

LINK Vary tg

tg=3.0	tc=1.5	R >0.5	overlap with ChIP-on-chip data (P <= 0.005): 217/940=0.2309
tg=4.0	tc=1.5	R >0.5	overlap with ChIP-on-chip data (P <= 0.005): 97/244=0.3975 (our choice of tg)
tg=5.0	tc=1.5	R >0.5	overlap with ChIP-on-chip data (P <= 0.005): 34/82=0.4146

At tg=5.0 the overlap with ChIP-on-chip is slightly bigger than at tg=4.0.

However, the number of predictions decreases by factor of three.

Our choice of tg=4.0, which is more restrictive than the one used by Ihmels et al (tg=3.0), leads to a better overlap with currently available ChIP-on-chip data

STAR Vary tg

tg=3.0	tc=1.5	R >0.7	overlap with ChIP-on-chip data (P <= 0.005): 234/539=0.4341
tg=4.0	tc=1.5	R >0.7	overlap with ChIP-on-chip data (P <= 0.005): 190/419=0.4535 (our choice of tg)
tg=5.0	tc=1.5	R >0.7	overlap with ChIP-on-chip data (P <= 0.005): 180/413=0.4358

LINK Vary tc

tg=4.0	tc=1.0	R >0.5	overlap with ChIP-on-chip data (P <= 0.005): 62/159=0.3899
tg=4.0	tc=1.5	R >0.5	overlap with ChIP-on-chip data (P <= 0.005): 97/244=0.3975 (our choice of tc)
tg=4.0	tc=2.0	R >0.5	overlap with ChIP-on-chip data (P <= 0.005): 118/333=0.3544

STAR Vary tc

tg=4.0	tc=1.0	R >0.7	overlap with ChIP-on-chip data (P <= 0.005): 154/345=0.4464
tg=4.0	tc=1.5	R >0.7	overlap with ChIP-on-chip data (P <= 0.005): 190/419=0.4535 (our choice of tc)
tg=4.0	tc=2.0	R >0.7	overlap with ChIP-on-chip data (P <= 0.005): 190/464=0.4095

LINK Vary R

tg=4.0	tc=1.5	R >0.3	overlap with ChIP-on-chip data (P <= 0.005): 161/434=0.3710
tg=4.0	tc=1.5	R >0.5	overlap with ChIP-on-chip data (P <= 0.005): 97/244=0.3975 (our choice of R)
tg=4.0	tc=1.5	R >0.7	overlap with ChIP-on-chip data (P <= 0.005): 32/84=0.3810

STAR Vary R

tg=4.0	tc=1.5	R >0.5	overlap with ChIP-on-chip data (P <= 0.005): 261/681=0.3833
tg=4.0	tc=1.5	R >0.7	overlap with ChIP-on-chip data (P <= 0.005): 190/419=0.4535 (our choice of R)
tg=4.0	tc=1.5	R >0.9	overlap with ChIP-on-chip data (P <= 0.005): 10/25=0.4

For the restrictive values we choose for tc and tg, the cutoff R has a noticeable (monotonic) effect on the number of predictions (coverage), but a smaller effect on the overlap with ChIP-on-chip data.