

PubMed ID	MOTIF	ASSESSED BINDING	PREDICTION TOOLS		
			ESE finder	Splicing Rainbow	RegRNA
10094314	ACUAGAGAC	9G8	N/A	✓	×
11454855	GACGACUCAGCAG	9G8	N/A	×	×
14722159	CAUGCAUGCAUGCAUGCAUGCAUG	CUG-BP1	N/A	×	×
16938098	UGUGUGU	CUG-BP1	N/A	×	×
15657417	UAUGU	ETR-3	N/A	N/A	×
11024030	CAAGCACCGAACCCGCAACUG	hnRNP A1	N/A	×	×
11024030	GCCAAGGAGCCAGAGAGCAUG	hnRNP A1	N/A	×	×
11598017	CAGGGA	hnRNP A1	N/A	✓	×
12060656	GAAGUAGAAACUAAACUUA	hnRNP A1	N/A	×	✓
16431980	UAGCUGUG	hnRNP I (PTB)	N/A	×	×
16431980	CUCCAUCUU	hnRNP I (PTB)	N/A	✓	×
19561594	UUACUUU	hnRNP I (PTB)	N/A	×	×
15889141	CACCCAAACAACAACCACA	hnRNP L	N/A	×	N/A
15889141	UGCAAUGAAAUGACUACAC	hnRNP L	N/A	×	N/A
9546399	AAGAAGAA	HTra2beta1	N/A	✓	×
12649279	AAUAAGAAG	HTra2beta1	N/A	✓	×
10094314	AAGCAGUAGUC	SC35	×	✓	✓
10094314	CGAACGAGAU	SC35	×	✓	×
10094314	CGUGAUGCUG	SC35	×	✓	×
10629063	GACCGGUG	SC35	✓	✓	×
7543047	GAGACAGAGC	SF2/ASF	×	✓	×
7543047	UUGACAGAGC	SF2/ASF	×	✓	×
9649504	CAGCGGA	SF2/ASF	✓	✓	✓
9649504	CUCAGGU	SF2/ASF	✓	✓	×
9848651	AAAAGAGAAG	SF2/ASF	×	×	×
17548433	AGCAG	SRp30c	N/A	N/A	×
9037021	CCGGAGGGGUUAGUUGCC	SRp40	×	✓	×
9037021	UGGGAGCAAAGCUCGC	SRp40	×	✓	×
9649504	ACUGC	SRp40	×	✓	×
17576688	GGUAUUUUUGGAGAAUUC	SRp40	×	×	×
19843576	AUAAAGG	SRp40	✓	✓	×
9649504	AUCGUA	SRp55	×	✓	×
12549914	GCAGCACCUGGC	SRp55	×	✓	✓
12549914	GAUCAACCUGGC	SRp55	×	✓	×
12549914	GCUCAUCCUGGC	SRp55	×	✓	×

Tab 1. Predictor comparisons performed by some assessed binding motifs derived from literature, that is, data stored in SpliceAid 2 database.

✓: correct prediction (true positive).

×: incorrect prediction (false negative).

N/A: Not available prediction since predictor did not know binding sites for this splicing factor.

Correctly, SpliceAid 2 gave back true positive results for all motifs of this table.

PubMed ID	MOTIF	ASSESSED NOT BINDING	PREDICTION TOOLS		
			ESE finder	Splicing Rainbow	RegRNA
12403832	GAAAGUCUGAUUGAAGAGGAAGCCAGGCAGAAGA AGA	9G8	N/A	✓	✓
8912635	AGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG	CUG-BP1	N/A	✗	✓
8912635	GACGACGACGACGACGACGACGACGACGAC	CUG-BP1	N/A	✓	✓
8912635	GACGACGACGACGACGACGACGACGACGAC	ETR-3	N/A	N/A	✓
11571276	UAUGAUAGGGACUJAGGGUG	hnRNP C1	N/A	✗	✓
16396608	GGGCCGGG	hnRNP F	N/A	✗	✓
17592047	GAUCACUCCGGCACGUUGGGUCCCGAAGAGUUCA AAGCCUGCCUCAUCAGCUUGGGUUAUGAUUUUG GCAACGACCCCCAG	hnRNP I (PTB)	N/A	✗	✓
9546399	GACAGCAGAGUACUCGACAGCAGAGUACUCGACA GCAGAGUACUC	HTra2beta1	N/A	✓	✓
18597733	UUCUUCUUCUUCUUCUUCUUCUUCUUCUUC	HTra2beta1	N/A	✓	✗
9154818	CCAUUUCCAUUUCCAUUU	Nova-1	N/A	N/A	✗
9154818	GCAUUUGCAUUUGCAUUU	Nova-1	N/A	N/A	✓
19910374	UUAGACUCUCCUUUUGGAUACCUAGAUGUUUUA ACA	SC35	✓	✗	✗
8769651	AAAGGACAAAGGACAAA	SC35	✗	✗	✓
9436904	AAGAGGAAGAAUGGCUUGAGGAAGACGACG	SC35	✗	✗	✗
19910374	UUAGACUCUCCUUUUGGAUACCUAGAUGUUUUA ACA	SC35	✓	✗	✓
19111562	UAUUAGGGAU	SF2/ASF	✓	✓	✓
11278454	GGCGAAUUGGAGCUCCACCGCGGUGGCGCCGCU	SF2/ASF	✗	✗	✓
11336712	ACAACAACUAGCCACGGAUCAU	SRp20	N/A	✗	✗
16249178	GAAAGUCUGAUUGAAGAGGAAGCCAGGCAGAAGA AGA	SRp20	N/A	✓	✗
18597733	GAAGAAGAAGAAGAAGAAGAAGAAGAAGAA	SRp20	N/A	✓	✗
14703516	CUAGACUAGA	SRp40	✗	✗	✓
19910374	UUAGACUCUCCUUUUGGAUACCUAGAUGUUUUA ACA	SRp40	✗	✗	✓
19910374	AACAGAAAAAGAAUUAUUU	SRp40	✓	✗	✓
18597733	UUCUUCUUCUUCUUCUUCUUCUUCUUCUUC	SRp40	✓	✓	✗
9546399	GACAGCAGAGUACUCGACAGCAGAGUACUCGACA GCAGAGUACUC	SRp55	✓	✗	✓
16611940	UAUGGAGGAUUCACUGUACAGAAUGAAGCCAACA AA	SRp55	✗	✗	✓
9436904	GGCUUGAGGAAGACGACG	SRp55	✗	✓	✓
18945760	CUGCACCACCACCUUGGUUC	YB-1	N/A	N/A	✗
18945760	UGUGUCACUGUCUGGUUC	YB-1	N/A	N/A	✓

Tab 2. Predictor comparisons performed by some assessed NOT binding motifs derived from literature.
✓: correct prediction, that is, the tool did not detect a binding motif for this protein (true negative).
✗: uncorrect prediction, that is, the tool detected a binding motif for this protein (false positive).
N/A: Not available prediction since predictor did not know binding sites for this splicing factor.
Correctly, SpliceAid 2 gave back true negative results for all motifs of this table.

Links.

ESE Finder (<http://rulai.cshl.edu/cgi-bin/tools/ESE3/esefinder.cgi?process=home>)

Splicing Rainbow (<http://www.ebi.ac.uk/asd-srv/wb.cgi?method=8>)

RegRNA (<http://regrna.mbc.nctu.edu.tw/index.php>)