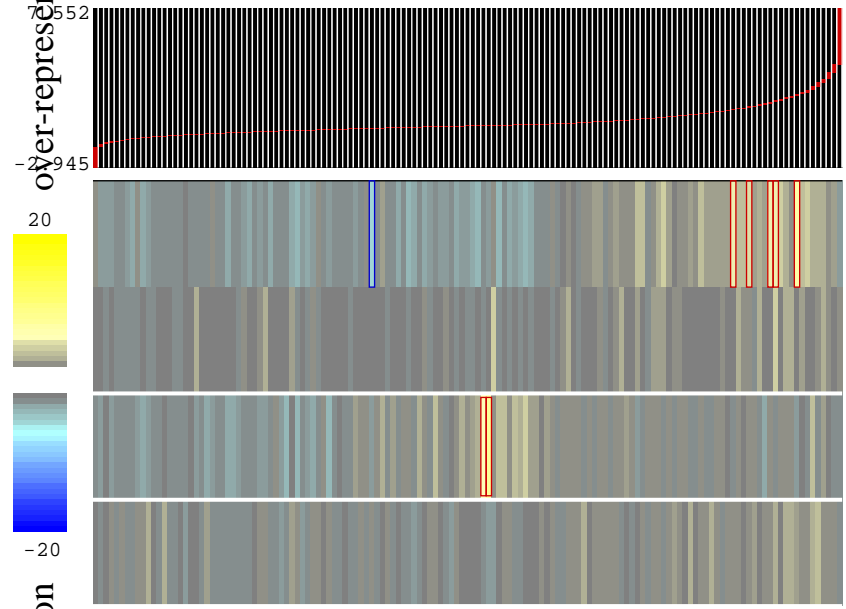


Over-representation

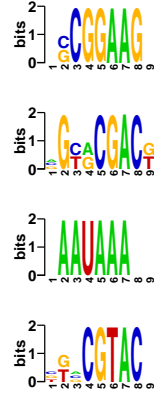


representation

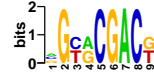


cysteine protease inhibitor activity,  $p < 1e-04$

ribonucleoprotein complex,  $p < 4e-01$   
 protein biosynthesis,  $p < 1e-04$   
 immune system process,  $p < 1e-07$



optimized motif



location



MI (bits)



z-score

robustness

position bias

orientation bias

conservation index

seed

motif name

location	MI (bits)	z-score	robustness	position bias	orientation bias	conservation index	seed	motif name
5'	0.031	28.0	10/10	Y	-	1.00	CCGGAAG	NRF-2
5'	0.015	7.4	8/10	-	-	0.60	GCGGAC	-
3'UTR	0.016	10.1	10/10	-	→	1.00	AAUAAA	-
5'	0.013	6.1	6/10	-	→	0.93	TCCGTAC	-