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 = 0.97A/J Lung vs kidney: r = 0.93Cox7c **B6** 129 **NOD** Cox7c association **NZO** Method 2 (FDR \leq 0.1) Method 2 (FDR \leq 0.1) Method 2 (FDR \leq 0.1) **CAST PWK WSB 75** 90 **75** 80 85 90 95 100 **75** 80 85 90 95 100 80 85 95 100 -0.2 0.2 0.6 Chr 13 (Mb) Chr 13 (Mb) Chr 13 (Mb) Allele effects **Ubc** expression data **Ubc** founder effects DEq = 0.022Liver vs lung: r = 0.94Liver vs kidney: r = 0.93Lung vs kidney: r = 0.97A/J CAST **B6 Ubc** association 129 NOD Method 1 (FDR \leq 0.1) Method 1 (FDR \leq 0.1) Method 1 (FDR \leq 0.1)

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

110 115 120 125 130

Chr 5 (Mb)

135

140

110 115 120 125 130 135 140

Chr 5 (Mb)

10

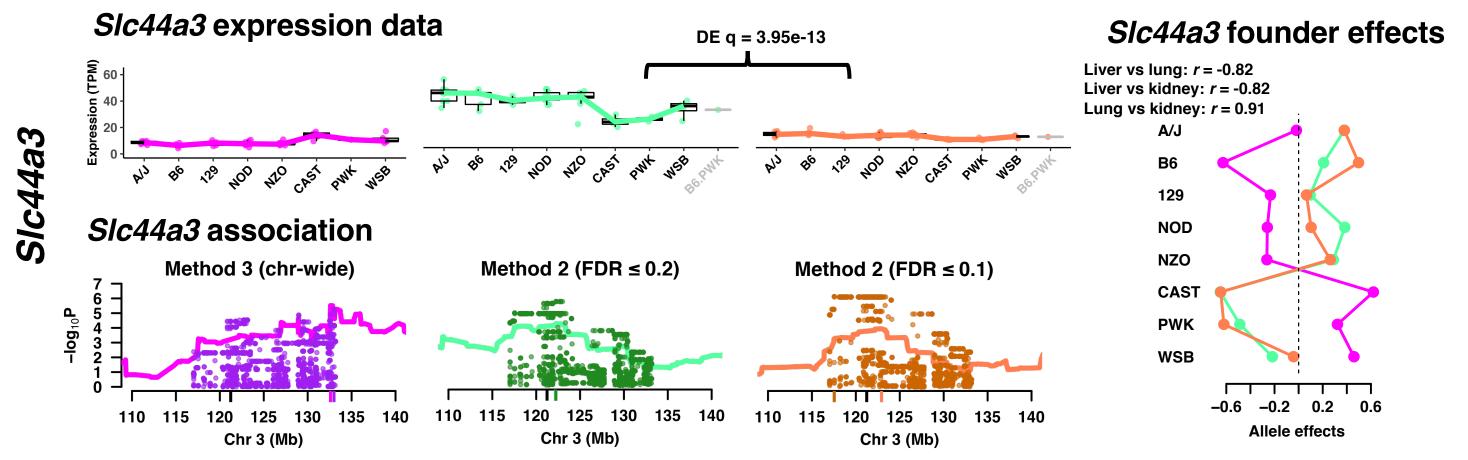
110 115 120 125 130

Chr 5 (Mb)

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140

-log₁₀P



NZO

CAST

PWK

WSB

-0.2 0.2 Allele effects