$af_{g,tf}$: affinity score of TF tf to g R_q : set of regions mapped to g $af_{r,tf}$: affinity of tf in rif $d_{r,g} \le 2500bp$ ml_{tf} : motif length of tfotherwise A_r : activity of r $A_{r,q}$: adapted activity of r to g $d_{r,q}$: distance of r to g d_0 : distance constant of 5000 bp