

## **S Fig 1. Experimental design**

Euthanasia was performed between postnatal (PN) day 63 and 70. LFD: 16% energy from fat (AIN-93G, D10012G, Research Diets). HFD: 45% energy from fat (D12451, Research Diets). Plasma lipid cohorts: Cohorts for measuring the rate of lipid absorption. Organ cohorts: Cohorts for measuring tissue concentrations of absorbed lipids. I.P. polox: intraperitoneal injection with poloxamer 407 (1 g/kg BW in ~200 µl sterile PBS). Gavage: intragastric administration of 100 µl oil containing stable-isotope-labelled lipid tracers. n = 12 in LFD arms, n=16 in HFD arms.