



Fig. S1. Assessment that AAV-mediated IR isoforms expression is liver specific. A) RT-PCR analysis of IR isoforms expression in liver. *Upper panel*, RT-PCR of mouse *Insr* gene in STD (n=2); HFD (n=3); HFD-GFP (n=3); HFD-IRA (n=3) and HFD-IRB mice (n=3); *middle panel*, RT-PCR of human *INSR* gene in STD (n=2); HFD (n=3); HFD-GFP (n=3); HFD-IRA (n=3) and HFD-IRB mice (n=3); *lower panel*, RT-PCR of human *INSR* gene in HFD-IRA (n=8) and HFD-IRB mice (n=7). B) RT-PCR of human *INSR* gene in pancreas from HFD-IRA (n=8) and HFD-IRB mice (n=7). C) RT-PCR of human *INSR* gene in kidney from HFD-IRA (n=8) and HFD-IRB mice (n=7). Hepatic samples of HFD-IRA and HFD-IRB mice were used as positive controls (P.C.).