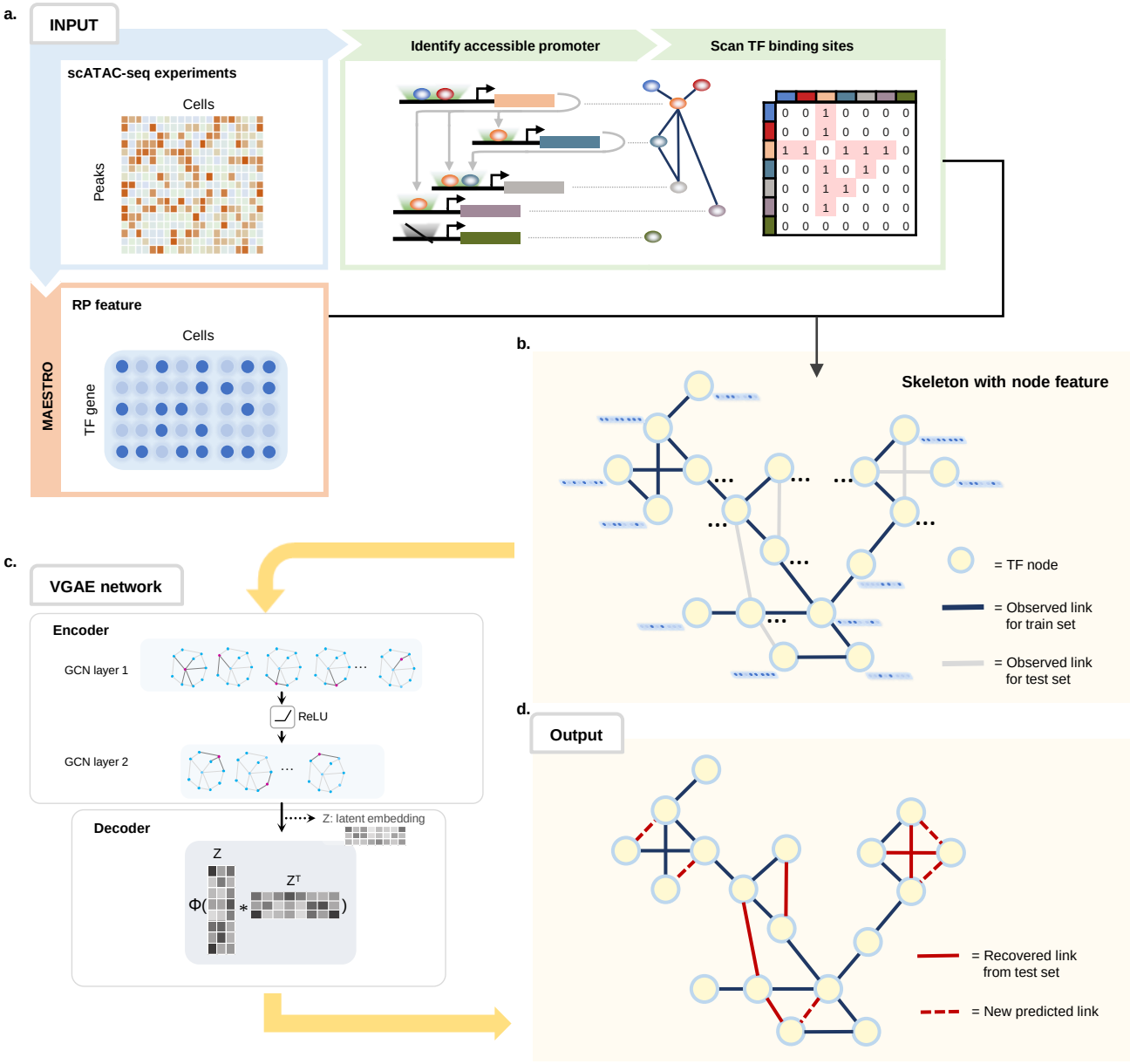
a.
INPUT
scATAC-seq experiments
Cells
Peaks
Identify accessible promoter
Scan TF binding sites
MAESTRO
RP feature
Cells
TF gene
b.
Skeleton with node feature
= TF node
= Observed link for train set
= Observed link for test set
c.
VGAE network
Encoder
GCN layer 1
ReLU
GCN layer 2
Z: latent embedding
Decoder
Z
Z^T
Φ(
*
)
d.
Output
= Recovered link from test set
= New predicted link