

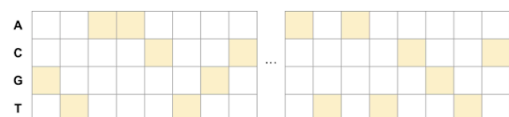
a

ATCAGTGCAAGT  
 TCAGTGCAAGTC  
 AATCAGTGCAAG  
 ACTTGCACTGAT  
 CTTGCACTGATT  
 GACTTGCACTGA

1. Input one-hot  
 encoded sequences to  
 train model.

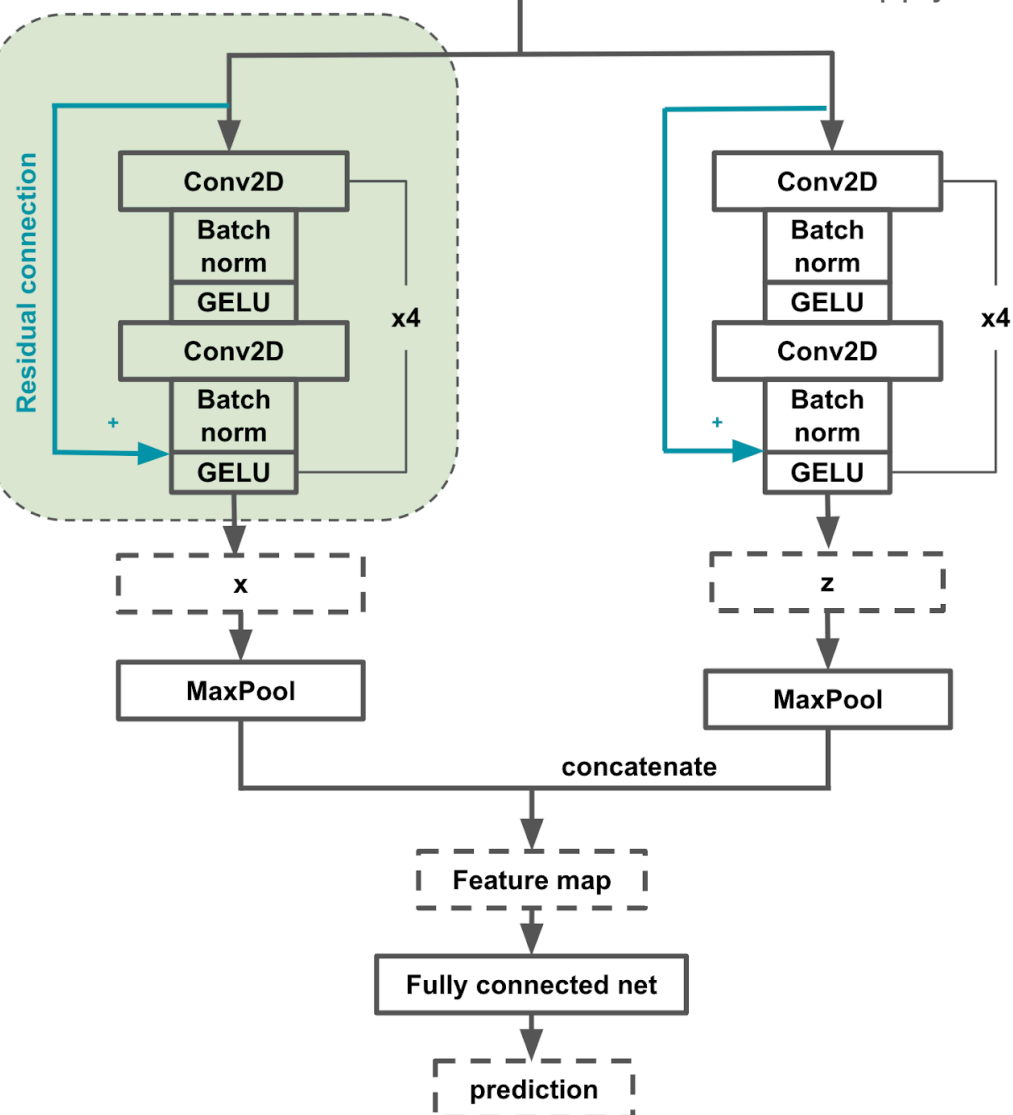
b

HEAD

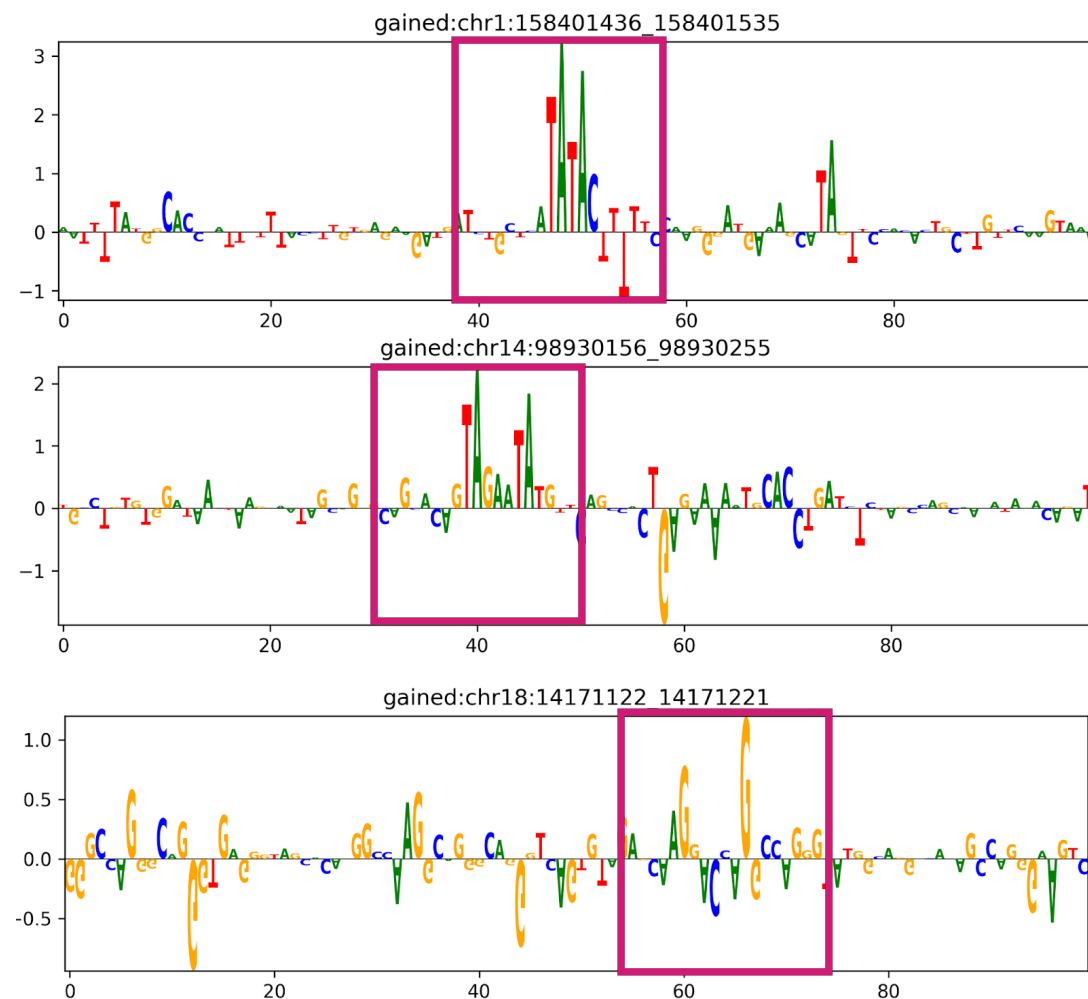


3. Identify subsequences  
 with highest DeepLIFT  
 scores within gained  
 sites.

2. Apply DeepLIFT.



c



4. Input subsequences for  
 motif enrichment analysis  
 software such as HOMER.

d

	Motif	Name
1	AA <del>T</del> AGGTCA	RORgt
2	GGGAAAGGGCCAG <del>ATG</del>	RBPJ
3	GGCCATTAA <del>C</del>	Nanog
4	ATATGCAA <del>AT</del>	Oct2
5	TCC <del>AT</del> AAAA	Hoxd13