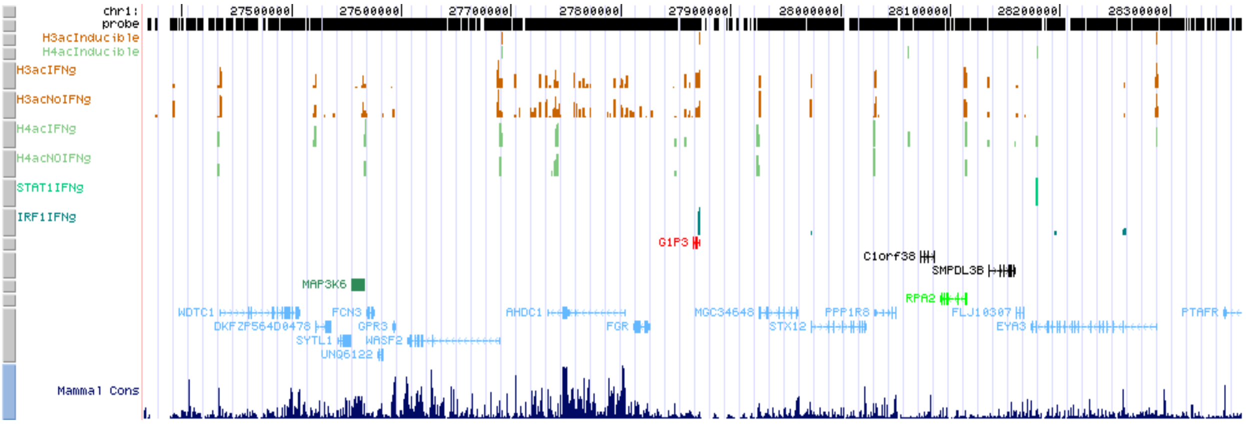
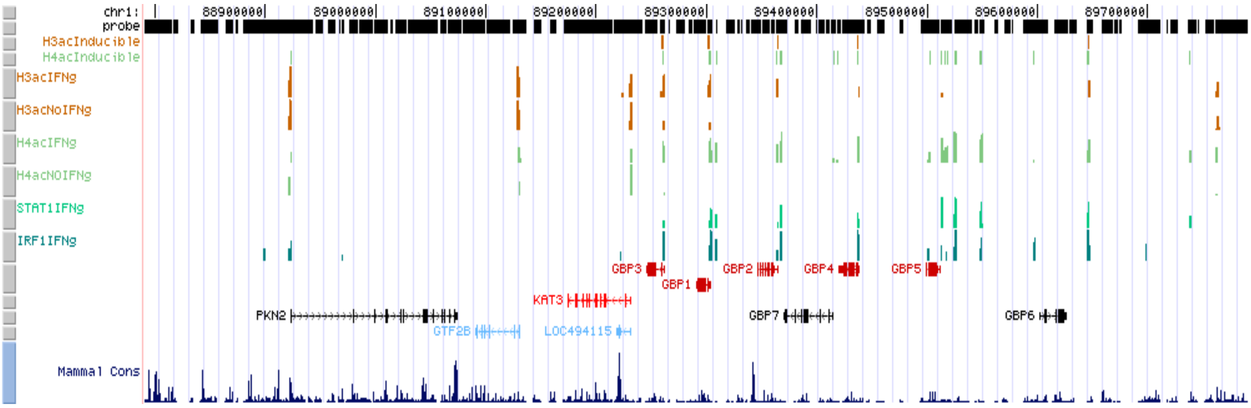
Supplementary Fig 1. H3ac and H4ac distribution at ISG-rich regions

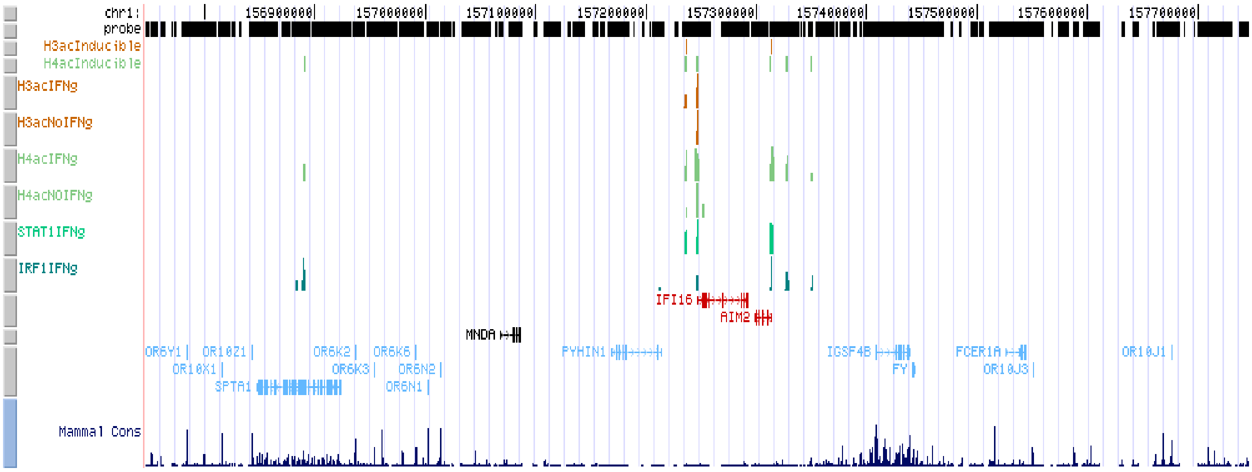
6-16(G1P3) locus chr1:27,365,167-28,365,167



GBP1 cluster chr1:88,790,592-89,790,592

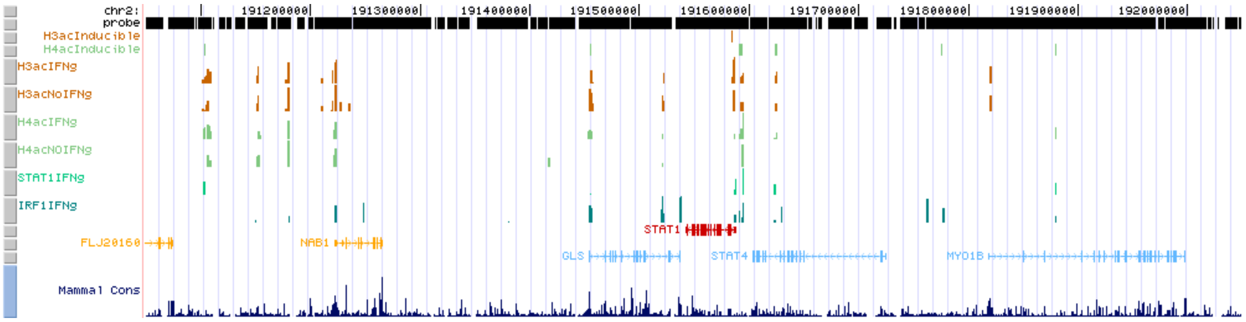


IFI16 cluster (IFI200 series) chr1:156,746,330 -157,746,330

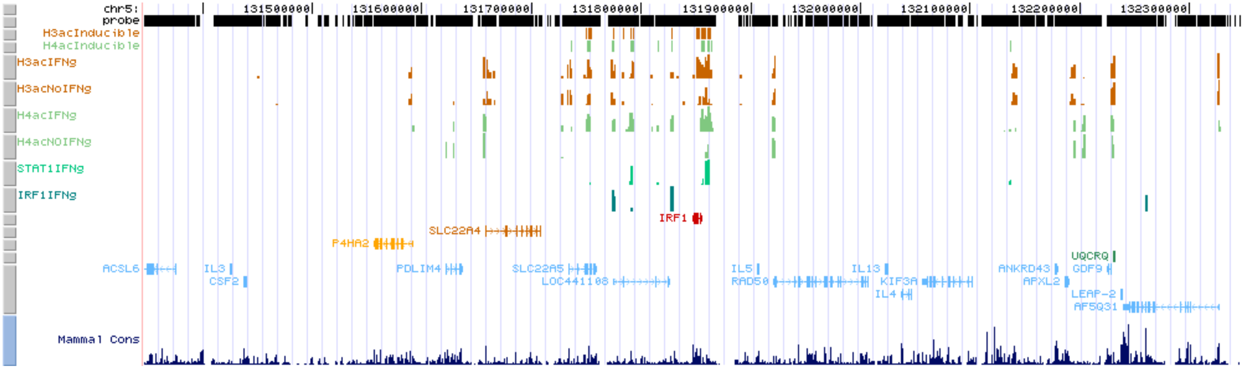


Supplementary Fig 1. [page II]

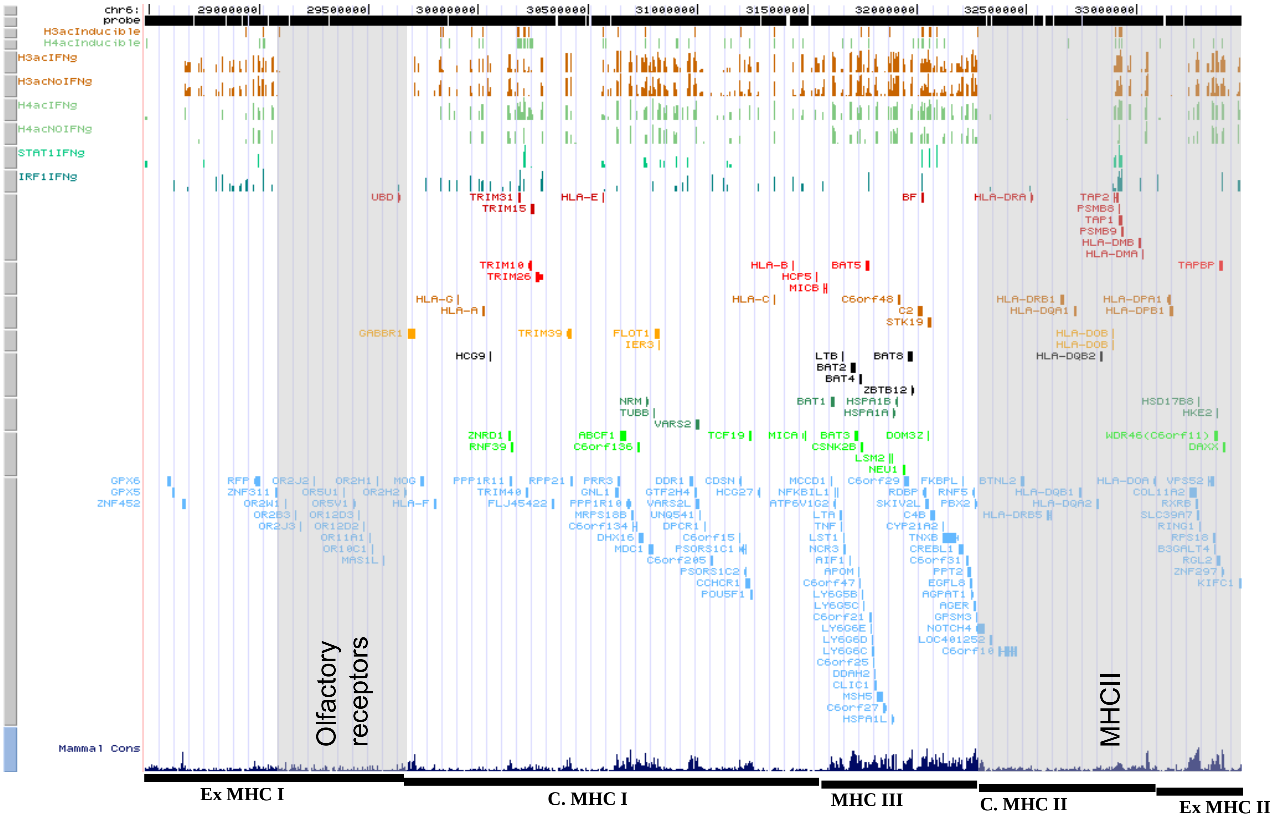
STAT1 locus chr2:191,048,779-192,048,779



IRF1 locus chr5:131,346,678-132,346,678

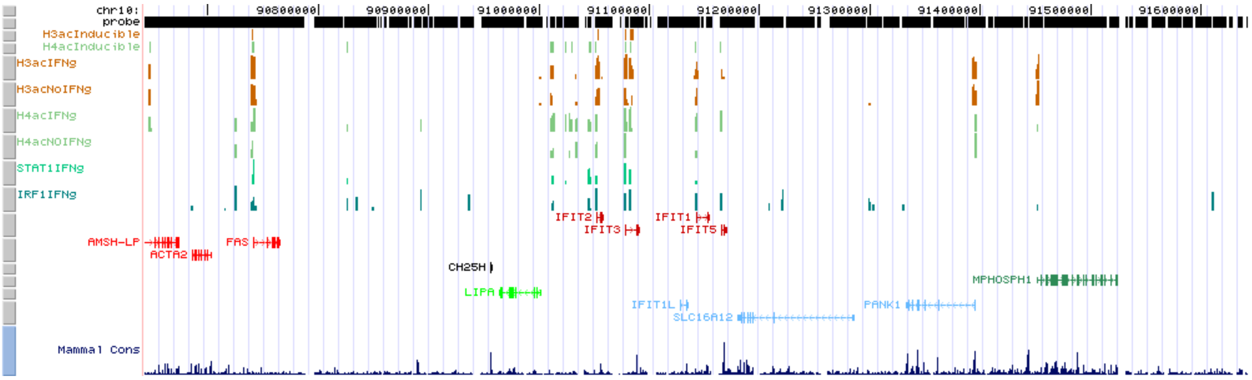


MHC locus chr6:28,478,769-33,478,769

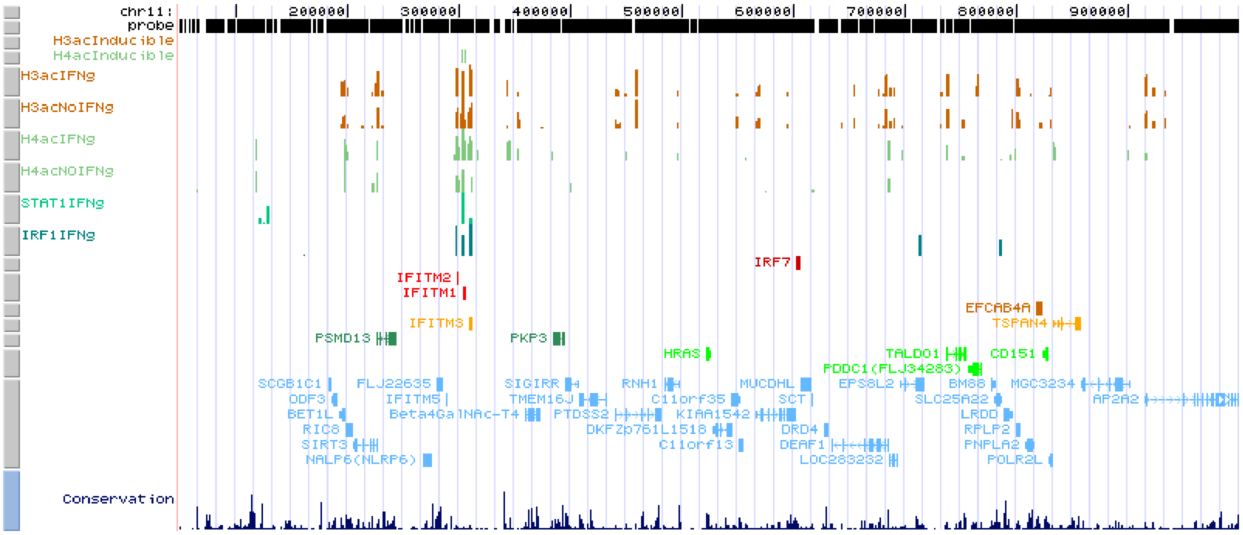


Supplementary Fig 1. [page III]

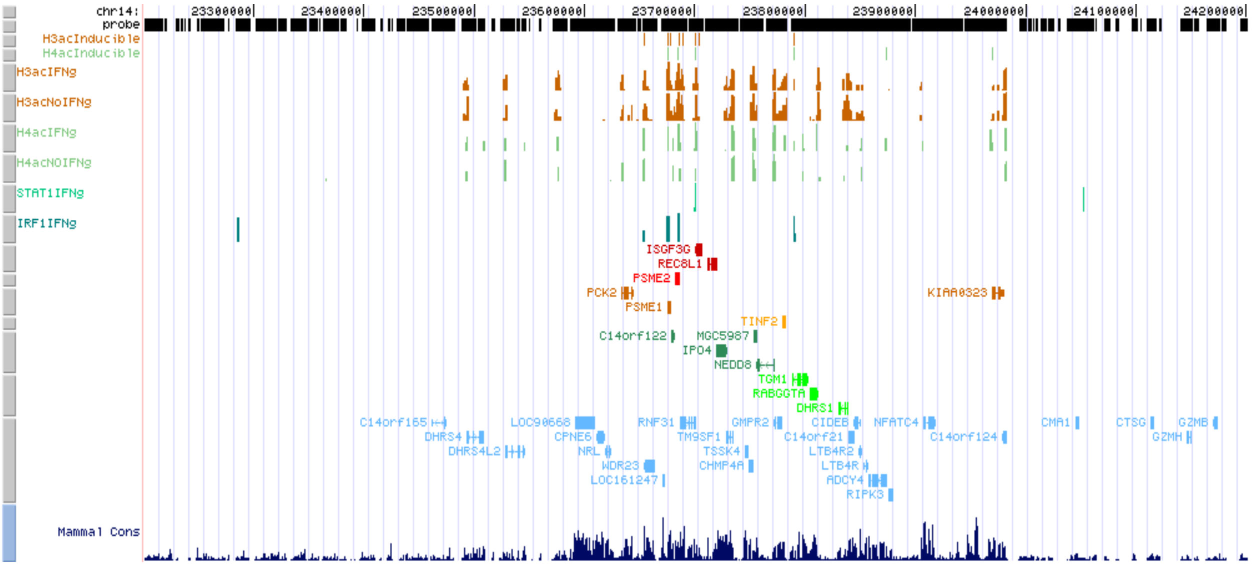
IFIT1 cluster chr10:90,642,357-91,642,357



9-27(IFITM1) cluster, IFITM3 locus chr11:50001-1,000,000

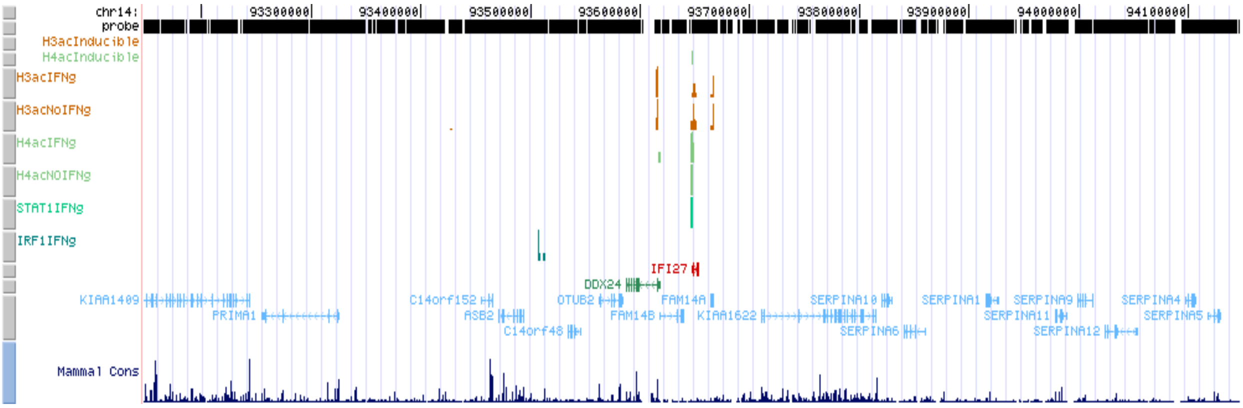


PSME cluster chr14:23,201,190-24,201,190

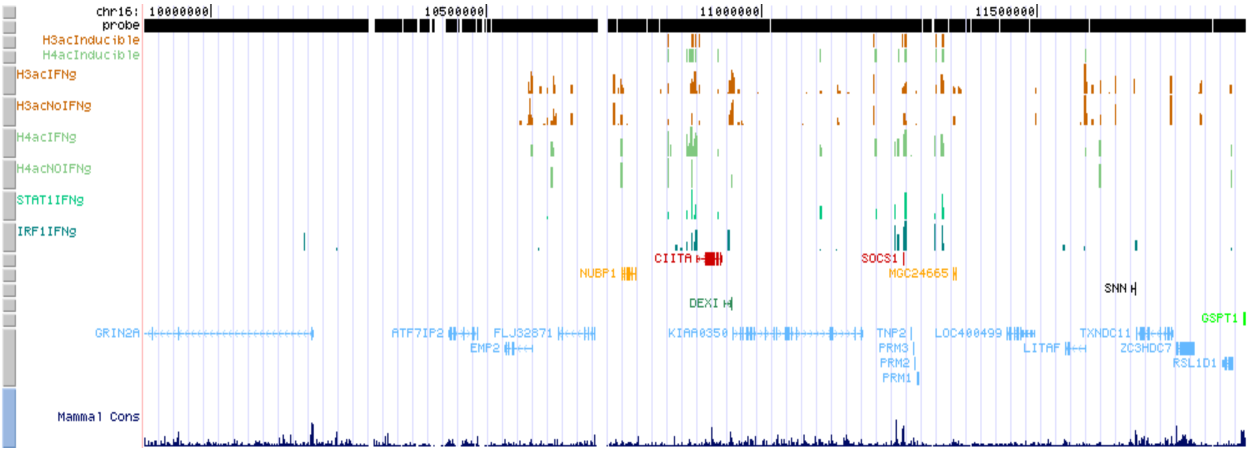


Supplementary Fig 1. [page IV]

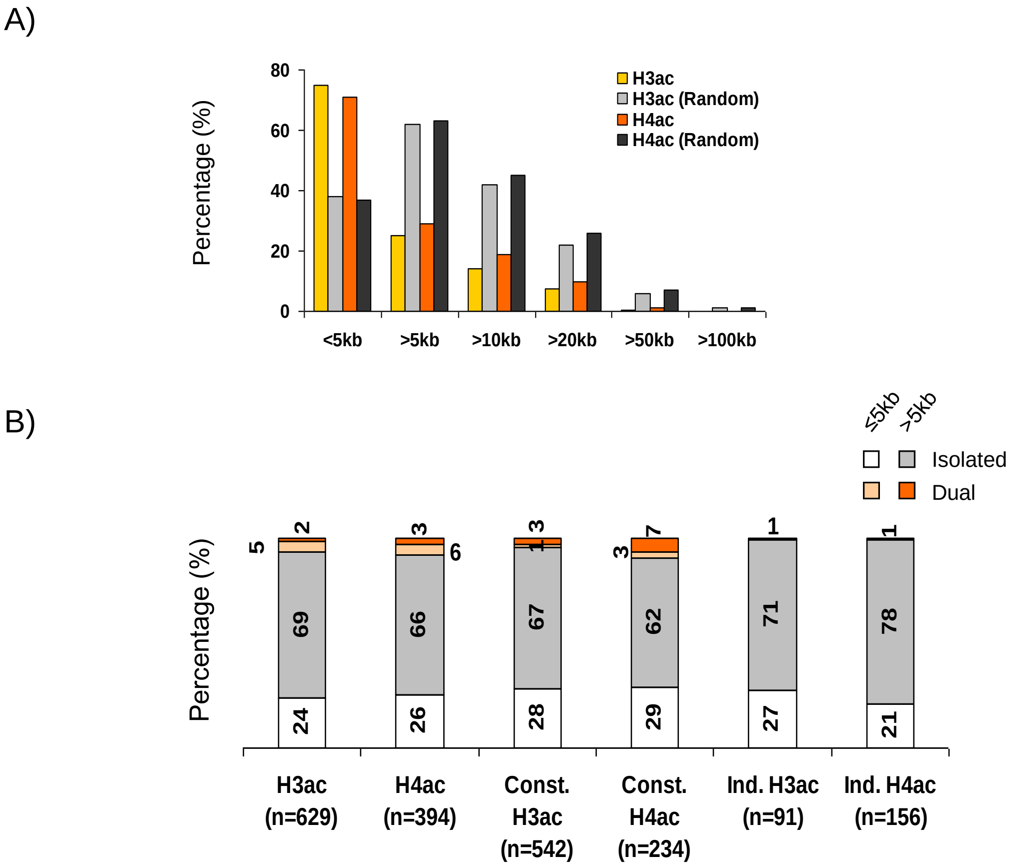
IFI27 locus chr14: 93,146,835-94,146,835

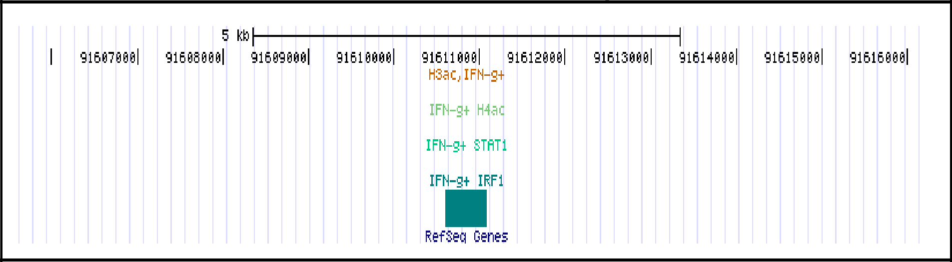
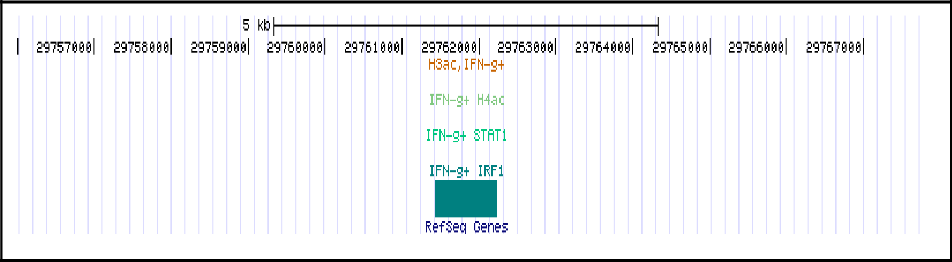
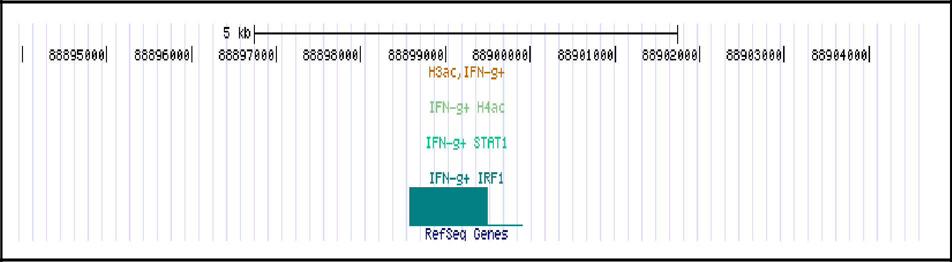
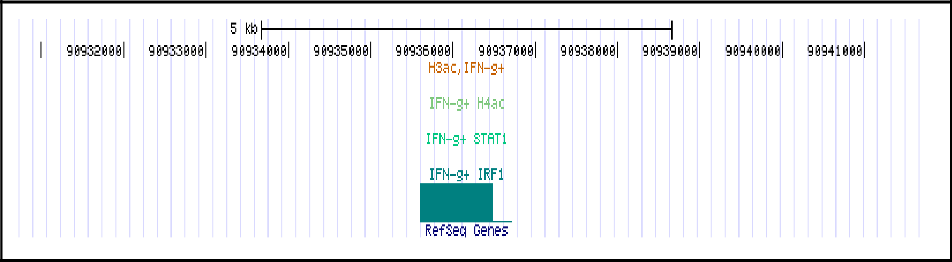
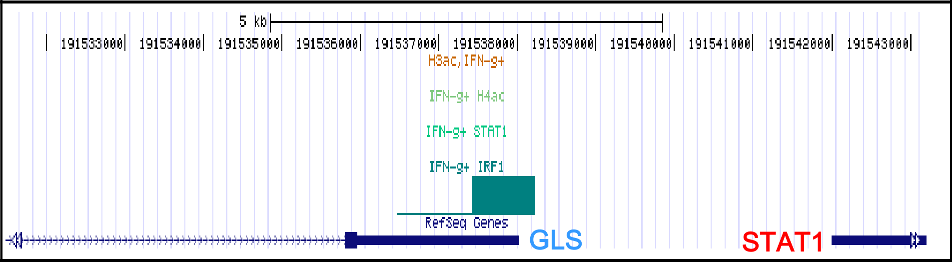
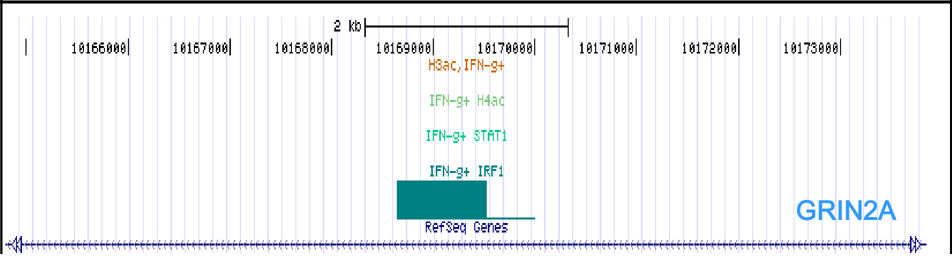


CIITA and SOCS1 loci chr16:9,878,539-11,878,539



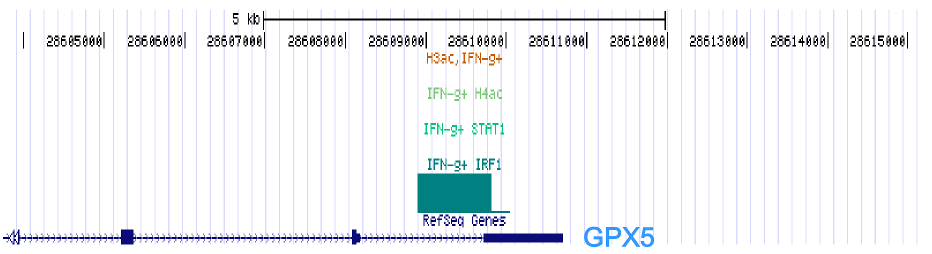
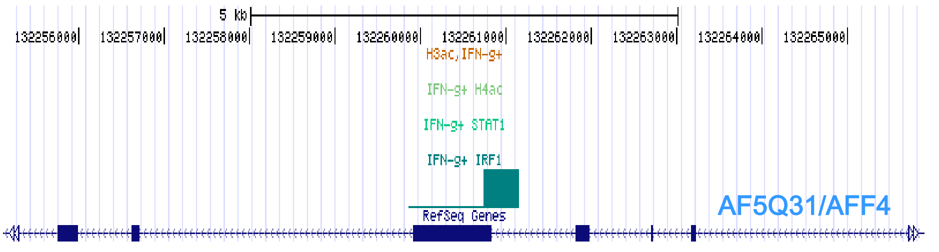
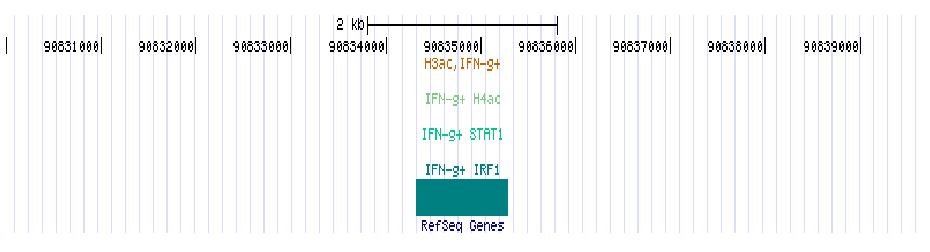
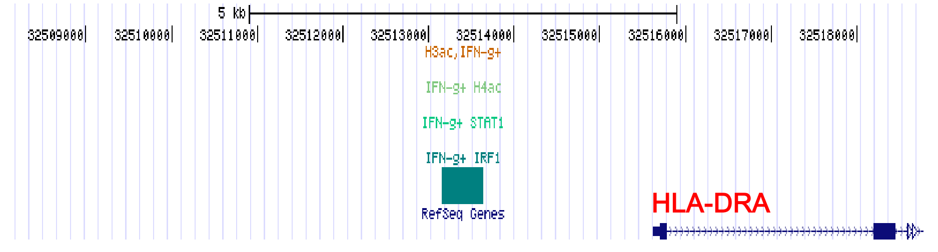
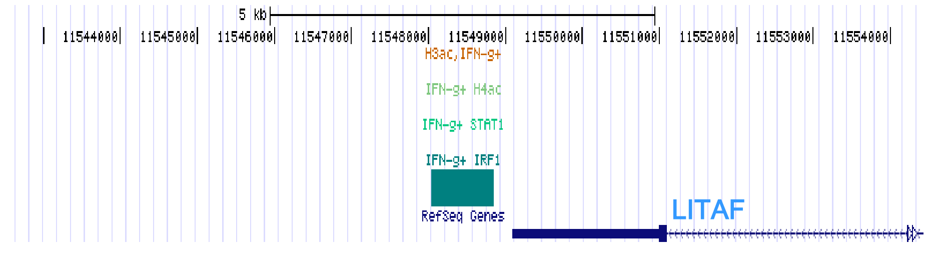
Supp Fig 2. Distribution of H3ac and H4ac relative to the TSS of all genes. (A) Bar graph summarizes the distribution of histone acetylation sites at increasing distance from the 5' ends of genes located within the studied 16 Mb (Known Genes, Refseq and Geneid Genes), and compared to equal numbers of randomly generated sites. **(B)** Percent of isolated or dual (i.e. overlapping) randomly generated sites corresponding to the number of total, constitutive and induced histone acetylation sites at proximal (≤5kb) or distal (>5 kb) distances from the TSS of Known genes.



Site	Cluster/locus	IRF1 peak coordinates	~10 Kb Chromosomal snapshot
Or 1	IFIT	chr10:91610604-91611081	
Or 2	MHC	chr6:29761436-29762233	
Or 3	GBP	chr1:88898577-88899906	
Or 4	IFIT	chr10:90935598-90936715	
Or 5	STAT1	chr2:191536466-191538223	
Or 6	SOCS1	chr16:10168644-10170001	

Supp Fig 3. Chromosomal localization of a selected set of orphan IRF1 sites. Coordinates of randomly selected orphan IRF1 sites are provided. Snap shots show +/-5kb regions around the selected sites and show IRF1 binding in the absence of STAT1 binding or H3/4ac. Snap shots also show the inter- or intra-genic localization of the orphan sites. Overlapping or nearby genes were colored in red for early induced ISGS (eindISGs) and in blue for Other genes.

Supp Figures 3. Cont.

Site	Cluster/locus	IRF1 peak coordinates	~10 Kb Chromosomal snapshot
Or 7	MHC	chr6:28608900-28610045	
Or 8	IRF1	chr5:132259872-132261149	
Or 9	IFIT	chr10:90834318-90835288	
Or 10	MHC	chr6:32513159-32513636	
Or 11	SOCS1	chr16:11548046-11548843	
Or 12	IFITM	chr11:713130-714007