

**Fig. S1**

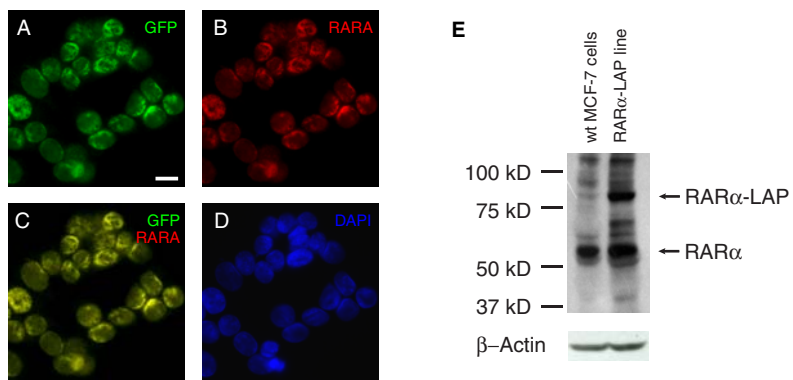
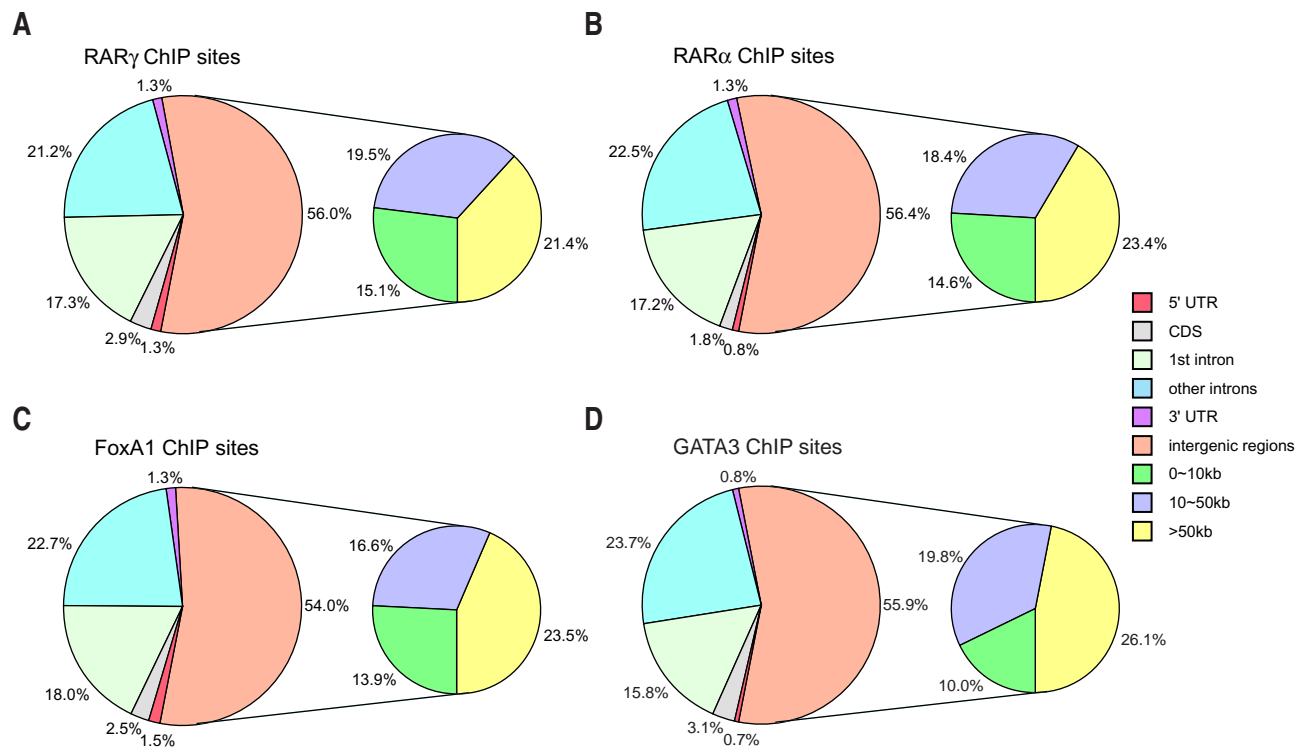


Fig. S2



**Fig. S3**

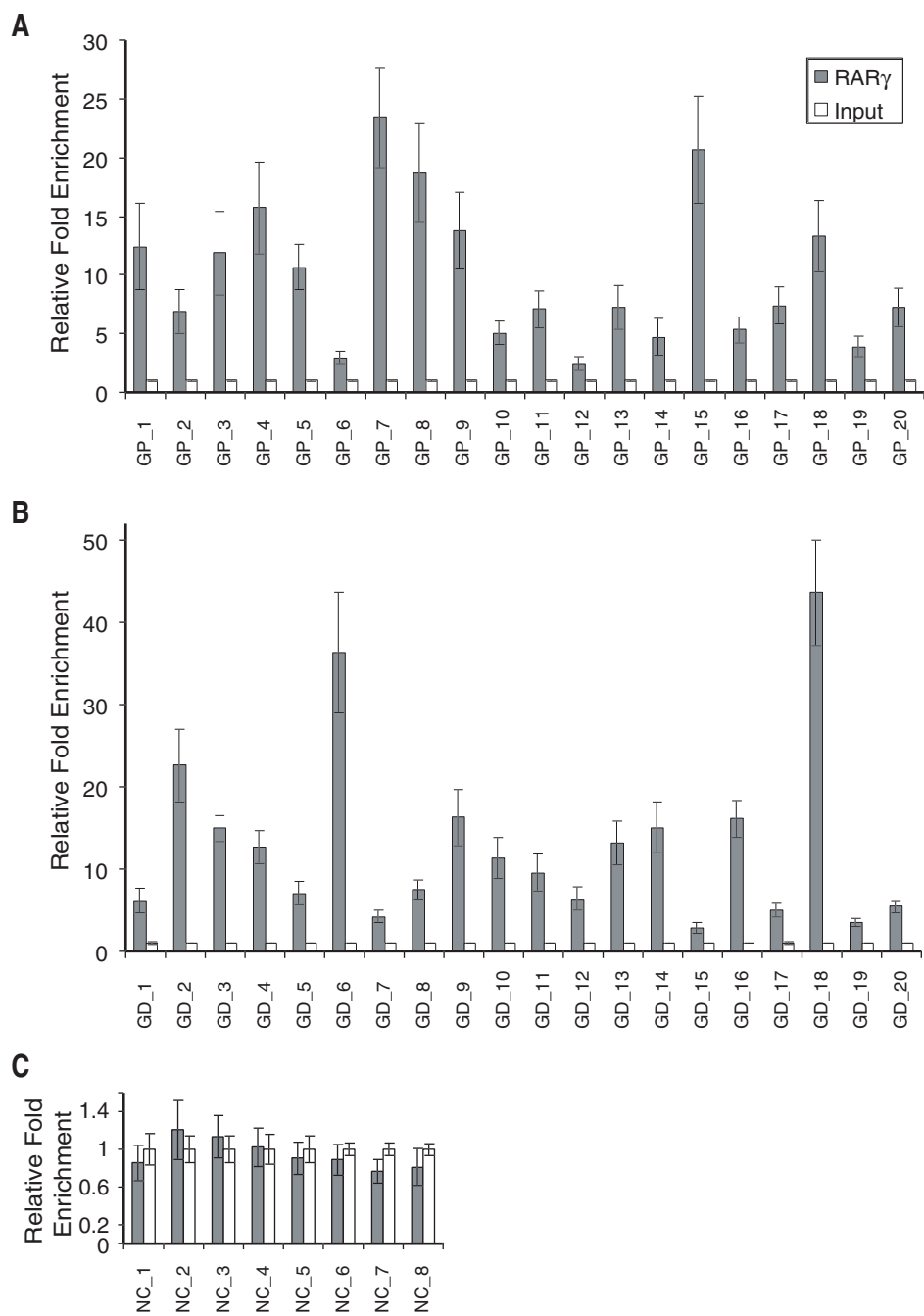
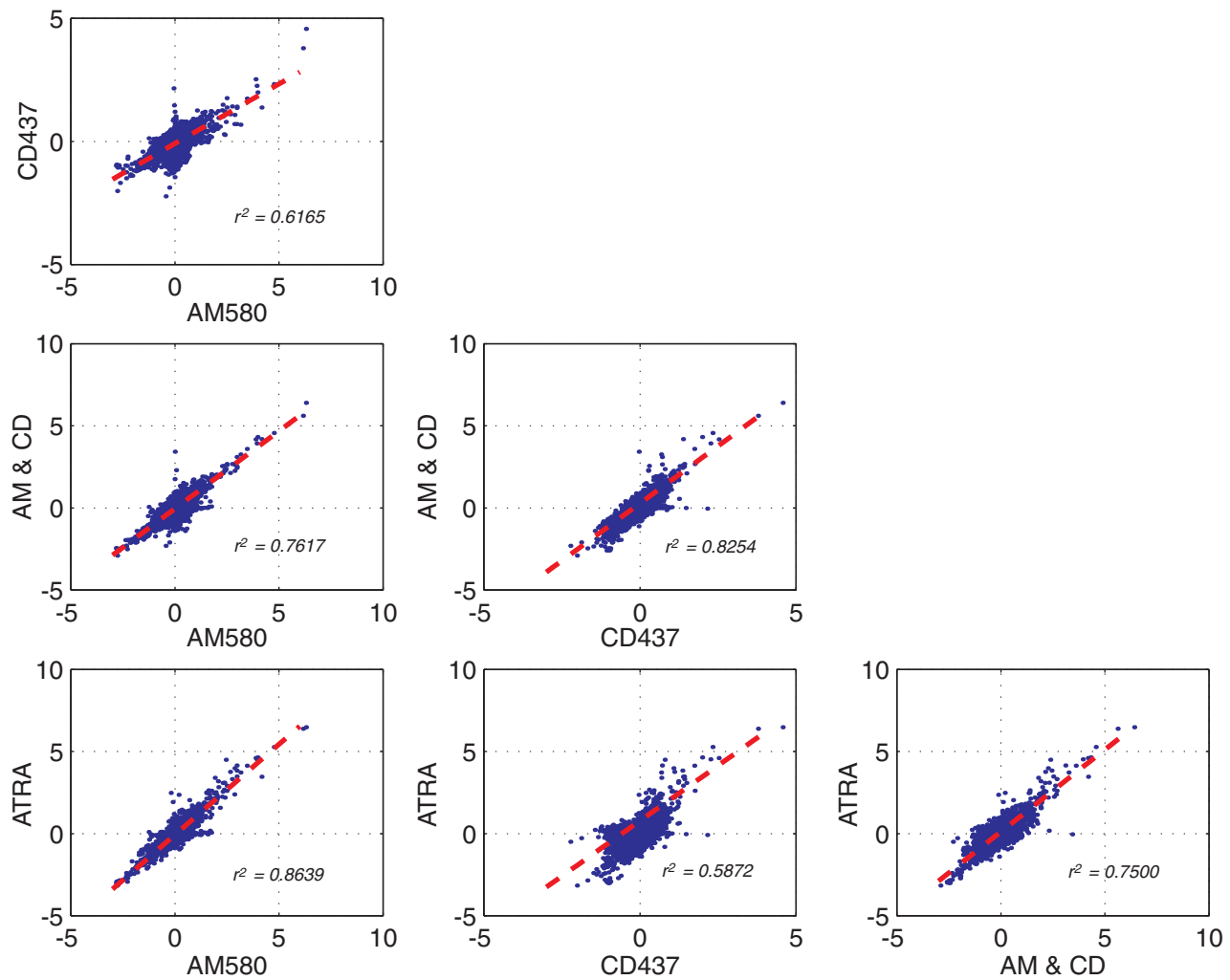


Fig. S4



**Fig. S5**

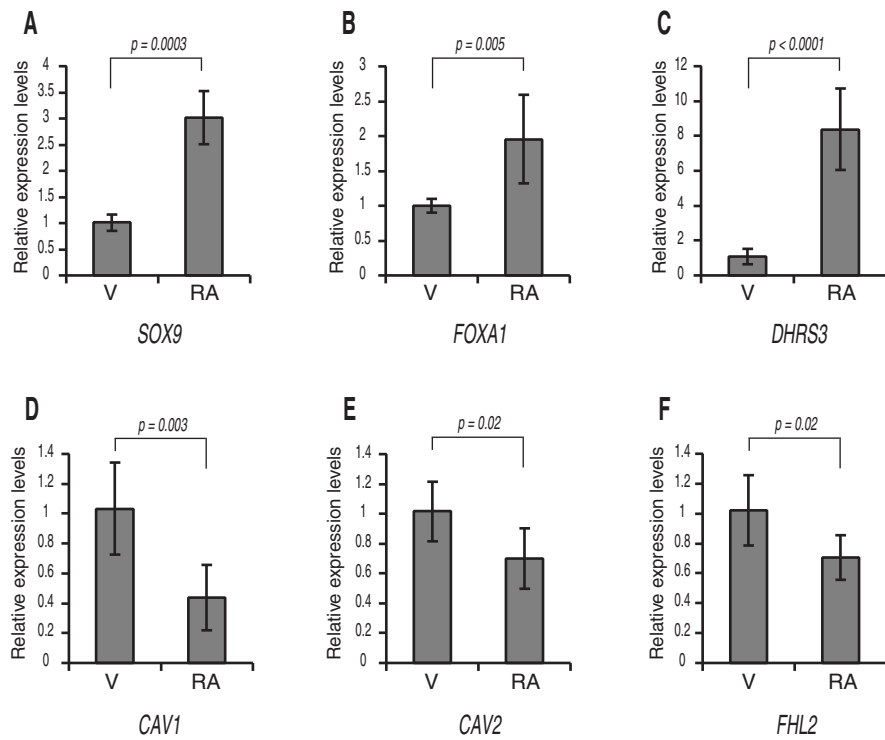
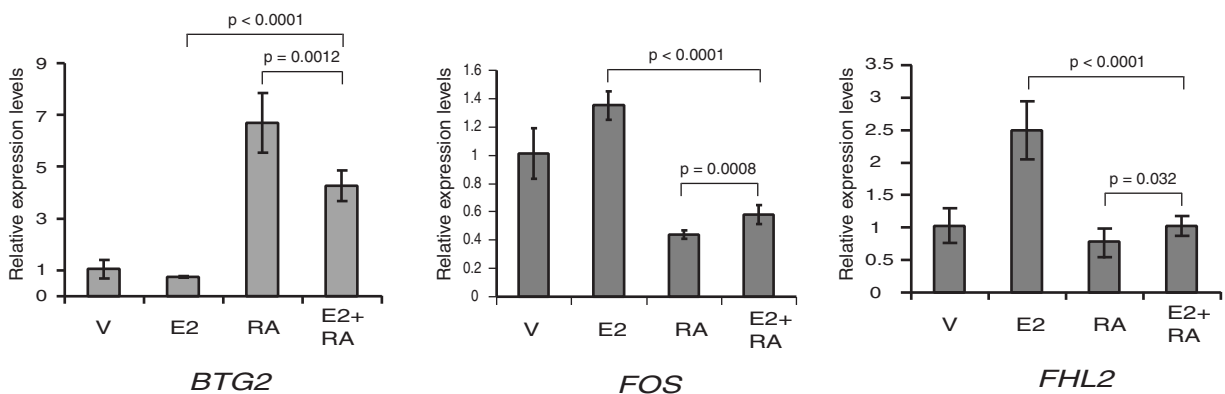


Fig. S6

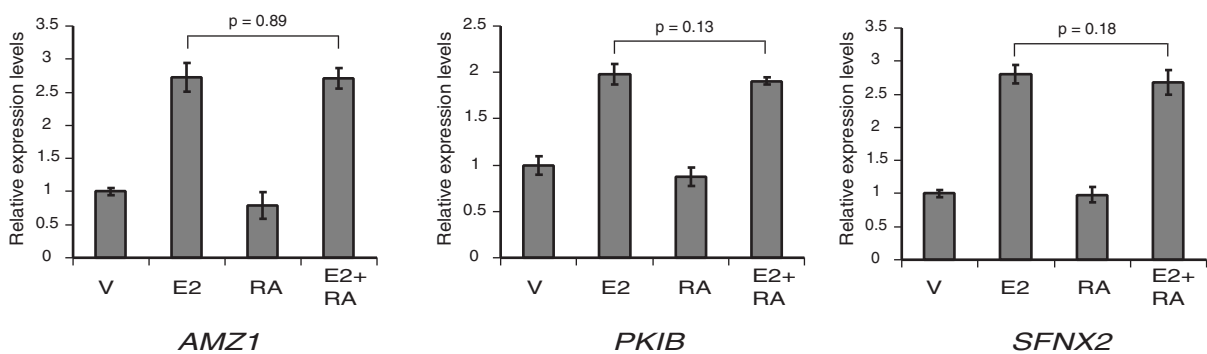
**A**

**RAR and ER $\alpha$  common targets**



**B**

**ER $\alpha$  direct targets only**



**C**

**RAR direct targets only**

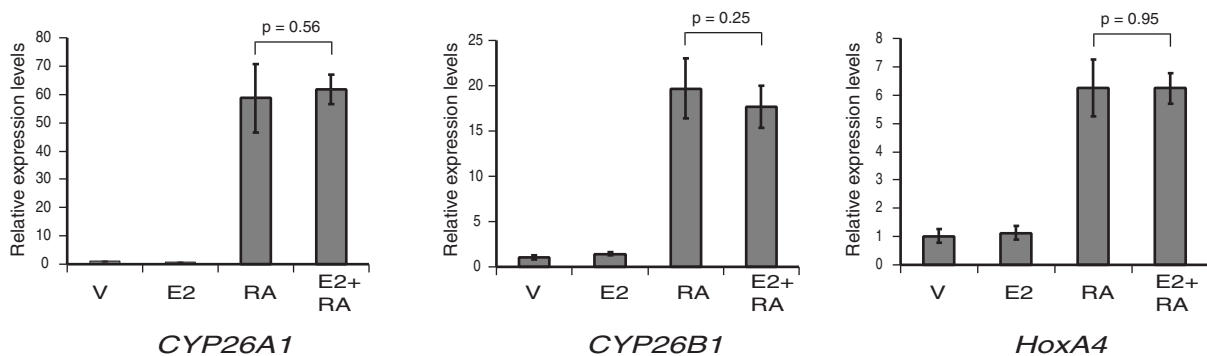
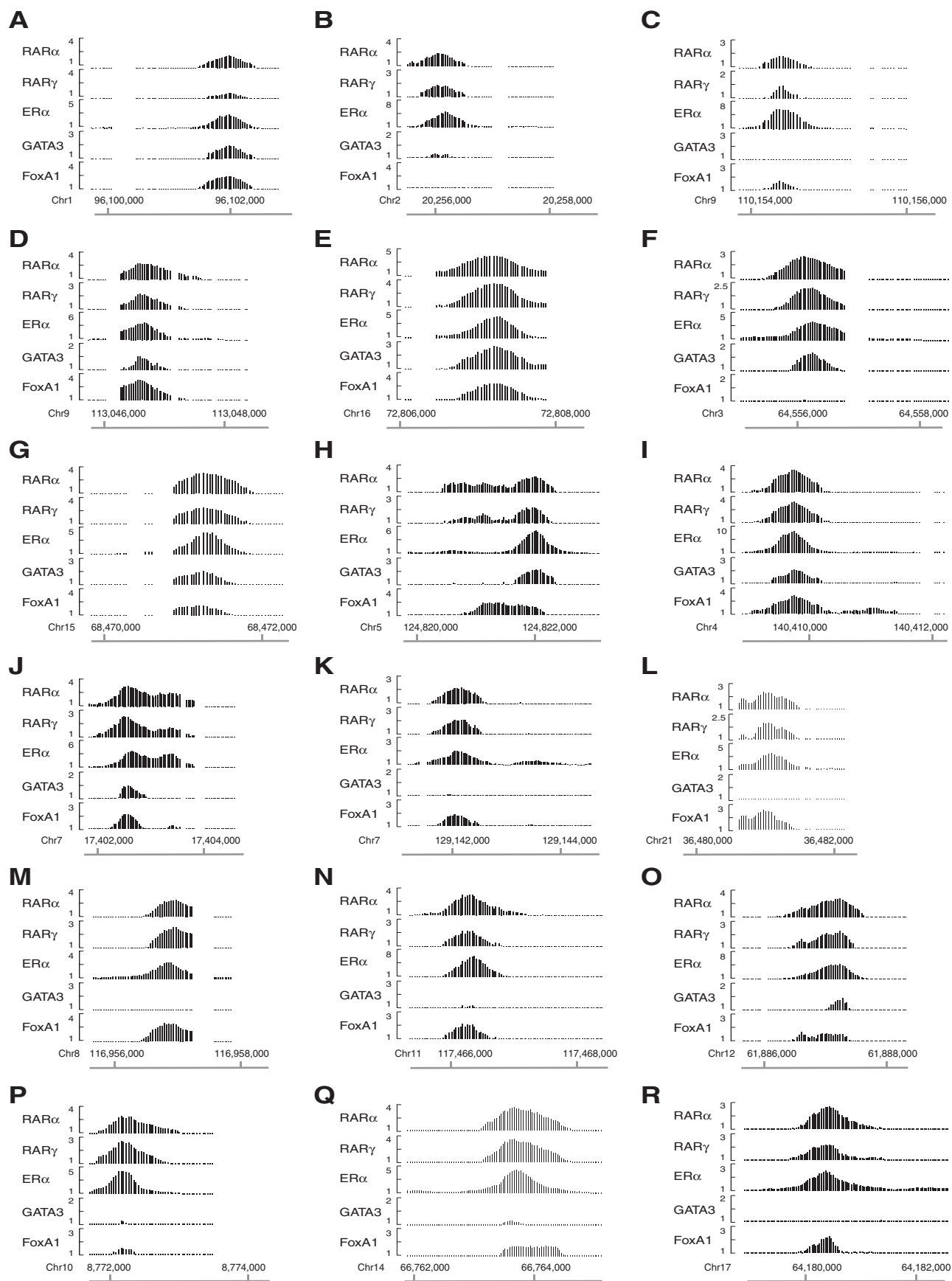
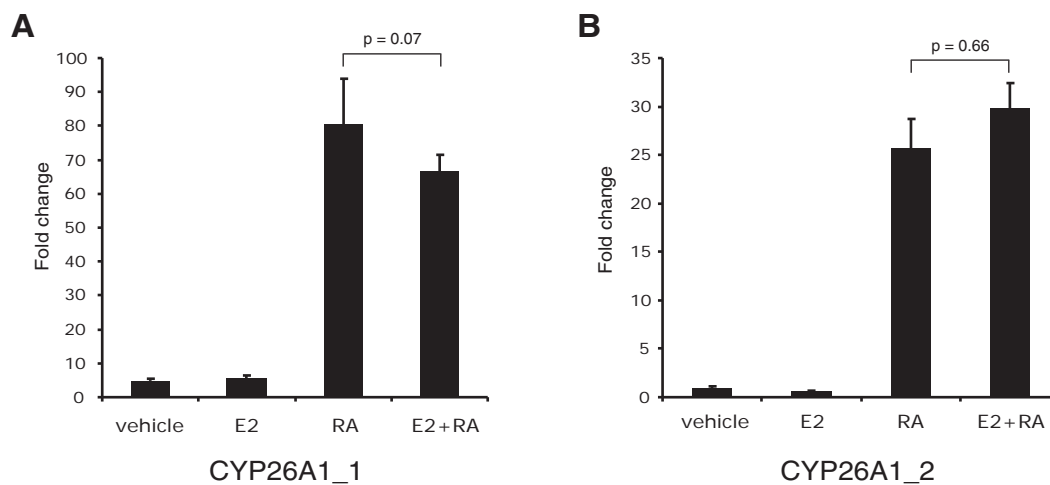


Fig. S7

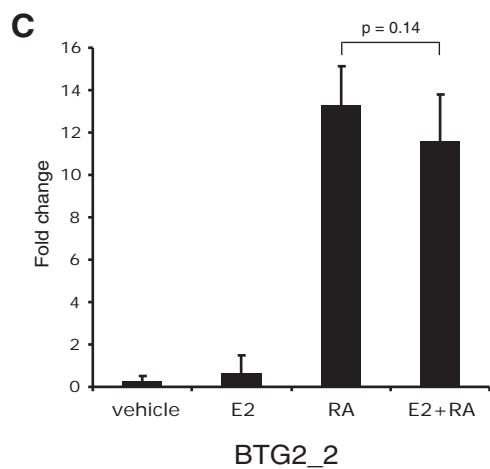


**Fig. S8**

**RAR direct targets only**



**RAR and ER $\alpha$  common targets (E2 down-regulated, RA up-regulated)**



**RAR and ER $\alpha$  common targets (E2 up-regulated, RA down-regulated)**

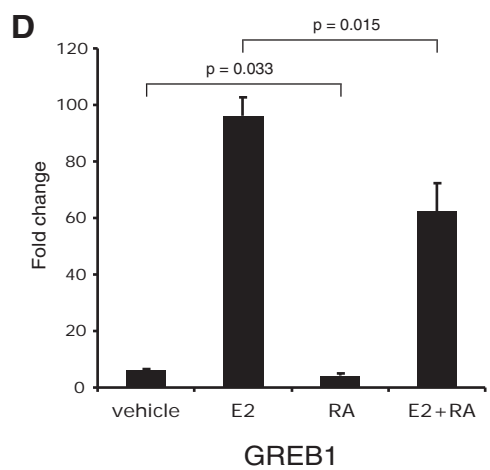




Fig. S9

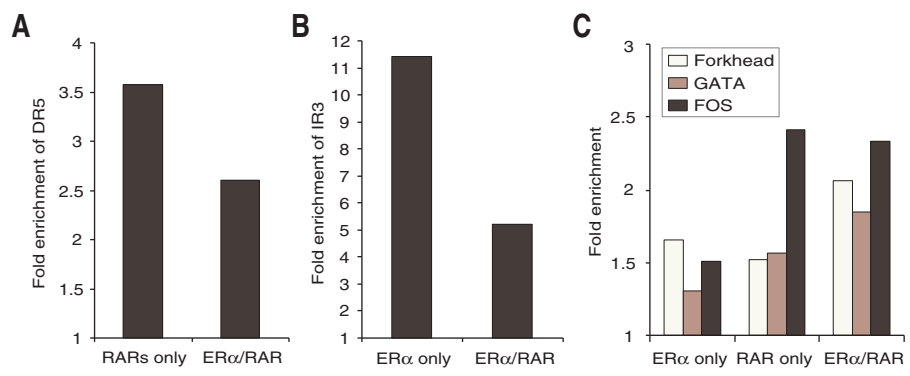


Fig. S10

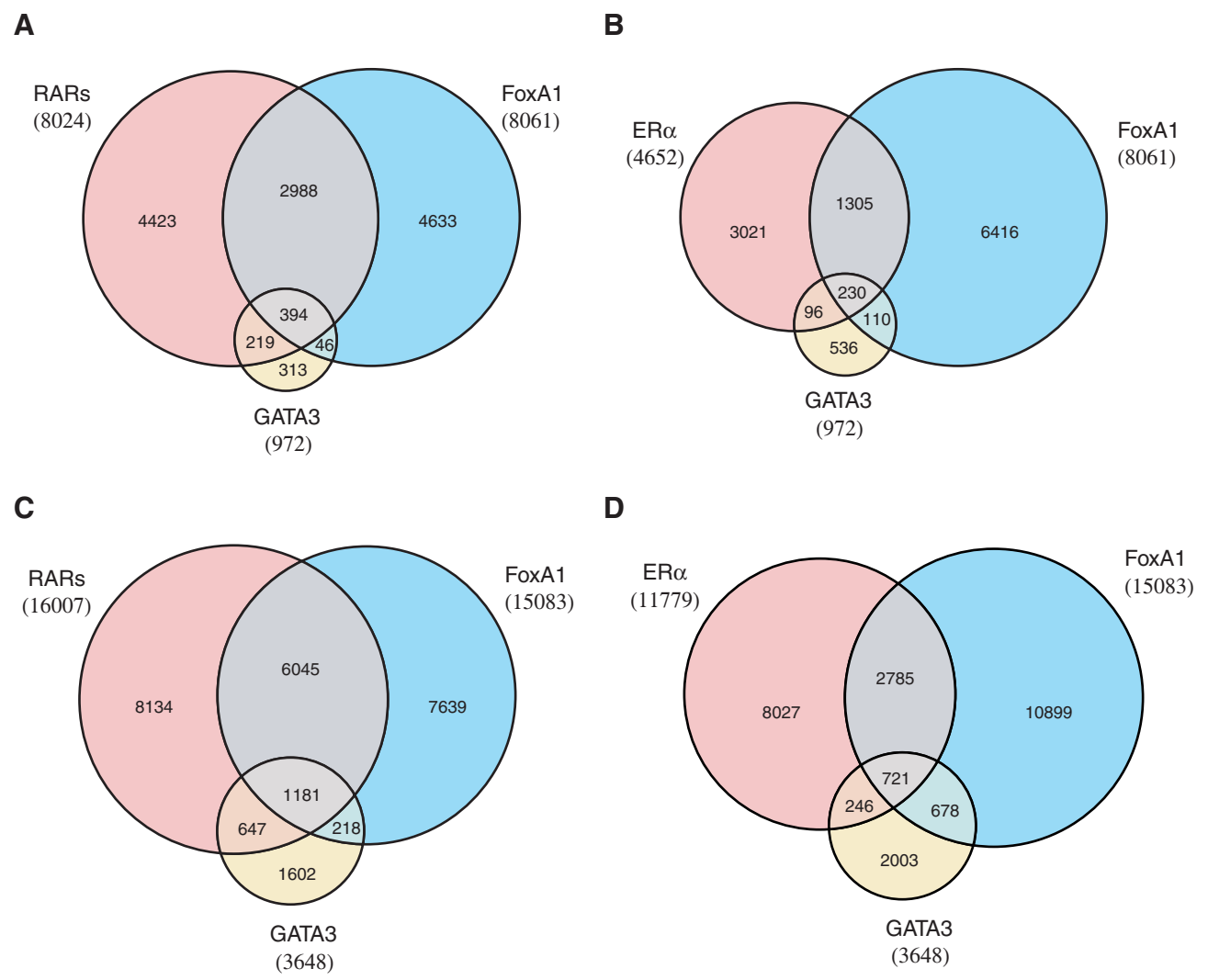
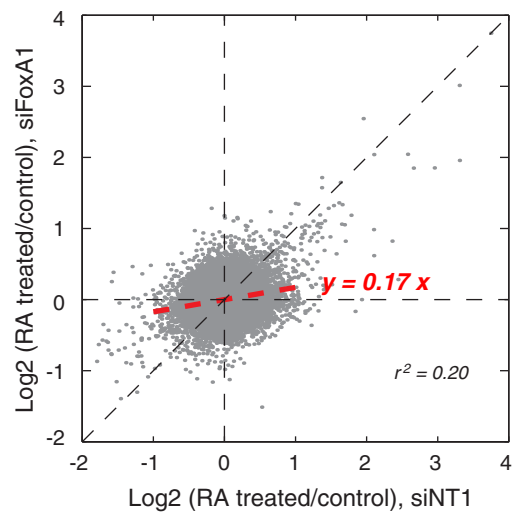


Fig. S11

**A**



**B**

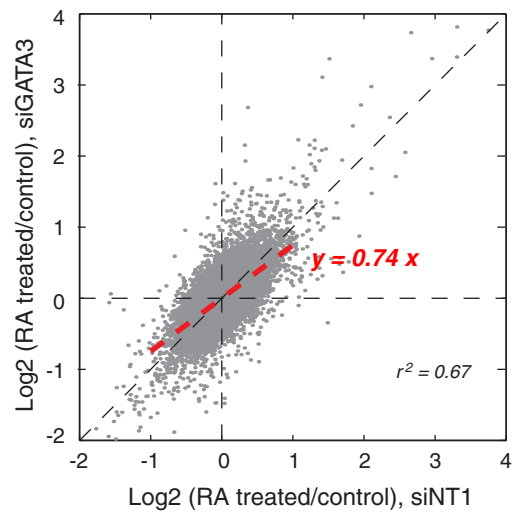


Fig. S12

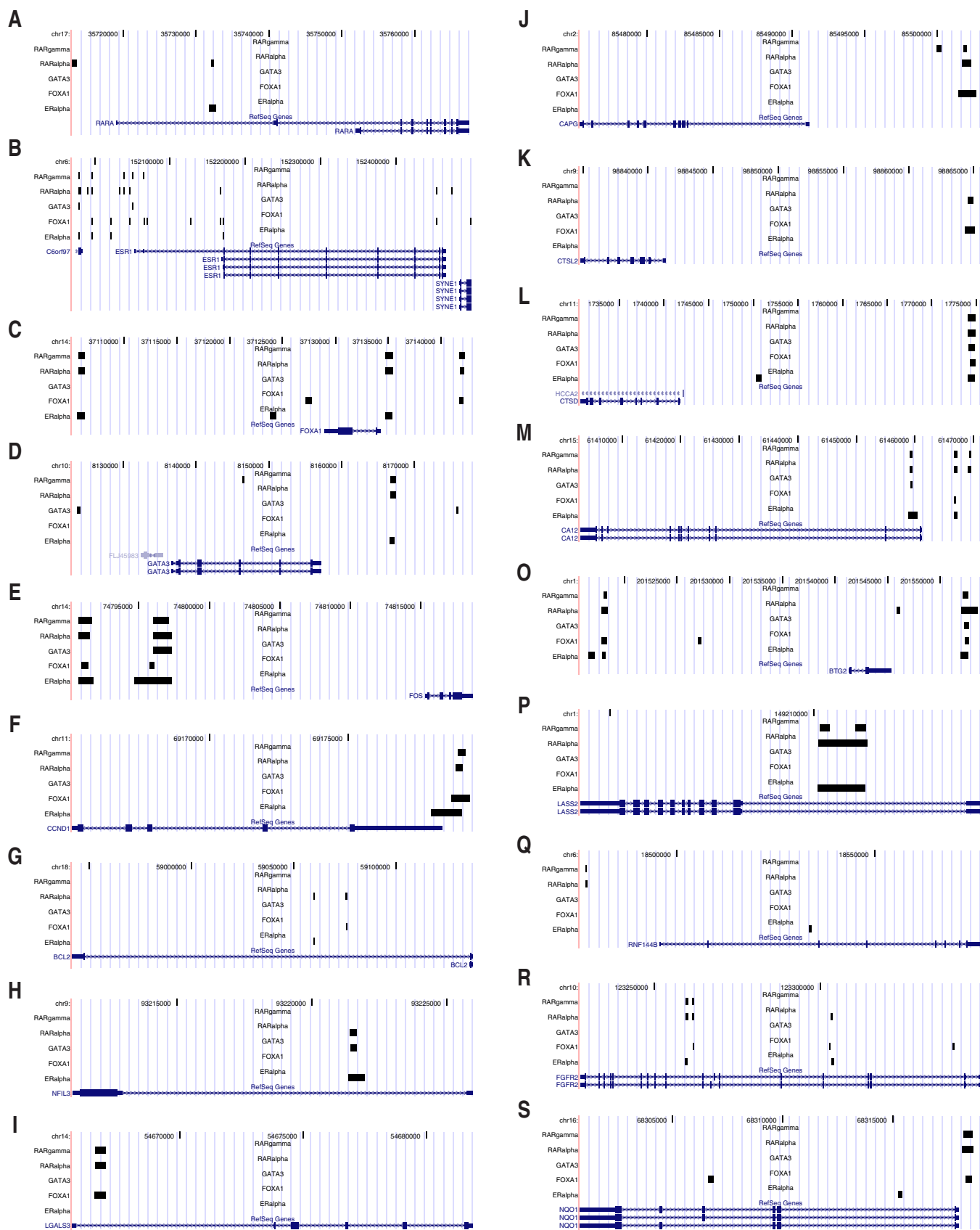
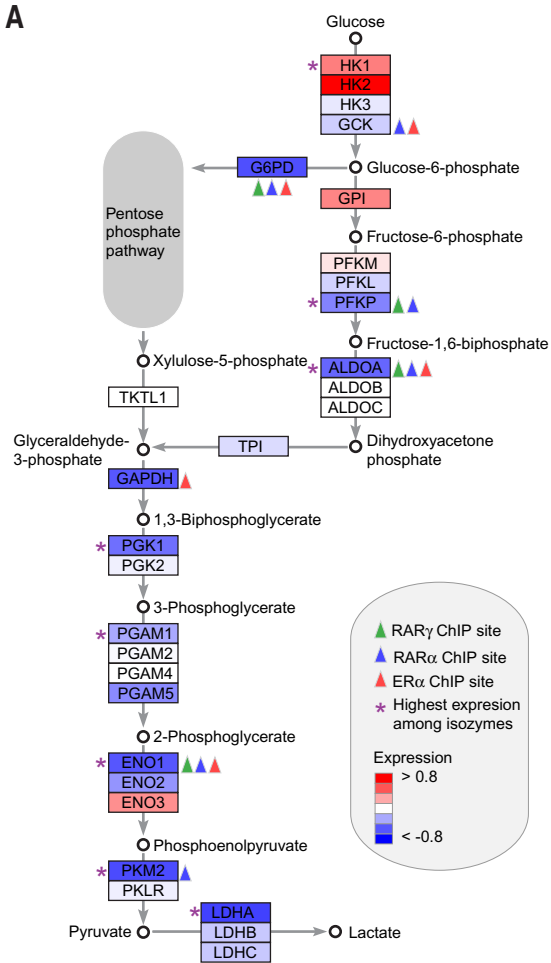
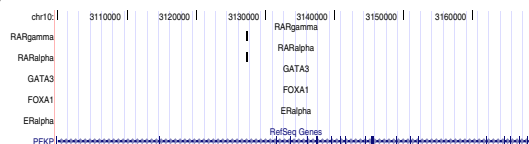


Fig. S13

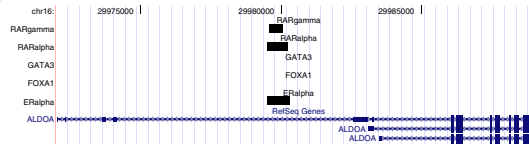
A



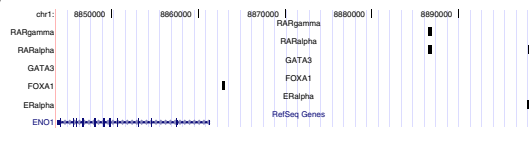
B



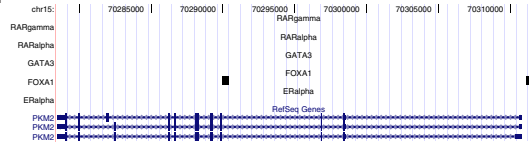
C



D



E



F

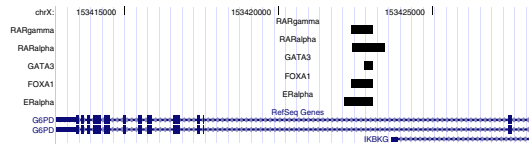


Fig. S14

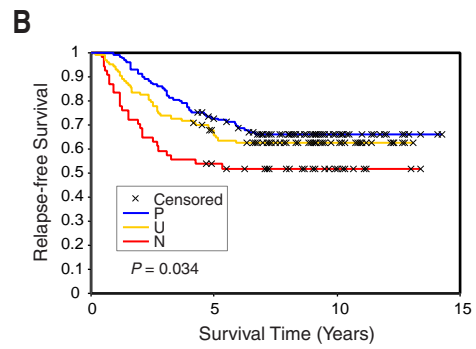
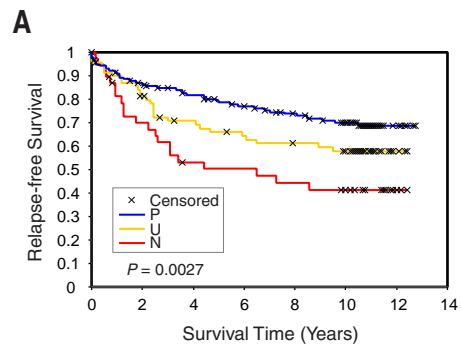


Fig. S15

