

# Supplementary Materials: biRNA: Fast RNA-RNA Binding Sites Prediction

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## 1 Data set

In Table 1, mRNA sequences and in Table 2, sRNA sequences used to verify our algorithm (in Table 1 of the paper) are given.

Table 1: mRNA sequences.

RNA	Sequence
gltI	AUAACACUGCACGCGCAAGUUGCAGGCAAUAACAACAUCACAAUA GCUAUCAAUGCGUCGACGGCGCAGAUGAUAAAGGAGUUGGAUAUG CAAUUACGUAAGCUAACCACAGCAAUGCUGGUCAUGGGACUGUCU GCGGGCCUUGCGCACGCAGAAGAUGG
argT	AGGACAAUAUUGCAACGUUUUAUUAACAAAUUUAACGUCGAAUCG UUUUGCUGACGUGAAAAUGGCAUAAGACCUGCAUGAAAAAGUCUG CAAACACACAACGCCACGUAAAACAUAAGAAAAUGACGCCACUUG AGGGGUAUGUAUGAAGAAGACCGUUCUCGCUUUGUCUUUGCUGAU AGGUCUGGGCGCGACGGCGGCCAGUUACGCCGCGCUCCCGCAAAC GGUUCGUAUUG
dppA	AUGAGGGGCAUUUUUAUGGAGAAUCCGCACUGCAACUCAGUCGAUU AUGCGAACGGAAUCCCCACCUCUCACUACUGACCUGACCAGGUAA AAAACAAAAAAGGCCGGGCGGUAAAAGCCUUUGCAAAGGGCAAAA CAACAUACAUCACAAUUGGAGCAGAAGAAUGAGUAUUUCCUUGAA GAAGUCAGGGAUGCUGAAGCUUGGUUUGAGCCUGGUGGCAUGAC CGUUGCAGCAA
livJ	GAGUAUGCUGCUAAAGCACGGGUAGCUAGCCAAUAAUCGAAAUA AGUGCUGAACAAUAACACCACAACACACGUAACAACCAGAAUAU GGGGAUUAUCAGGAUGAAUAUGAAGGGUAAAACGUUAUUGGCAGG AUGUAUCGCCUGUCAUUAAGCCAUUAUGGCAUUC

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Table 1 – continued from previous page

RNA	Sequence
livK	AUCUAUAGCGAAAAGCAGAAUAUUAUCUUUUUCUAAUAGACUGAA AAAUAGAGAUUUUAAUCUUUAUUAUGCUUUAAAUGCUGCGCUAACU CAUUAUAGAGUCAGUAAAAAGCGCACCAUUUAUAAAAAGUACAGU CUGCUUUUUAACCAGCAAAAAACAAAACAUUAACAUCACGAAUG GGGAUACAGGCACAUGAAACGGAAAGCGAAAACAAUAAUCGCAGG GAUUGUUGCAUUAGCAGUCUCGCAGG
oppA	AUCGACGAAAGGCGAUCGAACGAAUCGUCAGAAUAAAUAAGUCG GUGAUAGCAAAGCAGUGACAGACCUGGCAGUACACCACCAGUGC UGCACAGGAACCCUGACGGGAUUAAACAGGCUGGUAAAAACCAGU AAUUUAUAAUGAGUGGAGUACAAACACAUGUCUAACAUCACGAAA AAAAGUUUGAUUGCAGCGGGAAUACUCACUGCGCUCAUC
STM4351	AUCAGAAUAGCACCCUGCGCCAAAAAAGAAUAGCACGGUGACCA CAACAUCCAAUUGAUUUCAGGGAUCAAGAUGAAAAAAAACUUUAU UGUCAUGCUGUUAGCCAGCCUCUCCGUUCACGCCGCUUCCGUUUC CGCCAGAACAUAUACAUUUUGGCA
lamB	GGCAGCGCATGTCGTCGTCTGCATCAAGAGCCGGGTGTTTAAGGC CTCCATAAAAAACGAAACGCAAACCATTCGCAGTTTTAGAAGG TGGCAGCGTTTTAAAGAAAAGCAATGATCTCAGGAGATAGAATGAT GATTACTCTGCGCAAACCTCCCACTGGCGGTTGCTGTGCGCAGCGG
ompA	GCCAGGGGTGCTCGGCATAAGCCGAAGATATCGGTAGAGTTAATA TTGAGCAGATCCCCCGGTGAAGGATTTAACCGTGTTATCTCGTTG GAGATATTCATGGCGTATTTGGATGATAACGAGGCGCAAAAAAT GAAAAAGACAGCTATCGCGATTGCAGTGGCACTGGCTGGTTTTCG
rpoS	ACGCTTGCATTTTCAAATTCGTTACAAGGGGAAATCCGTAAACCC GCTGCGTTATTTGCCGACGCGATAAATCGGCGGAACCAGGCTTTT GCTTGAATGTTCCGTCAAGGGATCACGGGTAGGAGCCACCTTATG AGTCAGAATACGCTGAAAGTTCATGATTTAAATGAAGATGCGGA
tisA	CGGCGCACTAAGTCCTGGCTGAAACGGGTGGTGCCGTCAGCGCCT TAACCCCGCGTGAGCACACTGTGTTATGTCAACAAGCACAAACGTT TCTCCTTGAGATACCGCGTGCACAACAGC
ompC	TTTTAGTATCATATTCGTGTTGGATTATTCTGCATTTTTGGGGAG AATGGACTTGCCGACTGATTAATGAGGGTTAATCAGTATGCAGTG GCATAAAAAAGCAAATAAAGGCATATAACAGAGGGTTAATAACAT GAAAGTTAAAGTACT
ompF	CCTGCAGACACATAAAGACACCAAACCTCTCATCAATAGTTCGGTA AATTTTTATTGACAGAACTTATTGACGGCAGTGGCAGGTGTCATA AAAAAAACCATGAGGGTAATAAATAATGATGAAGCGCAATATTCT GGCAGTGATCGT
sdhD	TCGTCGTAGGTATTCGCCACATGATGATGGATTTTGGCTATCTGG AAGAAACATTCGAAGCGGGTAAACGCTCCGCCAAAATCTCCTTTG TTATTACTGTCGTGCTTTCCTTCTCGCAGGAGTCCTCGTATGGT AAGCAACGCCTCCGCATTAGGACGCAATGGCGTACATGA
sodB	ATACGCACAATAAGGCTATTGTACGTATGCAAATTAATAATAAAG GAGAGTAGCAATGTCATTTCGAATTACCTGCACTACCATATGCTAA

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Table 1 – continued from previous page

RNA	Sequence
	AGATGCTCTGGCACC GCACATTTCTGCGGAAACCATCGAGTATCA CTACGGCAAGCAC
ptsG	ATAAATAAAGGGCGCTTAGATGCCCTGTACACGGCGAGGCTCTCC CCCCTTGCCACGCGTGAGAACGTAAAAAAGCACCCATACTCAGG AGCACTCTCAATTATGTTTAAGAATGCATTTGCTAACCTGCAAAA GGTCGGTAAATCGCTGA
galK	CGCAGAACAGGCAGCAGAGCGTTTGC GCGCAGTCAGCGATATCCA TTTTCGCGAATCCGGAGTGTAAGAAATGAGTCTGAAAGAAAAAAC ACAATCTCTGTTTGCCAACGCATTTGGCTACCCTGCCACTCACAC CATTCAGGCGCCTG
fhlA	AGUUAGUCA AUGACCUUUUGCACCGCUUUGCGGUGCUUUCUGGA AGAACA AAAUGUCAUUAACACCGAUGAGUGAUCUCGGACAACAAG GGUUGUUCGACAUCACUCGGACA

Table 2: sRNA sequences.

<b>RNA</b>	<b>Sequence</b>
GcvB	ACTTCCTGAGCCGGAACGAAAAGTTTTATCGGAATGCGTGTTCTG ATGGGCTTTTGGCTTACGGTTGTGATGTTGTGTTGTTGTGTTTGC AATTGGTCTGCGATTCAGACCACGGTAGCGAGACTACCCTTTTTTC ACTTCCTGTACATTTACCCTGTCTGTCCATAGTGATTAATGTAGC ACCGCCATATTGCGGTGCTTT
MicA	GAAAGACGCGCATTTGTTATCATCATCCCTGTTTTTCAGCGATGAA ATTTTGGCCACTCCGTGAGTGGCCTTTT
DsrA	AACACATCAGATTTCCCTGGTGTAAACGAATTTTTTAAGTGCTTCTT GCTTAAGCAAGTTTCATCCCGACCCCTCAGGGTCGGGATTT
RprA	ACGGUUAUAAAUCAACAUUUGAUUUUAUAGCAUGGAAAUCCCU GAGUGAAACAACGAAUUGCUGUGUGUAGUCUUUGCCCAUCUCCA CGAUGGGCUUUUUUUUA
IstR	GCACTAAATACGTCAAATTCGTGCCGAAATTGCGCGTTCTGCGC GGAACACGTATACTTTCAGTGTTGACATAATACAGTGTGCTTTGC GGTTACCAGCCGACGGCGACTGACGAAACCTCGCTCCGGCGGGGT TTTTT
MicC	GTTATATGCCTTTATTGTACAGATTTTATTTTCTGTTGGGCCAT TGCATTGCCACTGATTTTCCAACATATAAAAAGACAAGCCCGAAC AGTCGTCCGGGCTTTTTTT
MicF	GCTATCATCATTAACTTTATTTATTACCGTCATTCATTTCTGAAT GTCTGTTTACCCTATTTCAACCGGATGCCTCGCATTTCGGTT
RyhB	GCGATCAGGAAGACCCTCGCGGAGAACCTGAAAGCACGACATTGC TCACATTGCTTCCAGTATTACTTAGCCAGCCGGGTGCTGGCTTTT
SgrS	GATGAAGCAAGGGGGTGCCCCATGCGTCAGTTTTATCAGCACTAT TTTACC GCGACAGCGAAGTTGTGCTGGTTGCGTTGGTTAAGCGTC CCACAACGATTAACCATGCTTGAAGGACTGATGCAGTGGGATGAC CGCAATTCTGAAAGTTGACTTGCCTGCATCATGTGTGACTGAGTA TTGGTGTAATAACCCGCCAGCAGATTATACCTGCTGGTTTTTT TT
Spot42	GTAGGGTACAGAGGTAAGATGTTCTATCTTTCAGACCTTTTACTT CACGTAATCGGATTTGGCTGAATATTTTAGCCGCCCCAGTCAGTA ATGACTGGGGCGTTTTTTA
OxyS	GAAACGGAGCGGCACCTCTTTTAACCCTTGAAGTCACTGCCCGTT TCGAGAGTTTCTCAACTCGAATAACTAAAGCCAACGTGAACTTTT GCGGATCTCCAGGATCCGCT
CopA	AUAGCUGAAUUCUUGGCUAUACGGUUUAAGUGGGCCCCGGUAAUC UUUUCGUACUCGAAAGUUGAAGAAGAUUAUCGGGGUUUUUGCUU
CopT	AAGCAAAAACCCCGAUAAUCUUCUUAACUUUGGCGAGUACGAAA AGAUUACCGGGGCCACUUAACCG