



Supplementary Figure 1. Overview of the hepato-tropic AAV and pre-clinical liver model comparison. (a) AAVs chosen for this study based on their use in clinical trials or expected high performance in human hepatocytes based on previous studies and their amino acid identity. (b) Human and simian *in vitro* and *ex vivo* models of hepatocytes. (c) Human and simian *in vivo* models of hepatocytes. (d) Evaluation of antibody titres in human population for all six AAV variants included in the study. Abbreviations: AAV: adeno-associated virus; aa: amino acid; FRG: *Fah*^{-/-}/*Rag2*^{-/-}/*Il2rg*^{-/-}; NHP: non-human primate