

Supplementary Table 2. BLAST parameters adjusted for off-target filtration

Parameter	Default value	Adjusted value
Database	Nucleotide collection (nr/nt)	Reference RNA sequences(refseq_rna)
Organism	All	Homo sapiens (taxid:9606)
Program selection (optimized for)	Highly similar sequences (megablast)	Somewhat similar sequences (blastn)
Algorithm		
Parameter		
Max target sequences	100	1000
Expect threshold	0.05	1000
Word size	28	7
Match/Mismatch Scores	1, -2	1, -1
Gap costs	Linear	Existence: 1, Extension: 1