



significantly overrepresented motifs at top activity,  $P < 1e-29$   
phosphate metabolism,  $P < 0.01$

motif name	seed	conservation index	orientation bias	position bias	robustness	z-score	MI (bits)	location	optimized motif
-	ACGTGAA	0.99	→	Y	8/10	9.8	0.017	5'	
-	AACGTGA	0.81	-	-	6/10	8.0	0.016	5'	
-	AAAUAAG	0.99	→	Y	9/10	9.0	0.016	3' UTR	