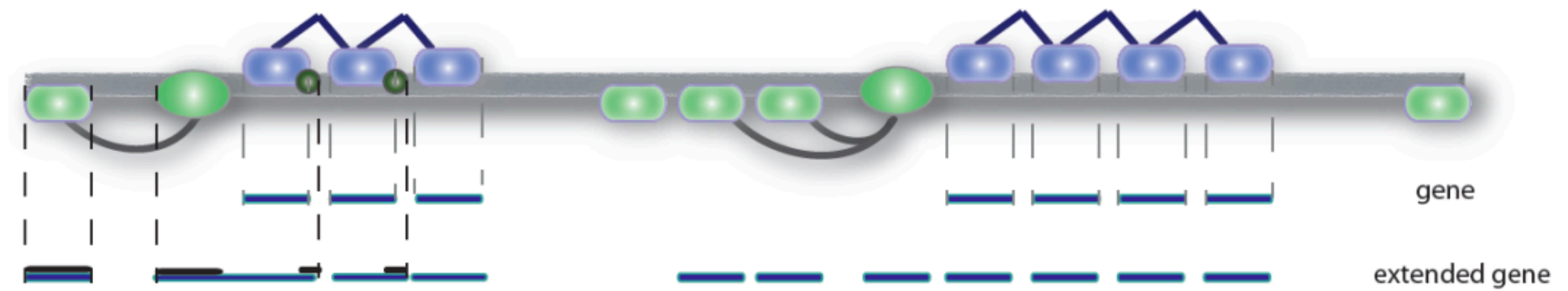


Figure 1

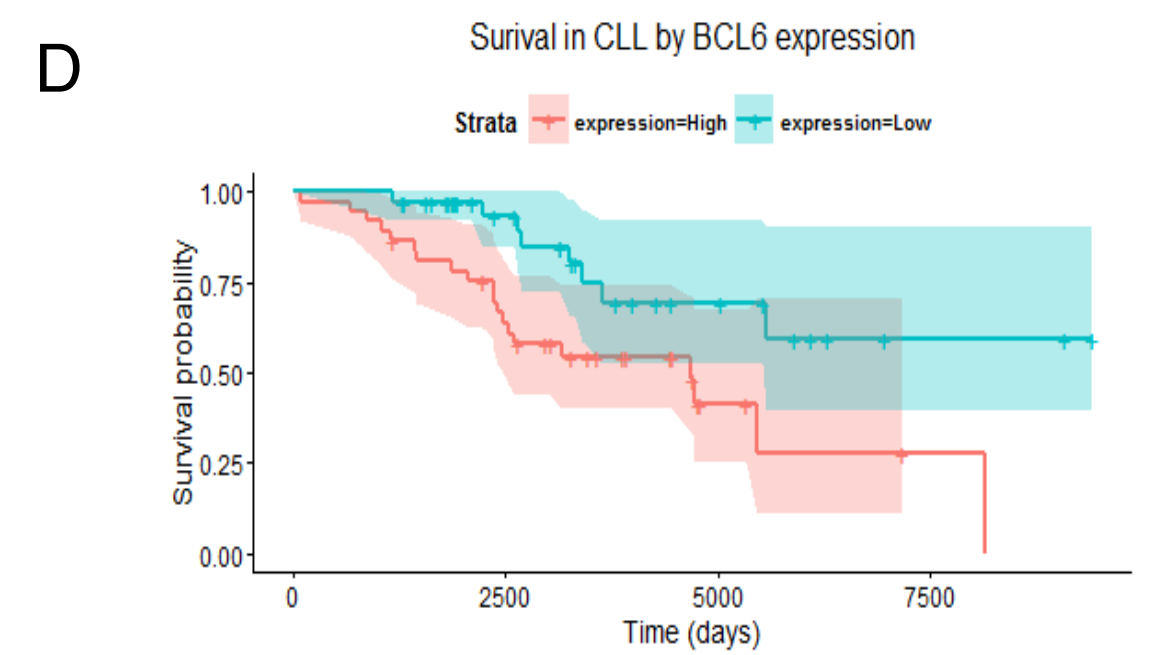
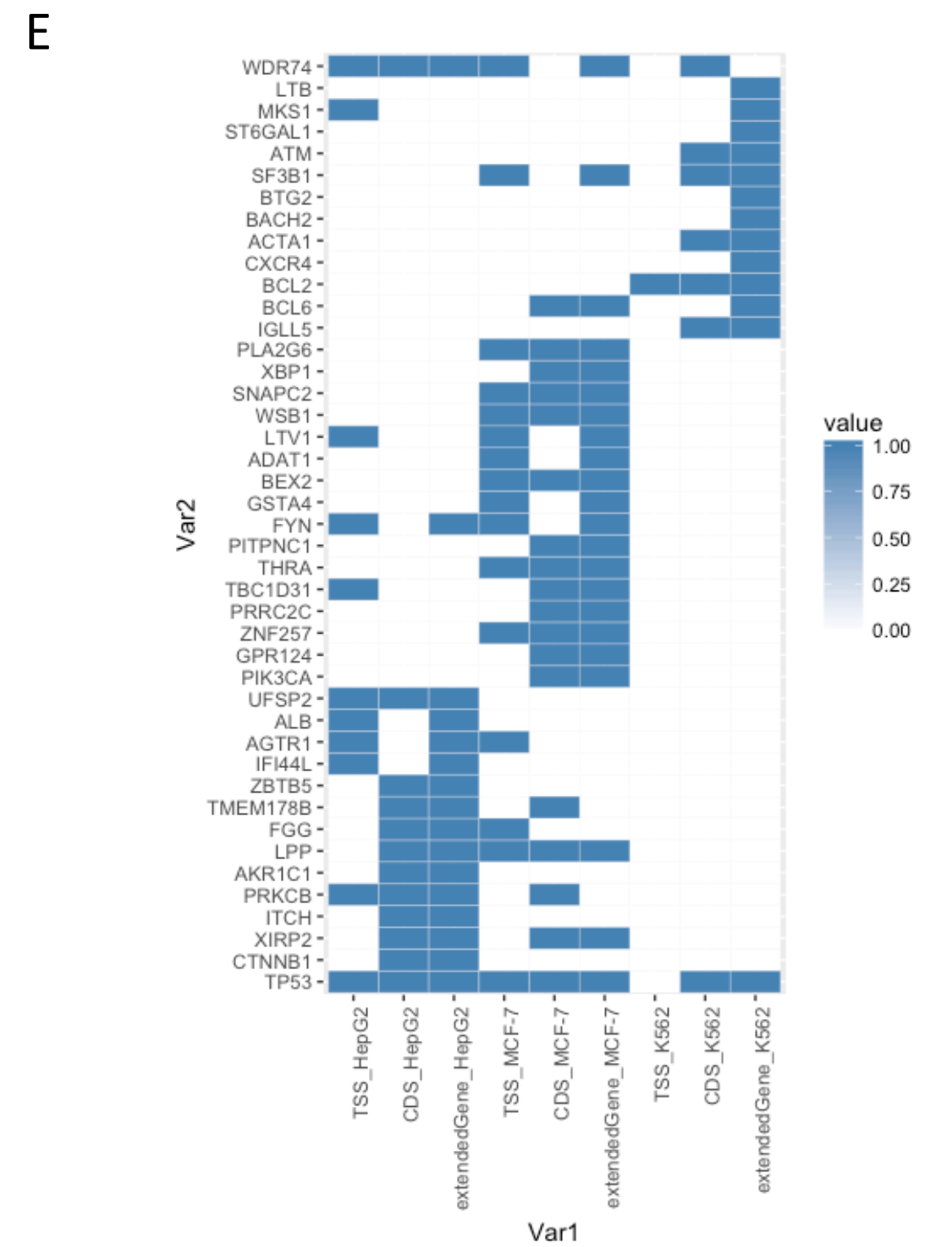
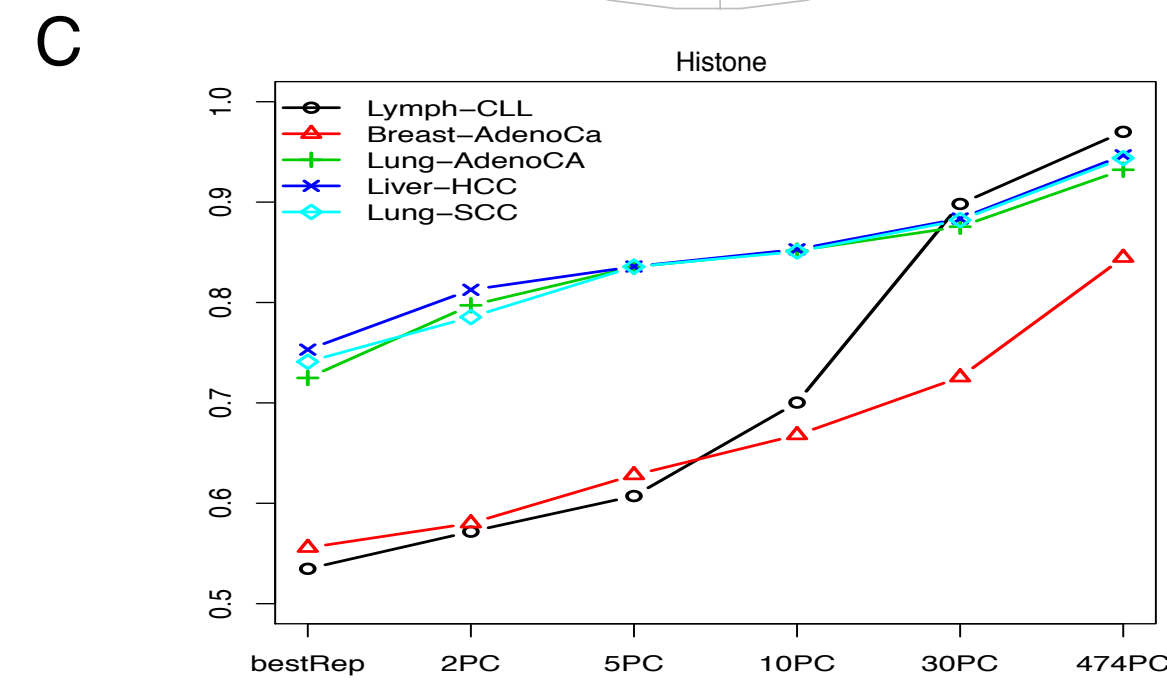
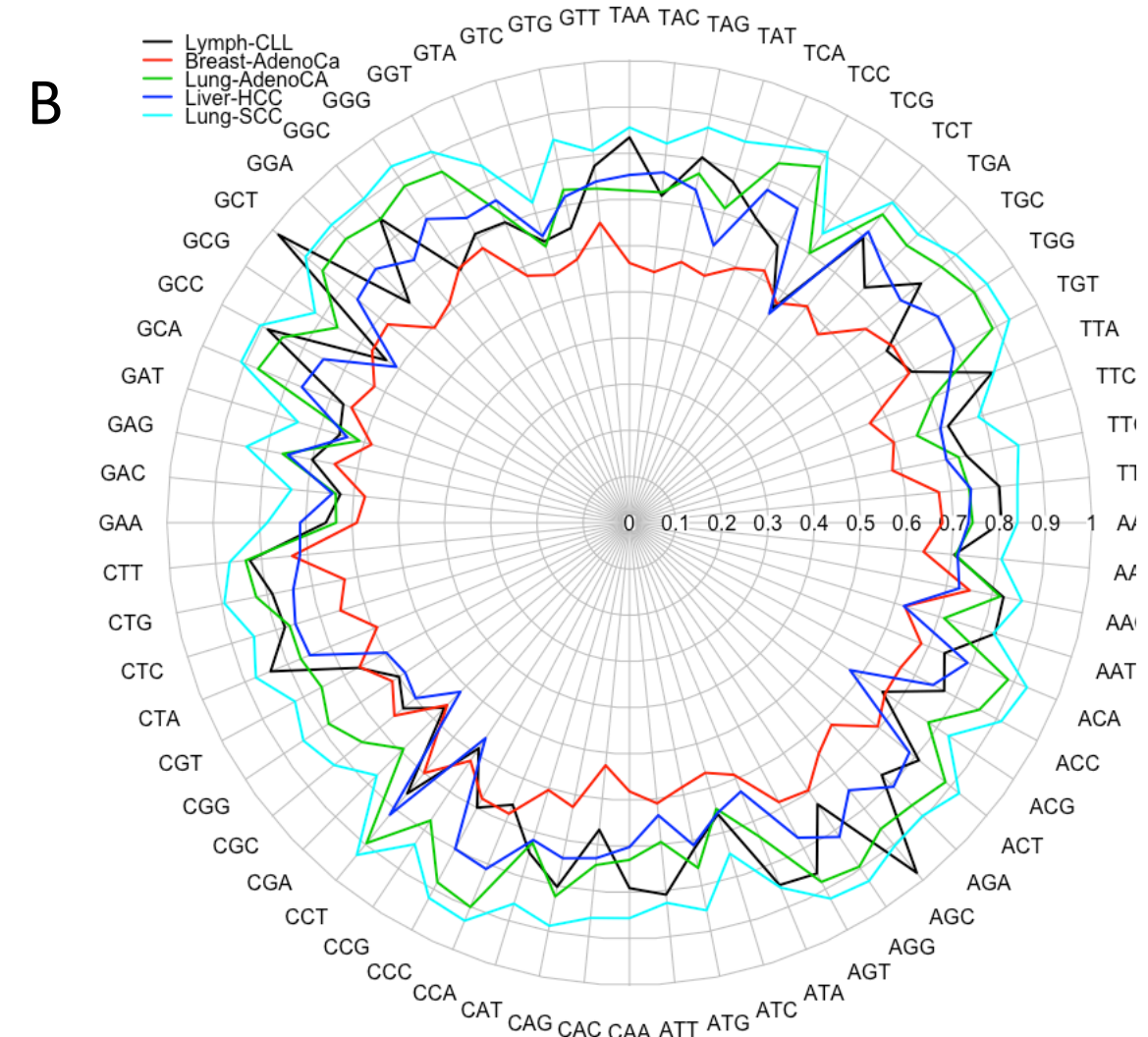
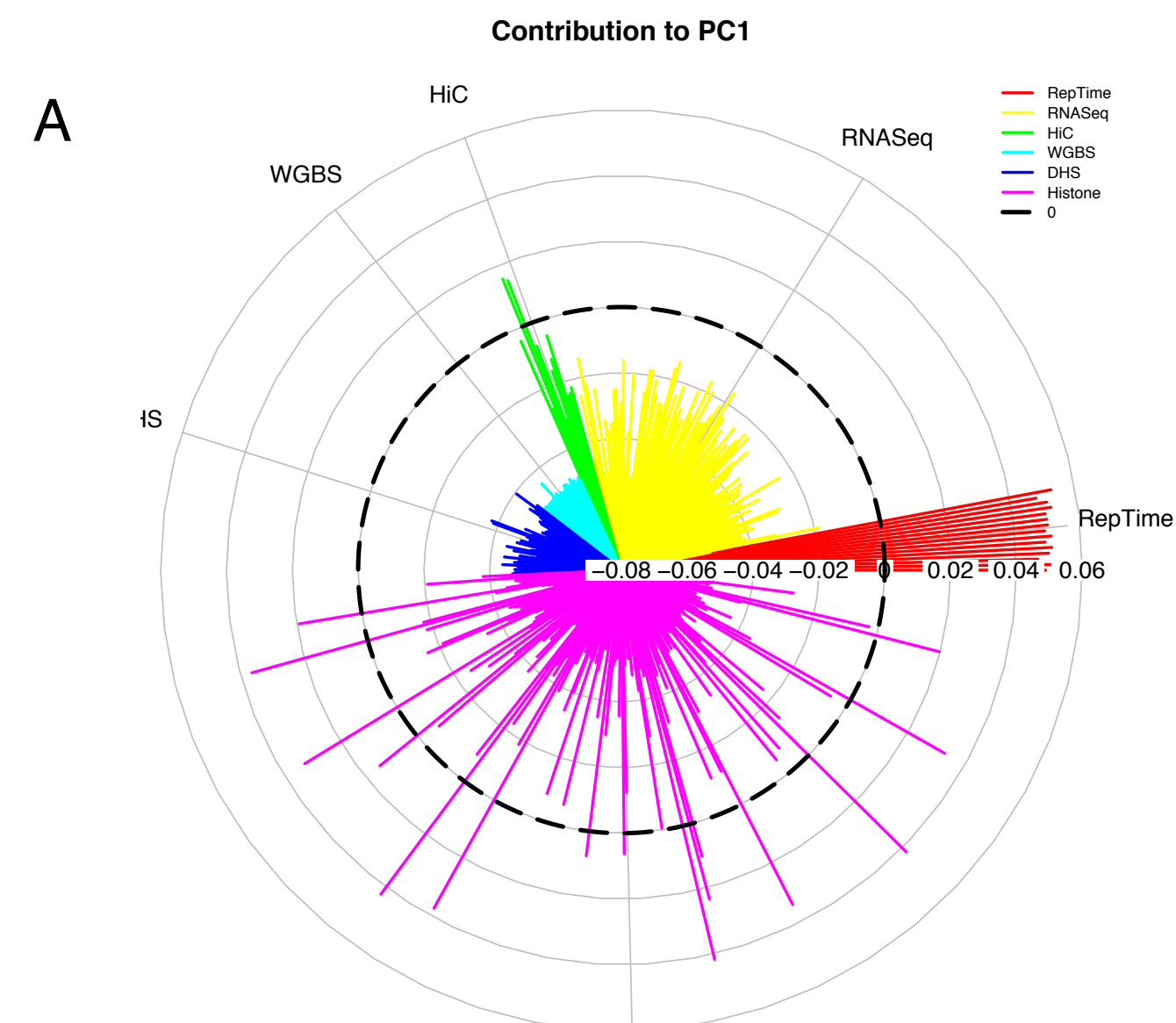


Figure 2

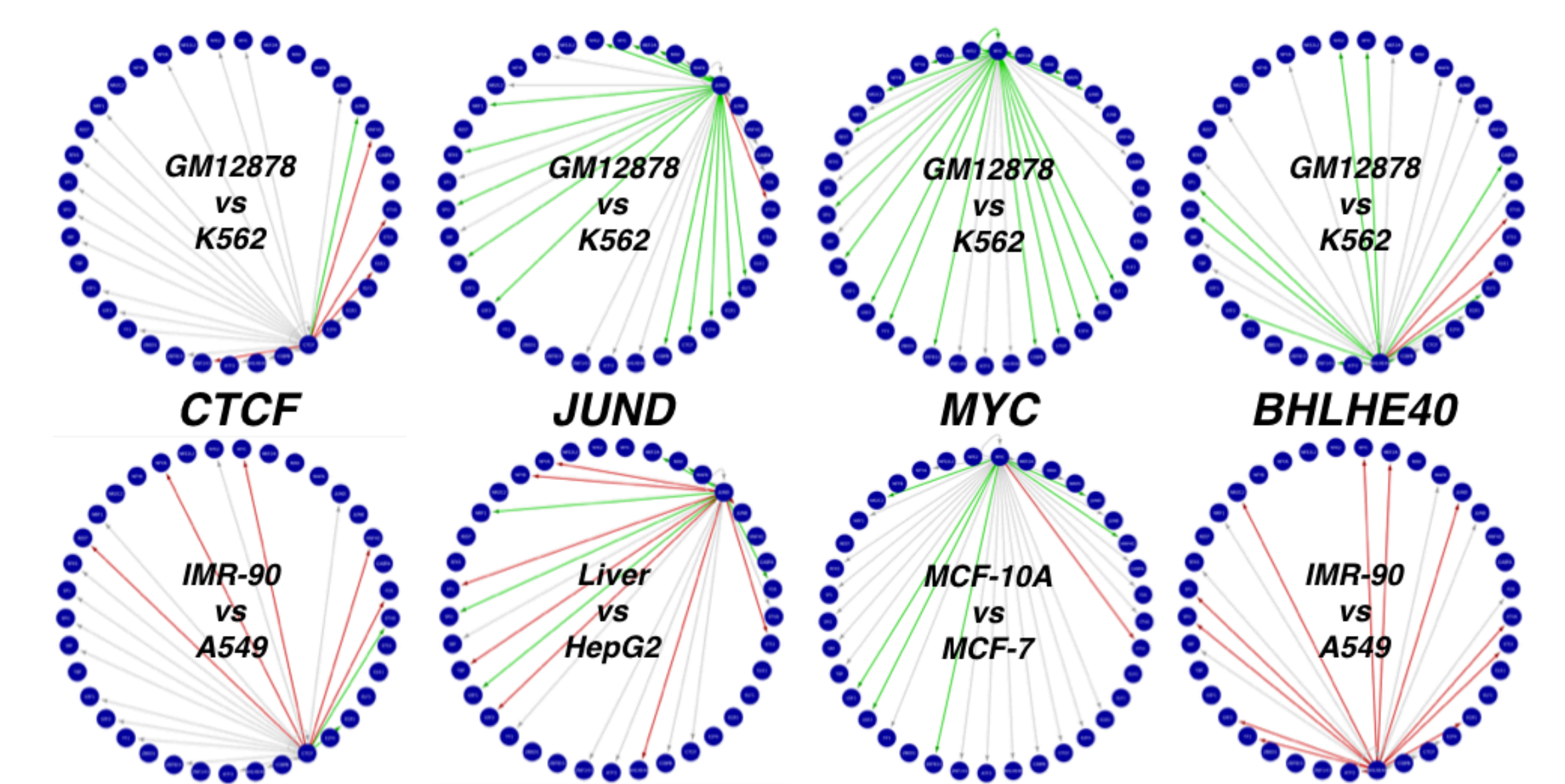
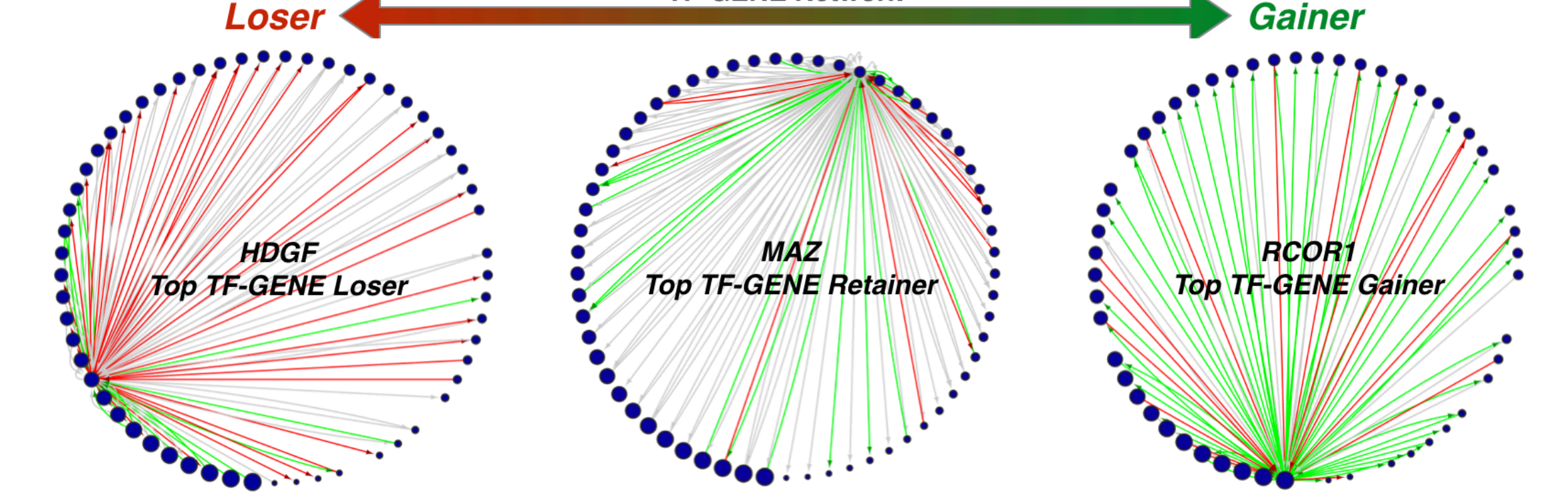
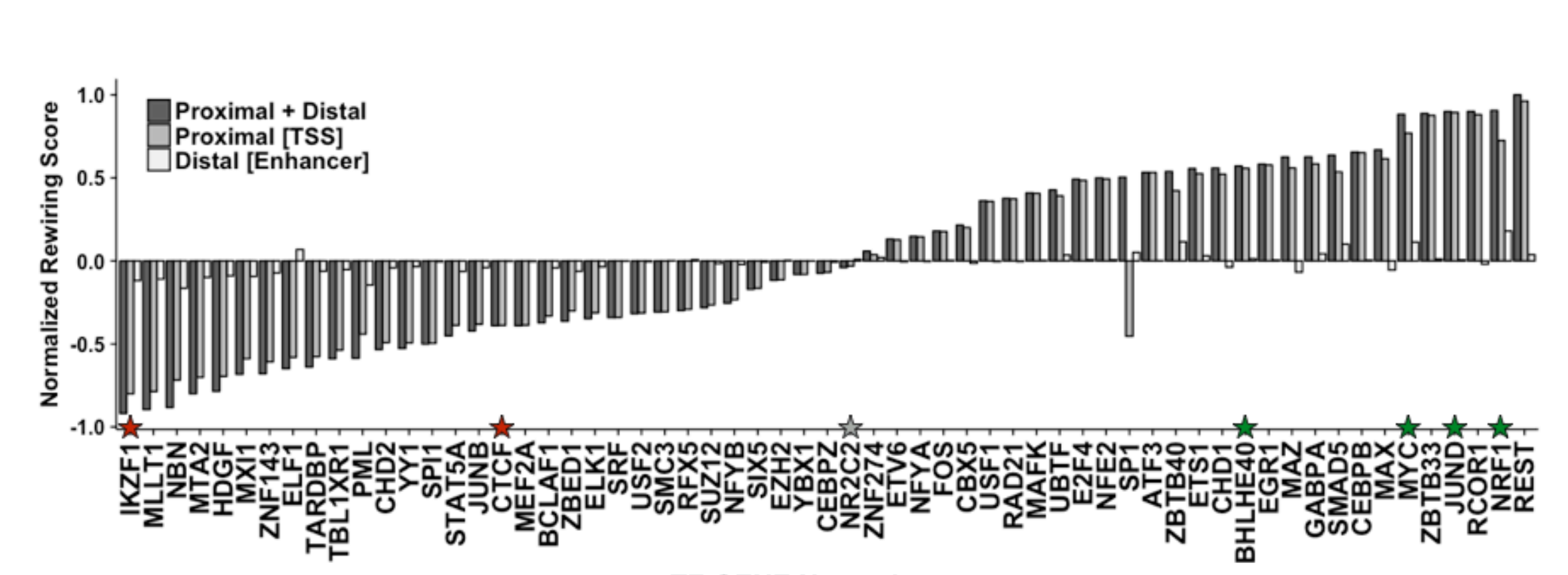
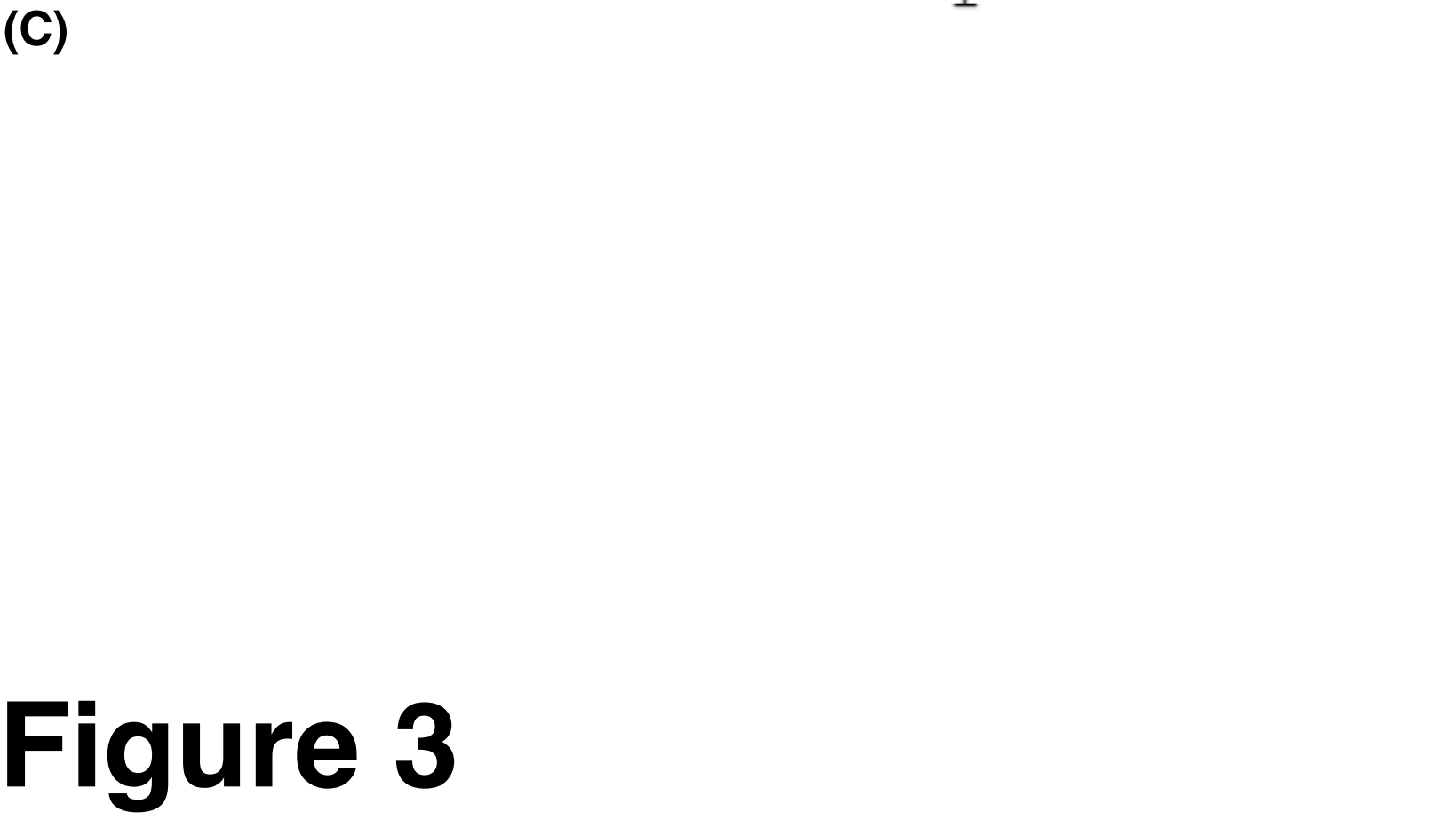
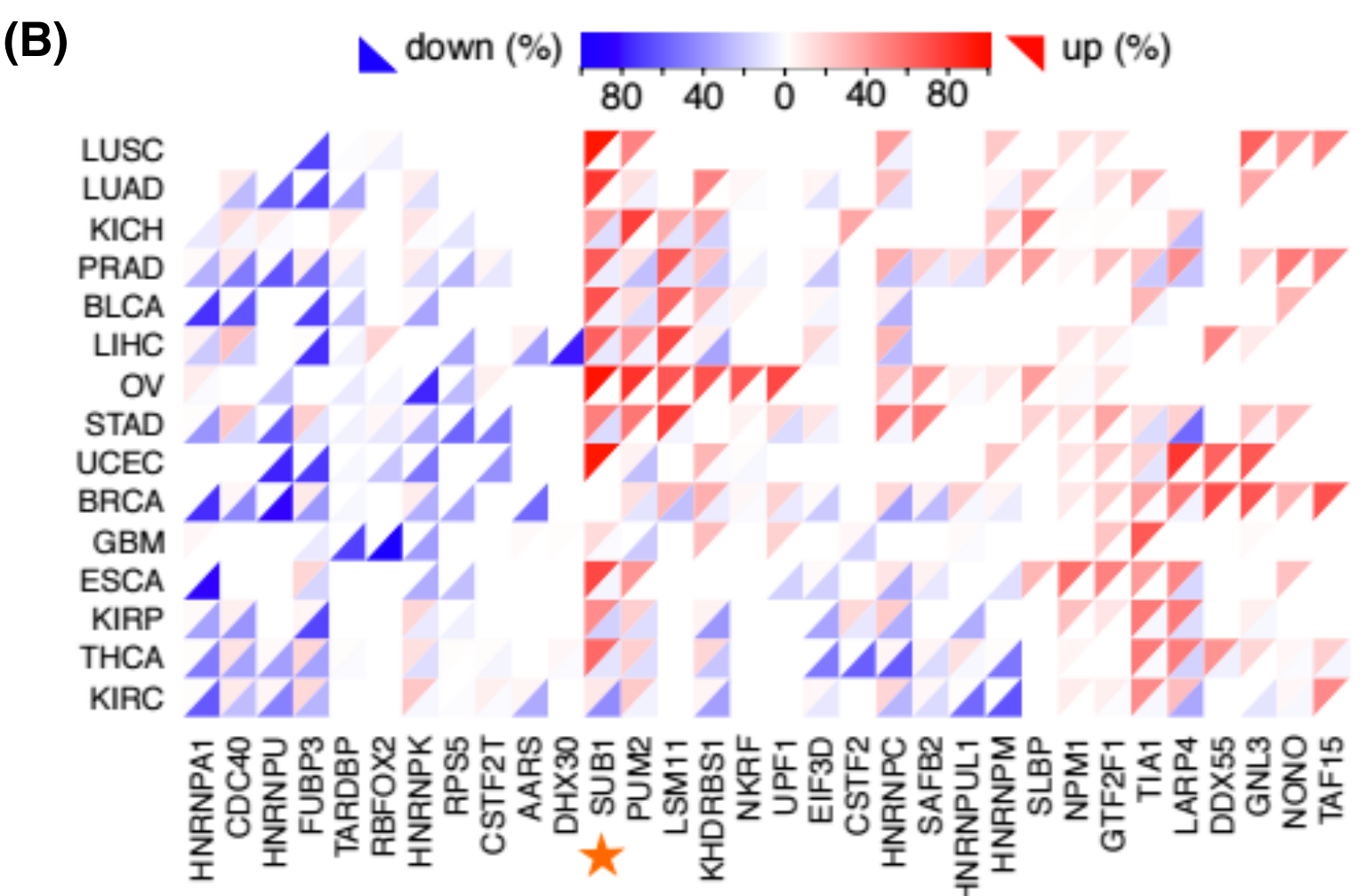
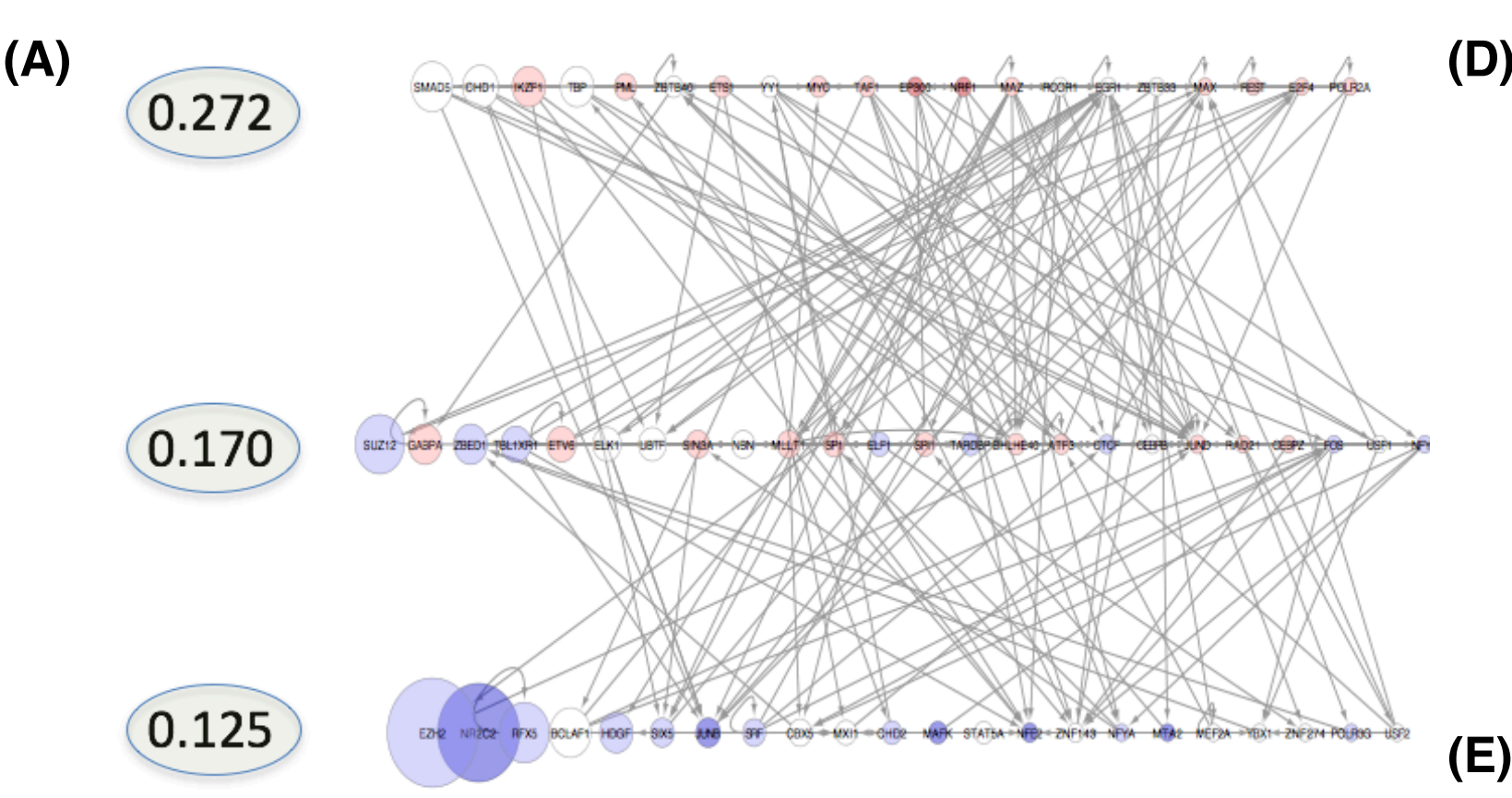


Figure 3

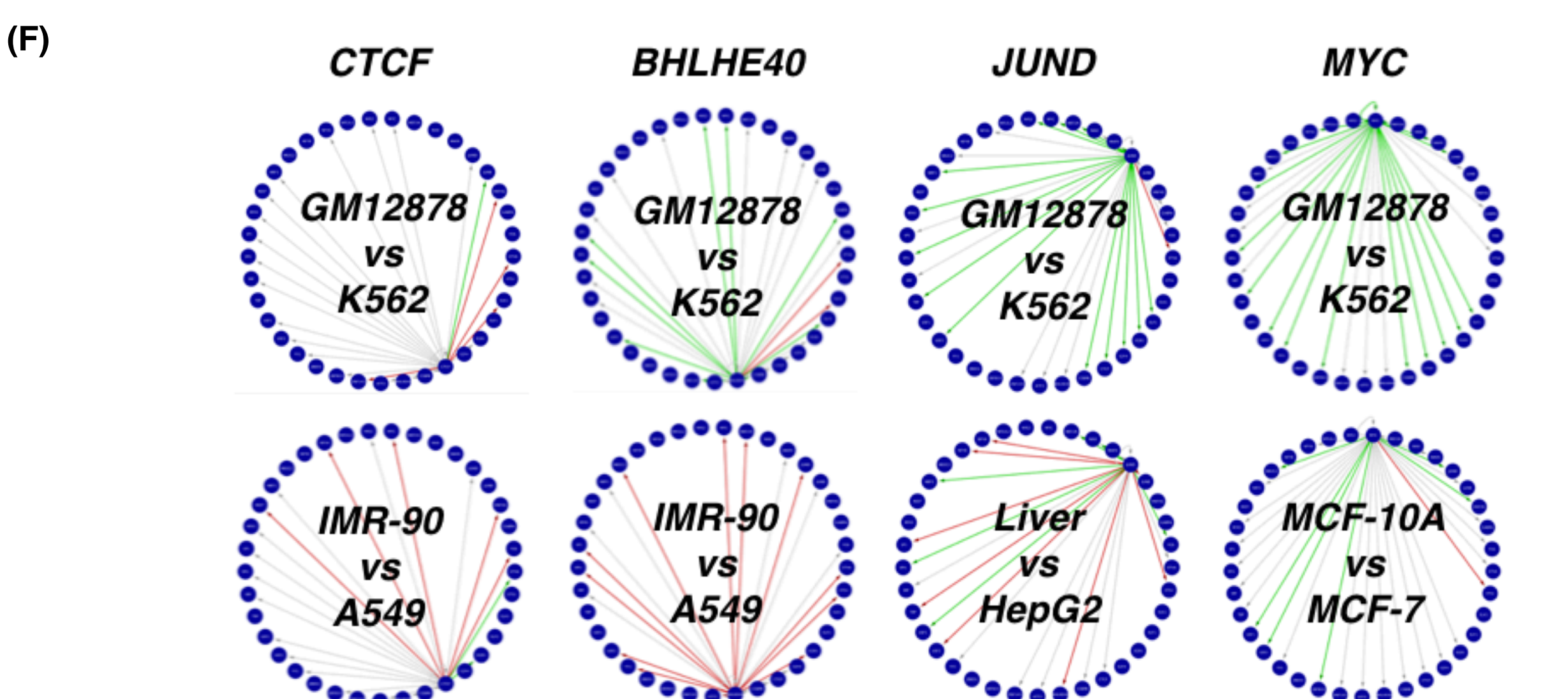
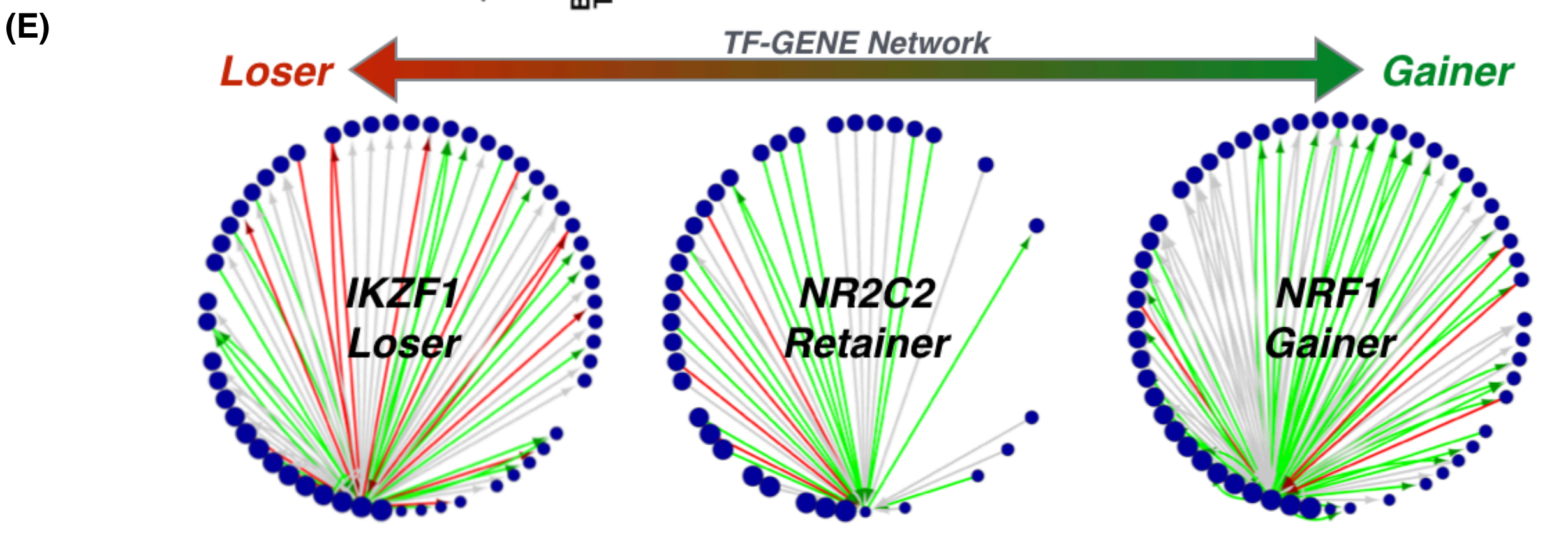
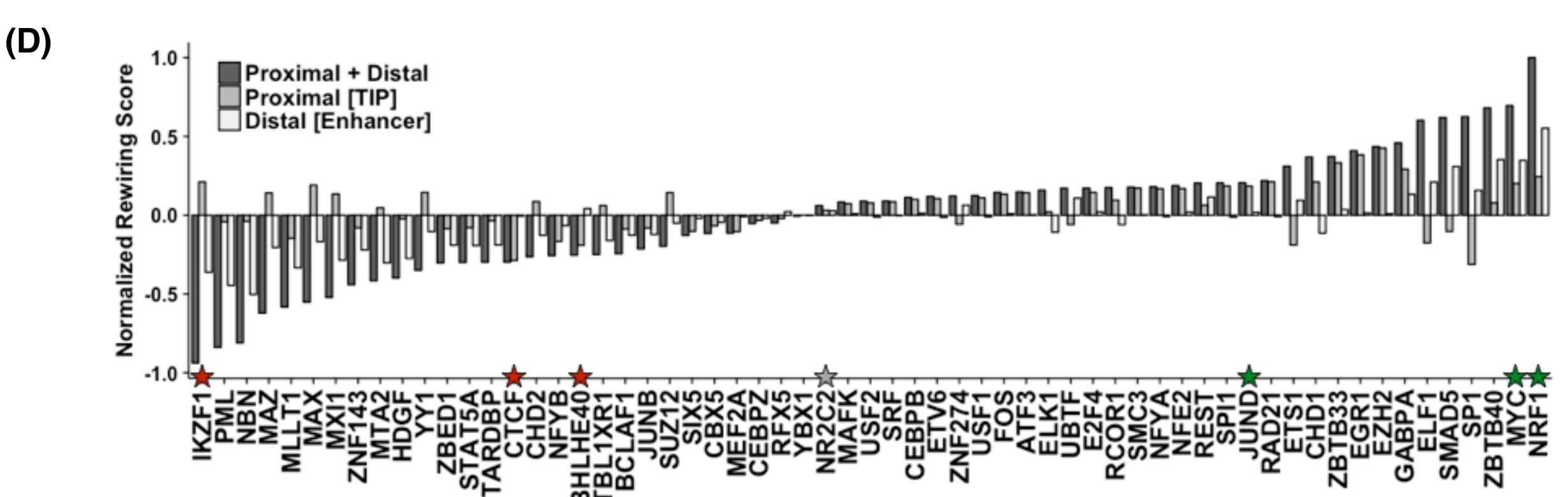
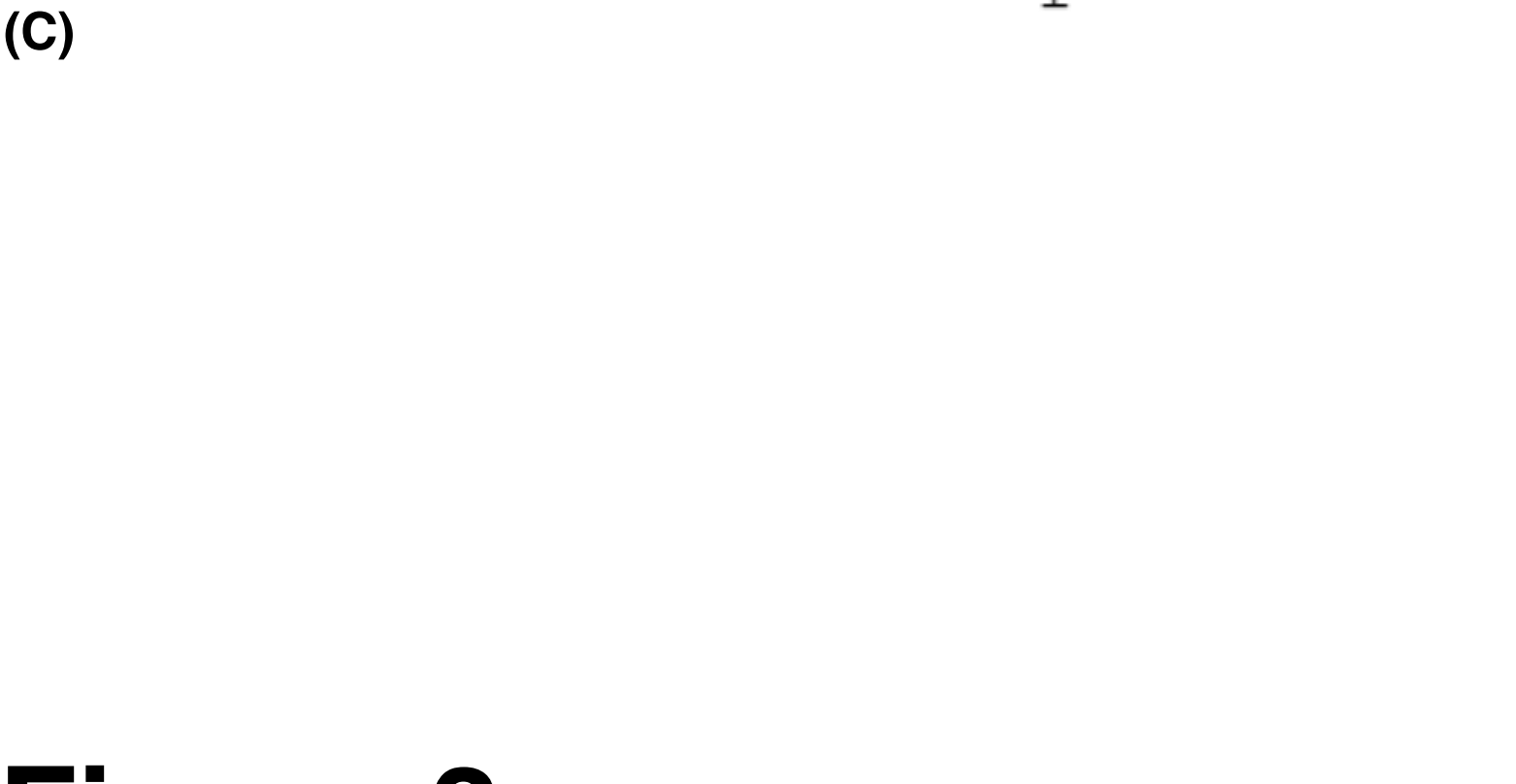
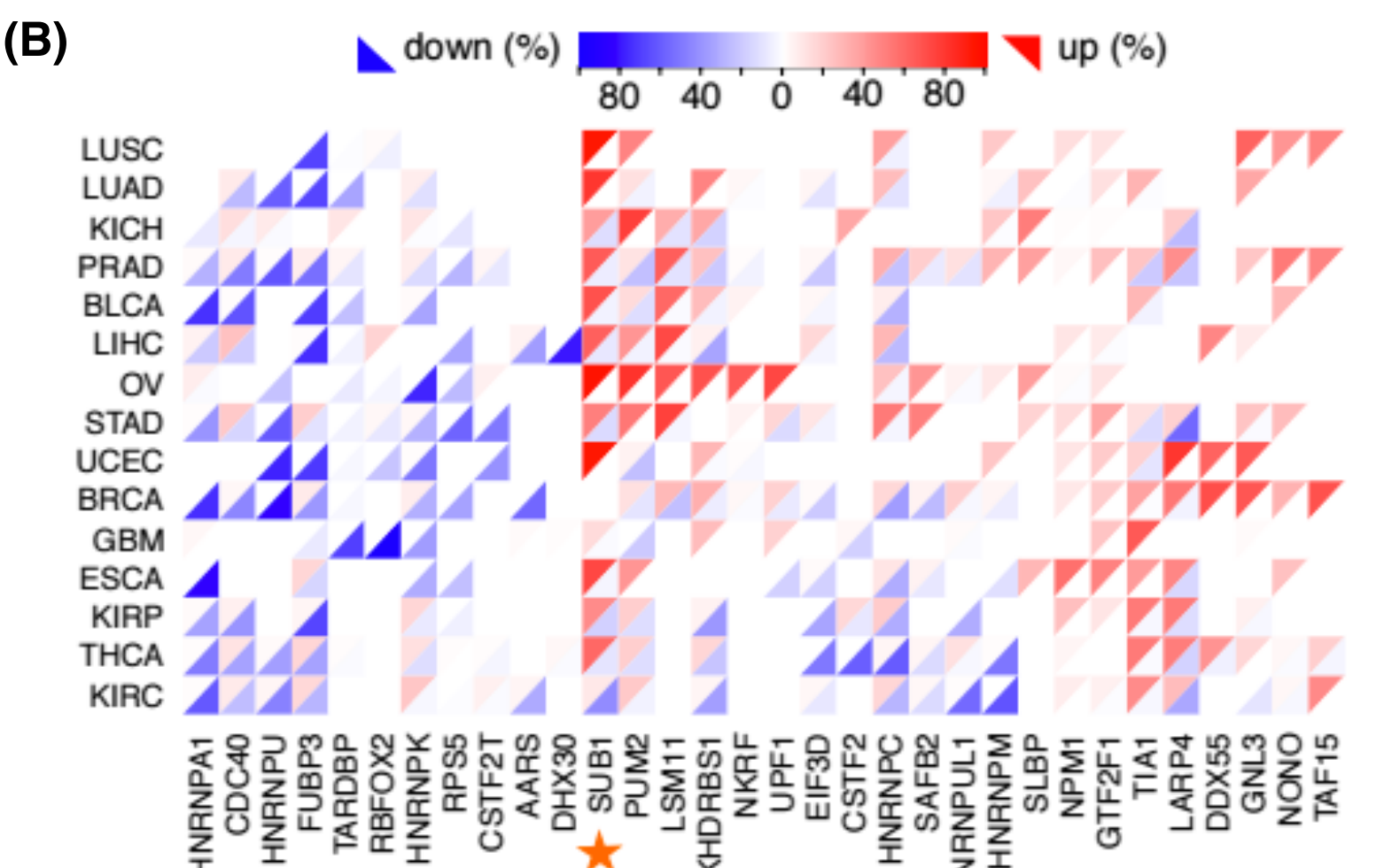
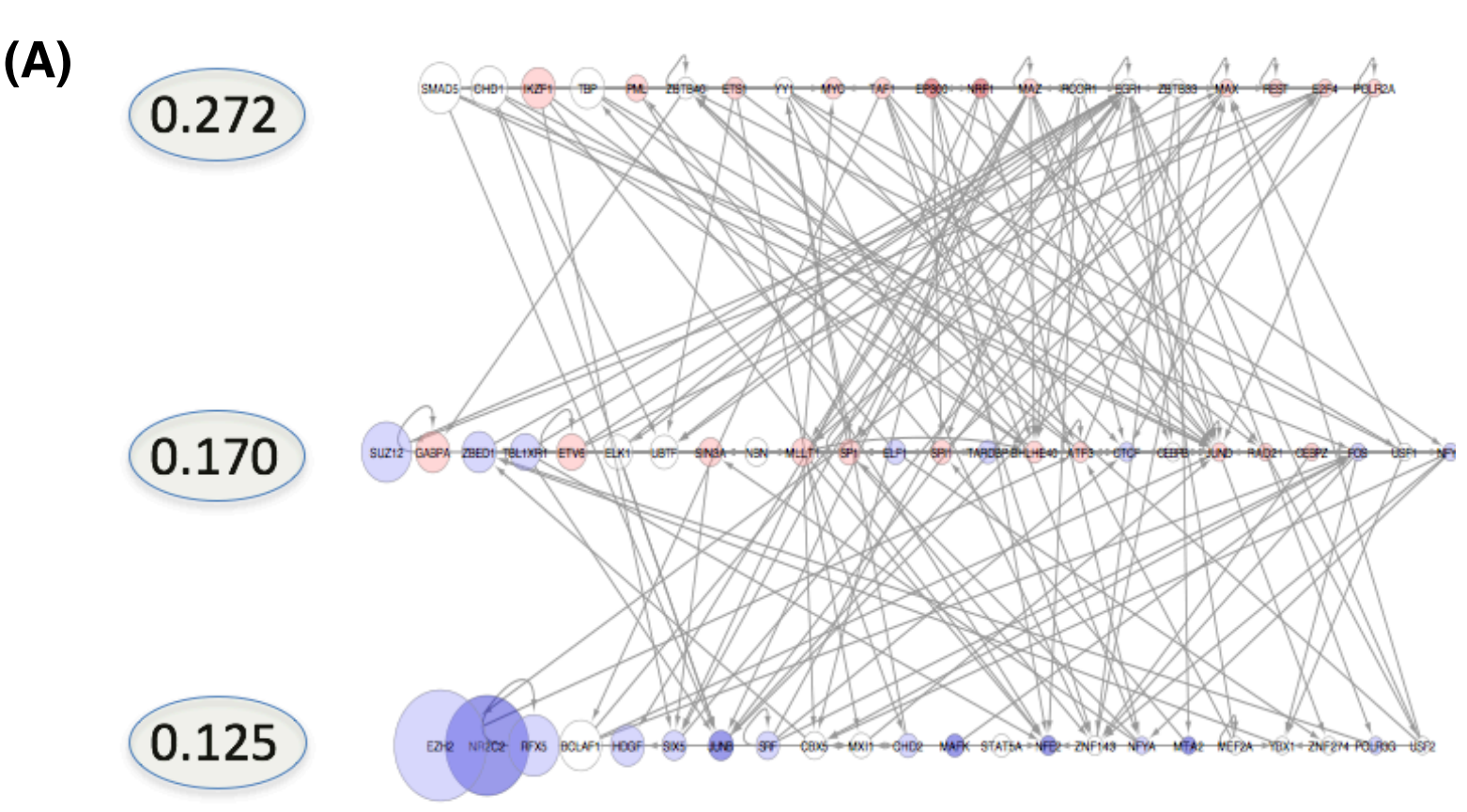


Figure 3

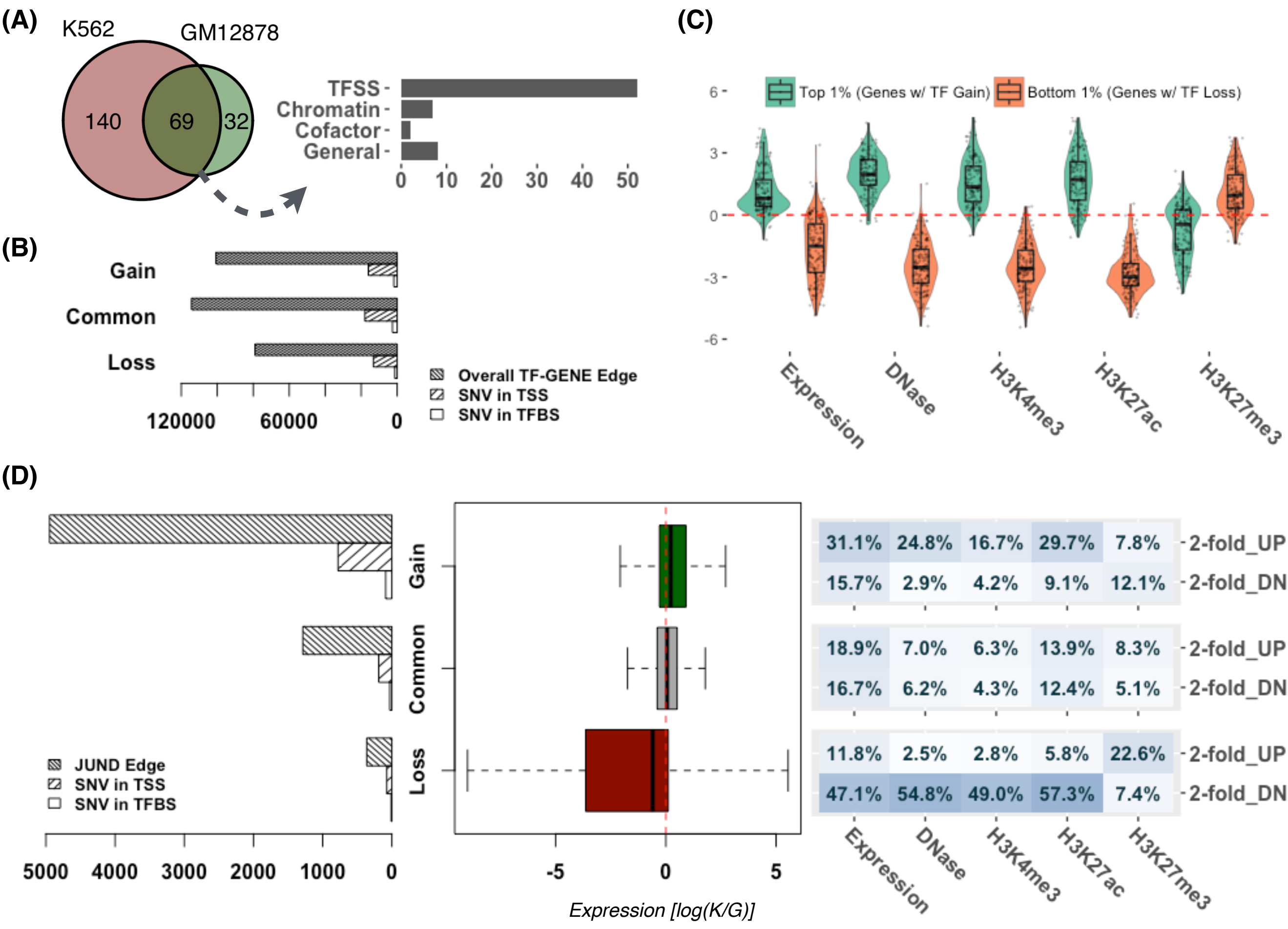


Figure 4

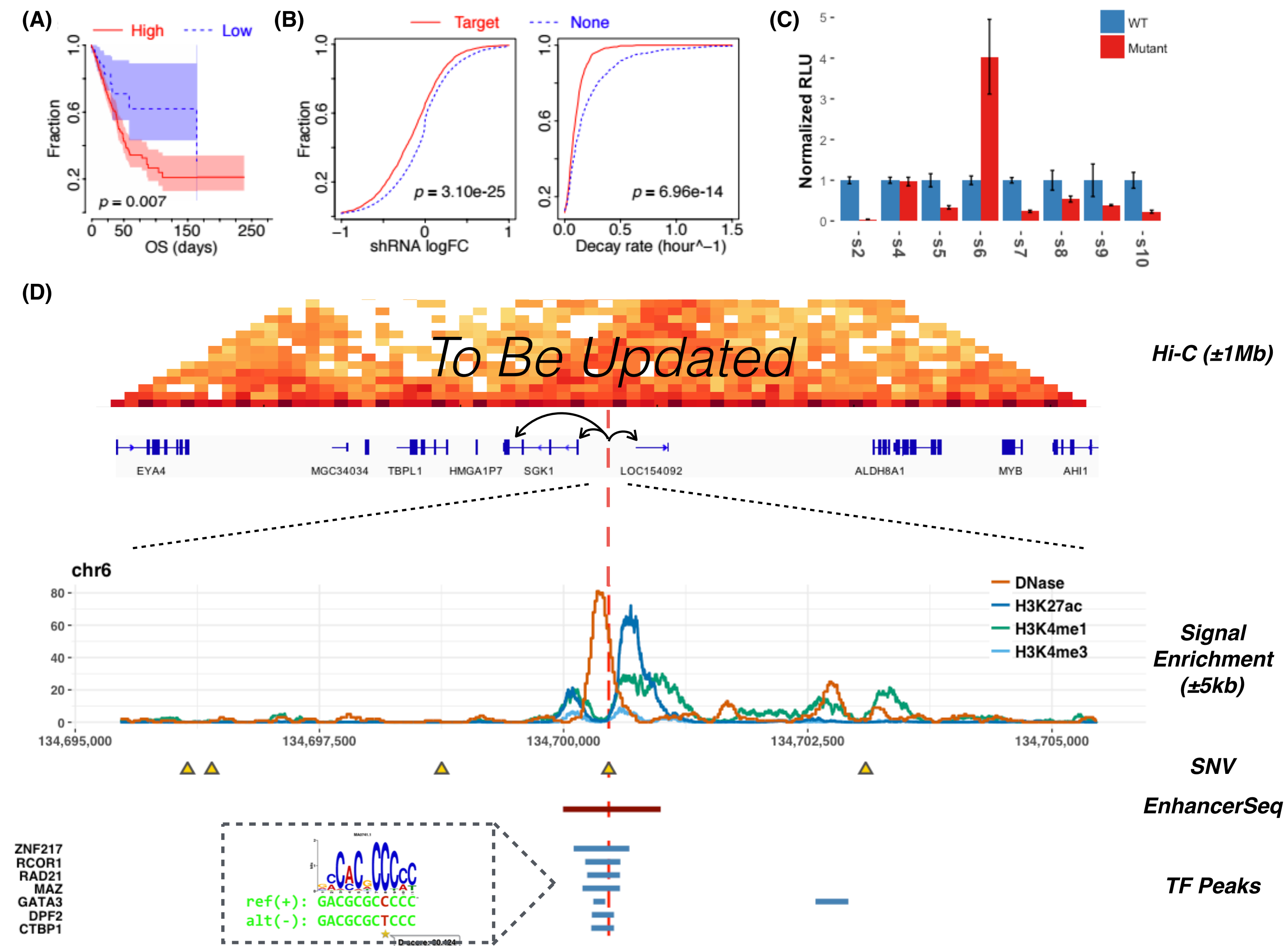
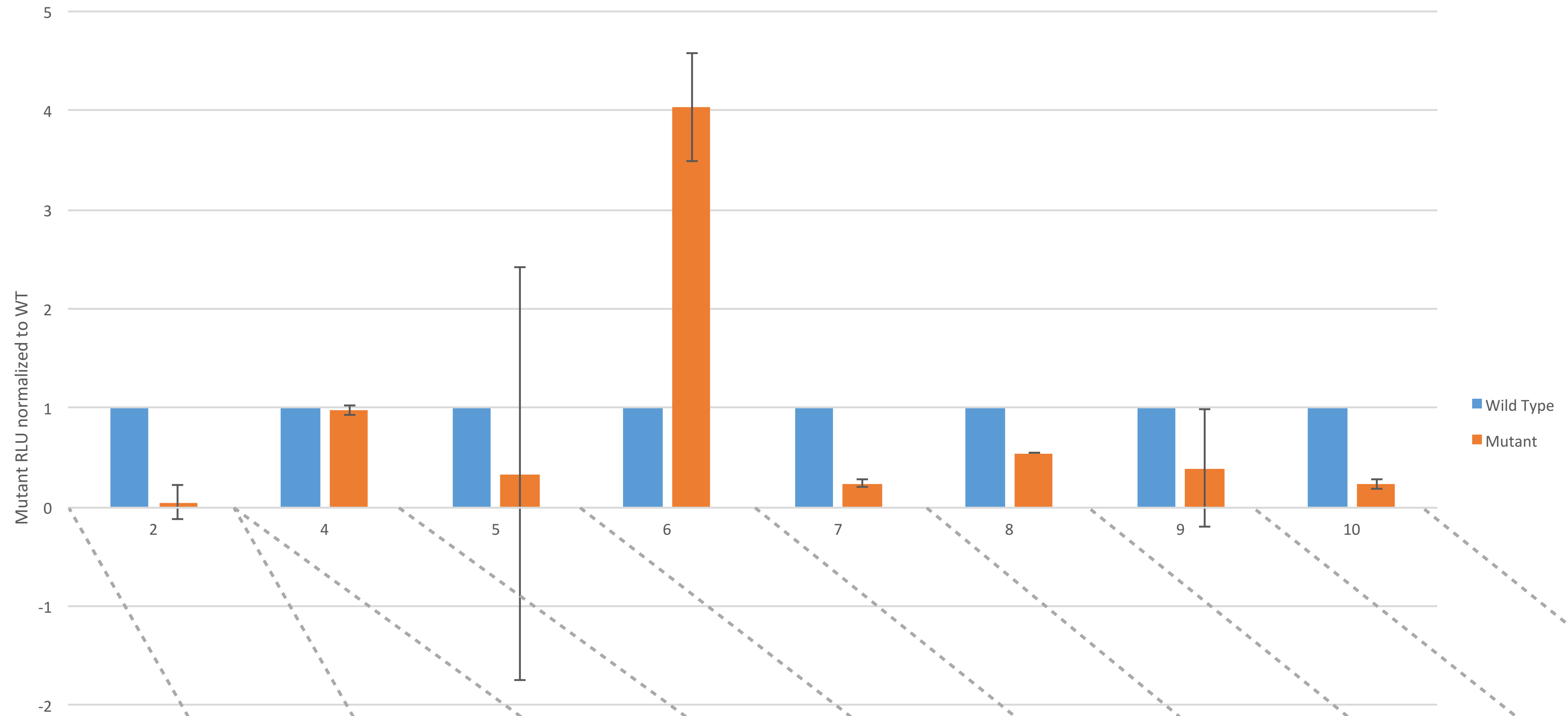


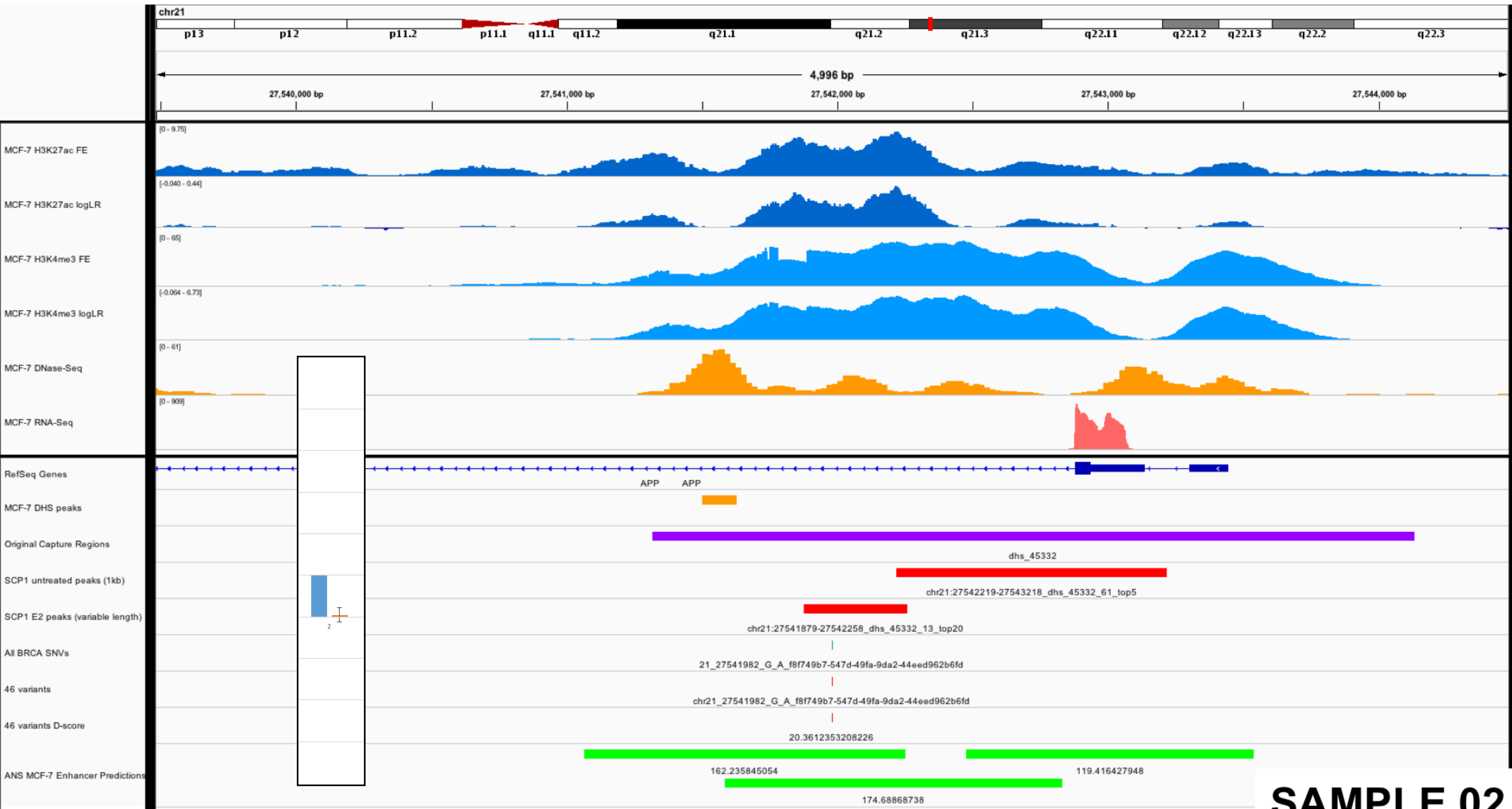
Figure 5

Enhancer Seq Validation Motif Disruption Luciferase Assay

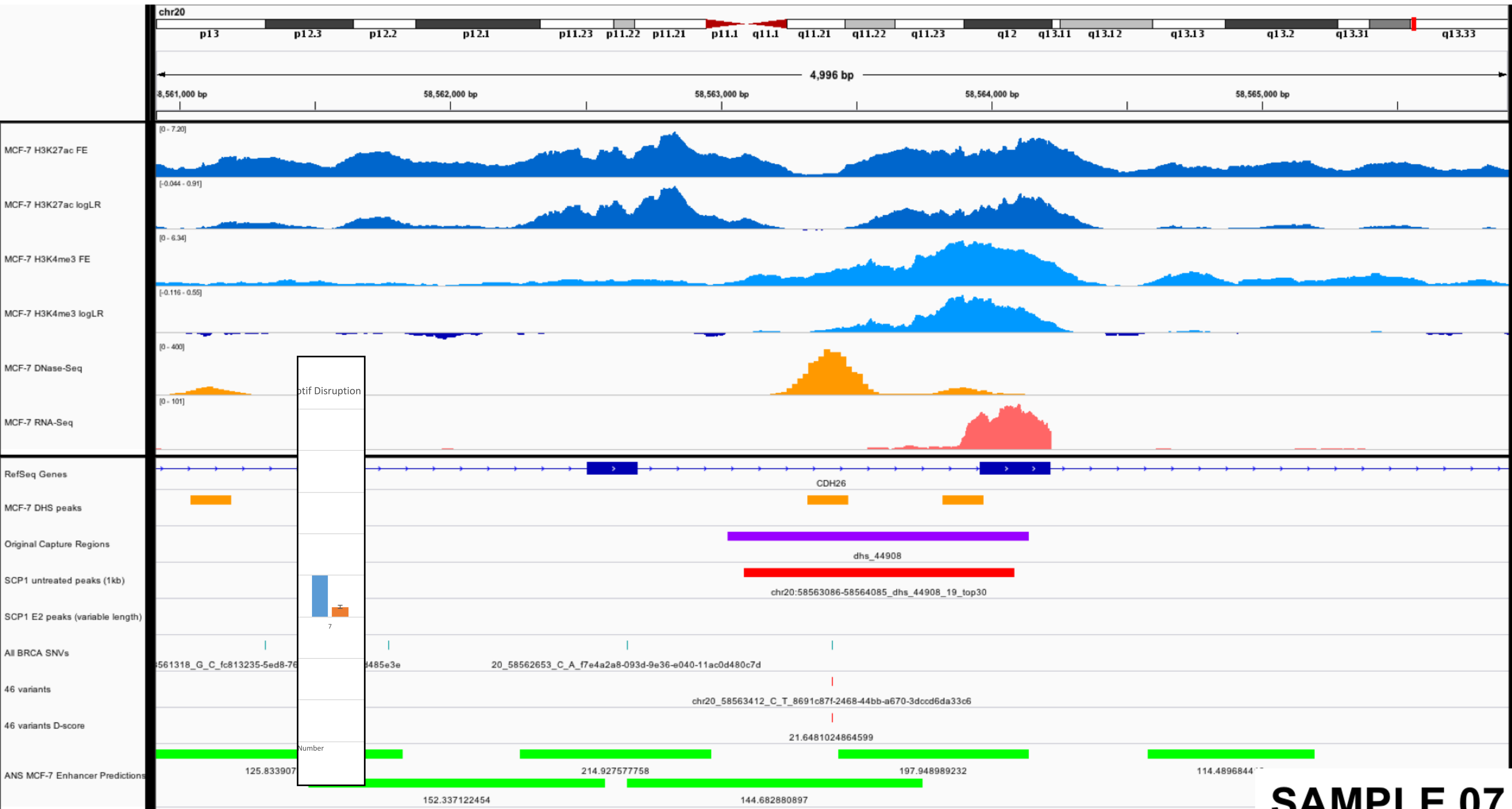


	<i>Sample01*</i>	Sample02	<i>Sample03*</i>	Sample04	Sample05	Sample06	Sample07	Sample08	Sample09	Sample10
chr	<i>chr16</i>	chr21	<i>chr8</i>	chr17	chr20	chr7	chr20	chr7	chr7	chr6
pos	<i>85,604,242</i>	27,541,982	<i>21,541,726</i>	38,474,408	43,971,343	1,598,567	58,563,412	150,759,483	5,596,005	134,700,462
ref	<i>C</i>	G	<i>A</i>	C	G	C	C	C	T	G
alt	<i>G</i>	A	<i>G</i>	G	C	T	T	G	G	T
D-score_min	<i>22.728</i>	20.361	<i>10.389</i>	16.910	3.665	15.746	7.217	13.959	13.372	13.989
D-score_mean	<i>22.728</i>	20.361	<i>16.962</i>	16.910	15.834	15.746	15.521	15.242	15.019	14.591
D-score_max	<i>22.728</i>	20.361	<i>27.406</i>	16.910	30.424	15.746	21.648	17.325	17.993	15.796

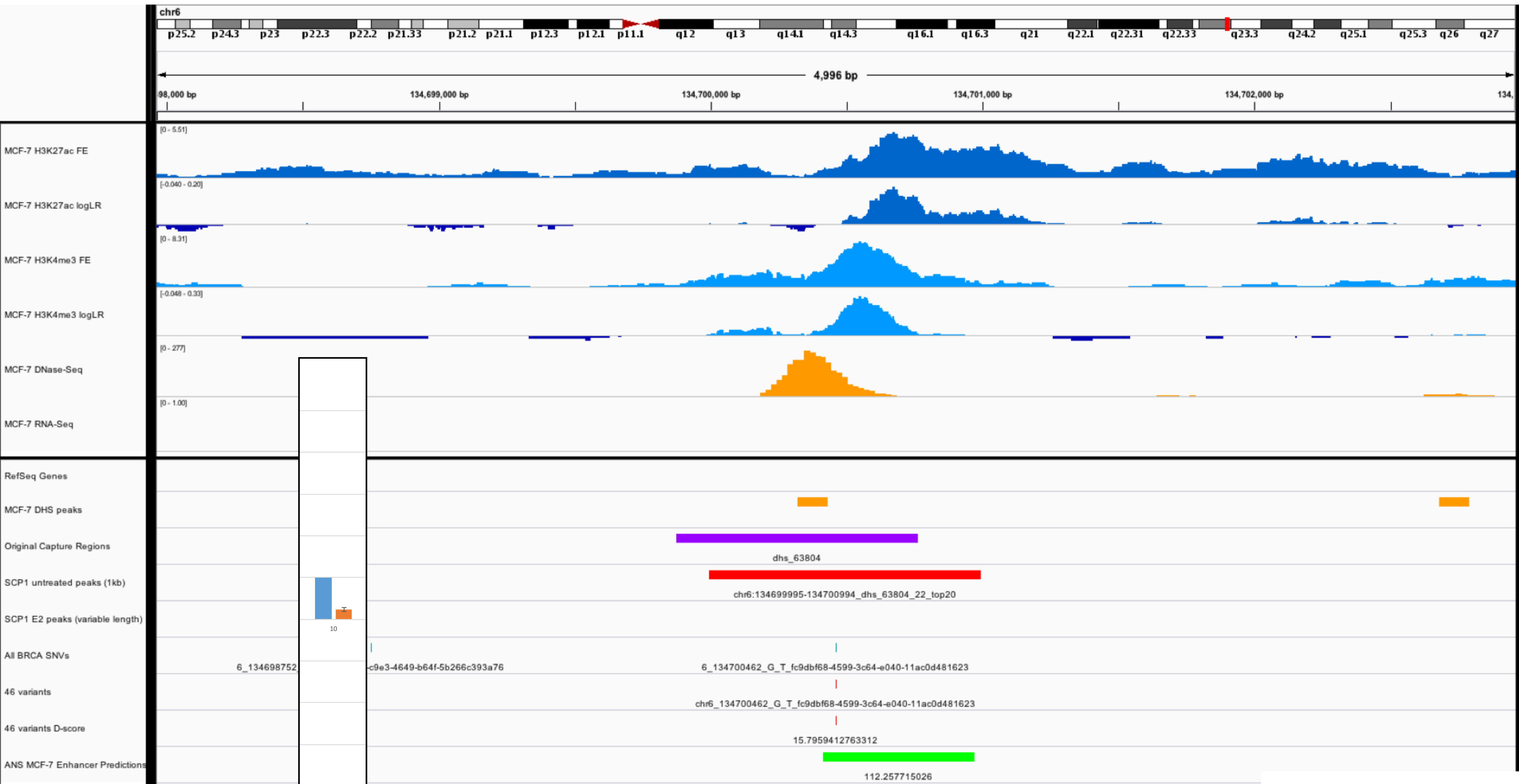
**Sample 1 & 3 had issues with plasmid isolation*



SAMPLE 02



SAMPLE 07



SAMPLE 10