Local-eQTL correlated in all three tissues Liver Lung Cox7c expression data **Kidney** Cox7c founder effects DEq = 6.25e-19DE q = 5.41e-1875 50 Liver vs lung: r = 0.96Liver vs kidney: r = 0.97Lung vs kidney: r = 0.93Cox7c A/J **B6** Cox7c association 129 Analysis LC (FDR \leq 0.1) Analysis LC (FDR \leq 0.1) Analysis LC (FDR ≤ 0.1) NOD NZO -log₁₀P **CAST PWK WSB 75 75** 80 85 90 100 80 85 90 95 100 **75** 80 85 90 95 100 Chr 13 (Mb) Chr 13 (Mb) Chr 13 (Mb) -0.6 -0.2 0.2 0.6 **Haplotype effects Ubc** expression data DE q = 0.022**Ubc** founder effects Liver vs lung: r = 0.94Liver vs kidney: r = 0.93Lung vs kidney: r = 0.97CAST A/J **B6 Ubc** association 129 Analysis G (FDR ≤ 0.1) Analysis G (FDR \leq 0.1) Analysis G (FDR ≤ 0.1) NOD 10

B Local-eQTL correlated in lung and kidney, and uncorrelated in liver

110 115 120 125 130 135

Chr 5 (Mb)

-log₁₀P

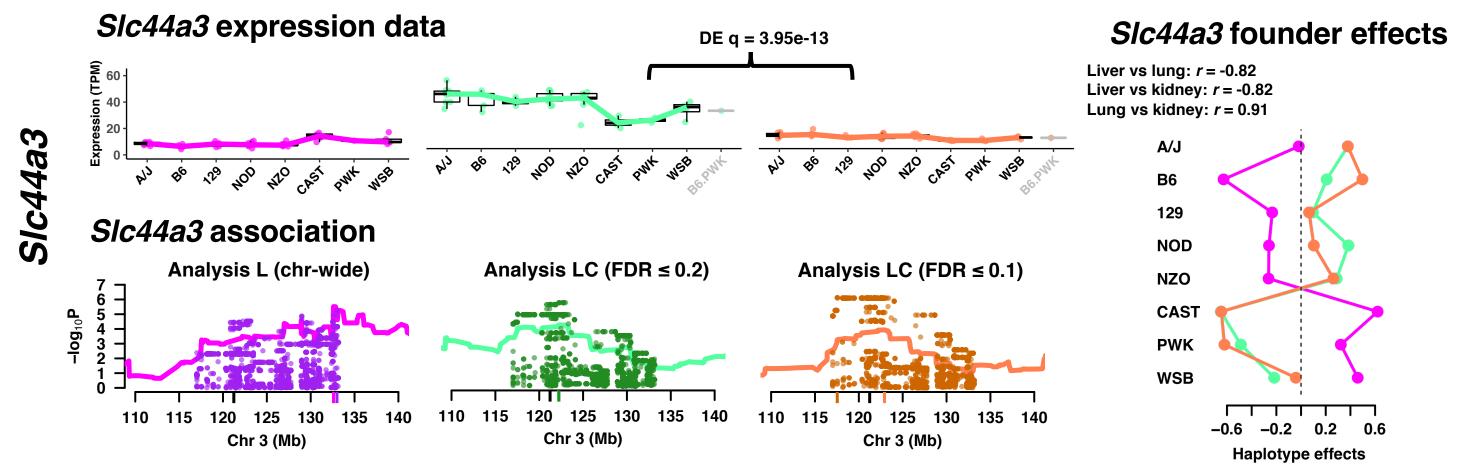
6

110 115 120 125 130

Chr 5 (Mb)

135

140



140

110 115 120 125 130 135 140

Chr 5 (Mb)

NZO

CAST

PWK

WSB

-0.6 -0.2 0.2 0.6 Haplotype effects