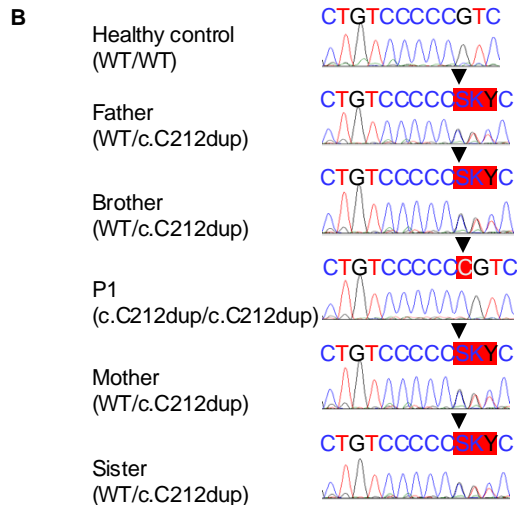


Supplementary Figure 1

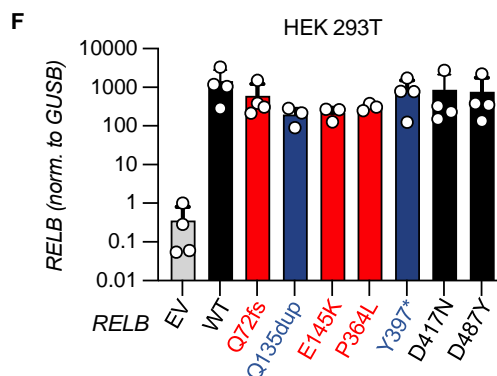
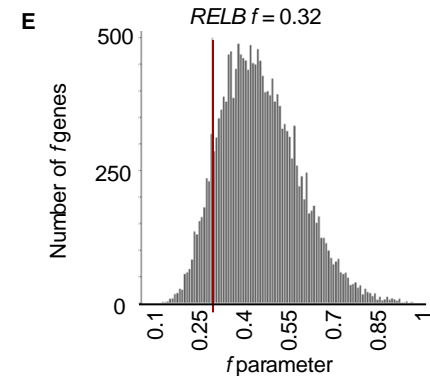
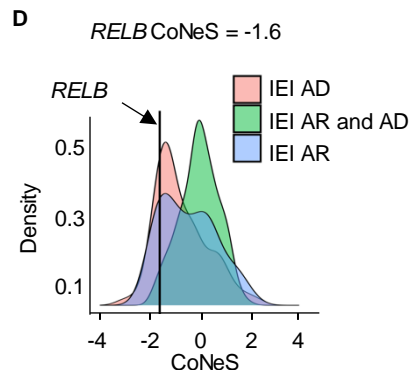
A

WES Analysis	P1	P2
Annotated SNV	170,504	199,275
Filter out MAF > 0.01 from gnomAD	8,273	18,450
Removal of non coding, synonymous variants or reads <5	722	526
Remove high GDI and low MSC score	459	348
	8 hom. 38 comp. het.	17 hom. 76 comp. het.

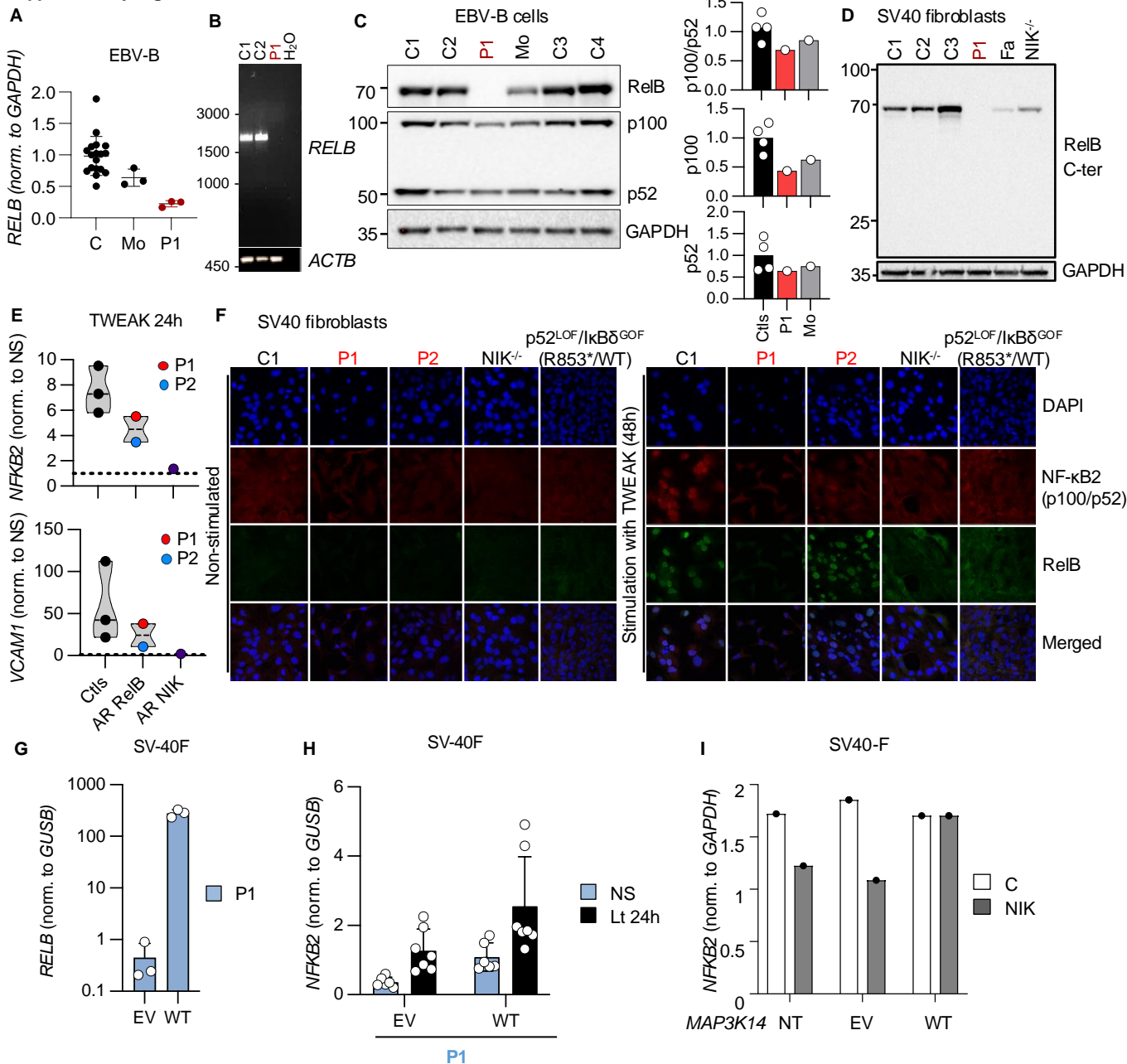


C

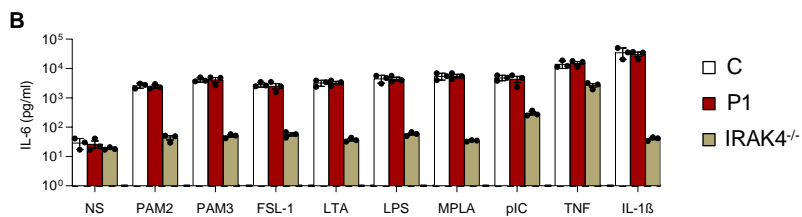
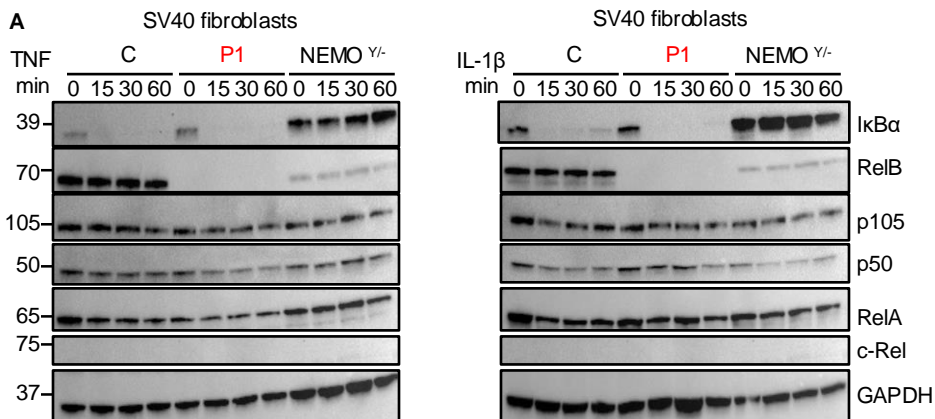
	E145		P364	
<i>H. sapiens</i>	133 PKQ RGMRF RYEC EGRSAGSILG 154		353 VHRQIAIVFKT P PYEDLEIVEP 374	
<i>P. troglodytes</i>	133 PKQ RGMRF RYEC EGRSAGSILG 154		353 VHRQIAIVFKT P PYEDLEIVEP 374	
<i>N. leucogenys</i>	133 PKQ RGMRF RYEC EGRSAGSILG 154		353 VHRQIAIVFKT P PYEDLEIVEP 374	
<i>Macaca</i>	133 PKQ RGMRF RYEC EGRSAGSILG 154		353 VHRQIAIVFKT P PYEDLEIVEP 374	
<i>R. norvegicus</i>	133 PKQ RGMRF RYEC EGRSAGSILG 154		353 VHRQIAIVFKT P PYEDLEISEP 374	
<i>M. musculus</i>	133 PKQ RGMRF RYEC EGRSAGSILG 154		353 VHRQIAIVFKT P PYEDLEISEP 374	
<i>C. familiaris</i>	133 PKQ RGMRF RYEC EGRSAGSILG 154		353 VHRQIAIVFKT P PYEDLEIVEP 374	
<i>O. anatinus</i>	133 PKQ RGMRF RYEC EGRSAGSILG 154		353 VHRQIAIVFKT P PYEDLEIPAP 374	
<i>Frog</i>	133 PKQ RGMRF RYQCEGRSAGSILG 154		353 VHRQIAIVLKT P PYHDLHIT EP 374	
<i>T. lineatus</i>	133 PKQ RGMRF RYEC EGRSAGSILG 154		353 VHRQIAIVFKT P PYQDQDIQEE 374	
<i>D. rerio</i>	133 PKERGMRF RYEC EGRSAGSILG 154		353 VHRQIAIVFKS P PFRE QDILE E 374	
<i>D. melanogaster</i>	133 PTSNIIRFR YKCEGR TAGSILG 154		353 VFKQMAIAFKT P RYRNTEITQS 374	



Supplementary Figure 2



Supplementary Figure 3

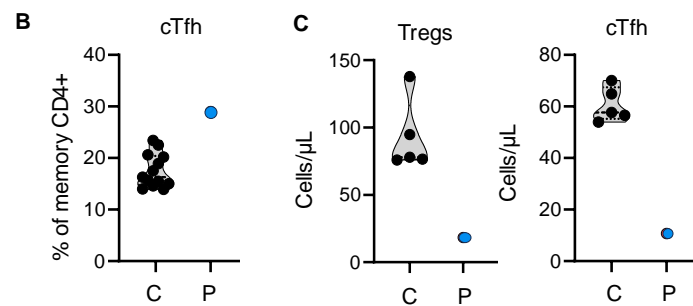
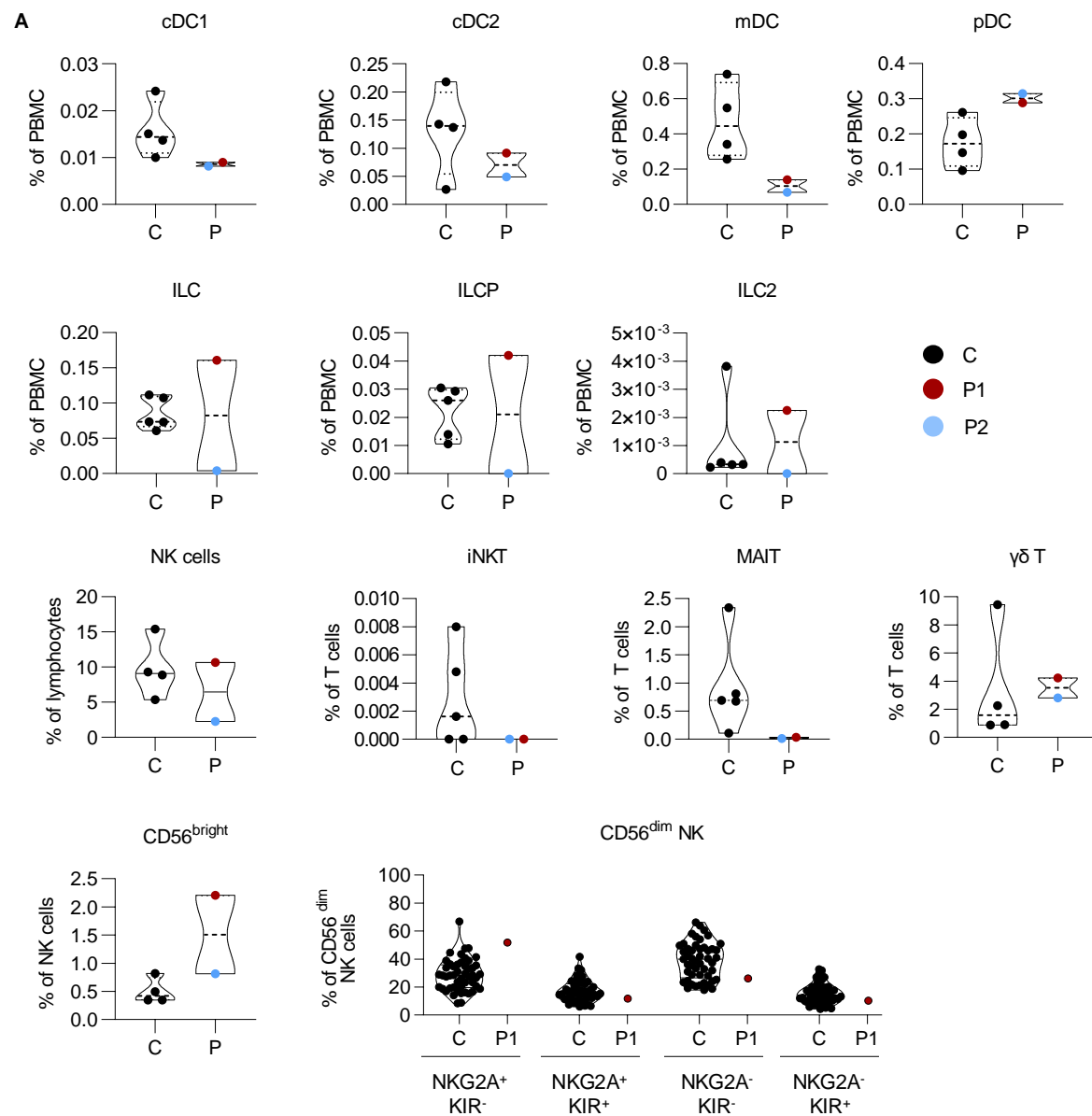


Supplementary Figure 4

Enriched auto-Abs in patients with AR ReIB deficiency

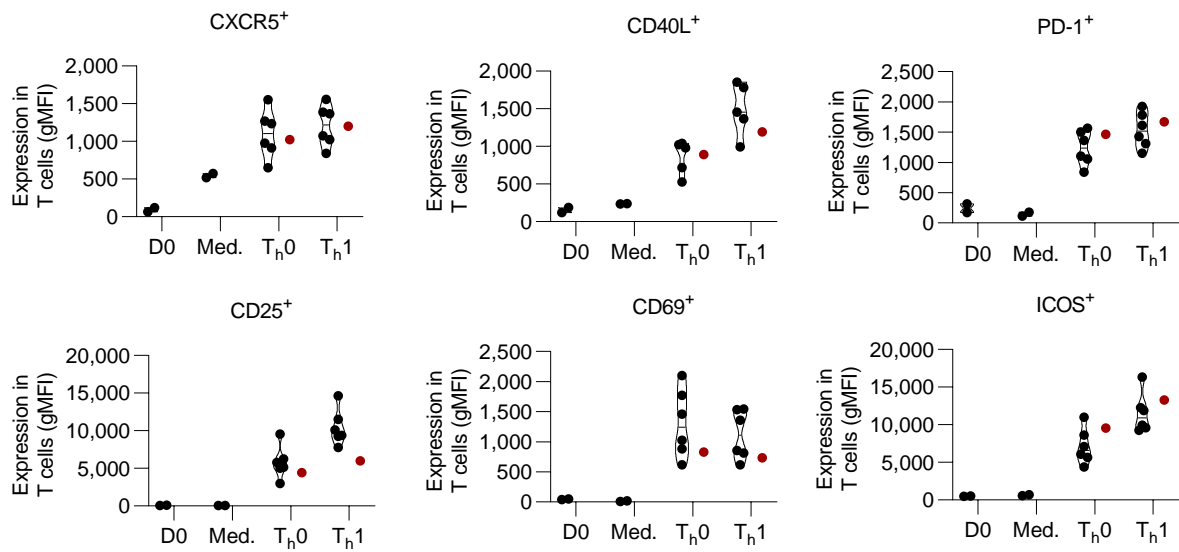


Supplementary Figure 5

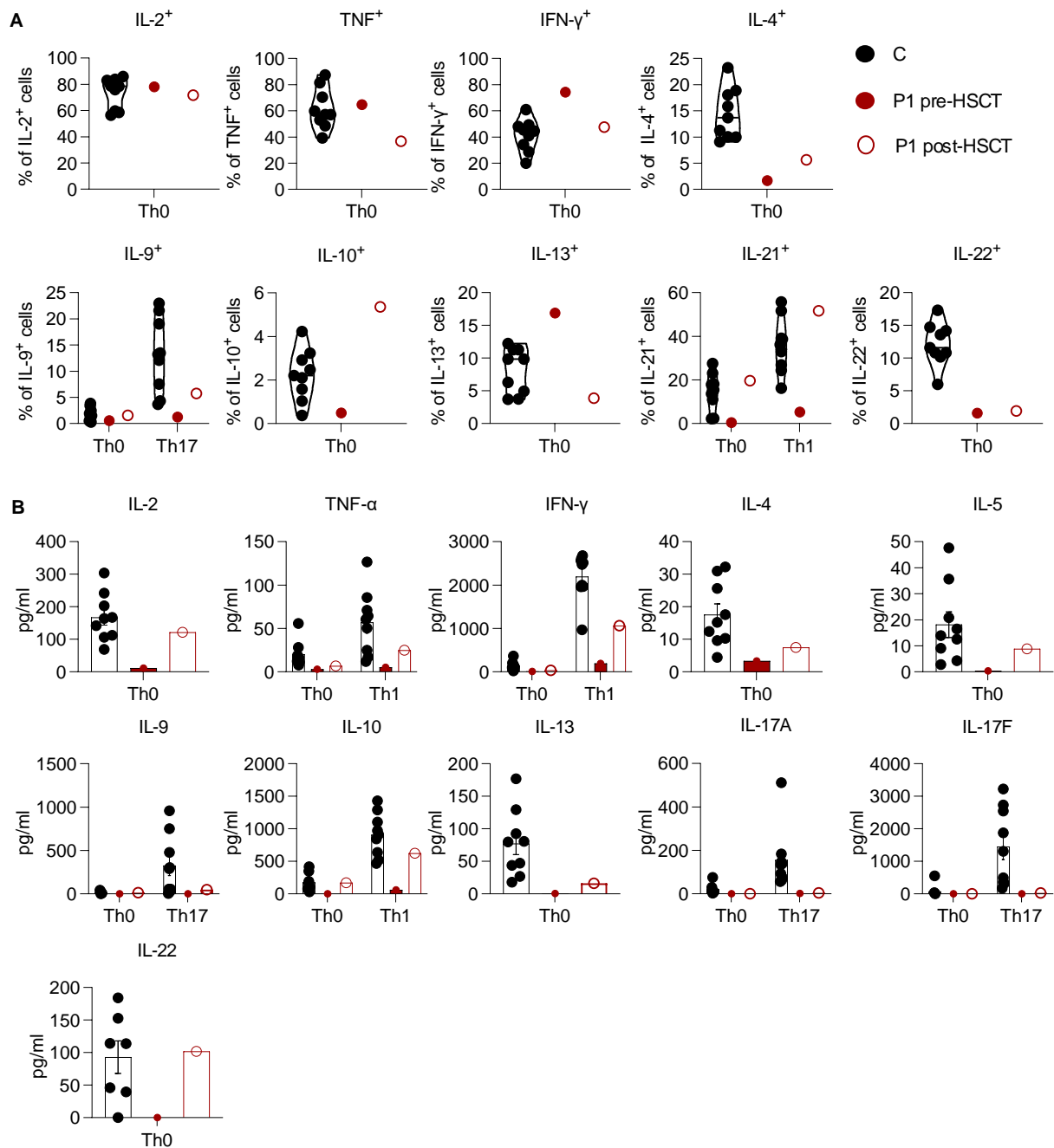


Supplementary Figure 6

● C ● P1 pre-HSCT



Supplementary Figure 7



Supplementary Figure 8

