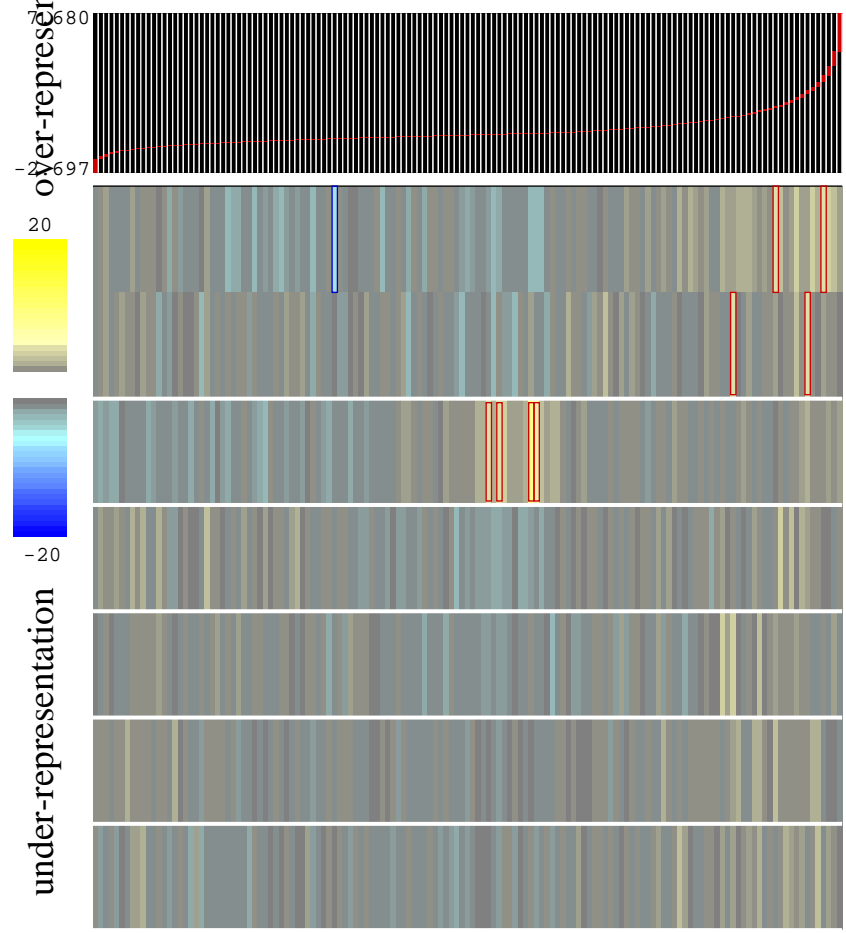


over-representation

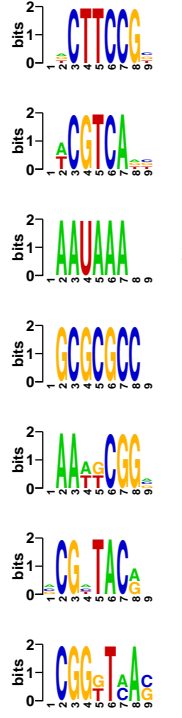


under-representation

-20



optimized motif



location	MI (bits)	z-score	robustness	Position bias	orientation bias	conservation index	seed	motif name
5'	0.028	24.5	10/10	Y	-	1.00	ACTTCCG	NRF-2
5'	0.014	8.3	10/10	-	→	0.91	ACGTCAG	ATF
3'UTR	0.017	11.3	10/10	Y	→	1.00	AAUAAAA	-
5'	0.014	8.2	9/10	-	-	0.98	GCGCGCC	-
5'	0.014	7.7	6/10	-	←	0.88	AAAGCGG	-
5'	0.014	7.5	7/10	-	-	0.81	CGCTACG	-
5'	0.013	6.5	7/10	-	-	0.90	CGGTCA	-