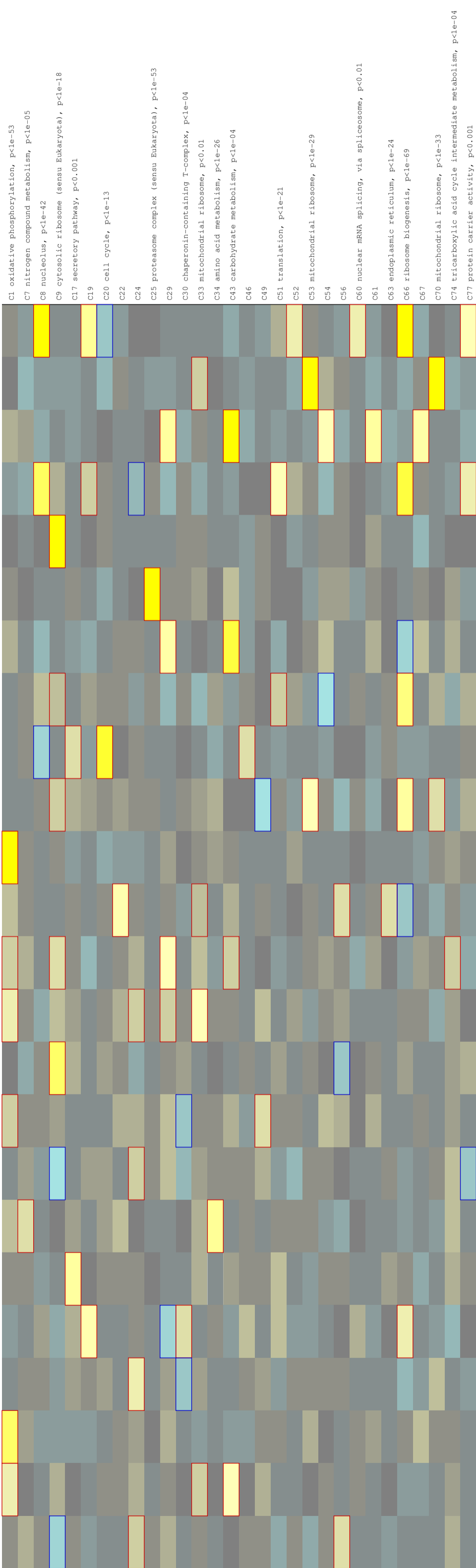


over-representation

under-representation

20

-20



C1 oxidative phosphorylation, p<1e-53
 C7 nitrogen compound metabolism, p<1e-05
 C8 nucleolus, p<1e-42
 C9 cytosolic ribosome (sensu Eukaryota), p<1e-18
 C17 secretory pathway, p<0.001
 C19
 C20 cell cycle, p<1e-13
 C22
 C24
 C25 proteasome complex (sensu Eukaryota), p<1e-53
 C29
 C30 chaperonin-containing T-complex, p<1e-04
 C33 mitochondrial ribosome, p<0.01
 C34 amino acid metabolism, p<1e-26
 C43 carbohydrate metabolism, p<1e-04
 C46
 C49
 C51 translation, p<1e-21
 C52
 C53 mitochondrial ribosome, p<1e-29
 C54
 C56
 C60 nuclear mRNA splicing, via spliceosome, p<0.01
 C61
 C63 endoplasmic reticulum, p<1e-24
 C66 ribosome biogenesis, p<1e-69
 C67
 C70 mitochondrial ribosome, p<1e-33
 C74 tricarboxylic acid cycle intermediate metabolism, p<1e-04
 C77 protein carrier activity, p<0.001

bits	Optimized motif	Location	MI (bits)	z-score	Robustness	Position bias	orientation bias	conservation index	seed	motif name
bits 0 2 1 2 3 4 5 6 7 8		5'	0.069	38.4	10/10	Y	-	1.00	CTCATC	PAC
bits 0 2 1 2 3 4 5 6 7 8		3'UTR	0.047	23.7	10/10	Y	→	1.00	GUAAAU	PUF3
bits 0 2 1 2 3 4 5 6 7 8		5'	0.046	23.8	10/10	Y	-	1.00	AAGGGG	MSN24
bits 0 2 1 2 3 4 5 6 7 8		5'	0.035	17.0	10/10	Y	-	1.00	AAATTT	-
bits 0 2 1 2 3 4 5 6 7 8		5'	0.033	14.5	10/10	Y	→	0.97	CCGTAC	RAP1
bits 0 2 1 2 3 4 5 6 7 8		5'	0.032	13.9	10/10	Y	←	1.00	GCCACC	-
bits 0 2 1 2 3 4 5 6 7 8		5'	0.030	13.4	10/10	-	→	1.00	CAGGGG	-
bits 0 2 1 2 3 4 5 6 7 8		5'	0.028	12.1	10/10	Y	←	0.99	TTTTCA	STE12
bits 0 2 1 2 3 4 5 6 7 8		5'	0.028	11.7	10/10	-	-	1.00	AACGCG	MBP1
bits 0 2 1 2 3 4 5 6 7 8		3'UTR	0.028	12.1	10/10	Y	→	1.00	UGUAUA	PUF4
bits 0 2 1 2 3 4 5 6 7 8		5'	0.027	11.4	10/10	Y	→	0.99	CCAATC	HAP4
bits 0 2 1 2 3 4 5 6 7 8		5'	0.026	10.6	10/10	-	-	0.99	CGGGCC	-
bits 0 2 1 2 3 4 5 6 7 8		5'	0.026	10.3	9/10	Y	-	1.00	CCCCGC	-
bits 0 2 1 2 3 4 5 6 7 8		5'	0.025	10.3	10/10	-	←	0.99	CGCACG	-
bits 0 2 1 2 3 4 5 6 7 8		3'UTR	0.025	10.6	10/10	-	→	0.99	UAUAAU	-
bits 0 2 1 2 3 4 5 6 7 8		5'	0.023	8.7	8/10	-	→	0.96	CGCTCC	-
bits 0 2 1 2 3 4 5 6 7 8		3'UTR	0.022	8.4	8/10	-	→	1.00	CACACA	-
bits 0 2 1 2 3 4 5 6 7 8		5'	0.022	7.8	8/10	-	←	1.00	CACGTG	CBF1
bits 0 2 1 2 3 4 5 6 7 8		5'	0.022	8.2	9/10	Y	→	1.00	TCTCGA	XBP1
bits 0 2 1 2 3 4 5 6 7 8		3'UTR	0.022	8.3	8/10	Y	→	1.00	UAUAGA	-
bits 0 2 1 2 3 4 5 6 7 8		3'UTR	0.021	7.5	6/10	-	→	0.99	GCGCUG	-
bits 0 2 1 2 3 4 5 6 7 8		3'UTR	0.021	7.3	7/10	-	→	1.00	AUAUUC	-
bits 0 2 1 2 3 4 5 6 7 8		5'	0.020	6.8	6/10	-	-	0.99	CGGGCC	-
bits 0 2 1 2 3 4 5 6 7 8		3'UTR	0.020	7.2	6/10	-	→	1.00	CCGCAA	-