MI (bits)	z-score	robustness	position bias	orientation bias	conservation index	seed	motif name	
0.021	17.2	10/10	-	→	1.00	UUCCCCC	-	
0.017	11.5	10/10	-	←	1.00	AGAGACG	-	
0.016	10.6	10/10	-	→	0.98	ACCCTCT	-	
0.016	10.4	10/10	-	-	0.98	CTTCTTC	-	
0.015	9.1	10/10	Y	←	1.00	CATCATC	-	
0.014	7.9	8/10	Y	→	0.98	CTCGACG	-	
0.015	9.6	10/10	Y	→	0.94	CTTCTCG	-	
0.014	8.0	7/10	-	←	0.96	TCGAATC	-	
0.015	9.5	10/10	-	→	0.89	UCAUUUU	-	
0.015	9.4	9/10	-	←	0.83	AGAGAAA	-	
0.014	8.3	9/10	-	←	0.71	GAGTTCC	-	
0.014	8.1	7/10	-	→	0.87	UCGGCAA	-	
0.014	7.1	6/10	-	→	1.00	ACGGGUU	miR-51/miR-52/miR-53/miR-54/miR-55	
0.014	7.7	9/10	-	←	0.88	ACAACGA	-	
0.014	8.0	9/10	-	←	1.00	TCTTATC	-	
0.013	7.3	7/10	-	→	0.99	AUUUAUU	-	
0.013	6.7	8/10	-	→	0.99	AAUAAAC	-	

optimized motif

location

3′ UTR
5′
5′
5′
5′
5′
5′
5′
3′ UTR
5′
5′
3′ UTR
3′ UTR
5′
5′
3′ UTR
3′ UTR

under-representation

over-representation

20
−20

0.161
−0.085

non-membrane-bounded organelle, p<0.01

phosphatase transport, p<1e−02

extracellular constituent of cuticle, p<1e−14