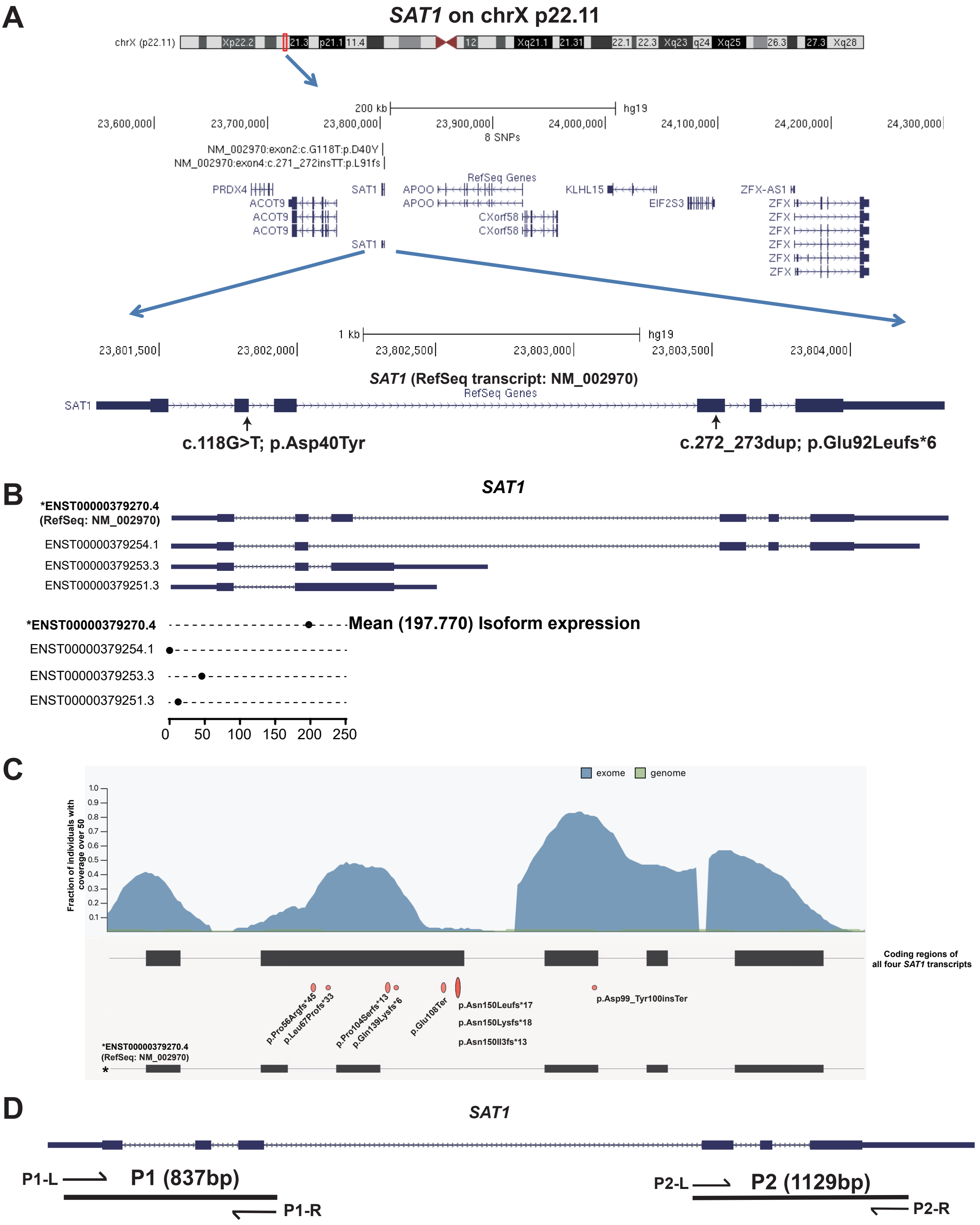
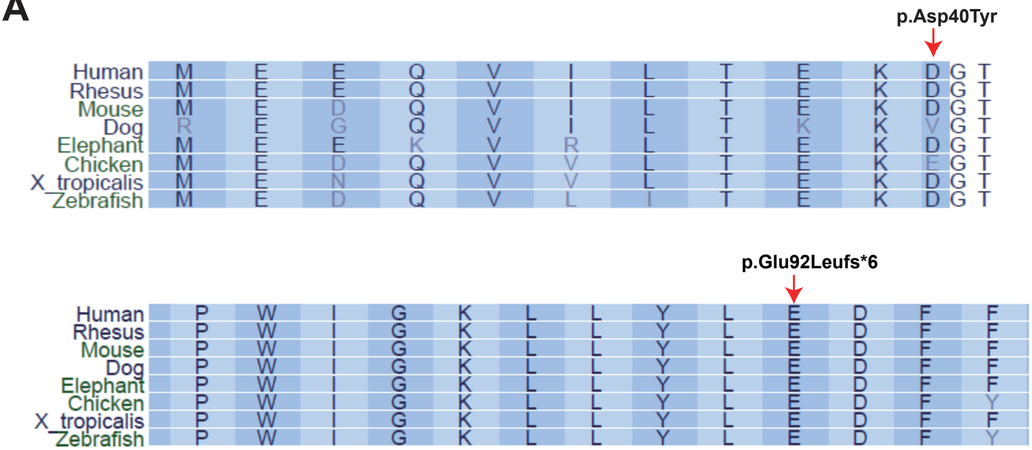
Supplemengtary figure 1



Supplemengtary figure 2

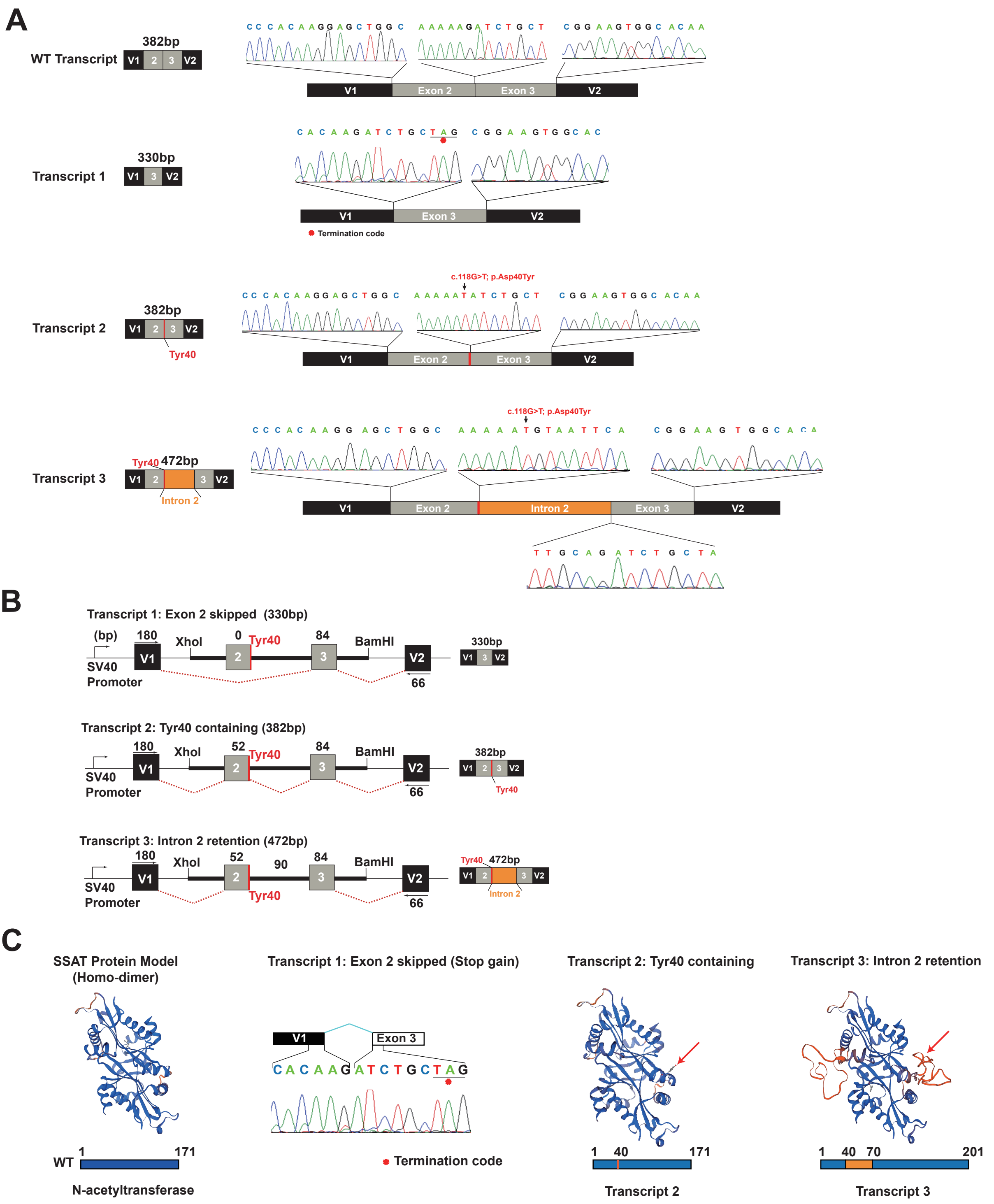
A



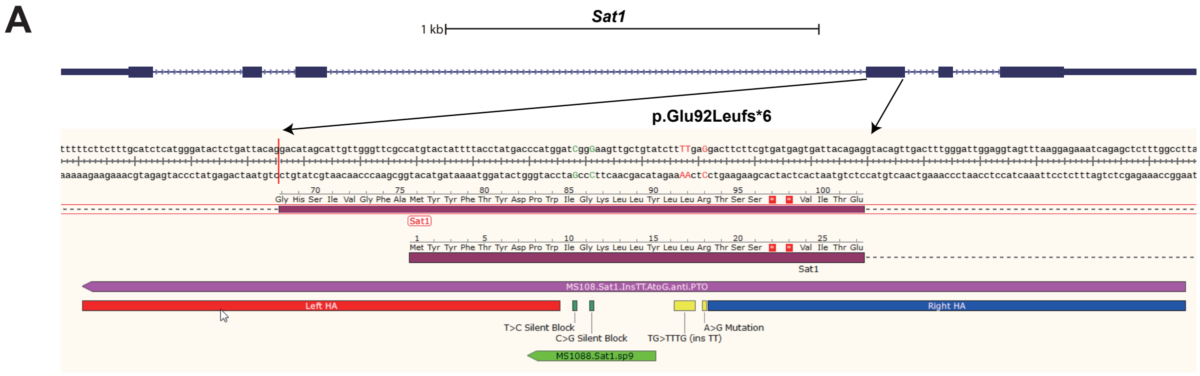
B

	Computational prediction							
	SIFT	Polyphen2	fathmm-MKL	LRT	MutationTaster	MutationAssessor	PROVEAN	MetaSVM
p.Asp40Tyr	Deleterious	Deleterious	Deleterious	Deleterious	Deleterious	High functional impact	Deleterious	Deleterious

Supplementary figure 3

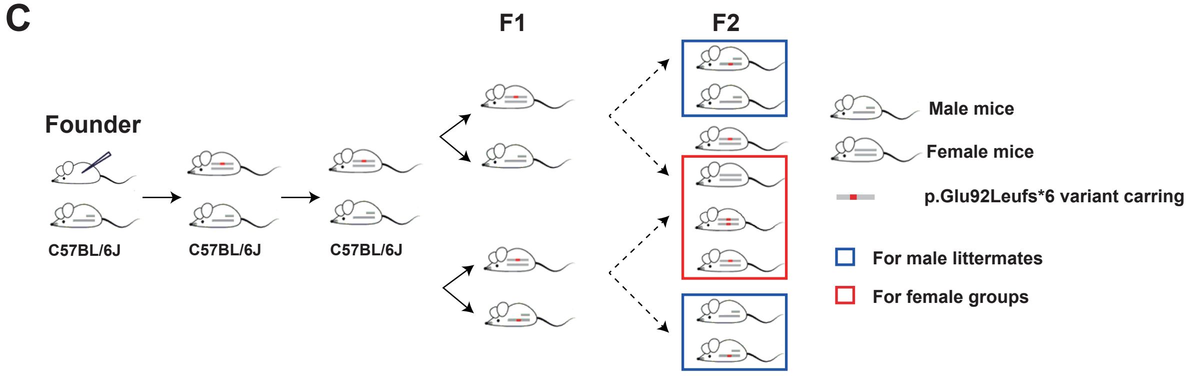


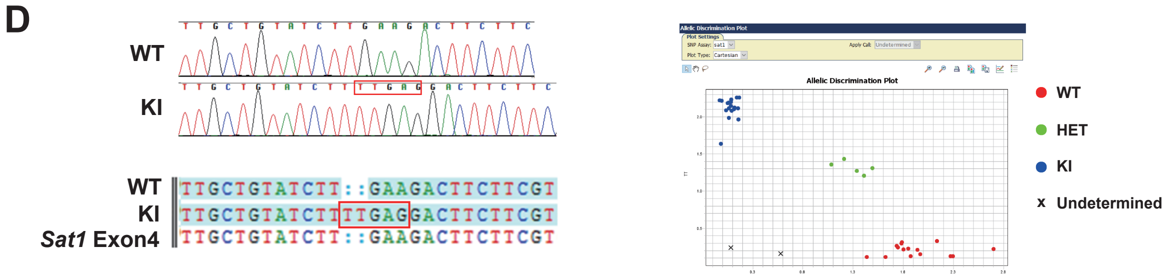
Supplementary figure 4

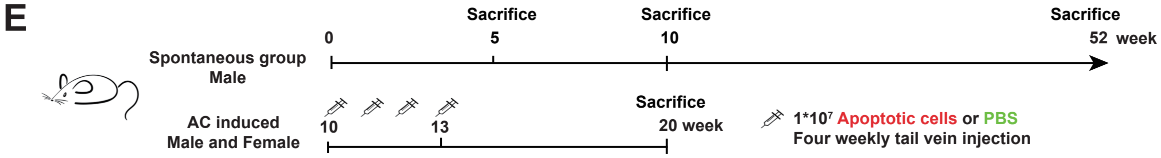


B

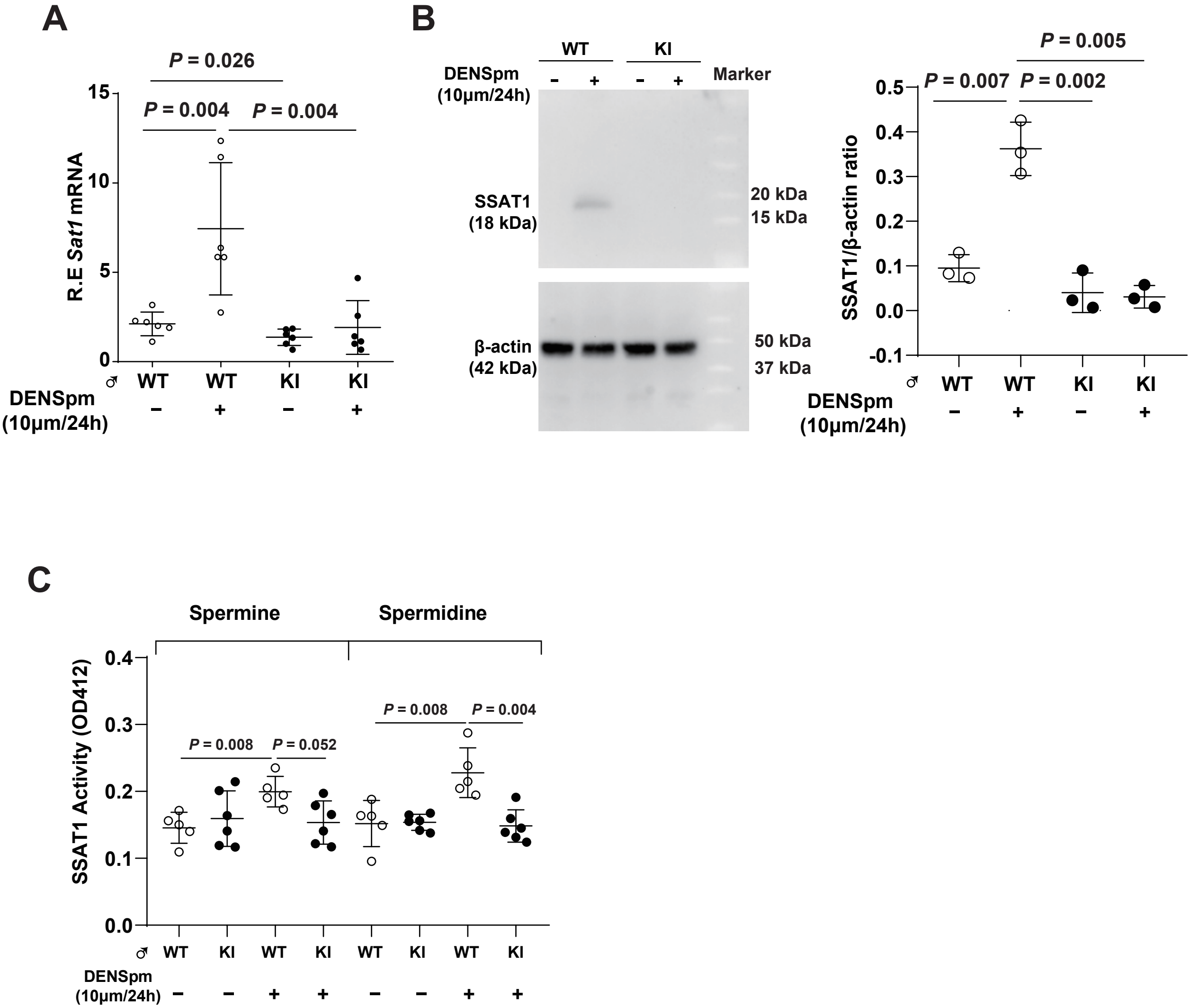
	Strand	Chr	Position (mm9)	Mismatch nt	Target
MS1088.Sat1.sp9	+	chrX	155214068	None	Target
MS1088.Sat1.sp9	+	chr17	16320764	5:T>C	Intergenic
MS1088.Sat1.sp9	+	chr5	29794769	5:T>C	Intergenic



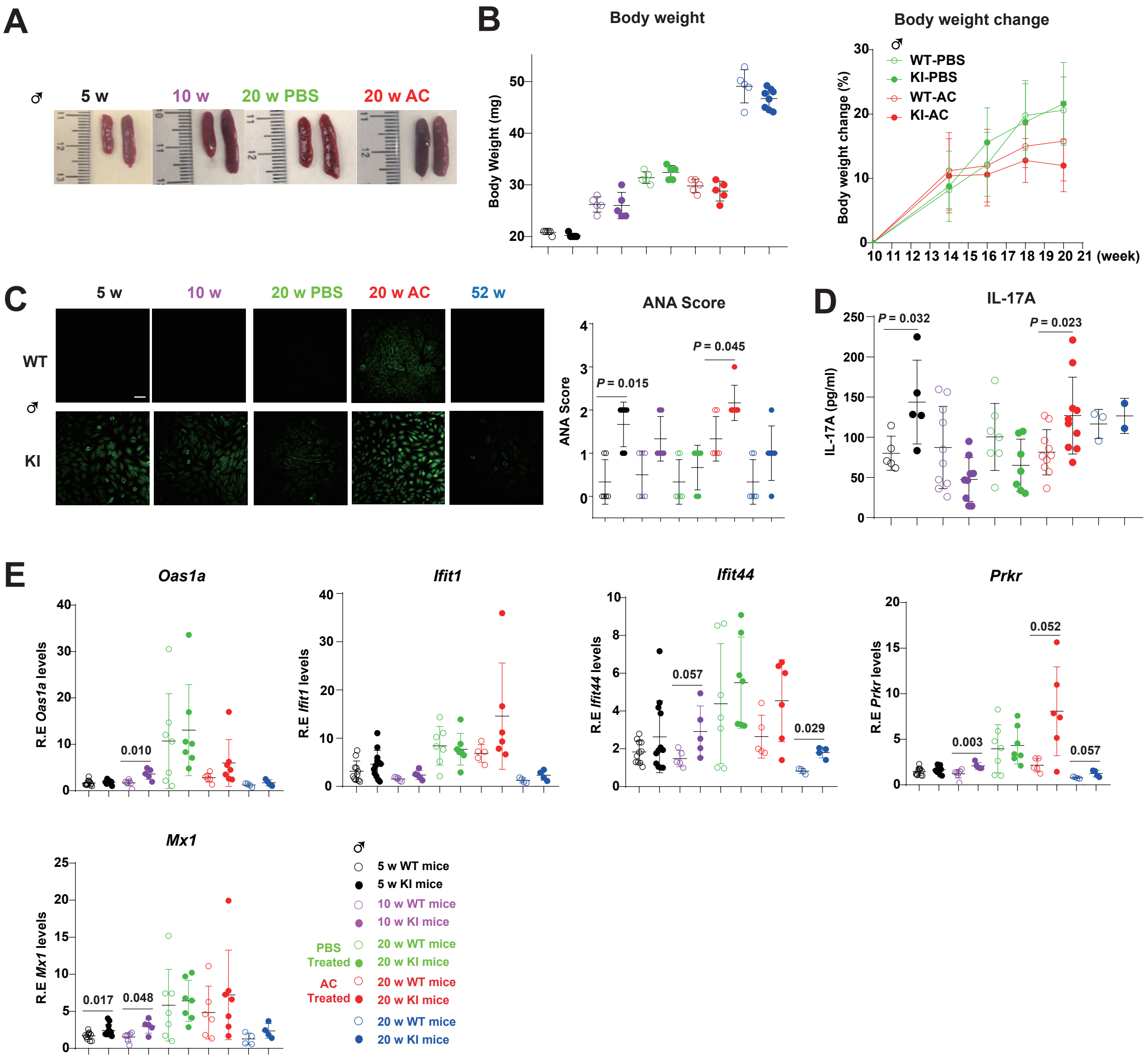




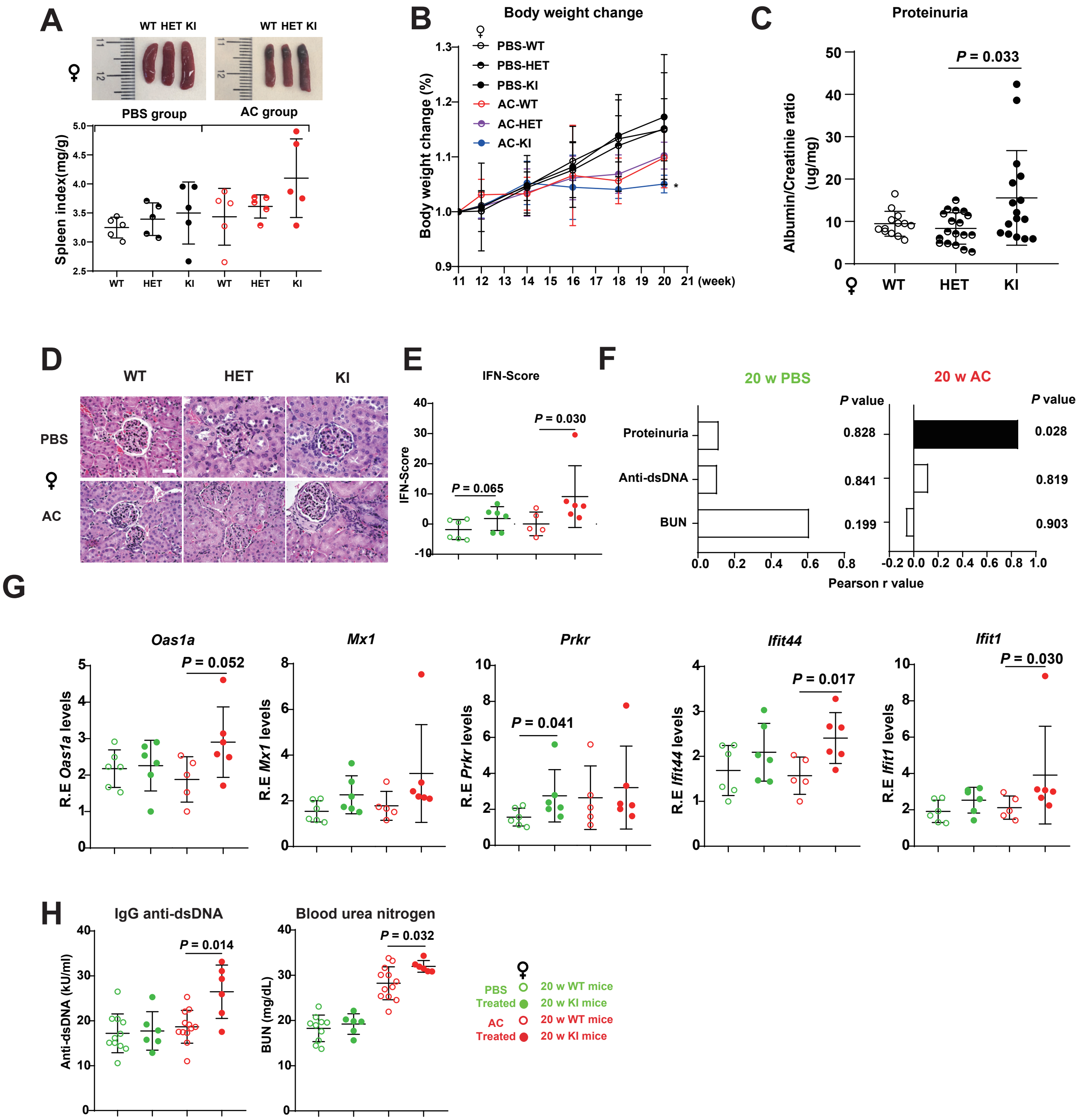
Supplementary figure 5



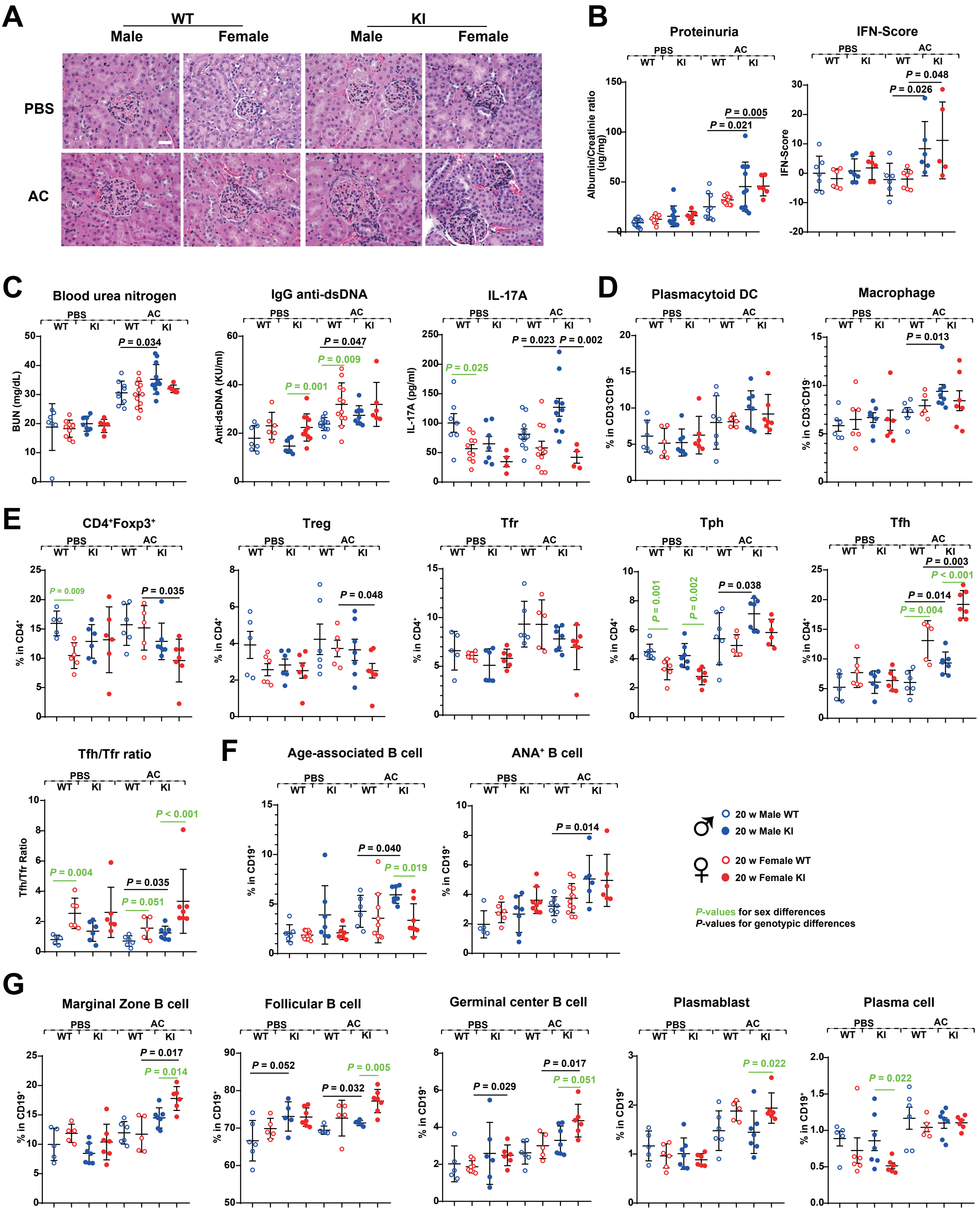
Supplementary figure 6



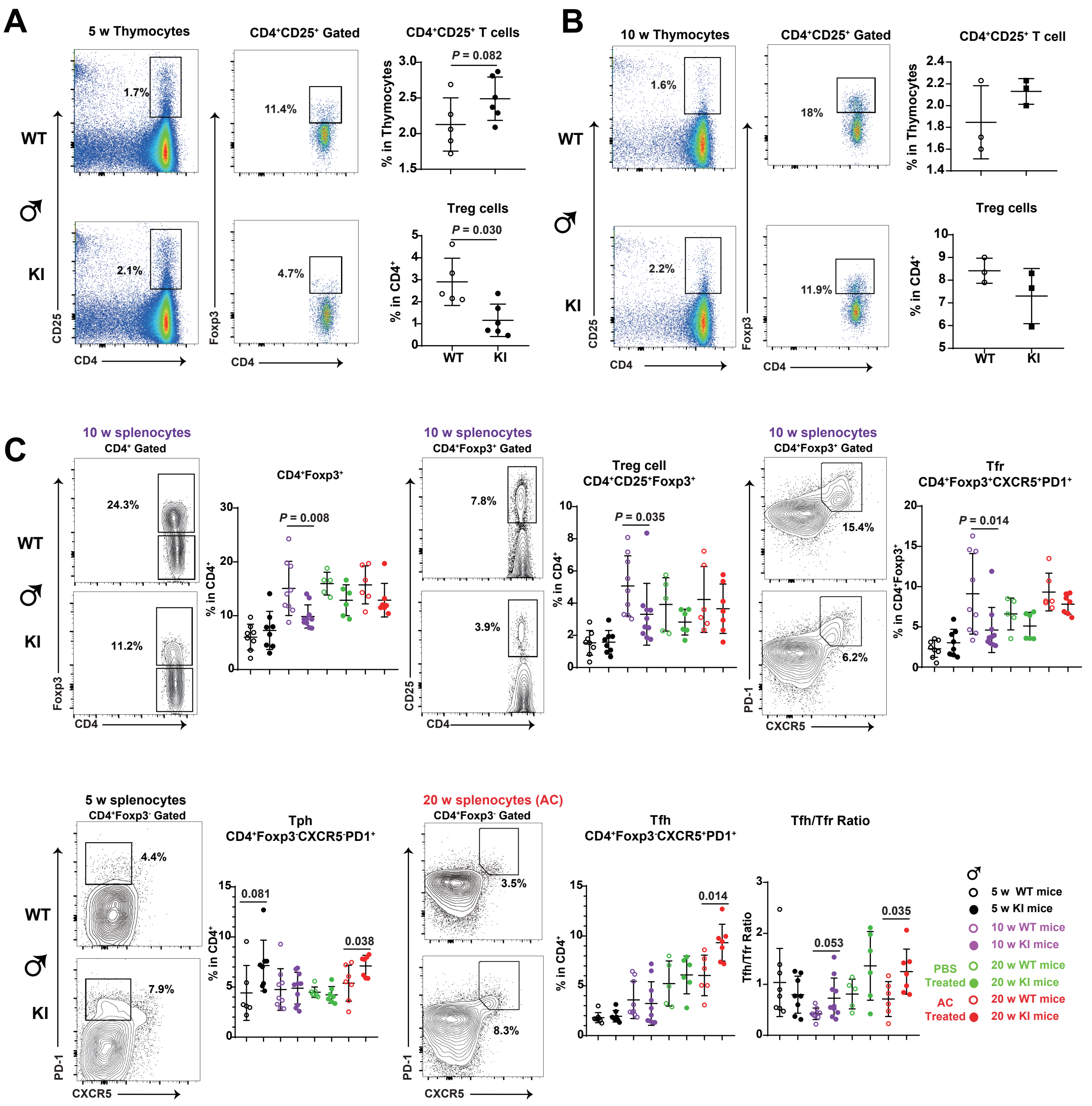
Supplementary figure 7



Supplementary figure 8



Supplementary figure 9



Supplementary figure 10