

ENCODE SPP peaks

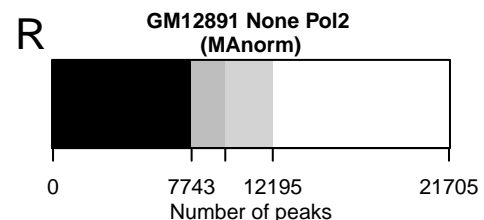
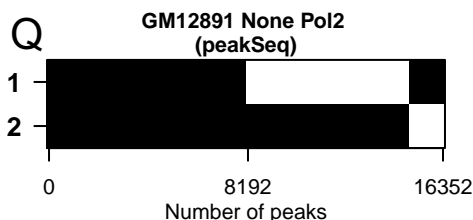
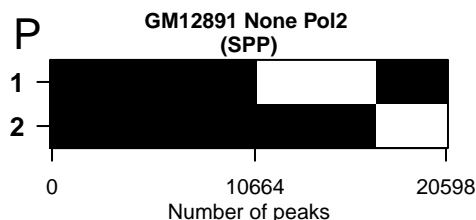
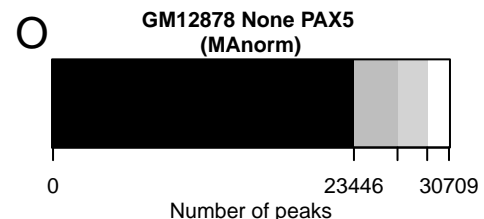
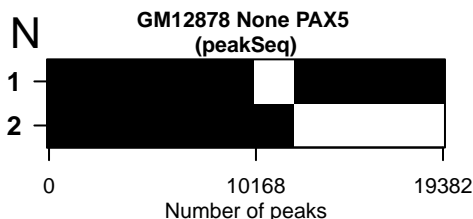
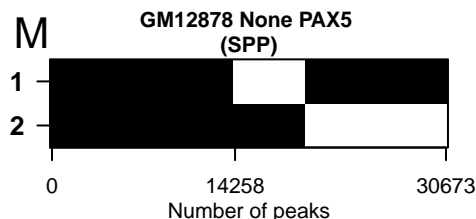
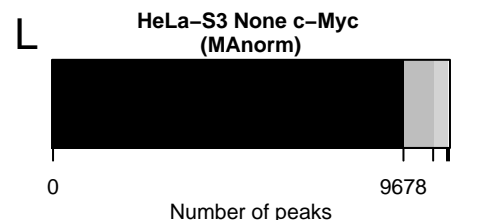
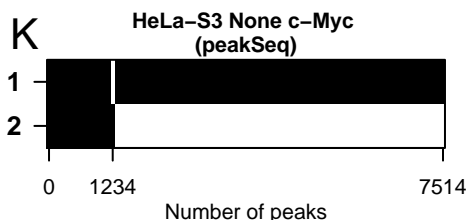
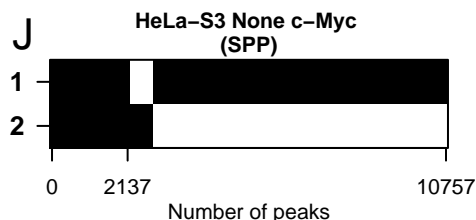
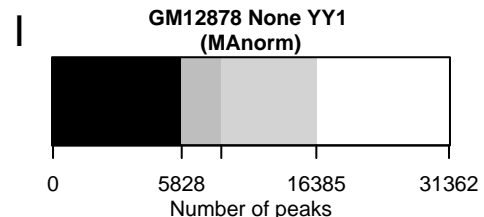
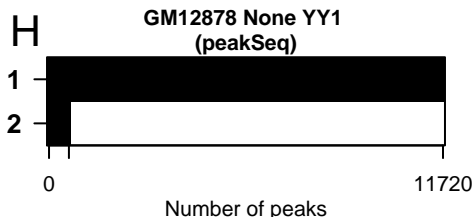
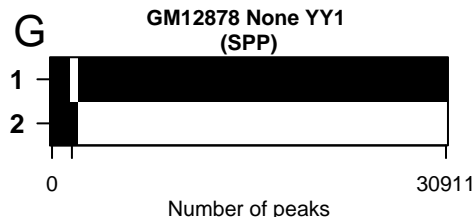
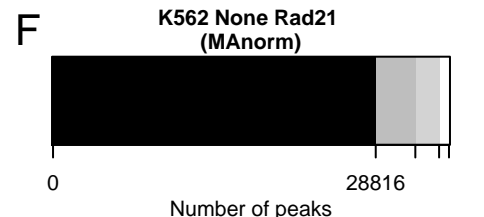
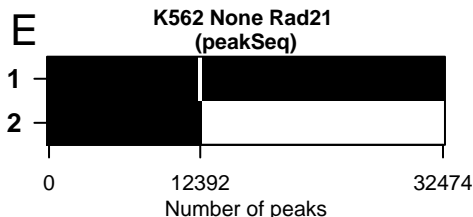
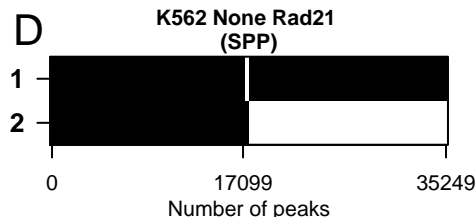
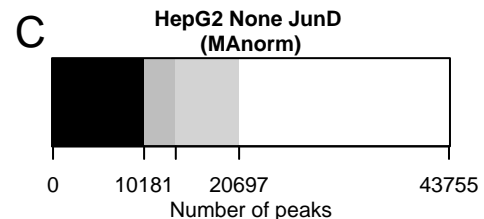
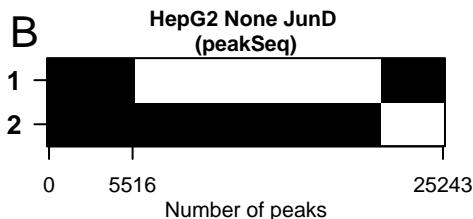
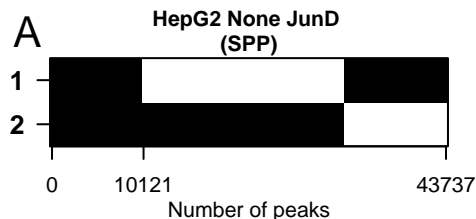
■ Peak detected
□ No peak detected

ENCODE peakSeq peaks

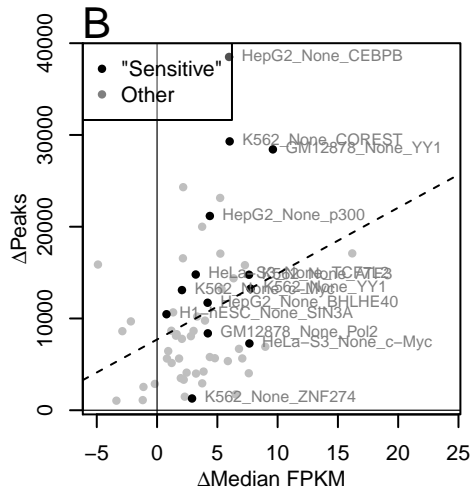
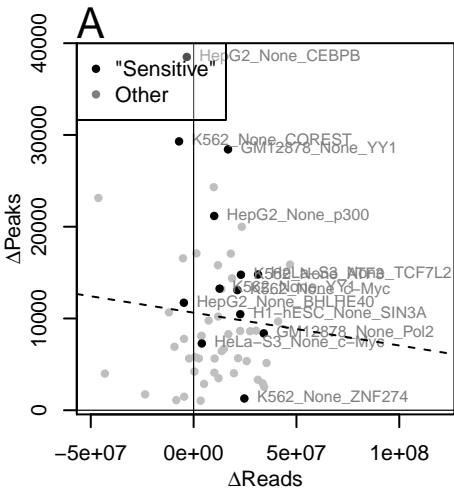
■ Peak detected
□ No peak detected

SPP peak comparison with MAnorm

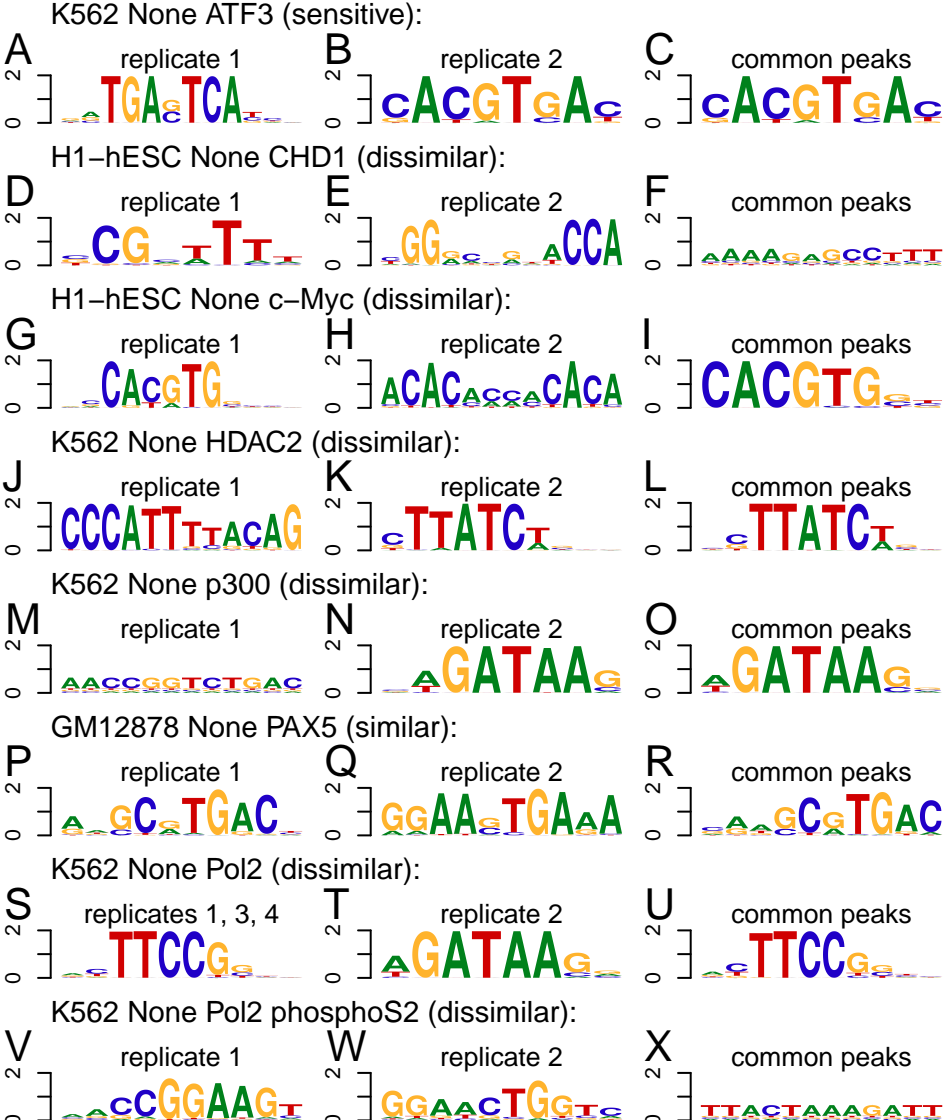
■ p-value > 10^{-2}
 ■ p-value $\leq 10^{-2}$
 ■ p-value $\leq 10^{-3}$
 □ p-value $\leq 10^{-5}$



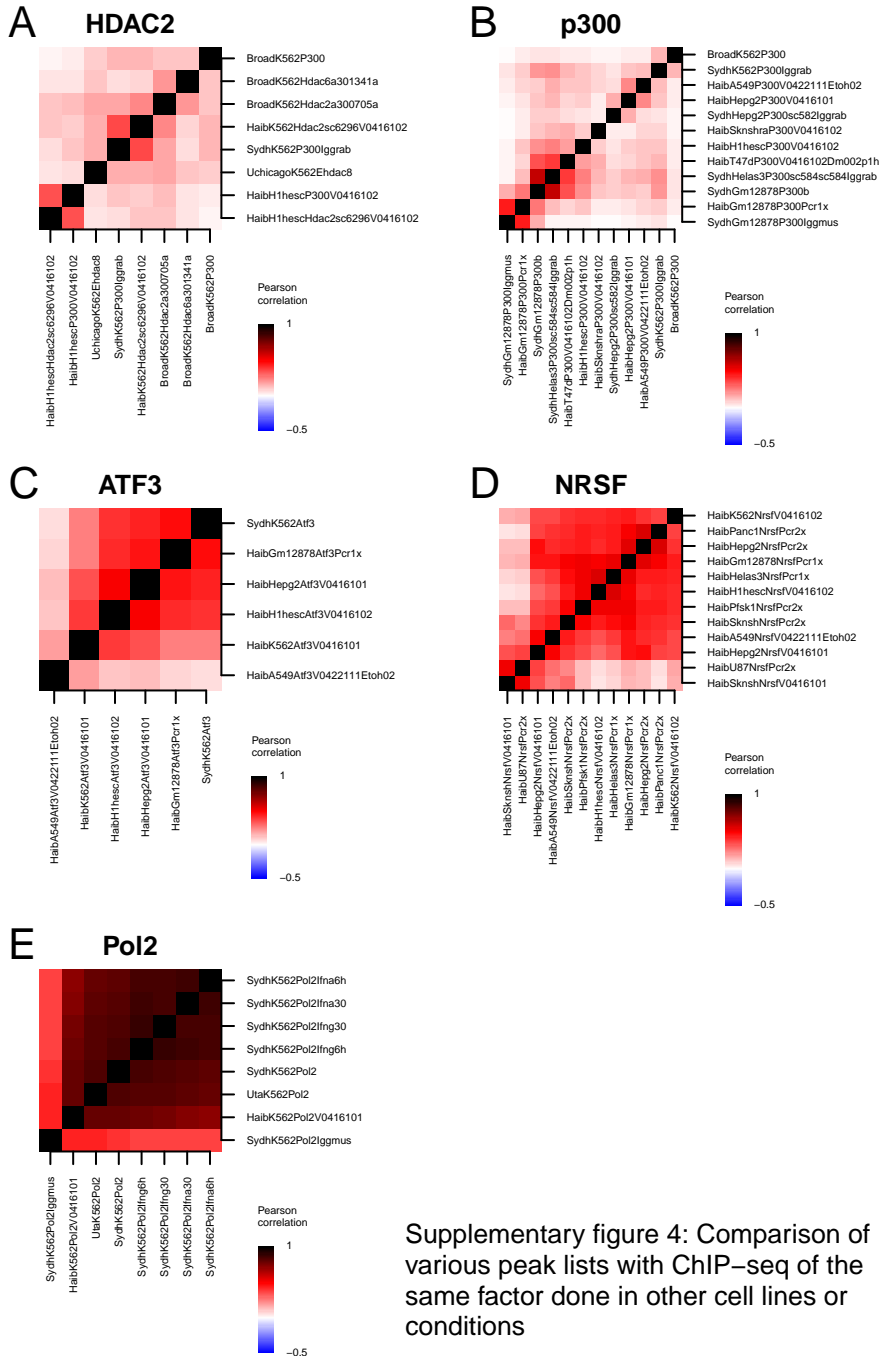
Supplementary figure 1: ENCODE SPP peaks, ENCODE peakSeq peaks, and MAnorm SPP peaks comparison.



Supplementary figure 2: Influence of sequencing depth and common peaks height on the number of peaks detected



Supplementary figure 3: Differences in de novo motif discovery from different replicate experiments of 8 experimental conditions.



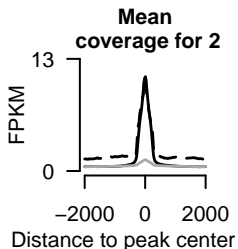
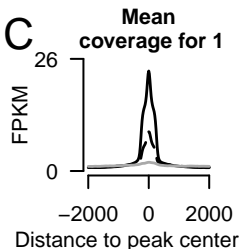
A

K562 None ATF3 (sensitive)

1 – HaibK562Atf3V0416101UniPk
2 – SydhK562Atf3UniPk

Peak detected ■
No peak detected □

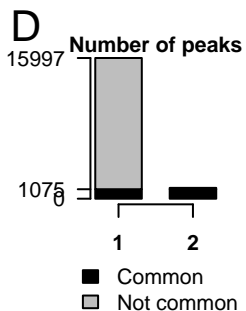
C



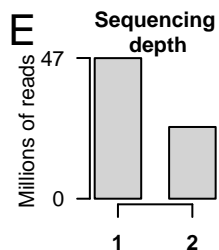
Mean coverage at:

- Common peaks
- - Sample specific peaks
- Undetected peaks

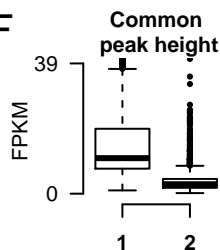
D



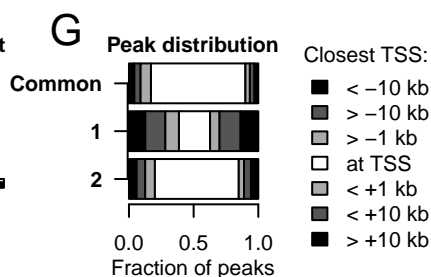
E



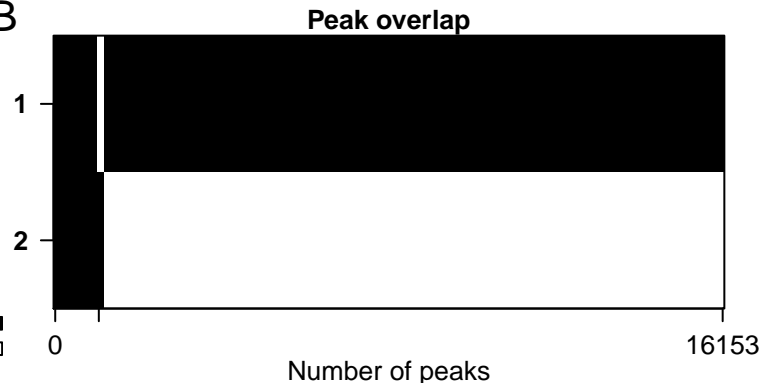
F



G

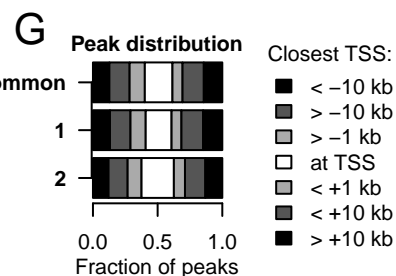
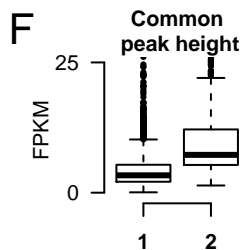
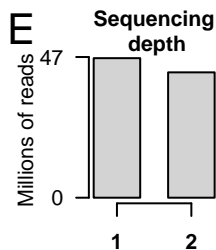
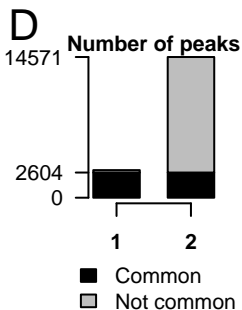
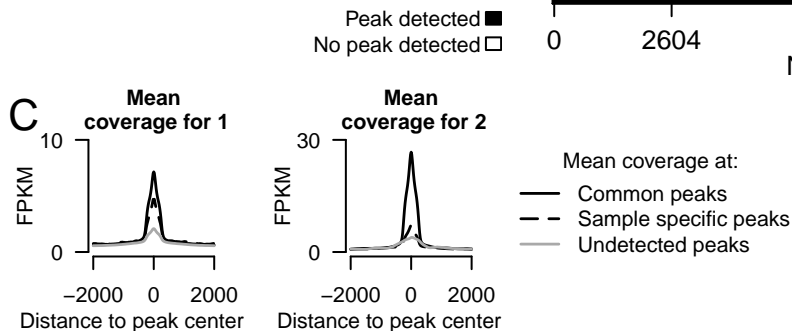
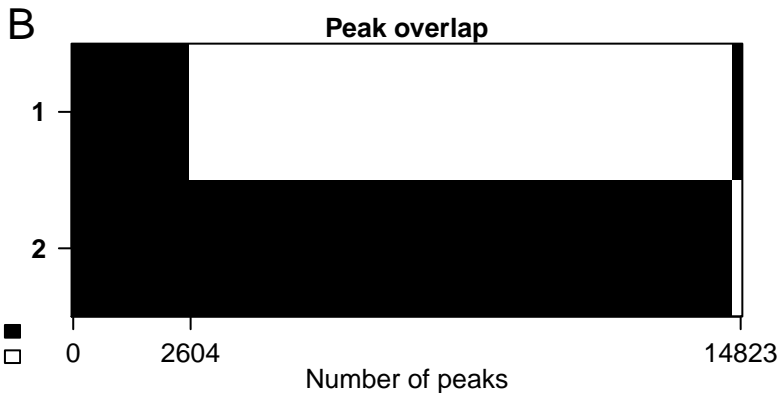


B



A HepG2 None BHLHE40 (sensitive)

1 – HaibHepg2Bhlhe40V0416101UniPk
2 – SydhHepg2Bhlhe40clggrabUniPk



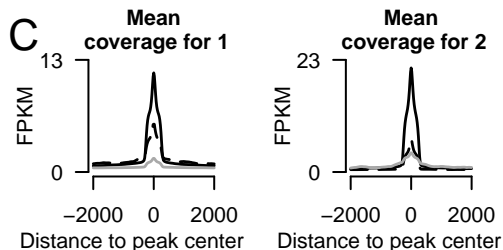
Supplementary figure 6: HepG2 None BHLHE40 (sensitive)

A

HepG2 None CEBPB (sensitive)

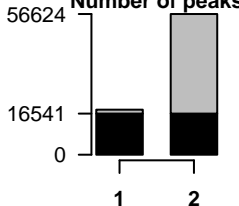
1 – HaibHepg2Cebpbbsc150V0416101UniPk
2 – SydhHepg2CebpbblggrabUniPk

Peak detected ■
No peak detected □



D

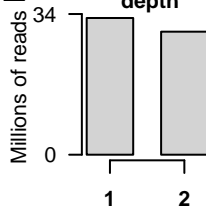
Number of peaks



■ Common
■ Not common

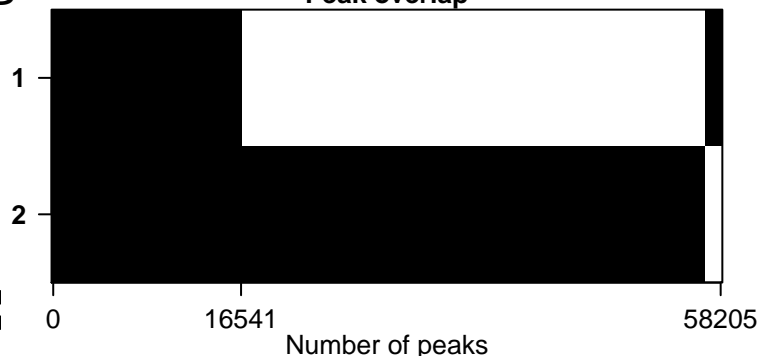
E

Sequencing depth



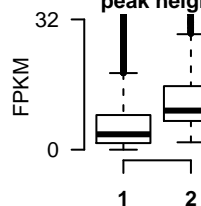
B

Peak overlap



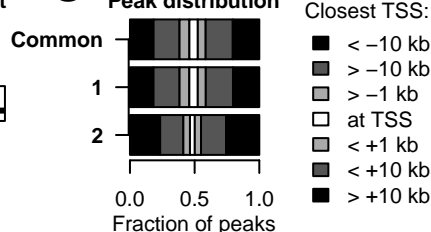
F

Common peak height



G

Peak distribution

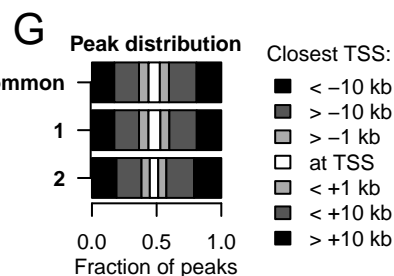
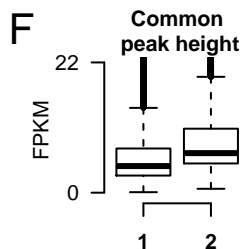
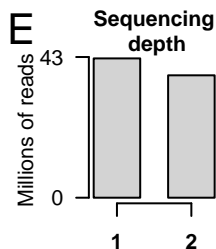
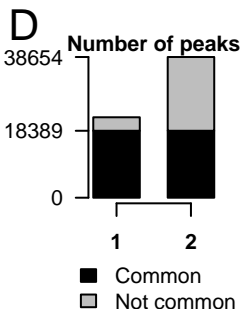
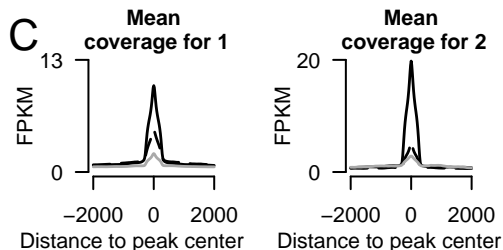


A

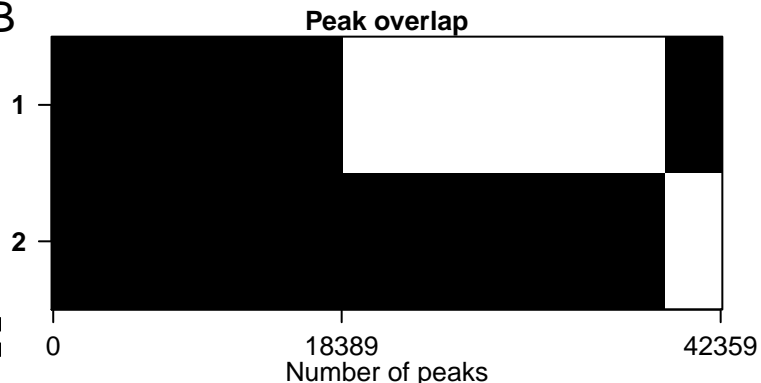
K562 None CEBPB (dissimilar)

1 – HaibK562Cebpbsc150V0422111UniPk
2 – SydhK562CebpblggrabUniPk

Peak detected ■
No peak detected □



B

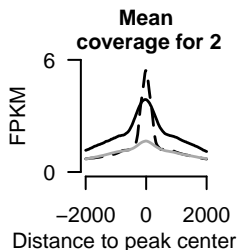
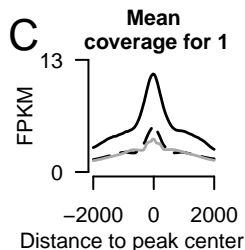


Supplementary figure 8: K562 None CEBPB (dissimilar)

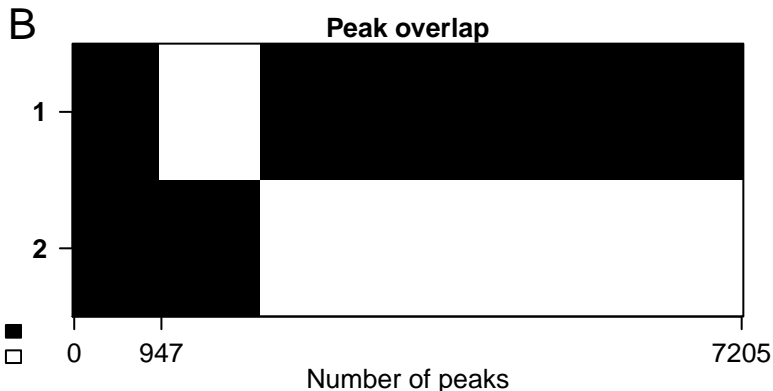
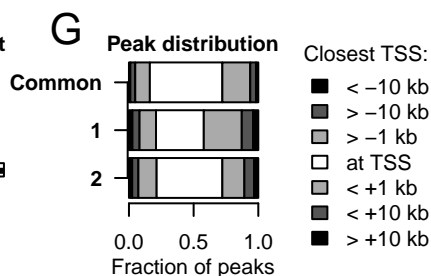
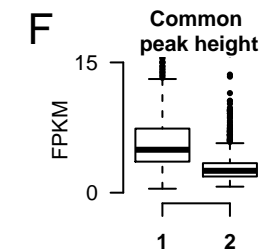
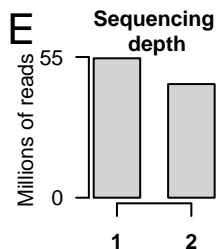
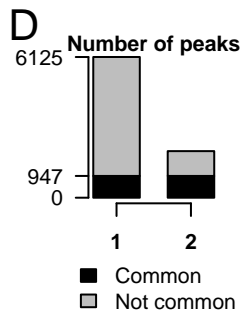
A H1-hESC None CHD1 (dissimilar)

1 – BroadH1hesChd1a301218aUniPk
2 – SydhH1hesChd1a301218algrabUniPk

Peak detected ■
No peak detected □



Mean coverage at:
— Common peaks
- - Sample specific peaks
... Undetected peaks



Supplementary figure 9: H1-hESC None CHD1 (dissimilar)

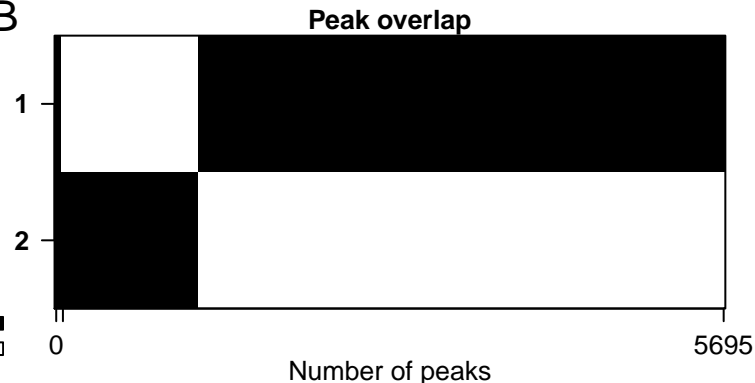
A

H1-hESC None c-Myc (dissimilar)

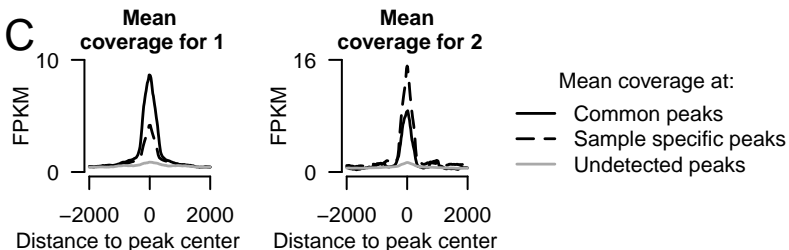
1 - SydhH1hesccMyclggrabUniPk
2 - UtaH1hesccMycUniPk

Peak detected ■
No peak detected □

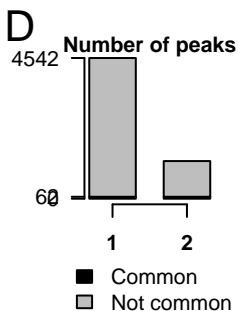
B



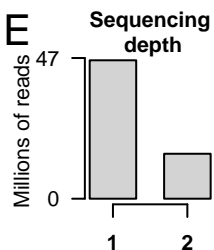
C



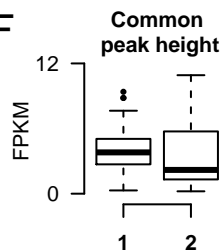
D



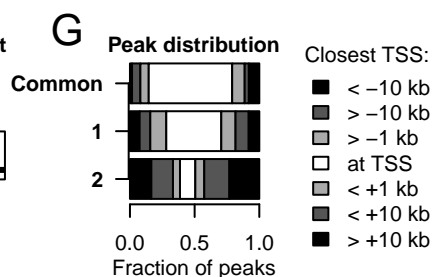
E



F



G



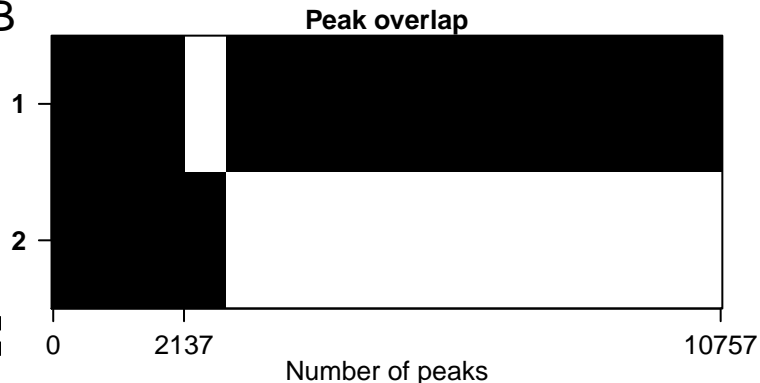
A

HeLa-S3 None c-Myc (sensitive)

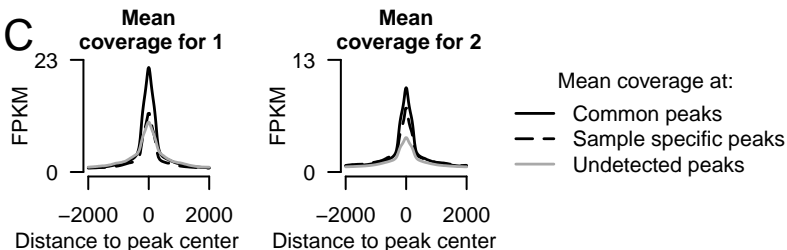
1 - SydhHelas3CmycUniPk
2 - UtaHelas3CmycUniPk

Peak detected ■
No peak detected □

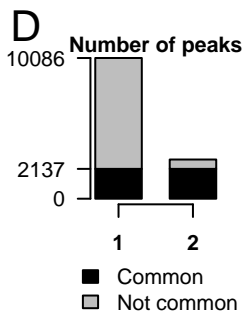
B



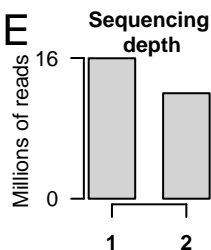
C



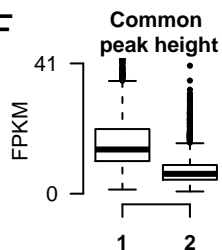
D



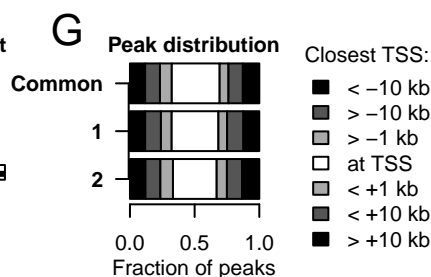
E



F



G



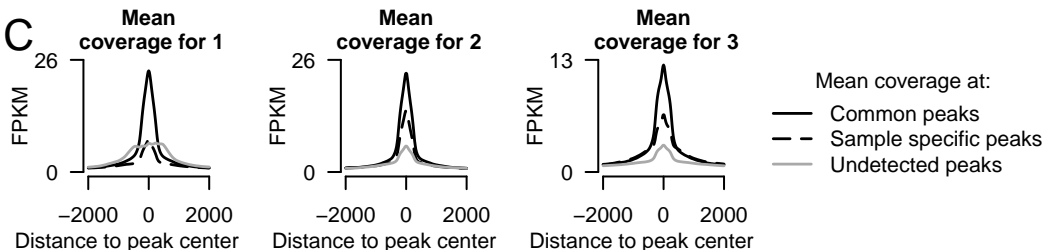
A

K562 None c-Myc (sensitive)

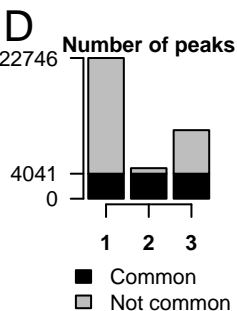
- 1 - SydhK562CmycIgrabUniPk
2 - SydhK562CmycUniPk
3 - UtaK562CmycUniPk

Peak detected ■
No peak detected □

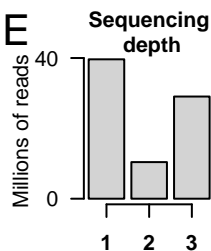
C



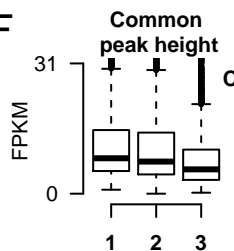
D



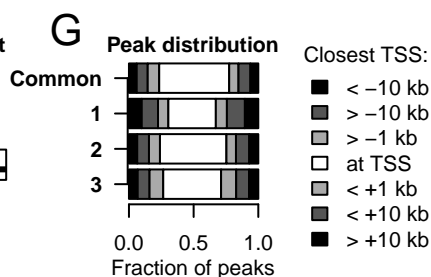
E



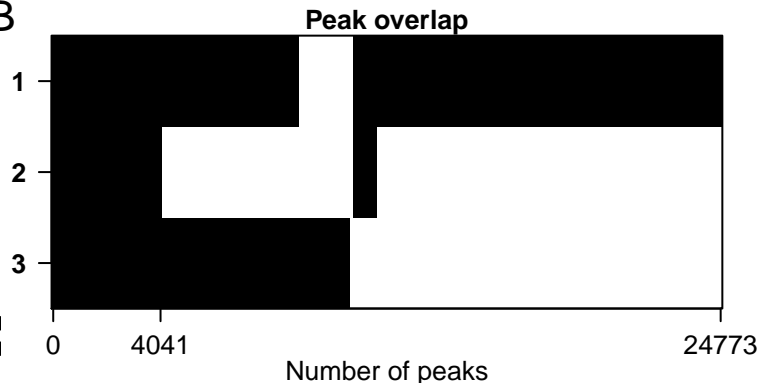
F



G



B



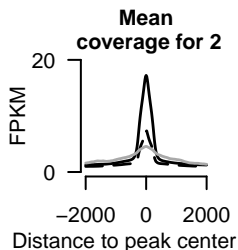
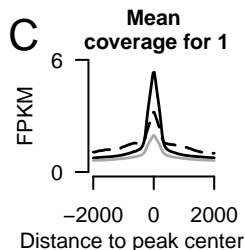
A

K562 None COREST (sensitive)

1 – SydhK562Corestab24166lggrabUniPk
2 – SydhK562Corestsc30189lggrabUniPk

Peak detected ■
No peak detected □

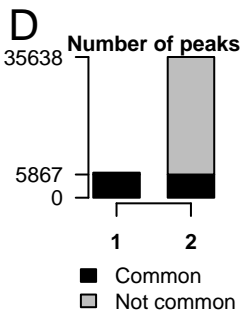
C



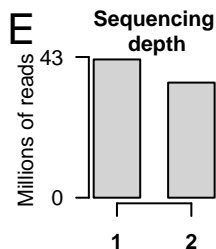
Mean coverage at:

- Common peaks
- - Sample specific peaks
- ... Undetected peaks

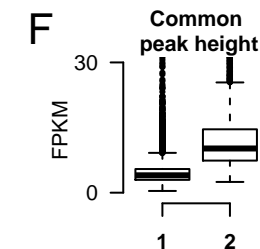
D



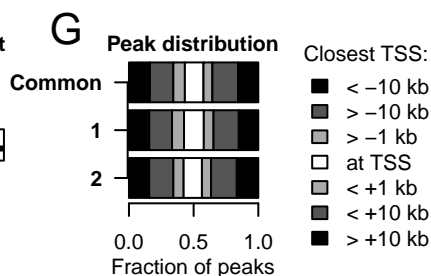
E



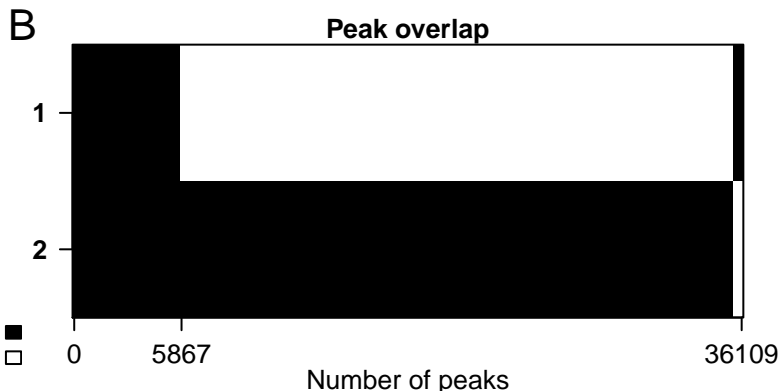
F



G



B

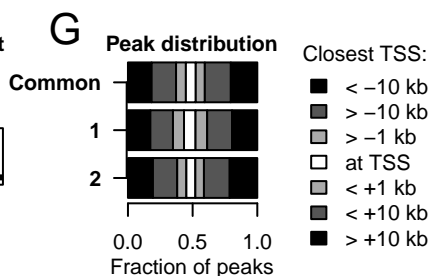
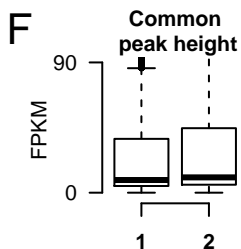
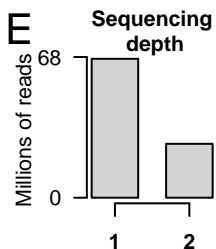
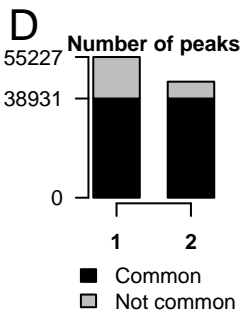
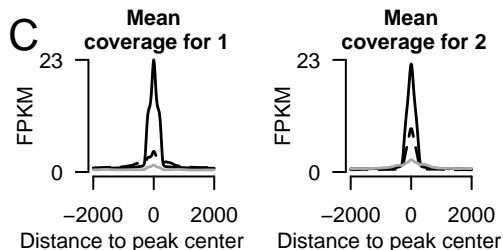


A

A549 None CTCF (similar)

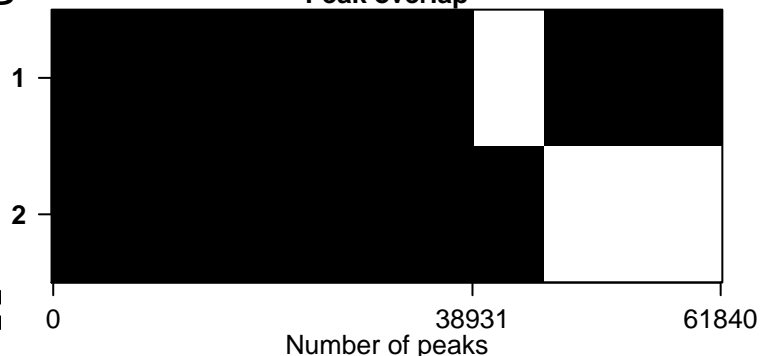
1 – UtaA549CtcfUniPk
2 – UwA549CtcfUniPk

Peak detected ■
No peak detected □



B

Peak overlap



Supplementary figure 14: A549 None CTCF (similar)

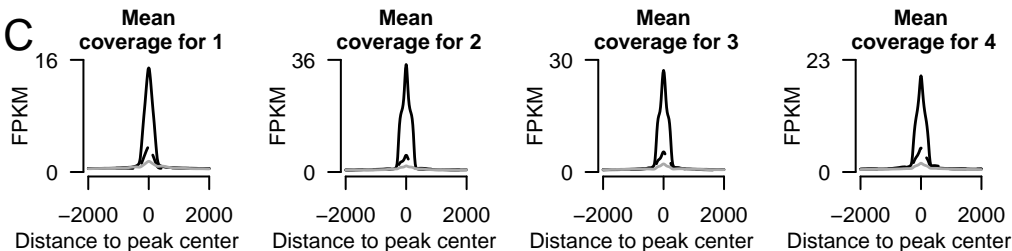
A

GM12878 None CTCF (similar)

- 1 – BroadGm12878CtcfUniPk
 2 – SydhGm12878Ctcfsc15914c20UniPk
 3 – UtaGm12878CtcfUniPk
 4 – UwGm12878CtcfUniPk

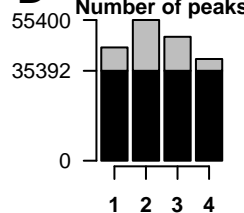
Peak detected
 No peak detected

C



D

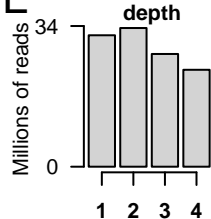
Number of peaks



Common
 Not common

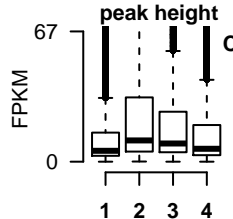
E

Sequencing depth



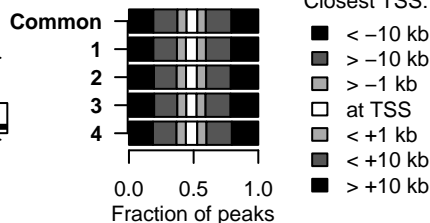
F

Common peak height



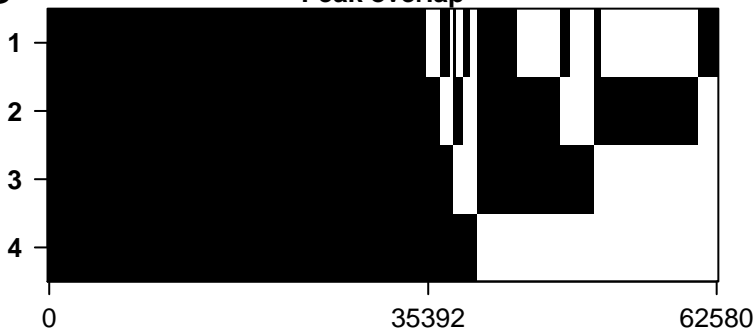
G

Peak distribution



B

Peak overlap

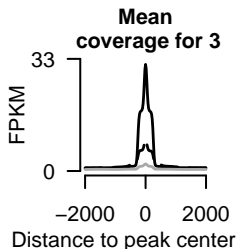
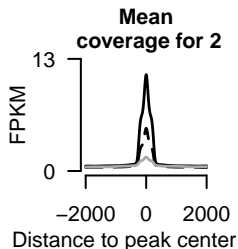
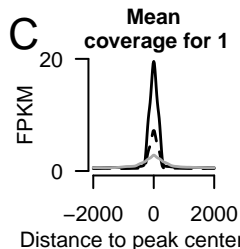


Number of peaks

A H1-hESC None CTCF (similar)

1 - BroadH1hesCtcfUniPk
 2 - HaibH1hesCtcfsc5916V0416102UniPk
 3 - UtaH1hesCtcfUniPk

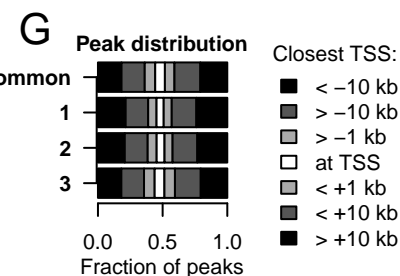
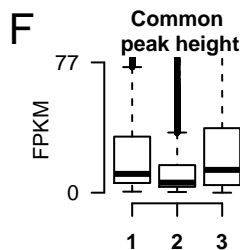
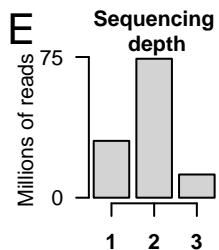
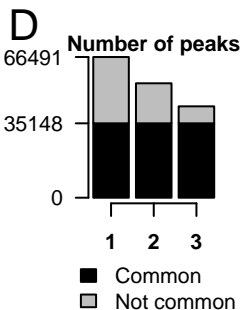
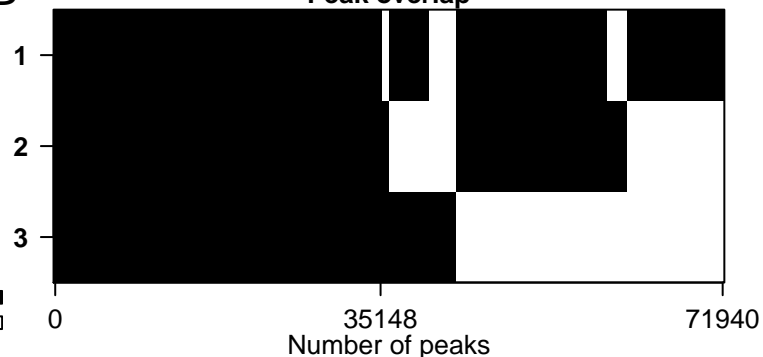
Peak detected ■
 No peak detected □



Mean coverage at:

- Common peaks
- - Sample specific peaks
- ... Undetected peaks

B Peak overlap



Supplementary figure 16: H1-hESC None CTCF (similar)

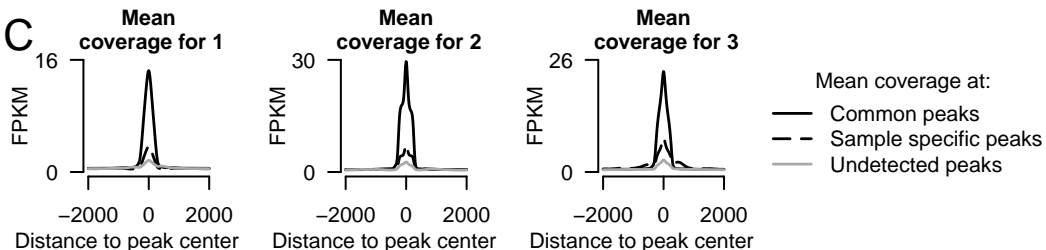
A

HeLa-S3 None CTCF (similar)

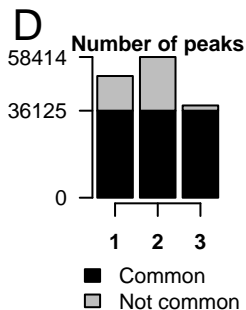
- 1 - BroadHelas3CtcfUniPk
- 2 - UtaHelas3CtcfUniPk
- 3 - UwHelas3CtcfUniPk

Peak detected ■
No peak detected □

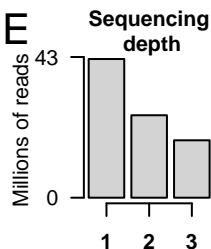
C



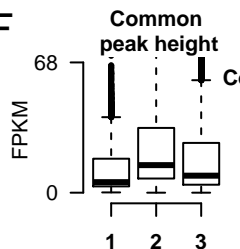
D



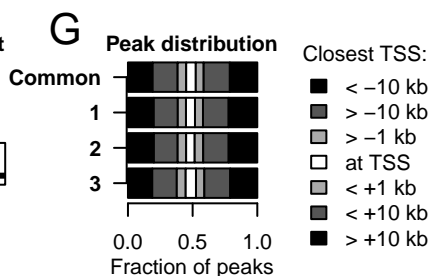
E



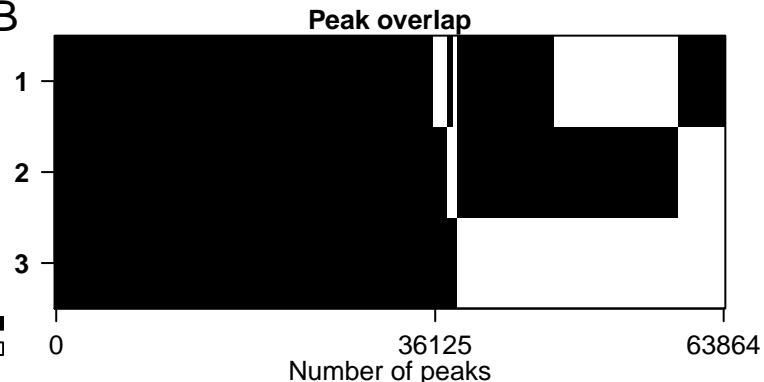
F



G



B



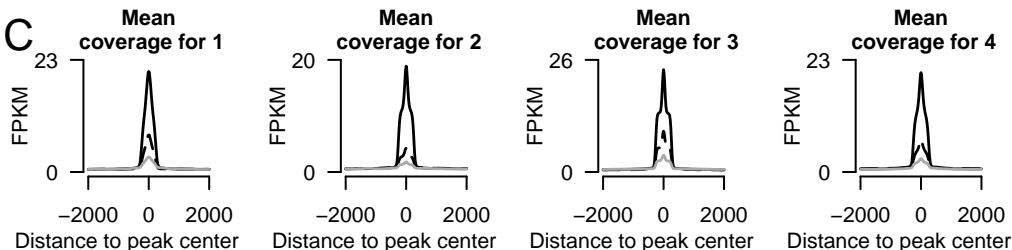
A

HepG2 None CTCF (similar)

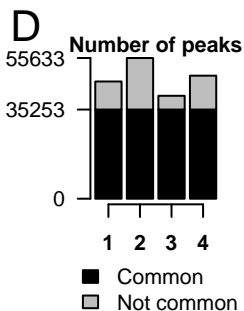
- 1 - BroadHepg2CtcfUniPk
 - 2 - HaibHepg2Ctcfsc5916V0416101UniPk
 - 3 - UtaHepg2CtcfUniPk
 - 4 - UwHepg2CtcfUniPk

Peak detected
 No peak detected

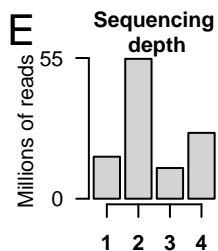
C



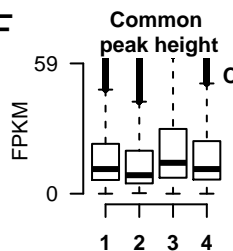
D



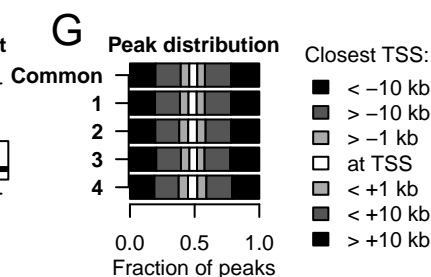
E



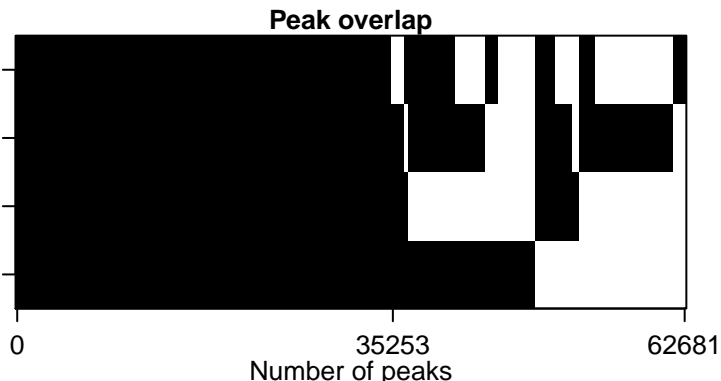
F



G



B



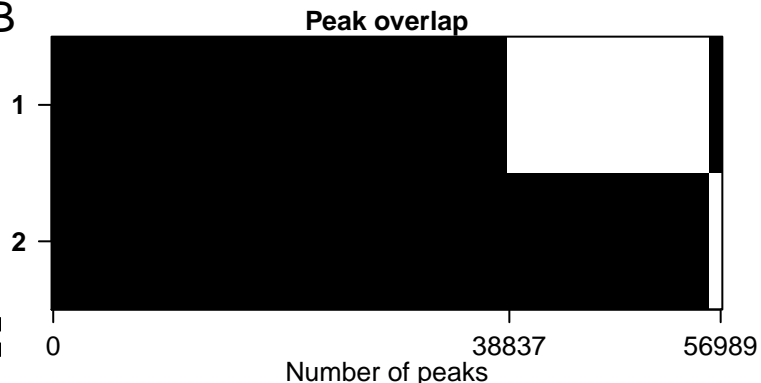
A

HMEC None CTCF (similar)

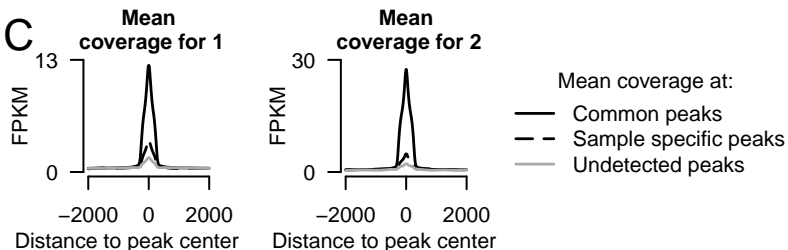
1 – BroadHmecCtcfUniPk
2 – UwHmecCtcfUniPk

Peak detected ■
No peak detected □

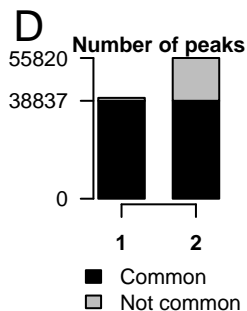
B



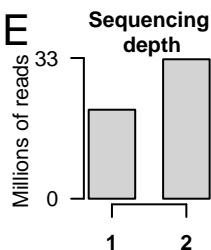
C



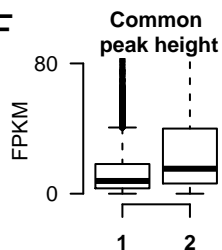
D



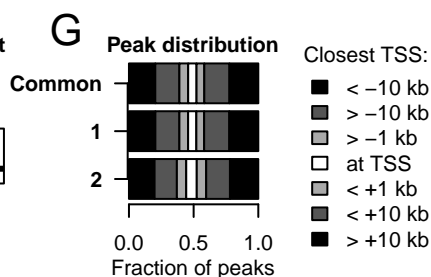
E



F



G



Supplementary figure 19: HMEC None CTCF (similar)

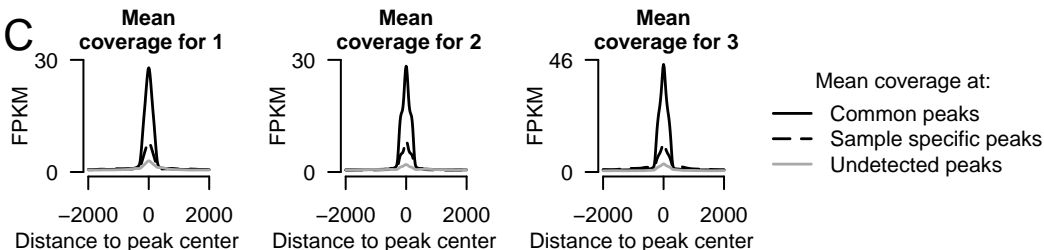
A

HUVEC None CTCF (similar)

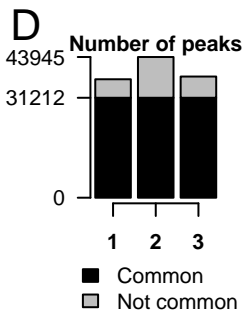
- 1 - BroadHuvecCtcfUniPk
- 2 - UtaHuvecCtcfUniPk
- 3 - UwHuvecCtcfUniPk

Peak detected
 No peak detected

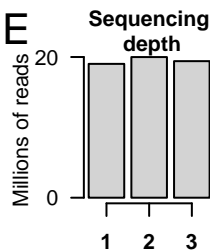
C



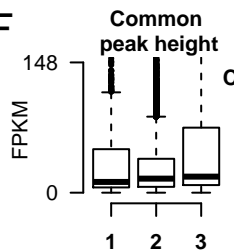
D



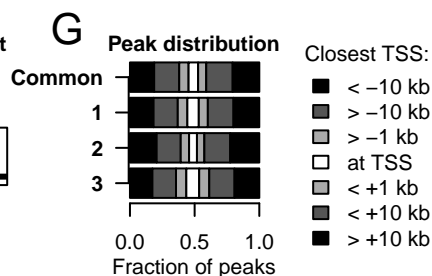
E



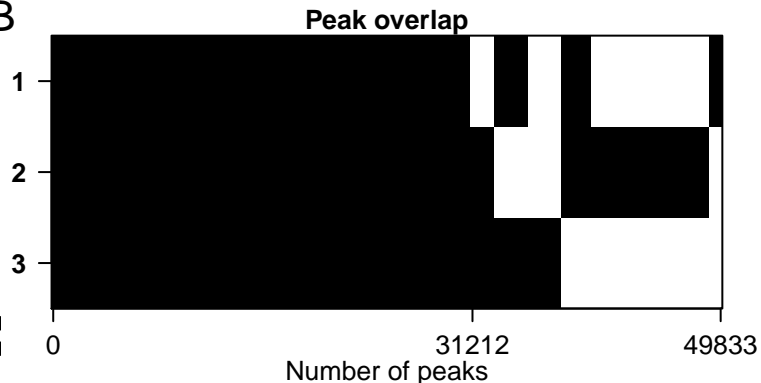
F



G



B



A

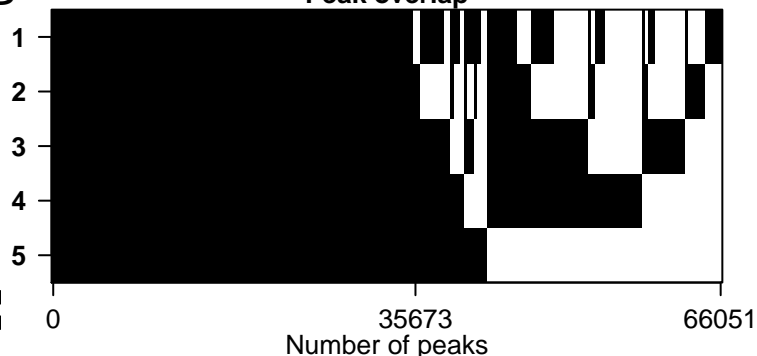
K562 None CTCF (similar)

- 1 – BroadK562CtcfUniPk
- 2 – HaibK562CtcfPcr1xUniPk
- 3 – SydhK562CtcfIlggrabUniPk
- 4 – UtaK562CtcfUniPk
- 5 – UwK562CtcfUniPk

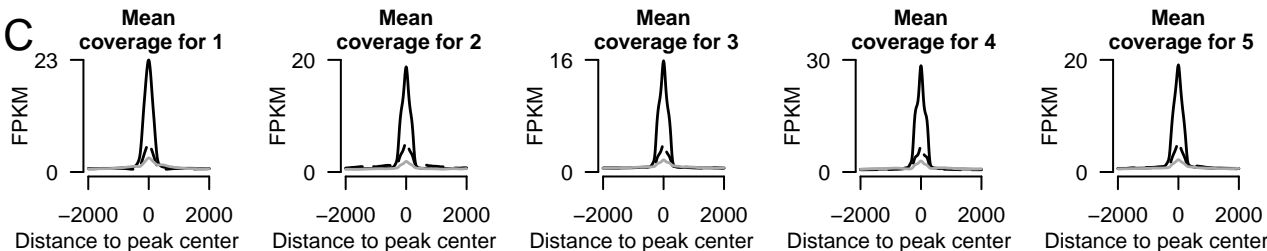
Peak detected
 No peak detected

B

Peak overlap

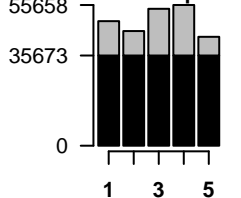


C



D

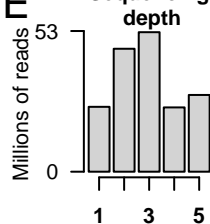
Number of peaks



Common
 Not common

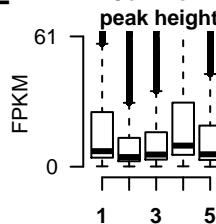
E

Sequencing depth



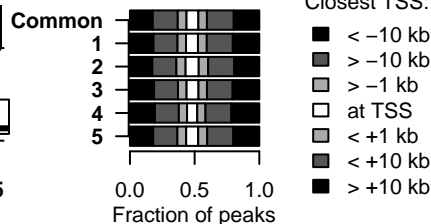
F

Common peak height



G

Peak distribution

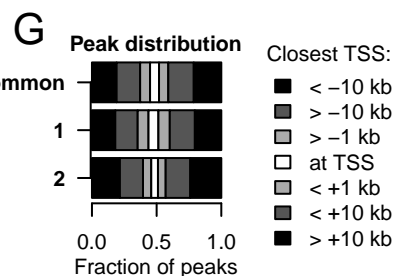
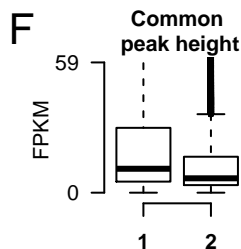
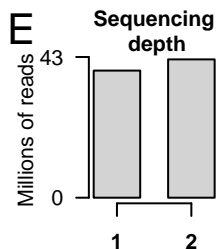
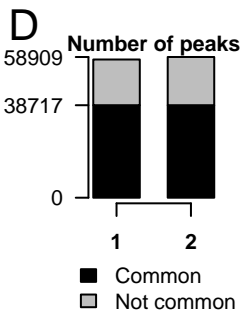
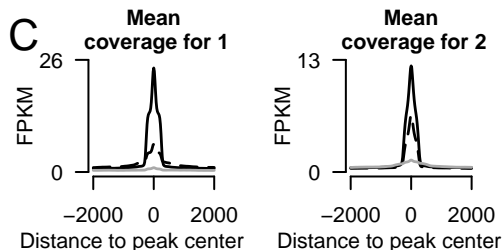


A

MCF-7 None CTCF (similar)

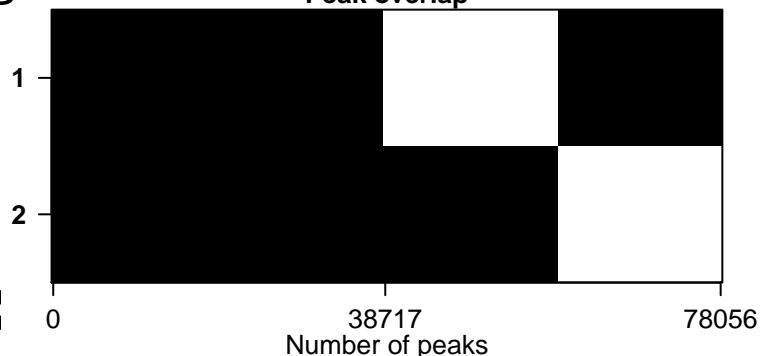
1 – UtaMcf7CtcfUniPk
2 – UwMcf7CtcfUniPk

Peak detected ■
No peak detected □



B

Peak overlap



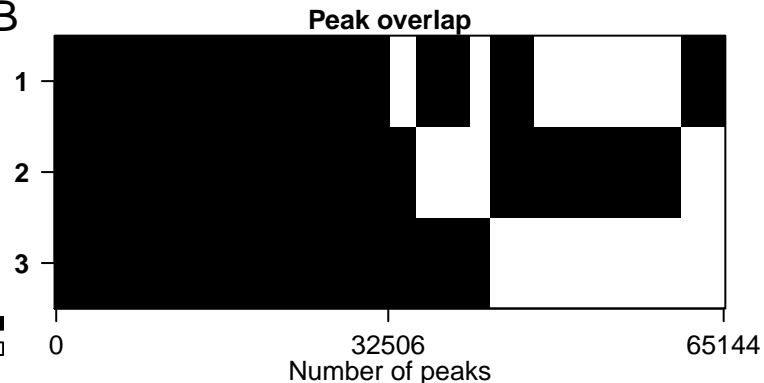
A

NHEK None CTCF (similar)

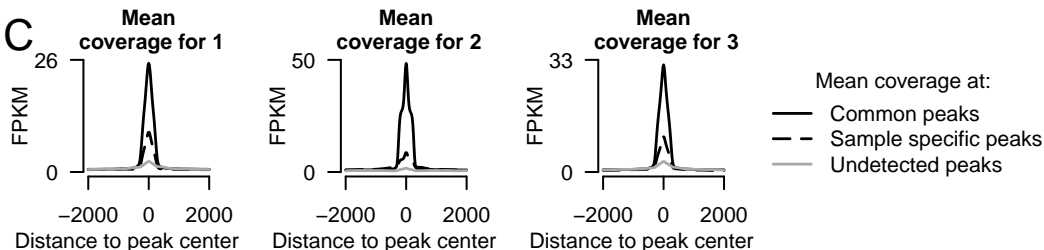
- 1 – BroadNhekCtcfUniPk
2 – UtaNhekCtcfUniPk
3 – UwNhekCtcfUniPk

Peak detected ■
No peak detected □

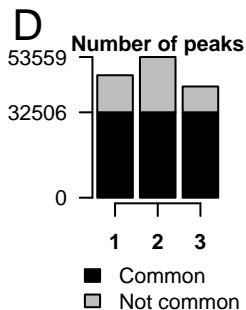
B



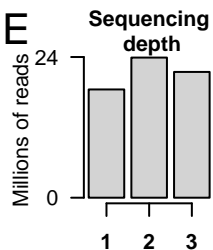
C



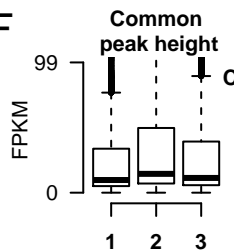
D



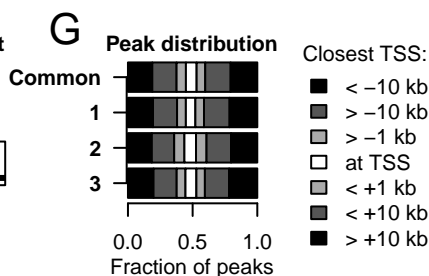
E



F



G



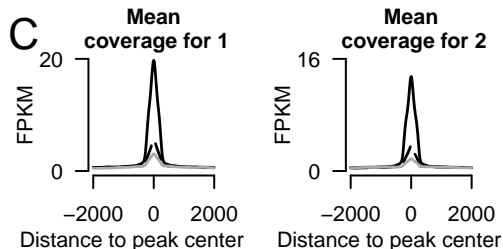
Supplementary figure 23: NHEK None CTCF (similar)

A

NHLF None CTCF (similar)

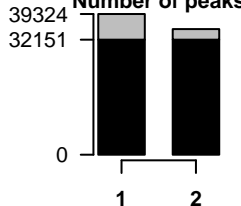
1 – BroadNhlfcTctfUniPk
2 – UwNhlfcTctfUniPk

Peak detected ■
No peak detected □



D

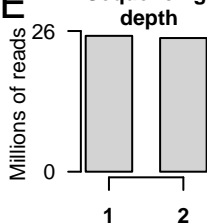
Number of peaks



■ Common
□ Not common

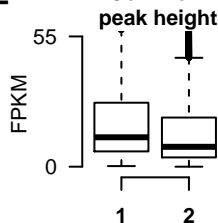
E

Sequencing depth



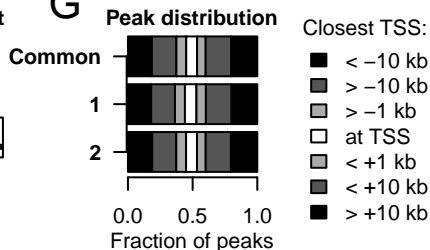
F

Common peak height



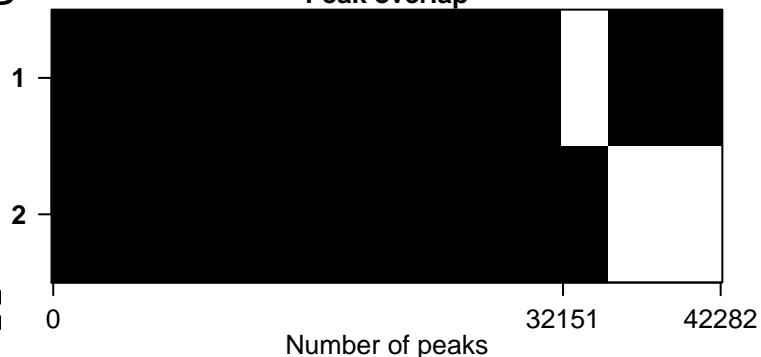
G

Peak distribution



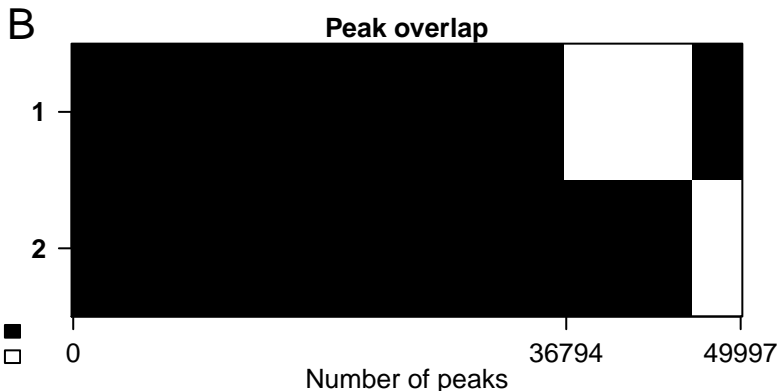
B

Peak overlap

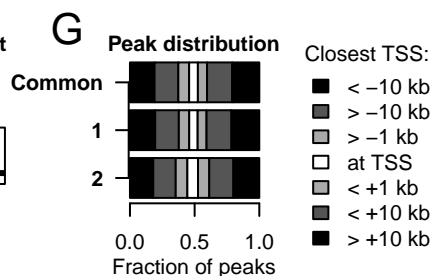
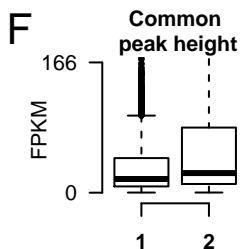
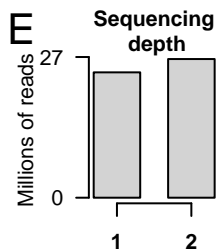
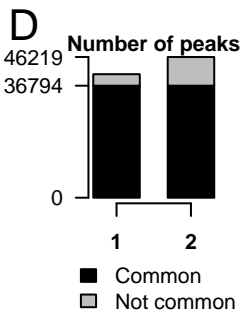
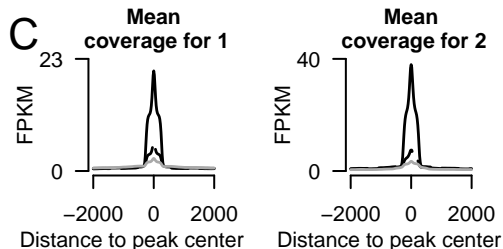


A SK-N-SH RA None CTCF
(similar)

1 - HaibSknshraCtcfV0416102UniPk
2 - UwSknshraCtcfUniPk



Peak detected ■
No peak detected □



Supplementary figure 25: SK-N-SH RA None CTCF (similar)

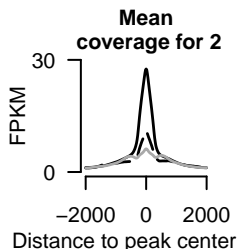
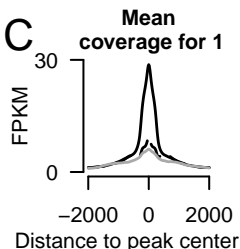
A

K562 None E2F6 (similar)

1 – HaibK562E2f6V0416102UniPk
2 – SydhK562E2f6UcdUniPk

Peak detected ■
No peak detected □

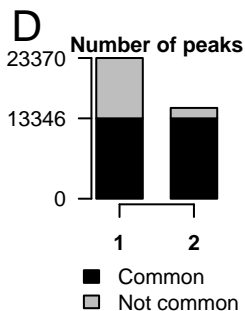
C



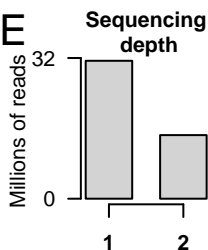
Mean coverage at:

- Common peaks
- - Sample specific peaks
- Undetected peaks

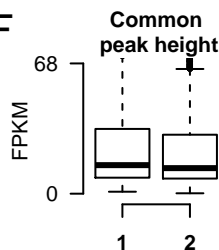
D



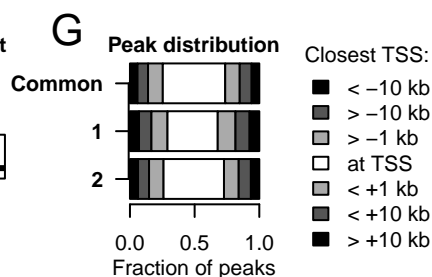
E



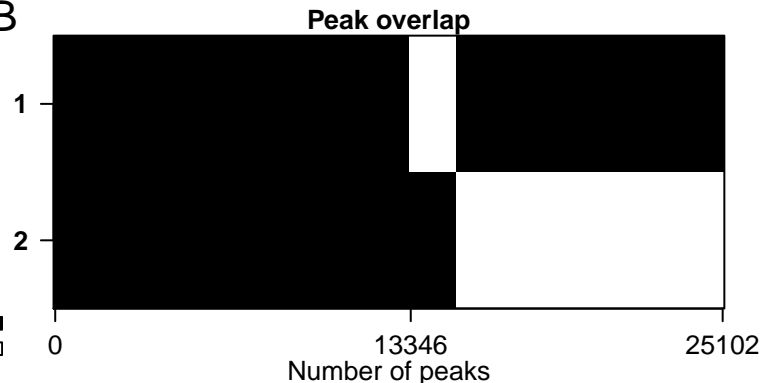
F



G



B



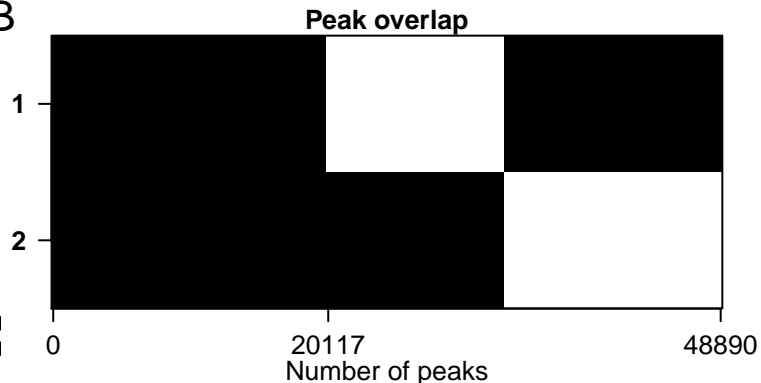
A

GM12878 None EBF1 (similar)

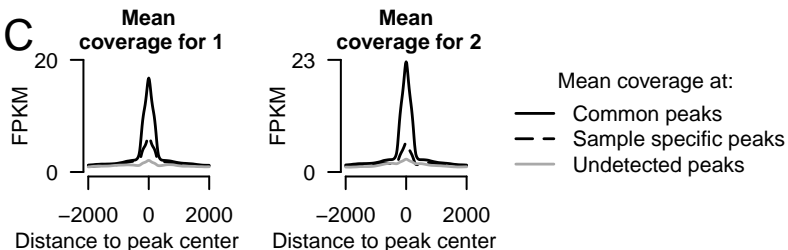
1 – HaibGm12878Ebf1sc137065Pcr1xUniPk
2 – SydhGm12878Ebf1sc137065UniPk

Peak detected ■
No peak detected □

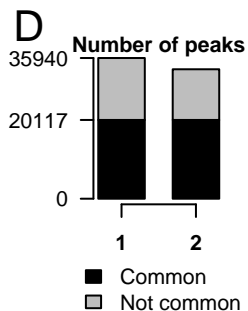
B



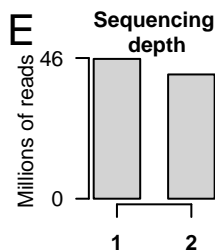
C



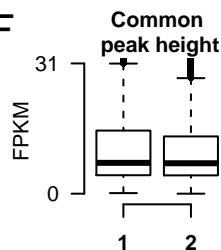
D



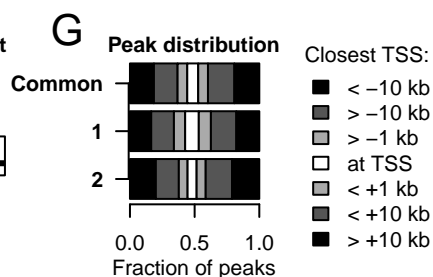
E



F



G



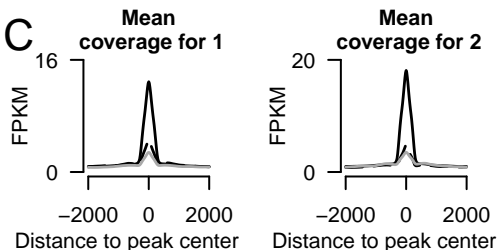
A

HepG2 None FOXA1 (similar)

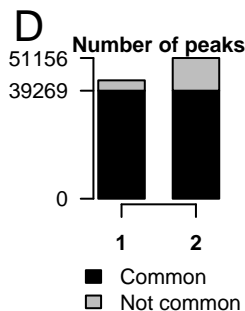
1 – HaibHepg2Foxa1sc101058V0416101UniPk
2 – HaibHepg2Foxa1sc6553V0416101UniPk

Peak detected ■
No peak detected □

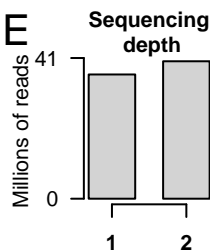
C



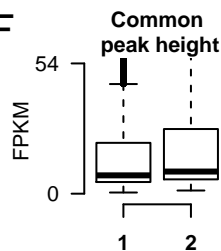
D



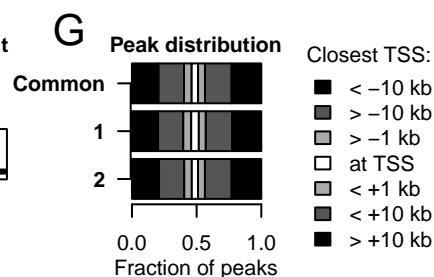
E



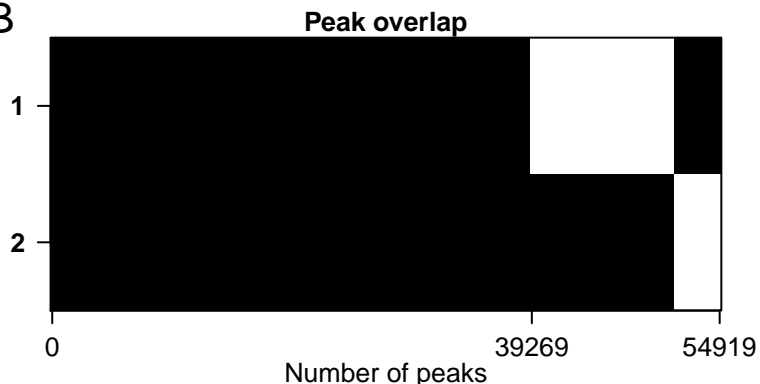
F



G



B



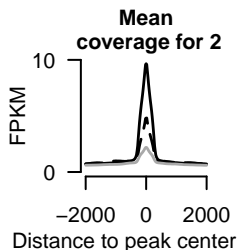
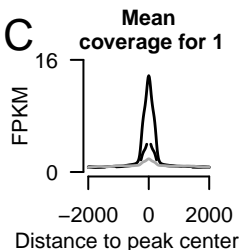
A

K562 None GATA2 (dissimilar)

1 – HaibK562Gata2sc267Pcr1xUniPk
2 – SydhK562Gata2UcdUniPk

Peak detected ■
No peak detected □

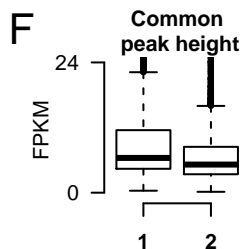
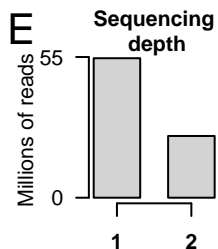
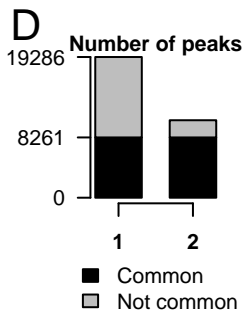
C



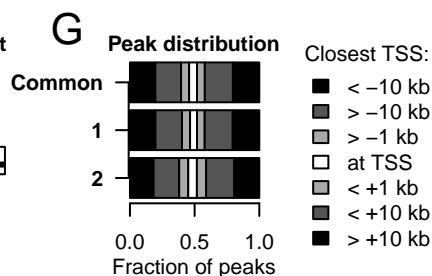
Mean coverage at:

— Common peaks
- - Sample specific peaks
— Undetected peaks

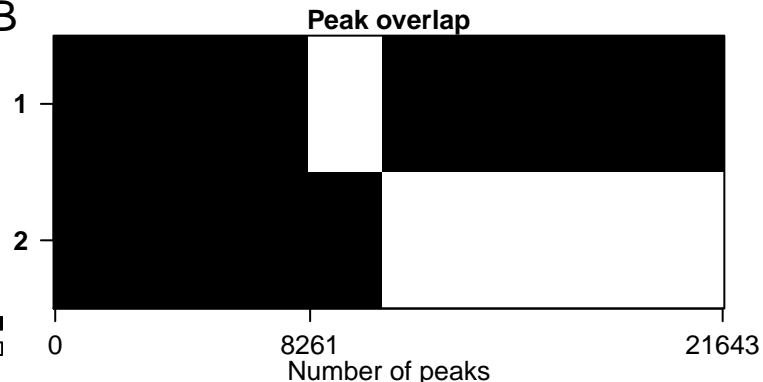
D



E



B

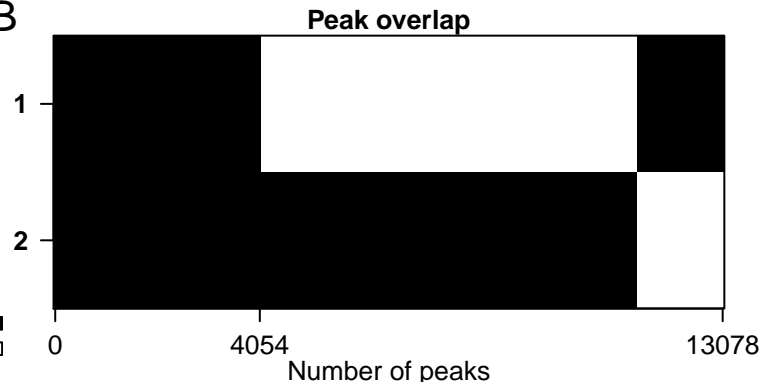


A

MCF-7 None GATA3 (dissimilar)

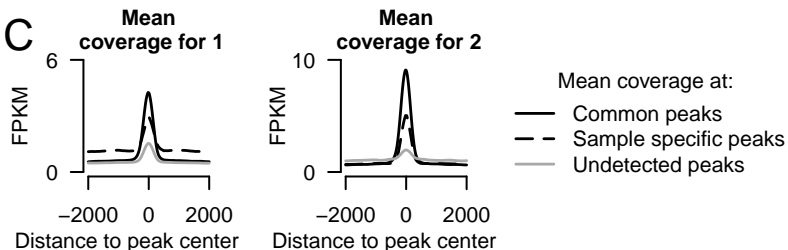
1 – SydhMcf7Gata3UcdUniPk
2 – SydhMcf7Gata3sc269UcdUniPk

B

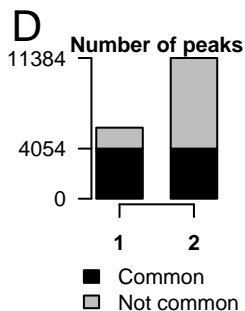


Peak detected ■
No peak detected □

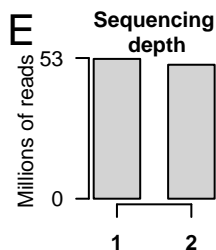
C



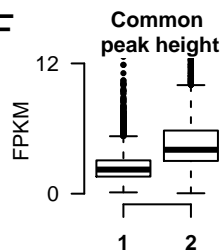
D



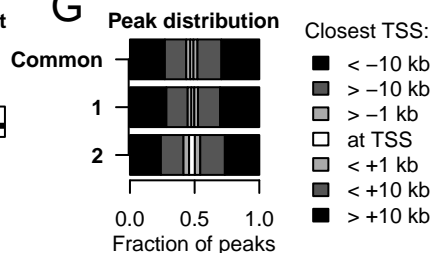
E



F



G



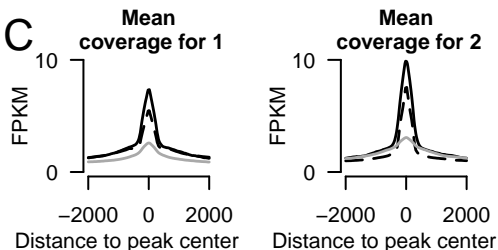
A

K562 None HDAC2 (dissimilar)

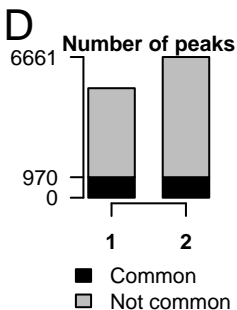
1 - BroadK562Hdac2a300705aUniPk
2 - HaibK562Hdac2sc6296V0416102UniPk

Peak detected ■
No peak detected □

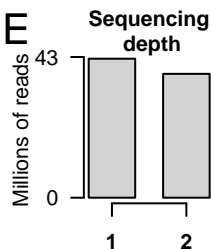
C



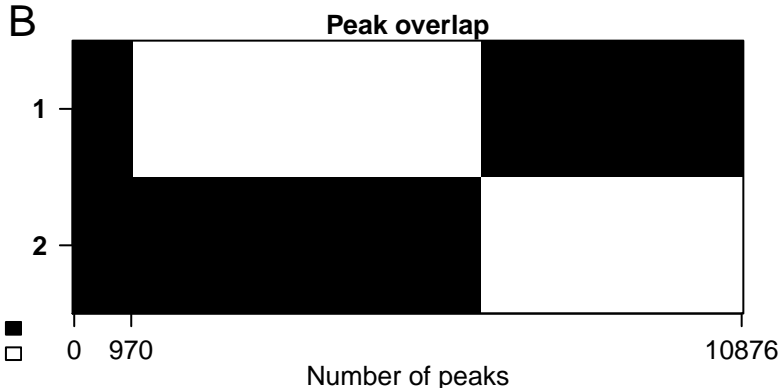
D



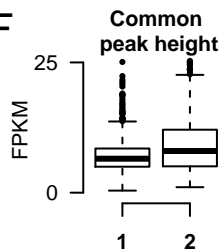
E



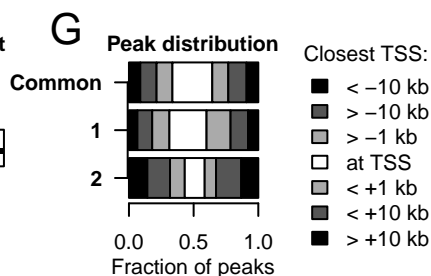
B



F



G



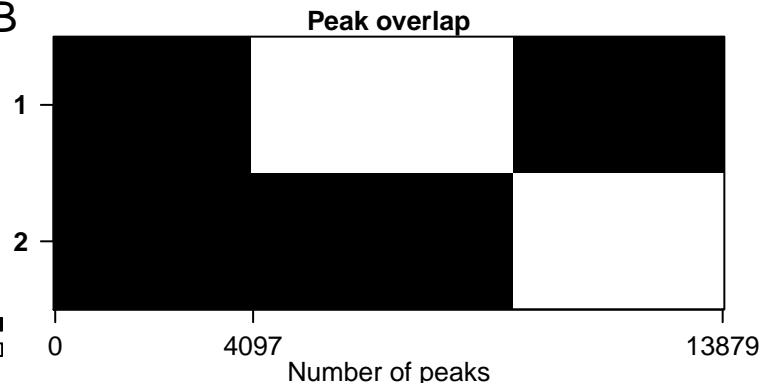
A

H1-hESC None JunD (dissimilar)

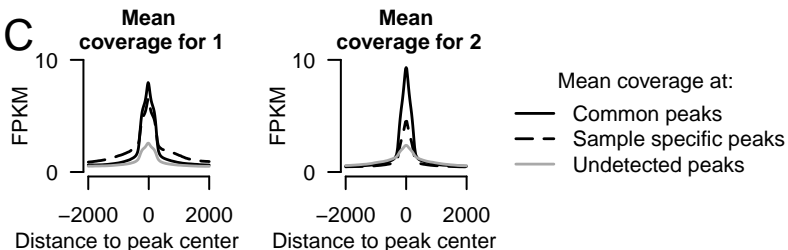
1 - HaibH1hescJundV0416102UniPk
2 - SydhH1hescJundIlggrabUniPk

Peak detected ■
No peak detected □

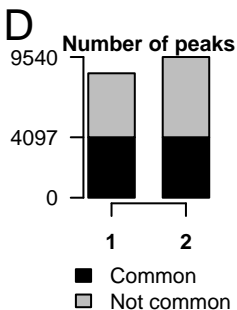
B



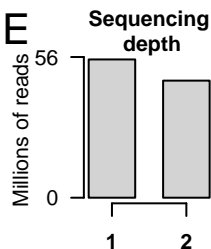
C



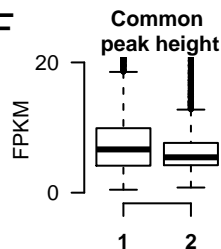
D



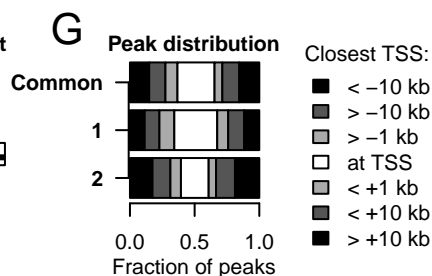
E



F



G



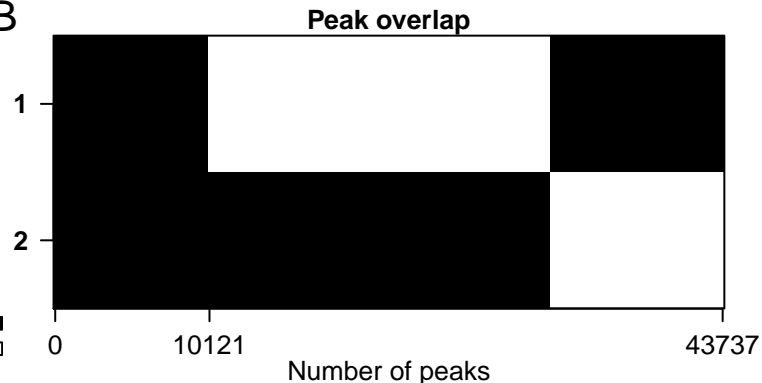
A

HepG2 None JunD (dissimilar)

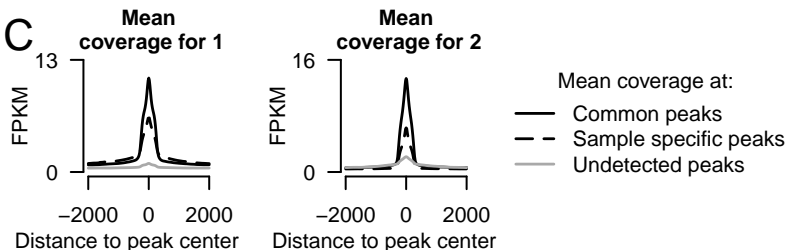
1 – HaibHepg2JundPcr1xUniPk
2 – SydhHepg2JundIggrabUniPk

Peak detected ■
No peak detected □

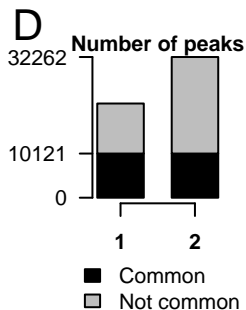
B



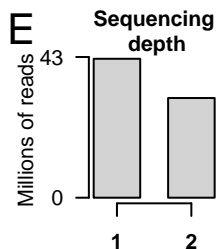
C



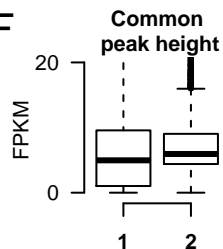
D



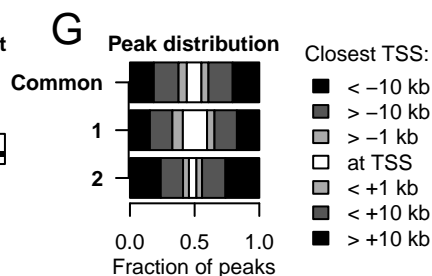
E



F



G

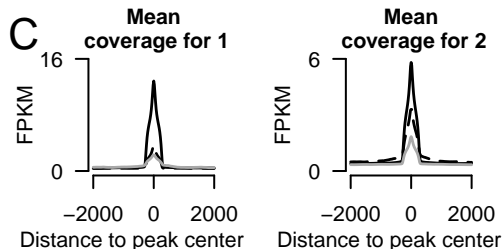


A

HepG2 None MafK (similar)

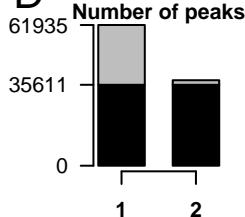
1 – SydhHepg2Mafkab50322lggrabUniPk
2 – SydhHepg2Mafksc477lggrabUniPk

Peak detected ■
No peak detected □



D

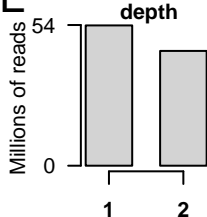
Number of peaks



■ Common
 ■ Not common

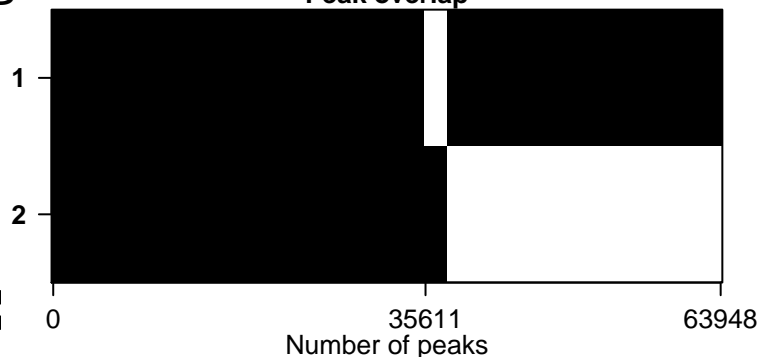
E

Sequencing depth



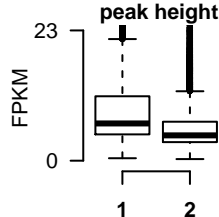
B

Peak overlap



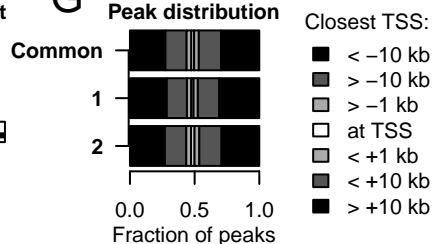
F

Common peak height



G

Peak distribution

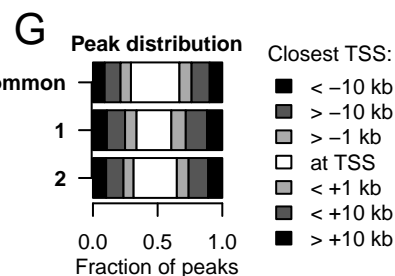
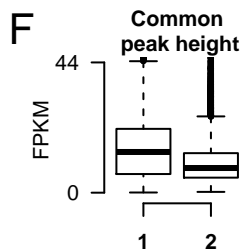
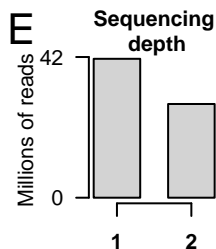
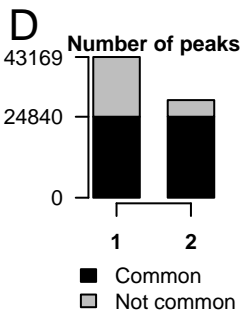
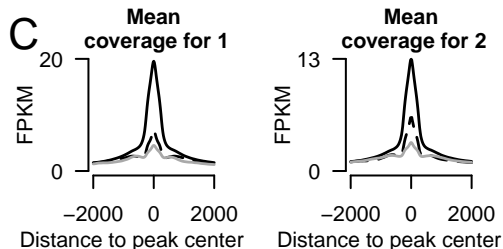


A

K562 None Max (similar)

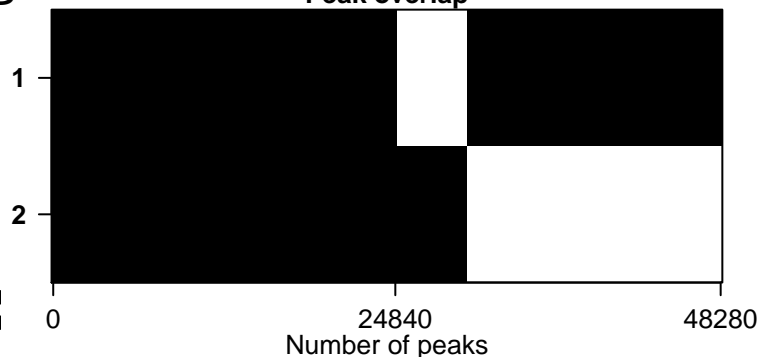
1 – HaibK562MaxV0416102UniPk
2 – SydhK562MaxIgrgrabUniPk

Peak detected ■
No peak detected □



B

Peak overlap

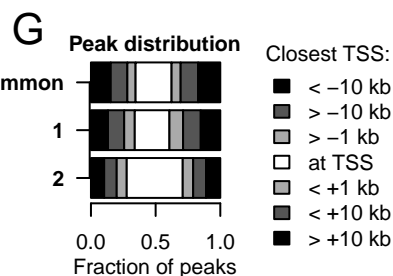
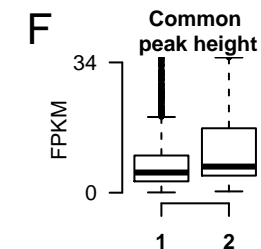
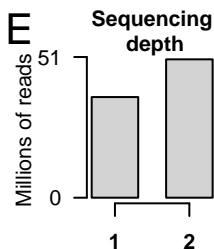
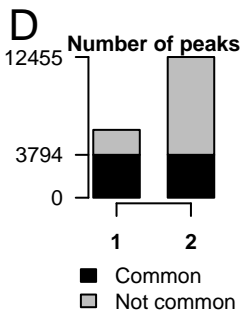
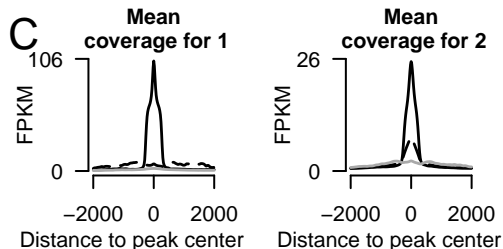


A

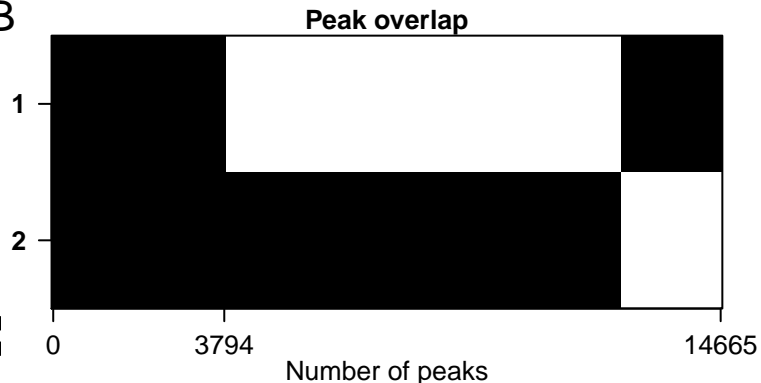
HepG2 None NRSF (dissimilar)

1 – HaibHepg2NrsfPcr2xUniPk
2 – HaibHepg2NrsfV0416101UniPk

Peak detected ■
No peak detected □



B



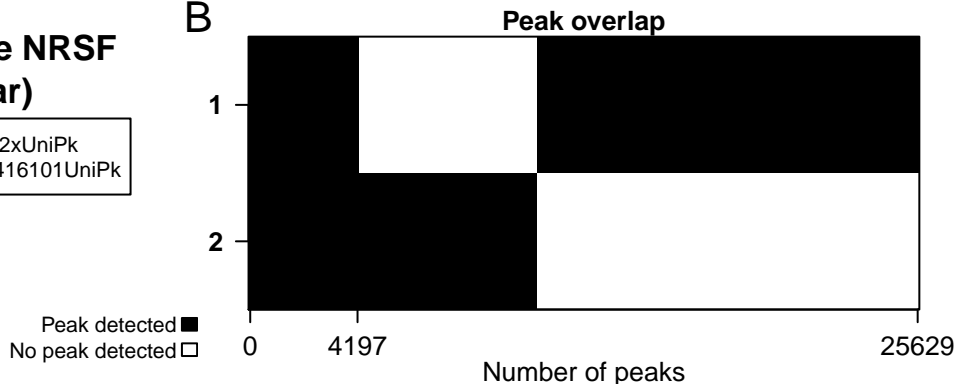
Supplementary figure 36: HepG2 None NRSF (dissimilar)

A

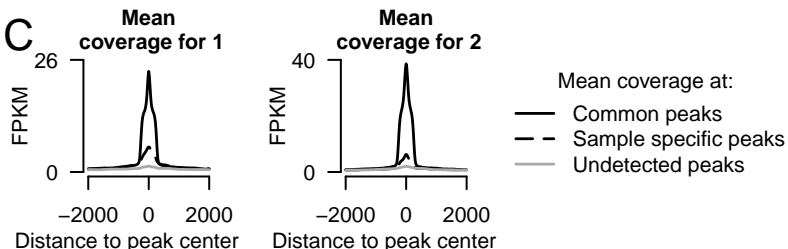
SK-N-SH None NRSF (dissimilar)

1 – HaibSknshNrsfPcr2xUniPk
2 – HaibSknshNrsfV0416101UniPk

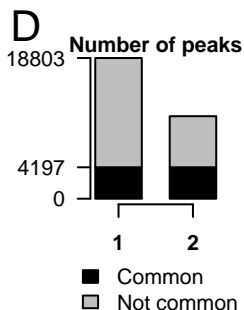
B



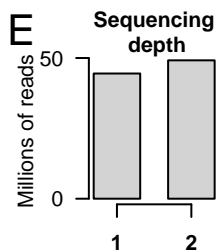
C



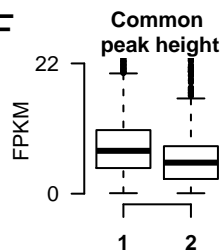
D



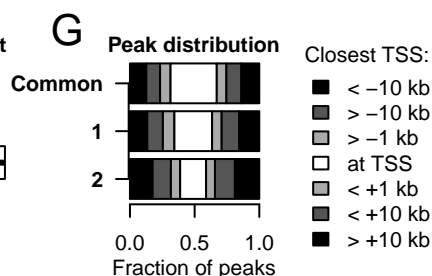
E



F



G



A

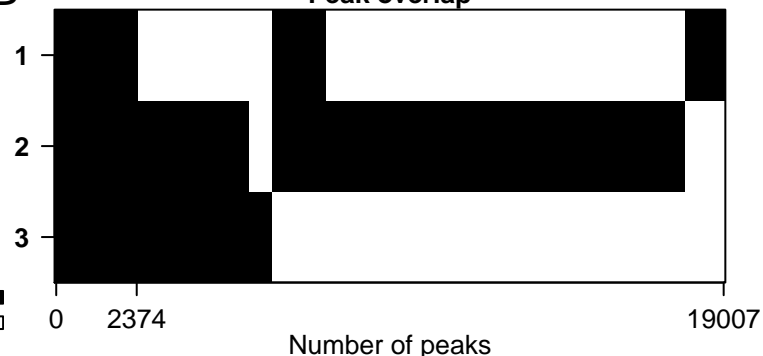
GM12878 None p300 (dissimilar)

1 – HaibGm12878P300Pcr1xUniPk
2 – SydhGm12878P300IggmusUniPk
3 – SydhGm12878P300bUniPk

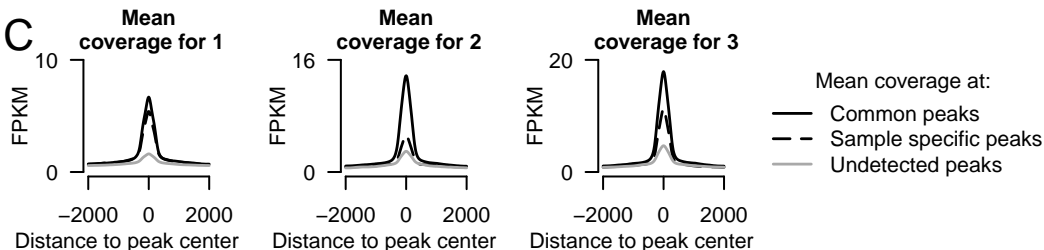
Peak detected ■
No peak detected □

B

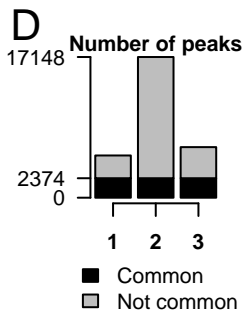
Peak overlap



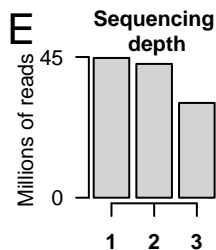
C



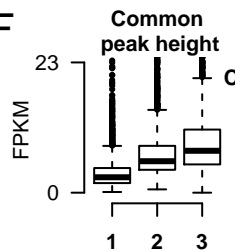
D



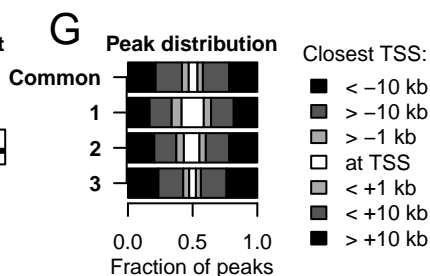
E



F



G



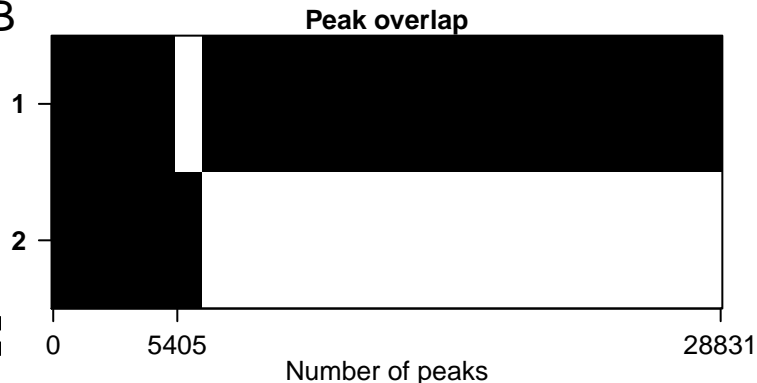
A

HepG2 None p300 (sensitive)

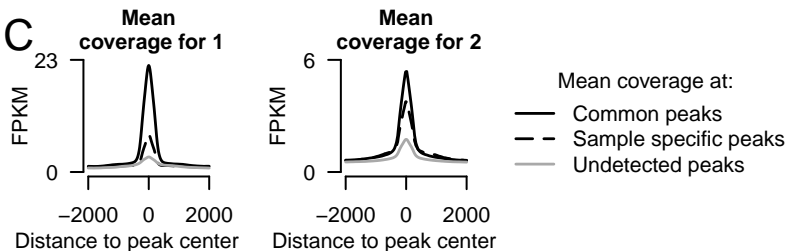
1 – HaibHepg2P300V0416101UniPk
2 – SydhHepg2P300sc582lggrabUniPk

Peak detected ■
No peak detected □

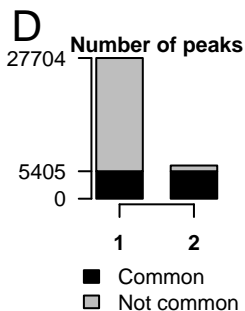
B



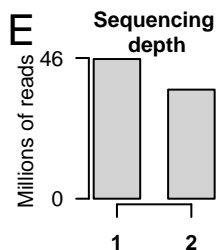
C



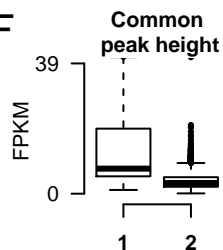
D



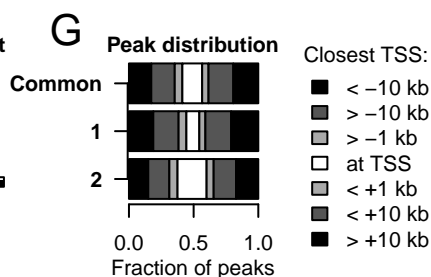
E



F



G



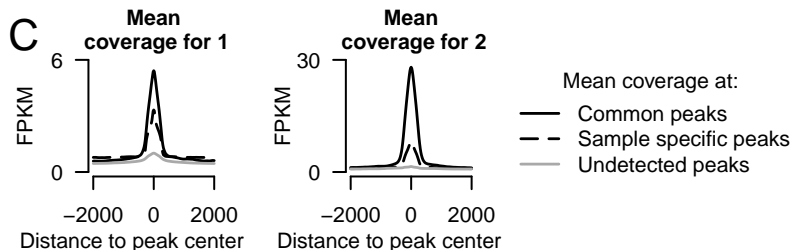
A

K562 None p300 (dissimilar)

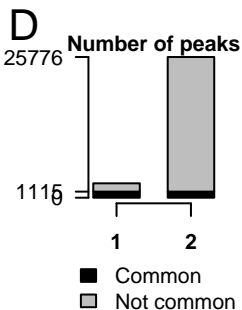
1 – BroadK562P300UniPk
2 – SydhK562P300IlggrabUniPk

Peak detected ■
No peak detected □

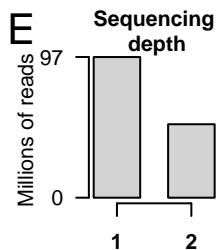
C



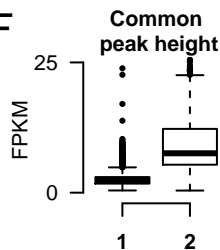
D



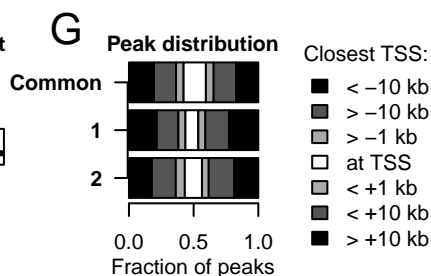
E



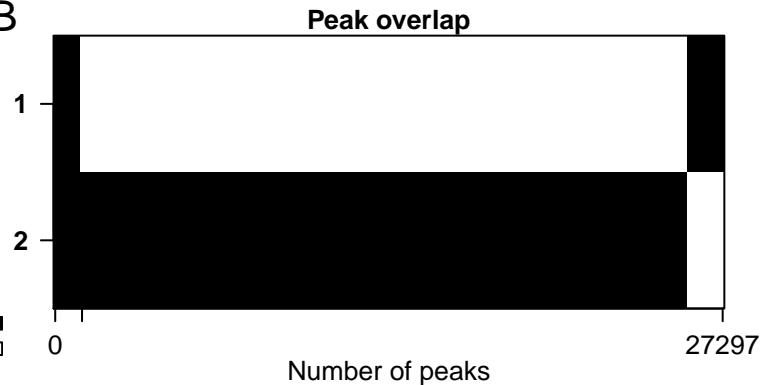
F



G



B



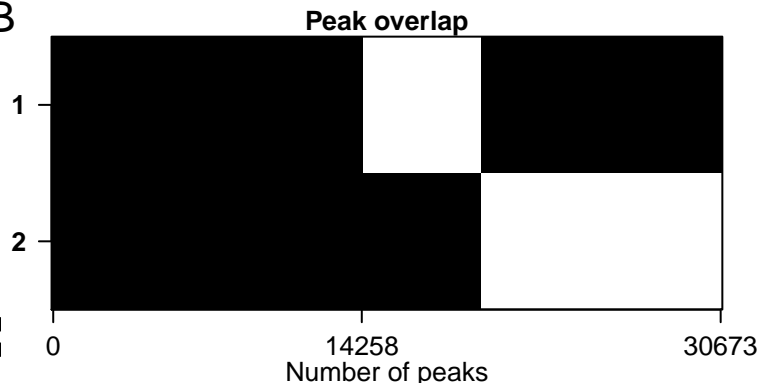
A

GM12878 None PAX5 (similar)

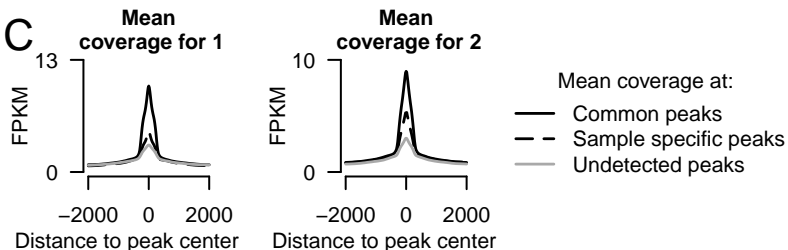
1 – HaibGm12878Pax5c20Pcr1xUniPk
2 – HaibGm12878Pax5n19Pcr1xUniPk

Peak detected ■
No peak detected □

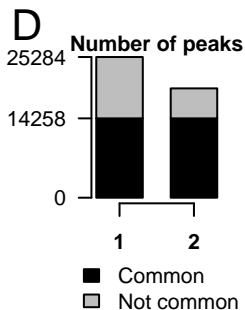
B



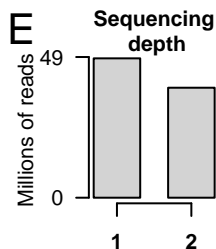
C



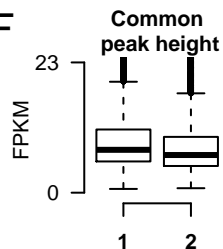
D



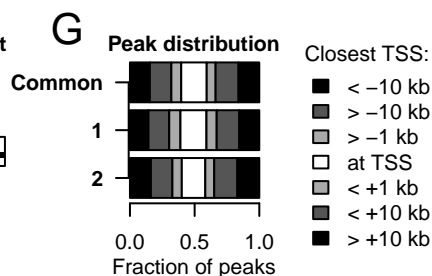
E



F



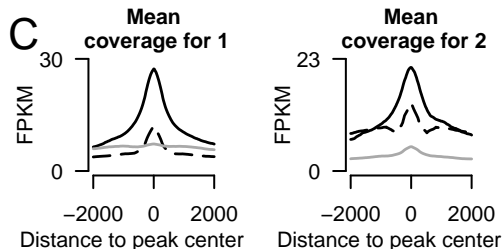
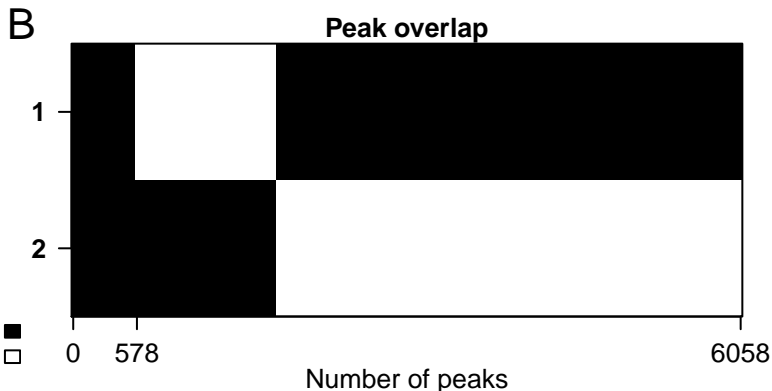
G



A K562 None Pol2 phosphoS2 (dissimilar)

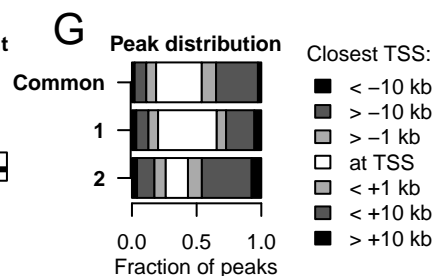
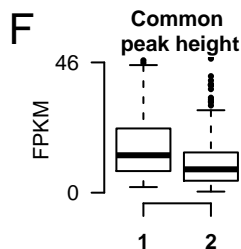
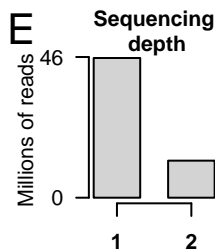
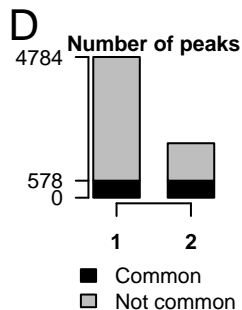
1 - SydhK562Pol2s2IggrabUniPk
2 - SydhK562Pol2s2UniPk

Peak detected ■
No peak detected □



Mean coverage at:

- Common peaks
- - Sample specific peaks
- Undetected peaks



A

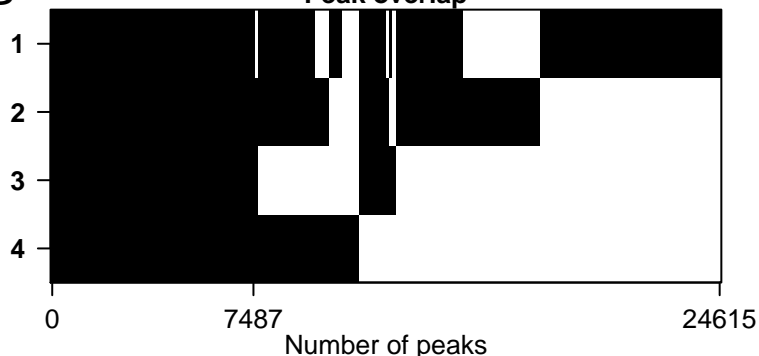
GM12878 None Pol2 (sensitive)

1 – HaibGm12878Pol2Pcr2xUniPk
 2 – SydhGm12878Pol2IggmusUniPk
 3 – SydhGm12878Pol2UniPk
 4 – UtaGm12878Pol2UniPk

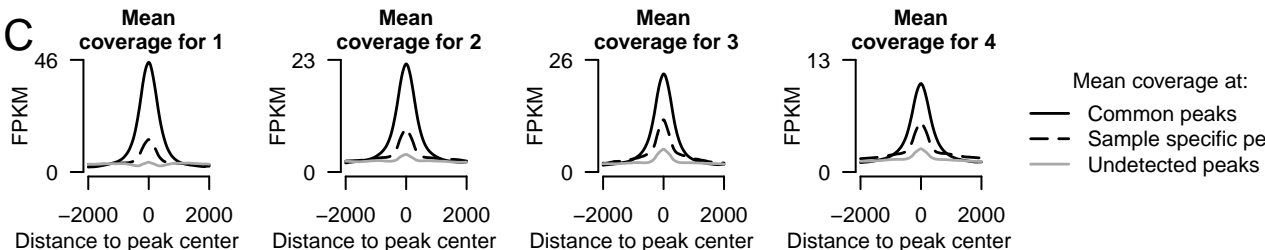
Peak detected ■
 No peak detected □

B

Peak overlap

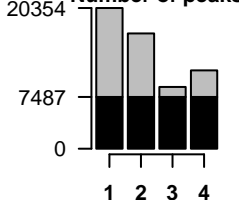


C



D

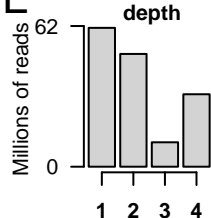
Number of peaks



■ Common
 □ Not common

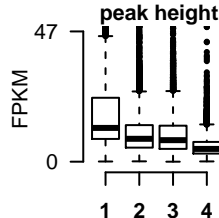
E

Sequencing depth



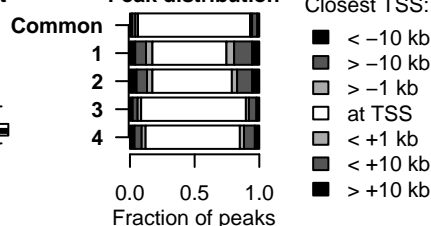
F

Common peak height



G

Peak distribution



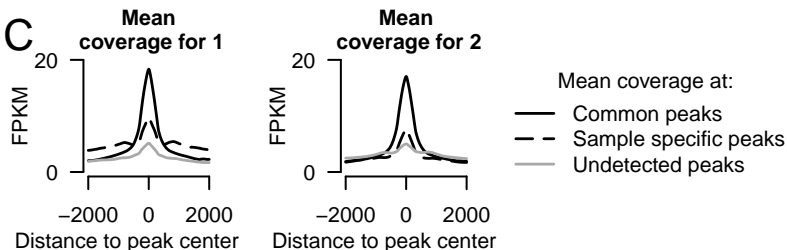
A

GM12891 None Pol2 (similar)

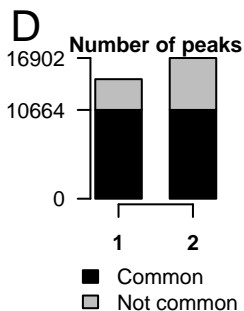
1 – HaibGm12891Pol2Pcr1xUniPk
2 – SydhGm12891Pol2IggmusUniPk

Peak detected ■
No peak detected □

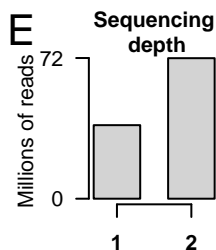
C



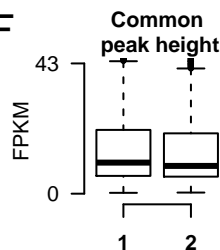
D



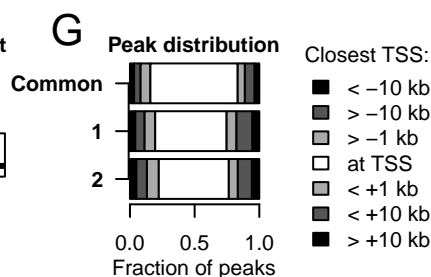
E



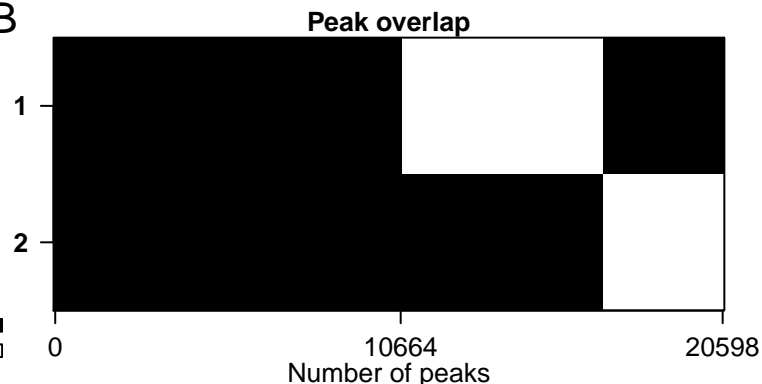
F



G



B

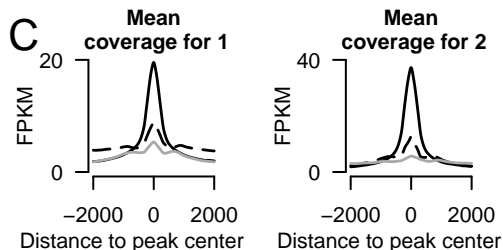


A

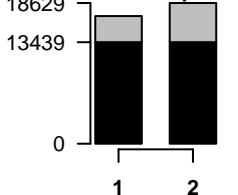
GM12892 None Pol2 (similar)

1 – HaibGm12892Pol2V0416102UniPk
2 – SydhGm12892Pol2IggmusUniPk

Peak detected ■
No peak detected □

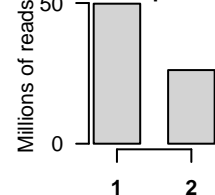


D Number of peaks



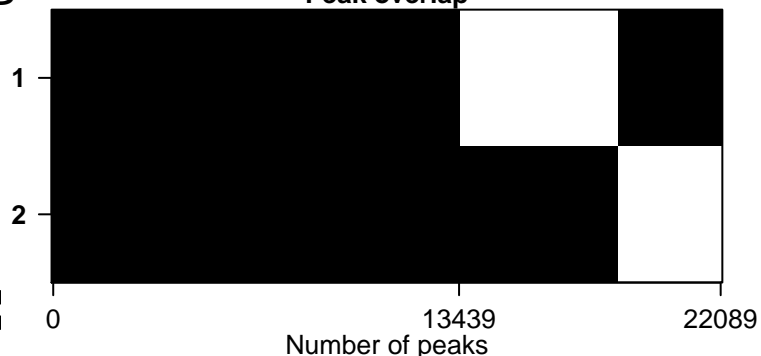
■ Common
□ Not common

E Sequencing depth



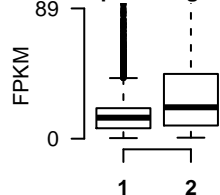
B

Peak overlap

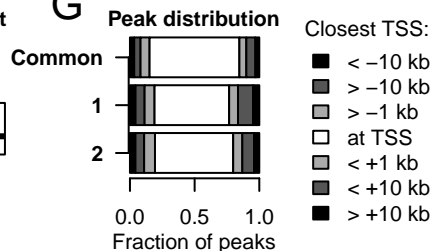


D

F Common peak height



G



A

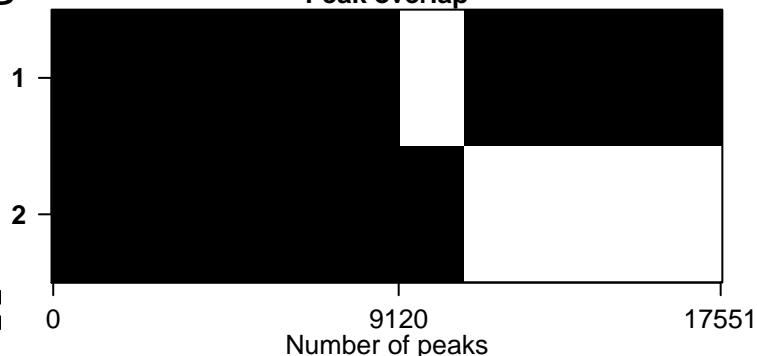
H1-hESC None Pol2 (similar)

1 - HaibH1hescPol2V0416102UniPk
2 - UtaH1hescPol2UniPk

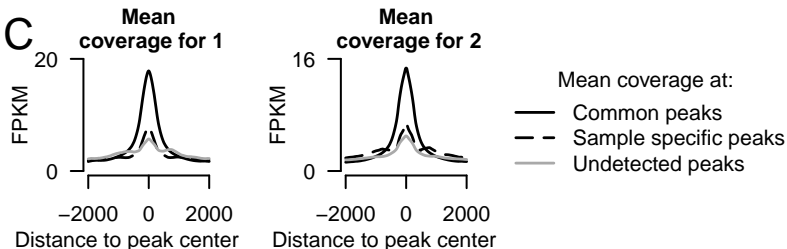
Peak detected ■
No peak detected □

B

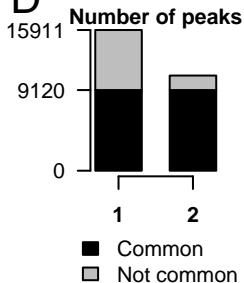
Peak overlap



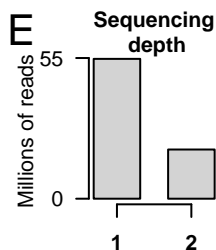
C



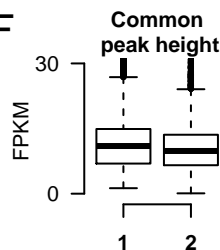
D



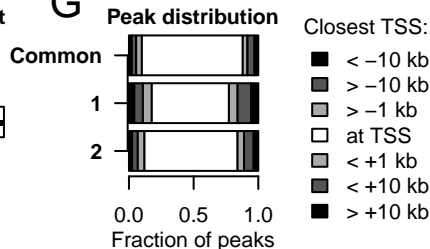
E



F



G



A

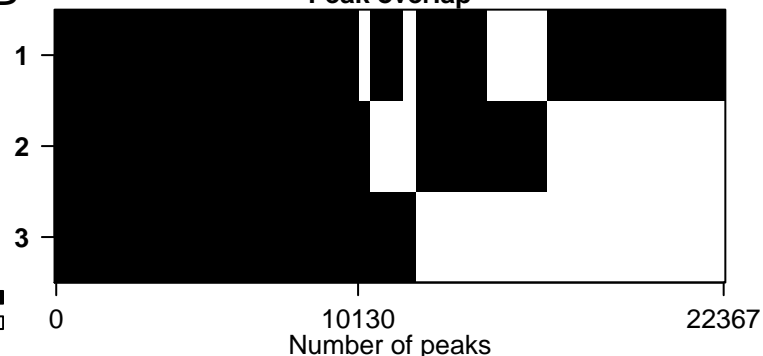
HeLa-S3 None Pol2 (similar)

1 – HaibHelas3Pol2Pcr1xUniPk
2 – SydhHelas3Pol2UniPk
3 – UtaHelas3Pol2UniPk

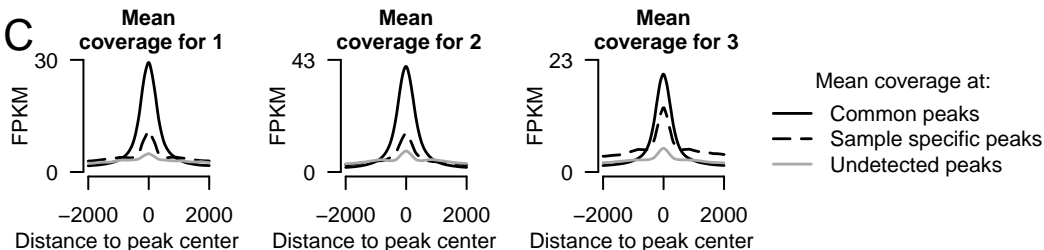
Peak detected ■
No peak detected □

B

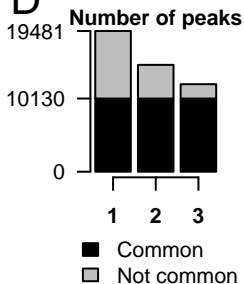
Peak overlap



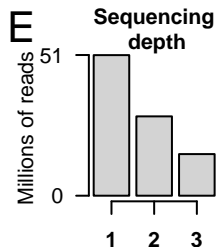
C



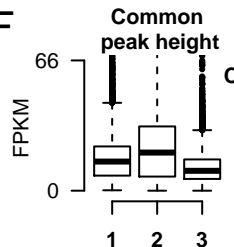
D



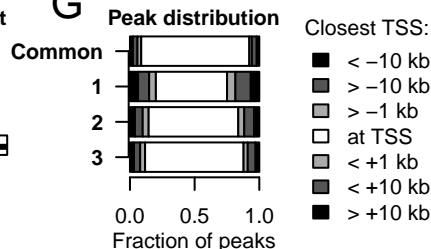
E



F



G



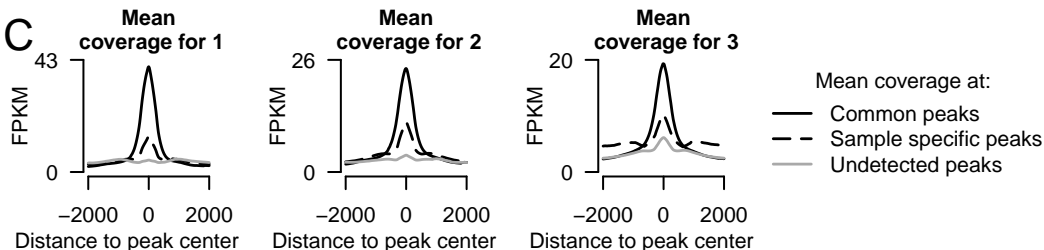
A

HepG2 None Pol2 (dissimilar)

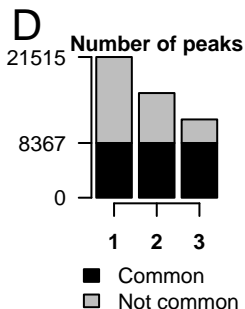
- 1 – HaibHepg2Pol2Pcr2xUniPk
 2 – SydhHepg2Pol2lggrabUniPk
 3 – UtaHepg2Pol2UniPk

Peak detected ■
 No peak detected □

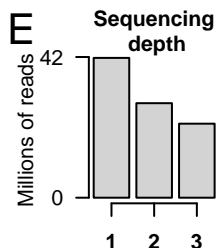
C



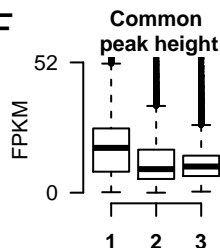
D



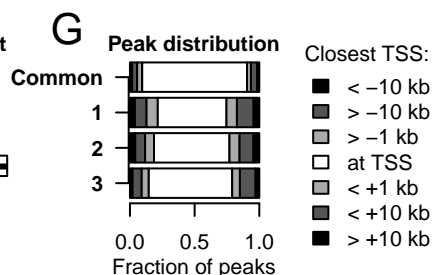
E



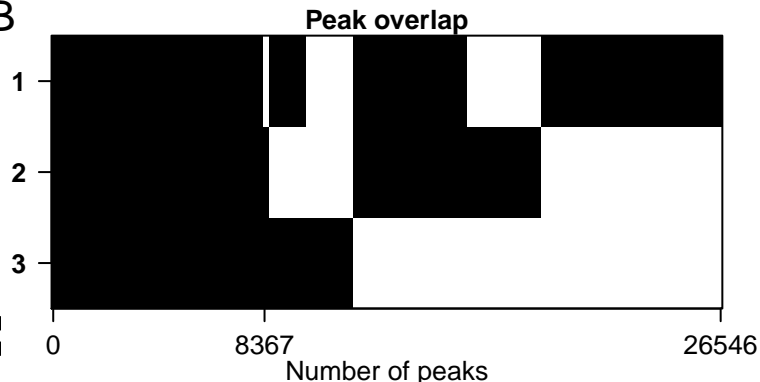
F



G



B



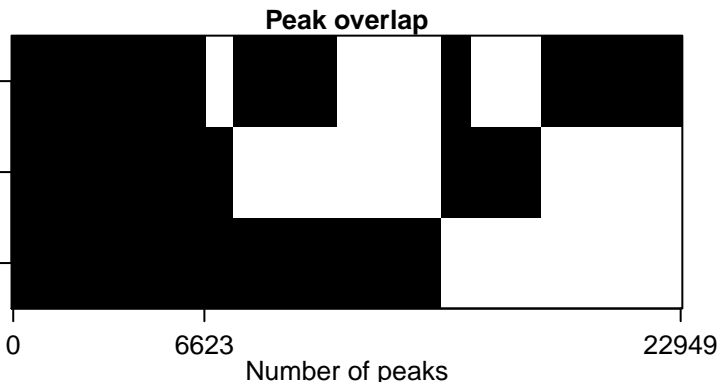
A

HUVEC None Pol2 (dissimilar)

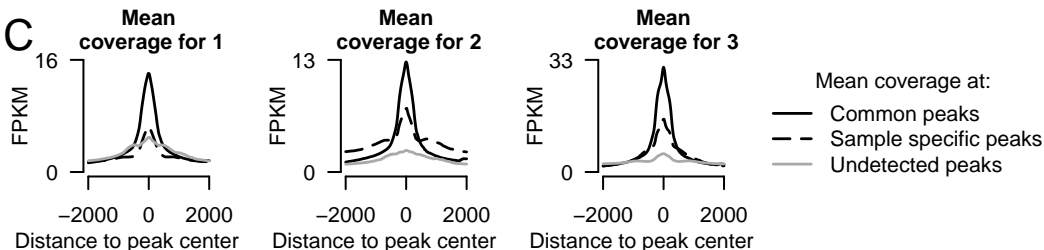
1 – HaibHuvecPol2Pcr1xUniPk
2 – SydhHuvecPol2UniPk
3 – UtaHuvecPol2UniPk

Peak detected ■
No peak detected □

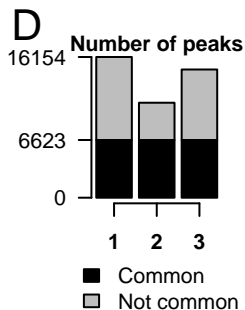
B



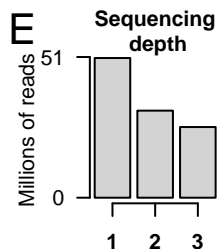
C



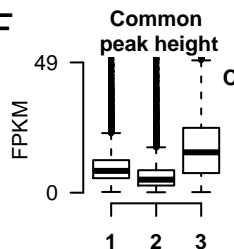
D



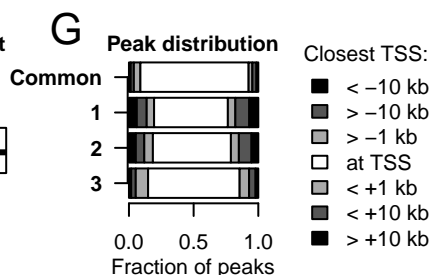
E



F



G



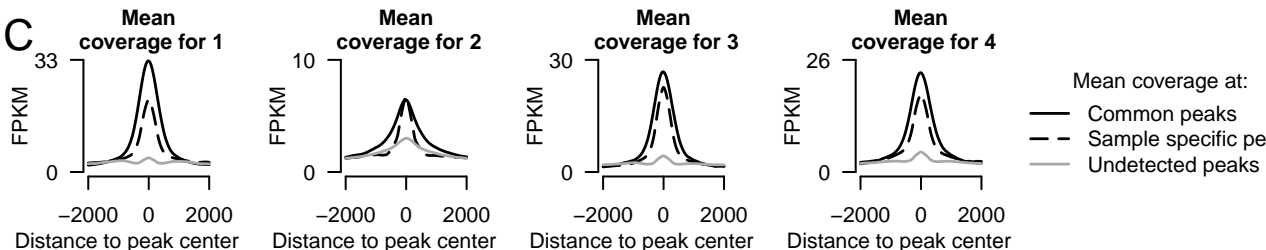
A

K562 None Pol2 (dissimilar)

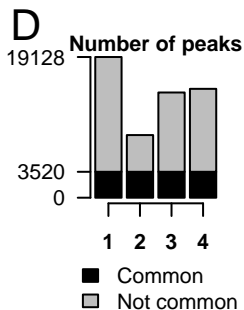
- 1 – HaibK562Pol2V0416101UniPk
 2 – SydhK562Pol2IggmusUniPk
 3 – SydhK562Pol2UniPk
 4 – UtaK562Pol2UniPk

Peak detected ■
 No peak detected □

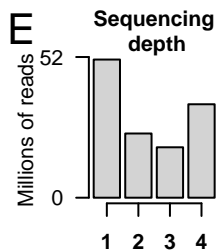
C



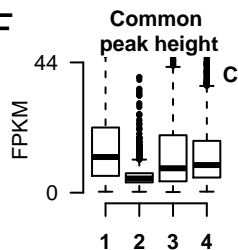
D



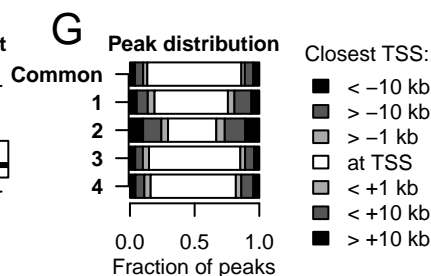
E



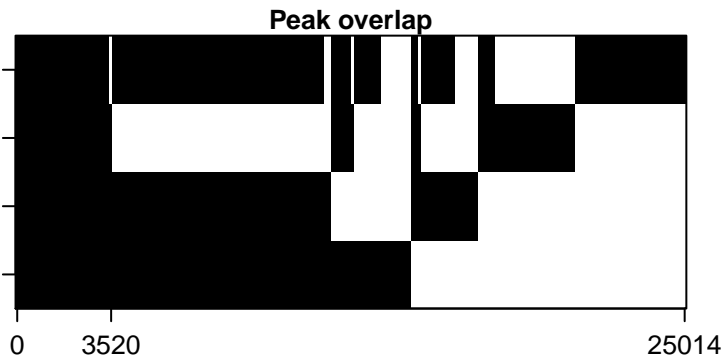
F



G



B

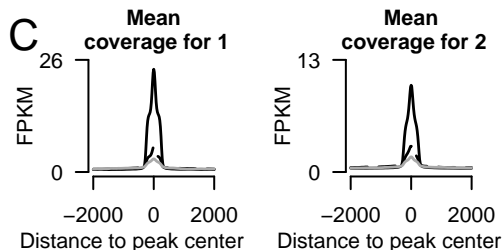


A

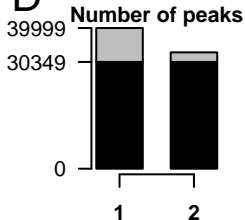
GM12878 None Rad21 (similar)

1 – HaibGm12878Rad21V0416101UniPk
2 – SydhGm12878Rad21lggrabUniPk

Peak detected ■
No peak detected □

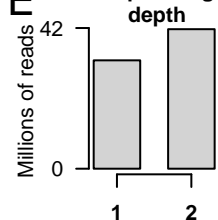


D



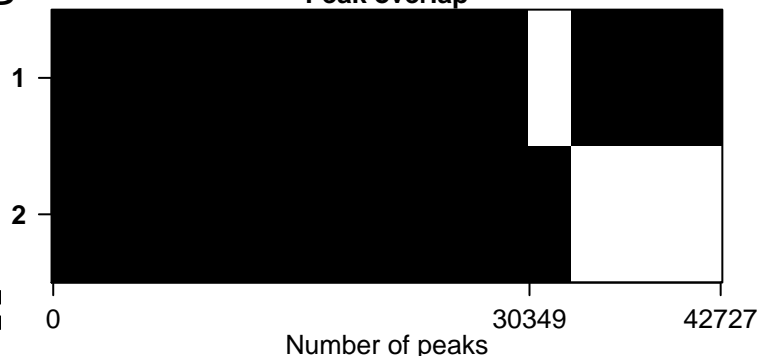
■ Common
□ Not common

E

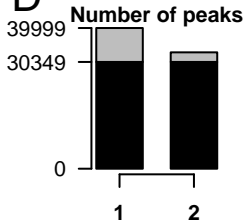


B

Peak overlap

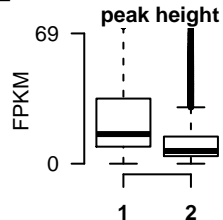


D

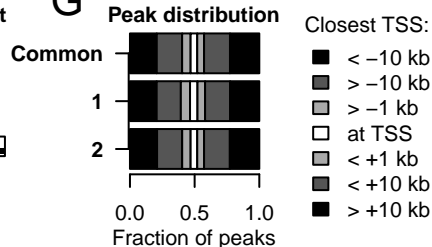


■ Common
□ Not common

F



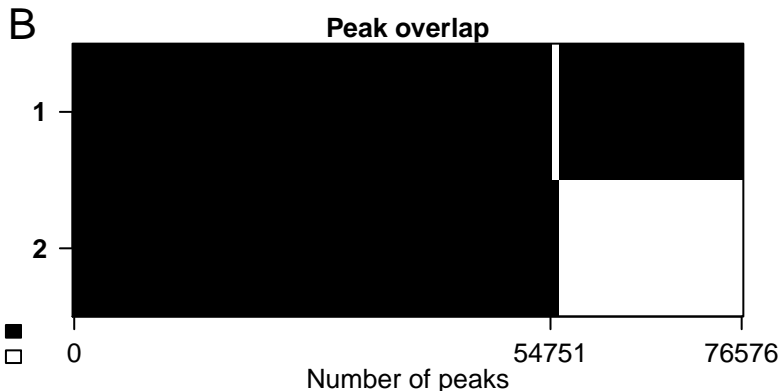
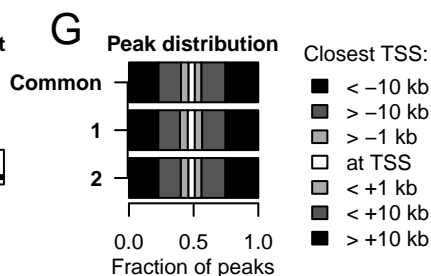
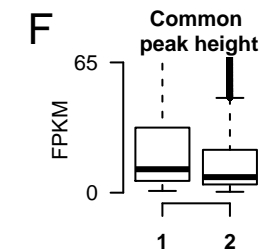
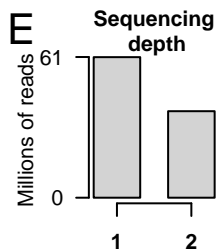
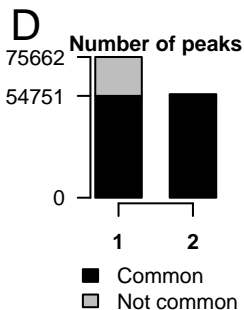
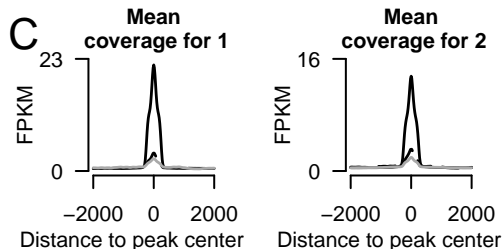
G



A H1-hESC None Rad21 (similar)

1 – HaibH1hesRad21V0416102UniPk
2 – SydhH1hesRad21lggrabUniPk

Peak detected ■
No peak detected □



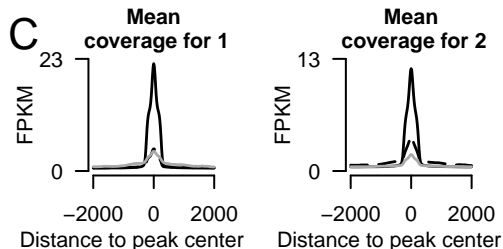
Supplementary figure 52: H1-hESC None Rad21 (similar)

A

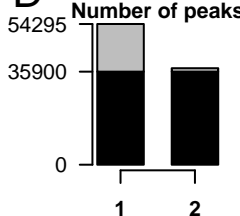
HepG2 None Rad21 (similar)

1 – HaibHepg2Rad21V0416101UniPk
2 – SydhHepg2Rad21lggrabUniPk

Peak detected ■
No peak detected □

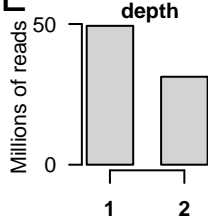


D Number of peaks



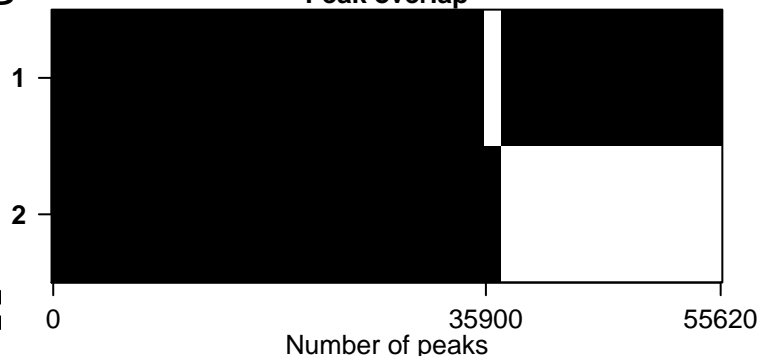
■ Common
□ Not common

E Sequencing depth

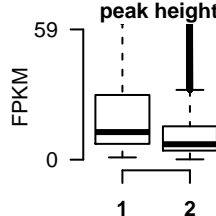


B

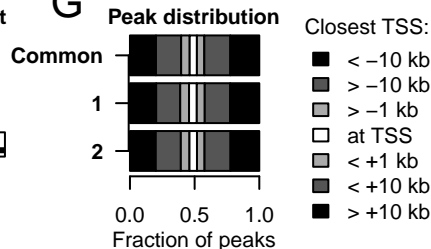
Peak overlap



F Common peak height



G

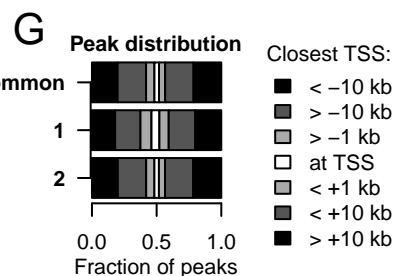
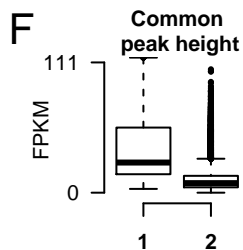
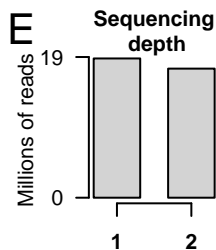
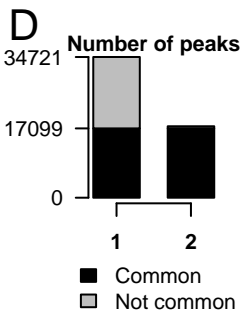
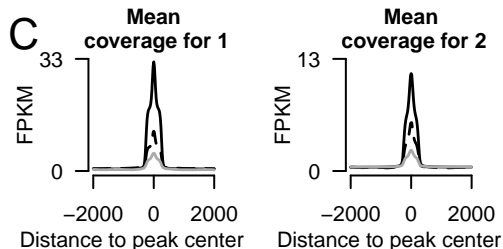


A

K562 None Rad21 (dissimilar)

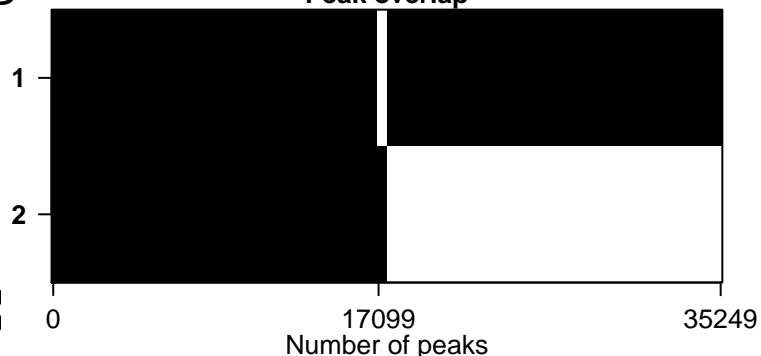
1 – HaibK562Rad21V0416102UniPk
2 – SydhK562Rad21UniPk

Peak detected
No peak detected



B

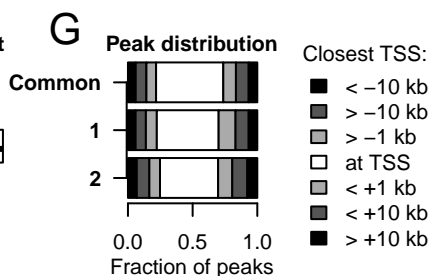
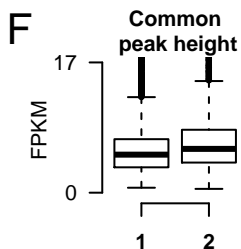
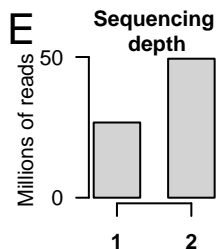
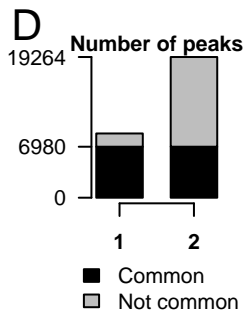
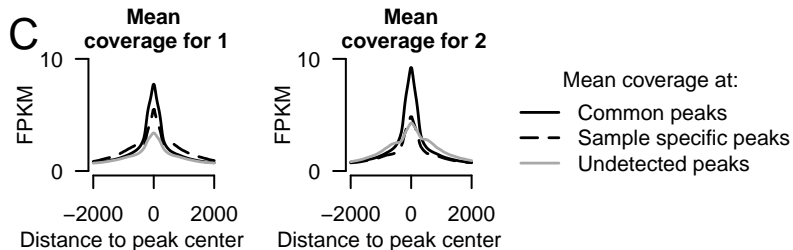
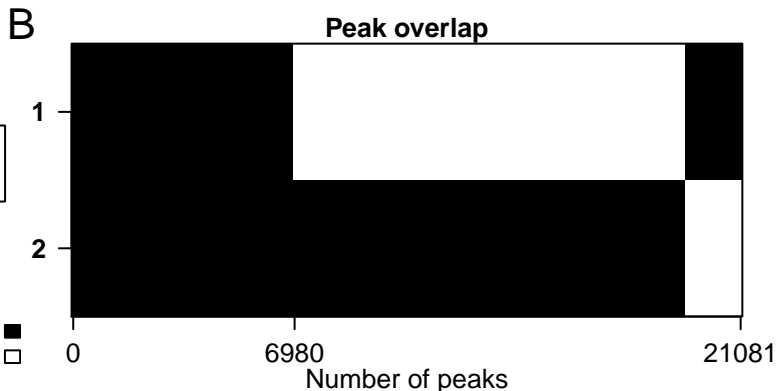
Peak overlap



A H1-hESC None SIN3A (sensitive)

1 - HaibH1hesSin3ak20Pcr1xUniPk
2 - SydhH1hesSin3anb6001263lggrabUniPk

Peak detected ■
No peak detected □



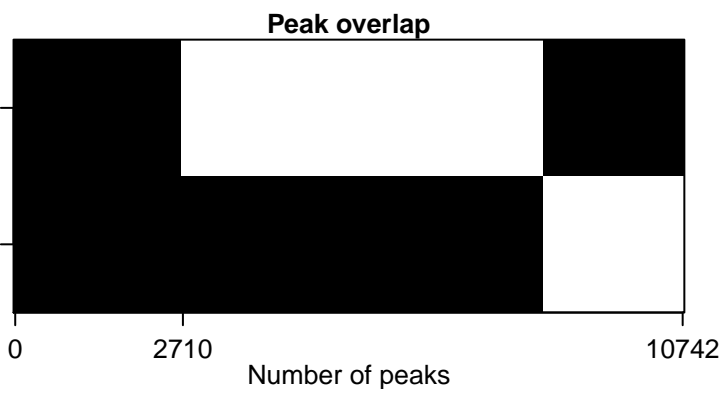
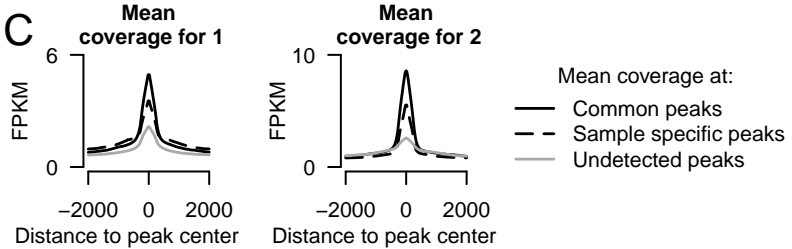
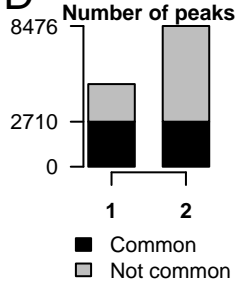
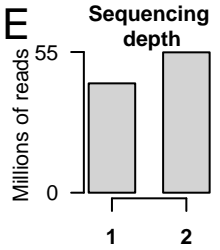
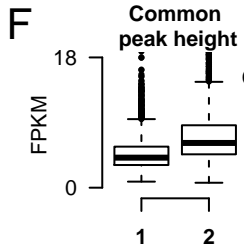
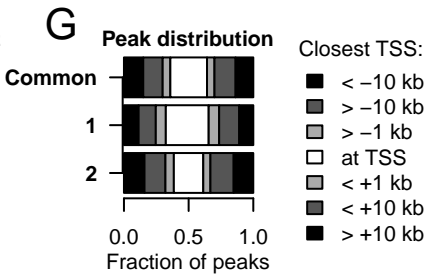
Supplementary figure 55: H1-hESC None SIN3A (sensitive)

A

K562 None TBLR1 (dissimilar)

1 – SydhK562Tblr1ab24550lggrabUniPk
2 – SydhK562Tblr1nb600270lggrabUniPk

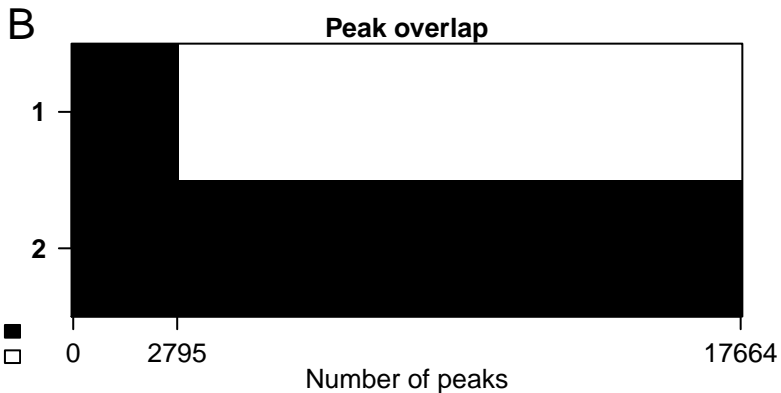
Peak detected ■
No peak detected □

B**C****D****E****F****G**

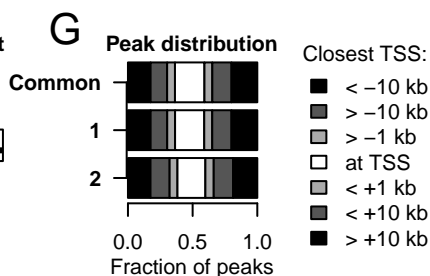
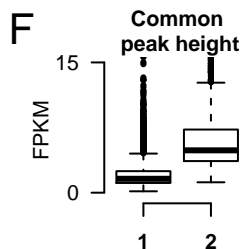
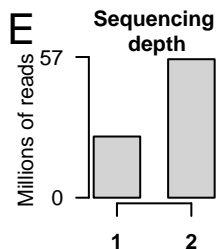
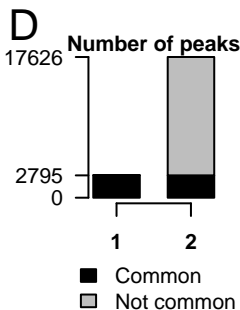
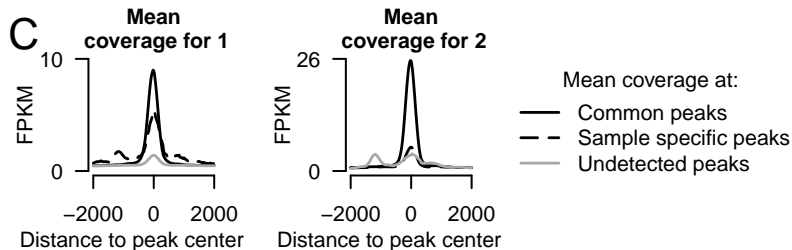
Supplementary figure 56: K562 None TBLR1 (dissimilar)

A HeLa-S3 None TCF7L2 (sensitive)

1 – SydhHelas3Tcf7l2UcdUniPk
2 – SydhHelas3Tcf7l2c9b92565UcdUniPk



Peak detected ■
No peak detected □

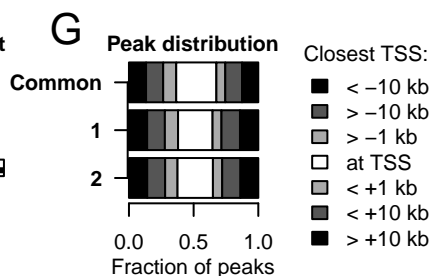
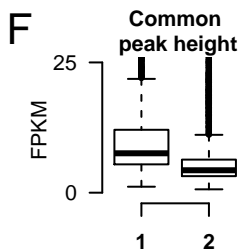
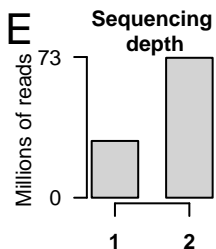
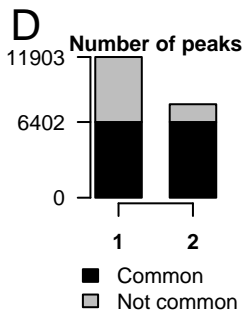
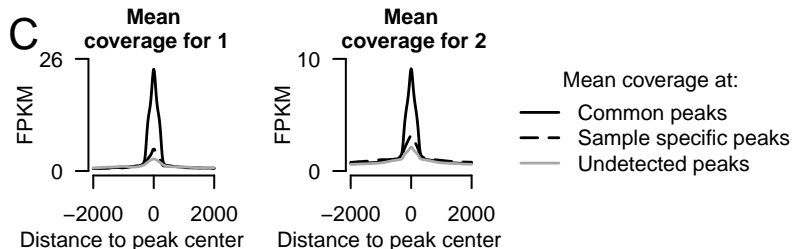
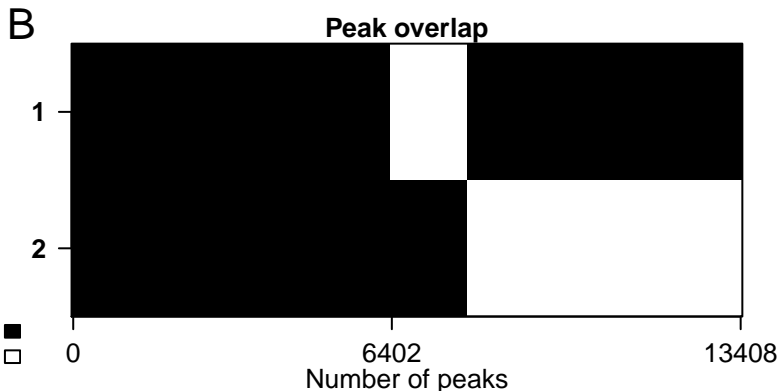


A

A549 EtOH 0.02pct USF1 (similar)

1 – HaibA549Usf1Pcr1xEtoh02UniPk
 2 – HaibA549Usf1V0422111Etoh02UniPk

Peak detected ■
 No peak detected □

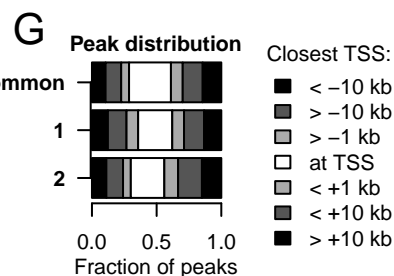
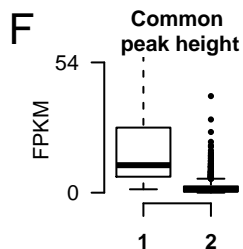
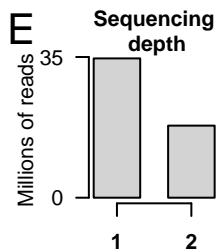
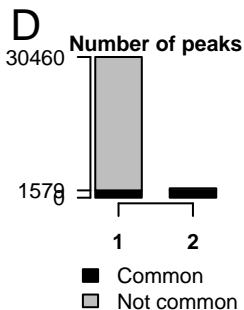
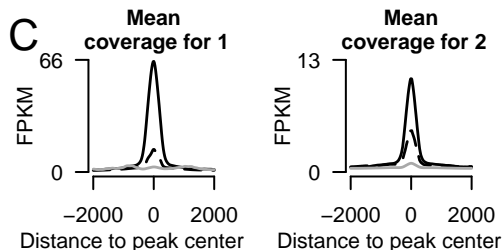


A

GM12878 None YY1 (sensitive)

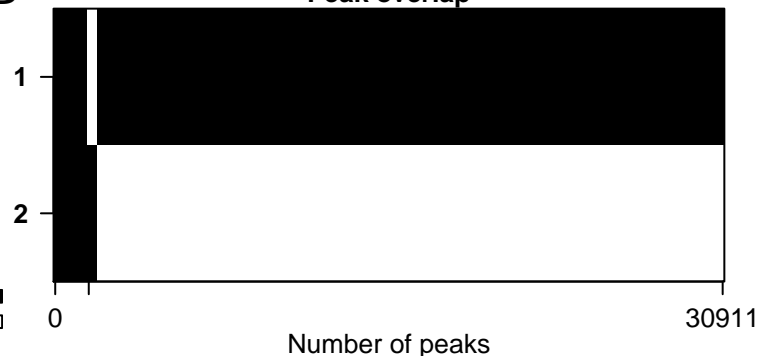
1 – HaibGm12878Yy1sc281Pcr1xUniPk
2 – SydhGm12878Yy1UniPk

Peak detected ■
No peak detected □



B

Peak overlap



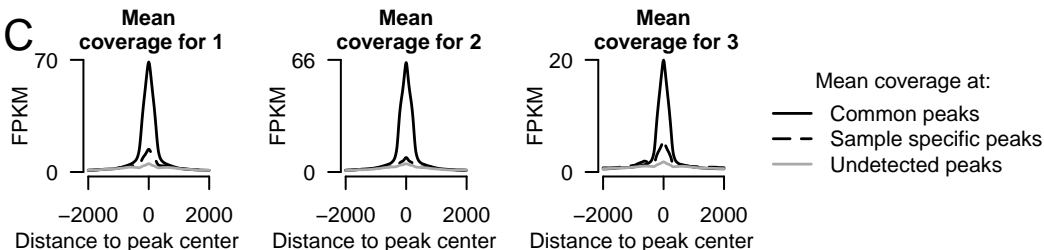
A

K562 None YY1 (sensitive)

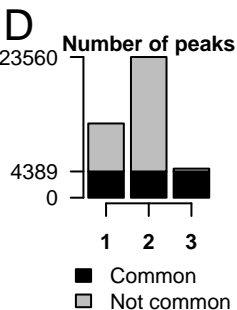
1 - HaibK562Yy1V0416101UniPk
2 - HaibK562Yy1V0416102UniPk
3 - SydhK562Yy1UcdUniPk

Peak detected ■
No peak detected □

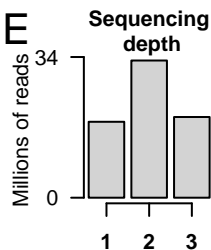
C



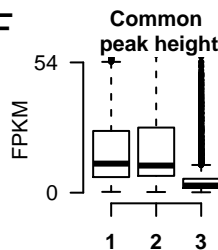
D



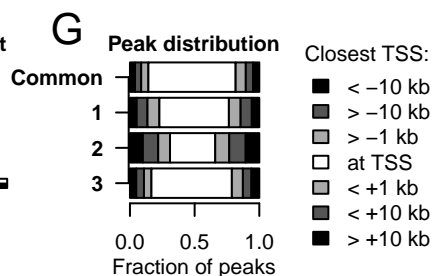
E



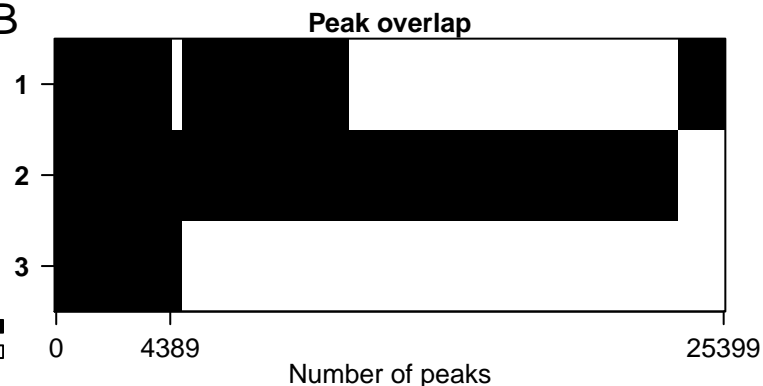
F



G



B

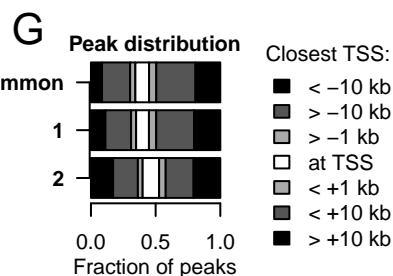
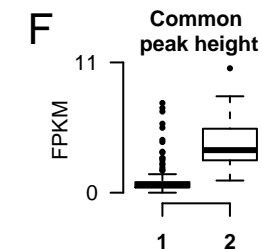
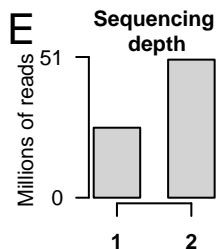
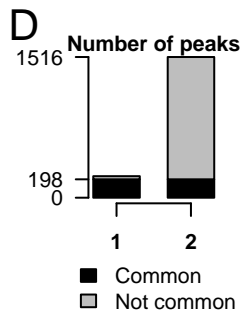
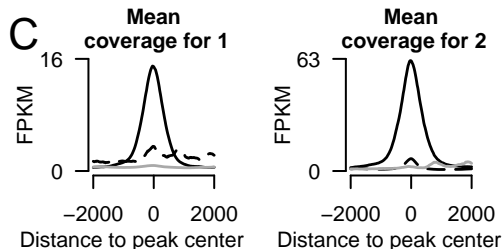


A

K562 None ZNF274 (sensitive)

1 – SydhK562Znf274UcdUniPk
2 – SydhK562Znf274m01UcdUniPk

Peak detected ■
No peak detected □



B

