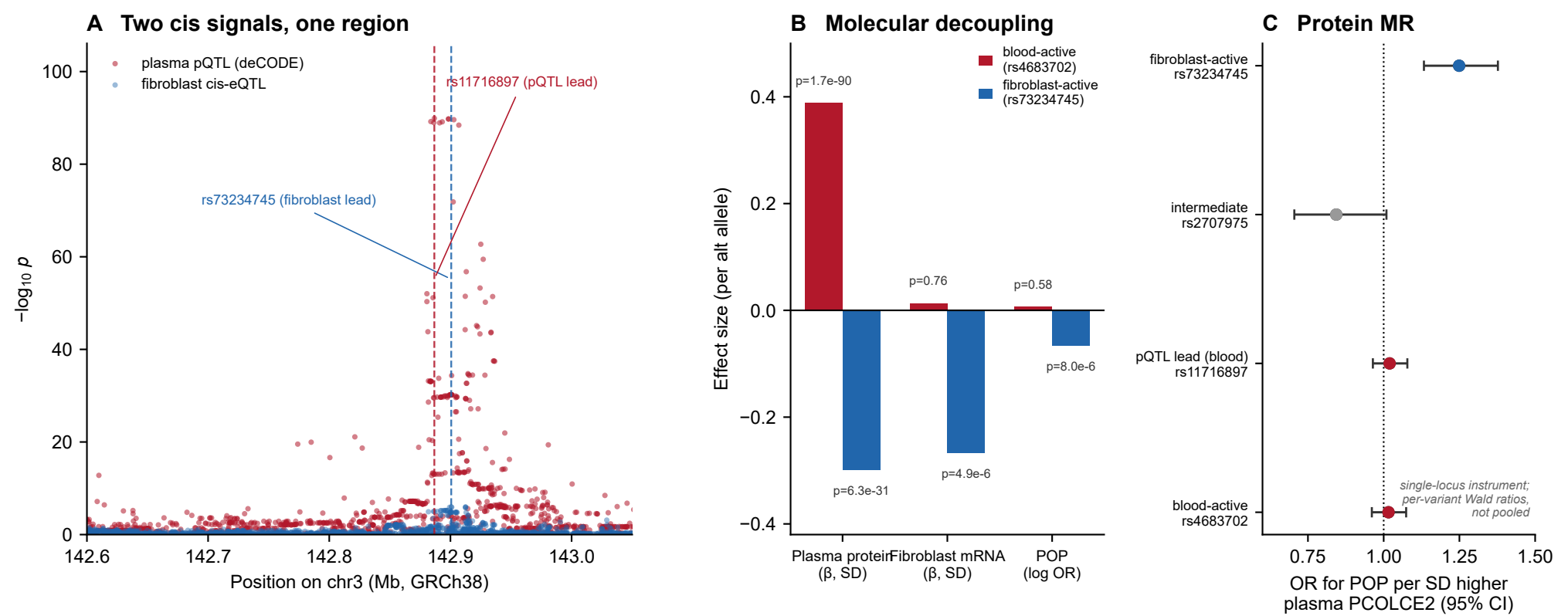

A Two cis signals, one region
plasma pQTL (deCODE)
fibroblast cis-eQTL
rs11716897 (pQTL lead)
rs73234745 (fibroblast lead)
−log10 p
100
80
60
40
20
0
142.6
142.7
142.8
142.9
143.0
Position on chr3 (Mb, GRCh38)
B Molecular decoupling
blood-active (rs4683702)
fibroblast-active (rs73234745)
Effect size (per alt allele)
0.4
0.2
0.0
−0.2
−0.4
p=1.7e-90
p=6.3e-31
p=0.76
p=4.9e-6
p=0.58
p=8.0e-6
Plasma protein (β, SD)
Fibroblast mRNA (β, SD)
POP (log OR)
C Protein MR
fibroblast-active rs73234745
intermediate rs2707975
pQTL lead (blood) rs11716897
blood-active rs4683702
single-locus instrument; per-variant Wald ratios, not pooled
0.75
1.00
1.25
1.50
OR for POP per SD higher plasma PCOLCE2 (95% CI)