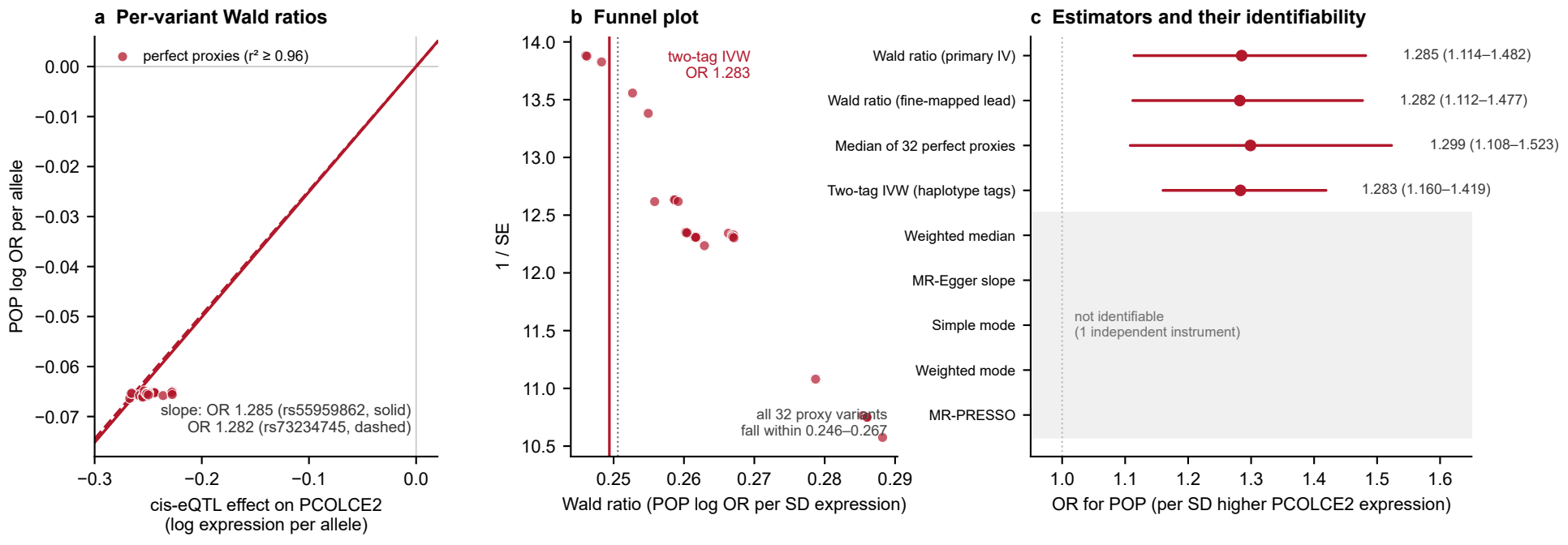

a Per-variant Wald ratios
perfect proxies (r² ≥ 0.96)
slope: OR 1.285 (rs55959862, solid)
OR 1.282 (rs73234745, dashed)
POP log OR per allele
cis-eQTL effect on PCOLCE2
(log expression per allele)
b Funnel plot
two-tag IVW
OR 1.283
all 32 proxy variants
fall within 0.246–0.267
1 / SE
Wald ratio (POP log OR per SD expression)
c Estimators and their identifiability
Wald ratio (primary IV)
Wald ratio (fine-mapped lead)
Median of 32 perfect proxies
Two-tag IVW (haplotype tags)
Weighted median
MR-Egger slope
Simple mode
Weighted mode
MR-PRESSO
1.285 (1.114–1.482)
1.282 (1.112–1.477)
1.299 (1.108–1.523)
1.283 (1.160–1.419)
not identifiable
(1 independent instrument)
OR for POP (per SD higher PCOLCE2 expression)