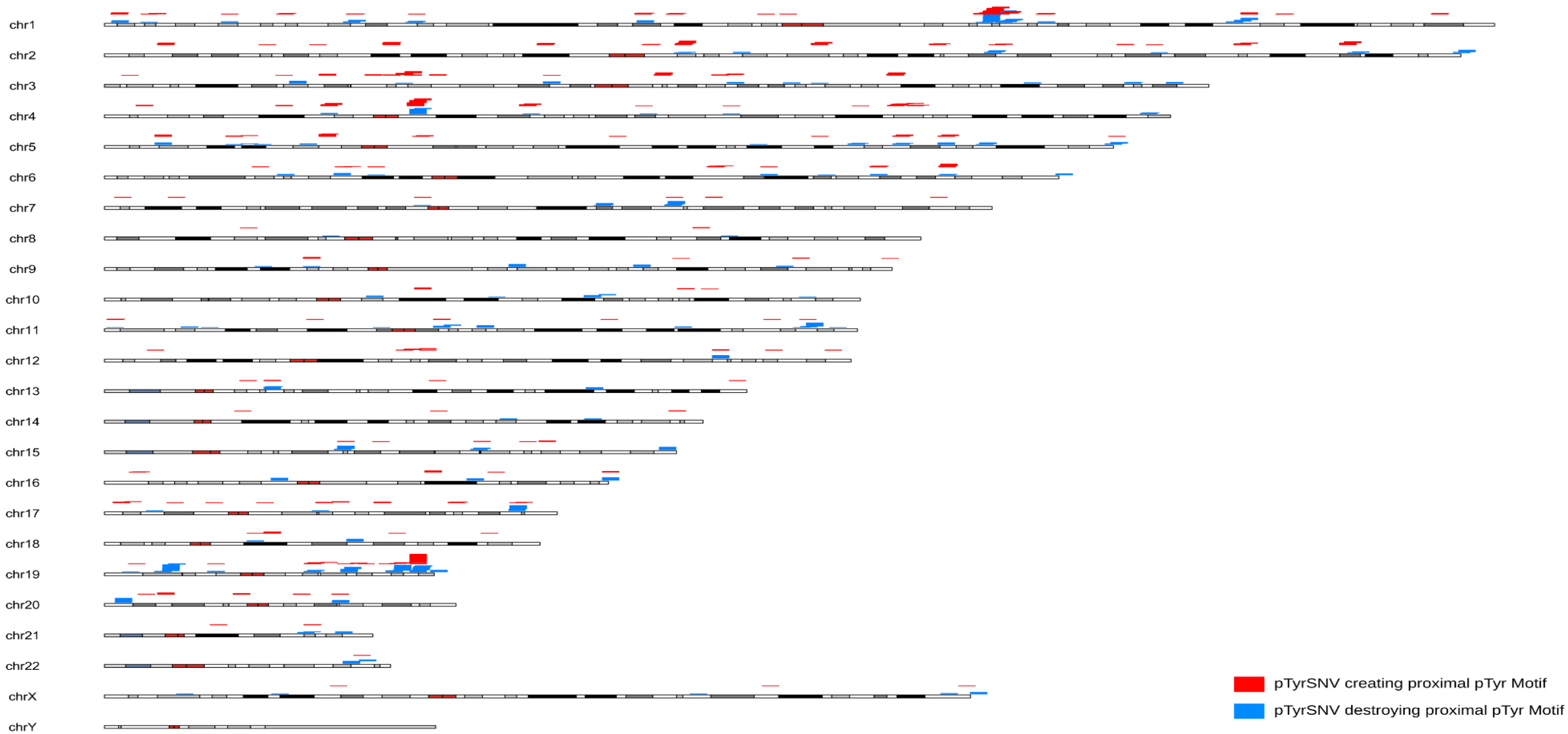

Figure-5. Illustration of pTyr-SNVs in the human genome as karyotype plot. The loci in the human genome where pTyr-SNV alleles create or delete a pTyr-based proximal signalling motif, including the STAT3-recruiting SeSNV allele, are shown in this karyotype plot. Red rectangles indicate variants that create pTyr motifs, while blue rectangles indicate variants that delete pTyr motifs. The colouring is not to scale, as the precise locations and the receptors harbouring these alleles are not intended to be disclosed.