Supplementary Data 1 Multi-omic and phenotypic data from X-linked mutants

- a) Sample information from E12.5 F1 embryos
- b) Sample information from adult (6 weeks) body map
- c) ATAC-seq analysis of male and female organs
- d) Oligo information and Sanger sequencing for genotype verification of KO strains
- e) Differential gene expression analysis in placenta
- f) Allele-specific expression analysis in the placenta
- g) Allele-specific single-cell expression analysis in the adult spleen
- h) Differential gene expression analysis for the TKO bodymap
- i) Significant differentially expressed genes in the TKO and Firre-Dxz4 bodymap
- j) Differentially expressed genes in the TKO bodymap
- k) Top 100 gene sets from gene set enrichment analysis of the TKO bodymap
- I) Differentially expressed genes in the spleen of mutant strains
- m) Shared differentially expressed genes in the spleen
- **n**) Gene set enrichment analysis results in the spleen
- o-q) German Mouse Clinic TKO phenotype results
- **r-s**) Expression tables (TPM)