

An Image Processing Approach to Computing Distances Between RNA Secondary Structures Dot Plots

Supplementary Data

The following Dataset was used in the Results section of the article:

- Dataset of the Ribosomal RNA fragments of *Thermus thermophilus* HB8 based on [1] containing the following 21 fragments:

>Entry:A_(765-816) Length:52 Origin:rRNA of the *Thermus thermophilus* [AC:NC_006461]
gaaagcguggggagcaaaccggauuagauacccggguaguccacgcccuaaa

>Entry:E_(68) Length:46 Origin:rRNA of the *Thermus thermophilus* [AC:NC_006461]
ccggaaggucaaggggaggggugcaagccccgaaccgaagccccgg

>Entry:A_(1241-1296) Length:56 Origin:rRNA of the *Thermus thermophilus* [AC:NC_006461]
gccacuacaaagcgaugccaccggcaacggggagcuaaucgcaaaaaggugggc

>Entry:A_(820-879) Length:53 Origin:rRNA of the *Thermus thermophilus* [AC:NC_006461]
gcgcgcuaggucucugggucuccuggggccgaagcuaacgcguuaagcgcgc

>Entry:A_(588-651) Length:64 Origin:rRNA of the *Thermus thermophilus* [AC:NC_006461]
gccuggggcgucccaugugaagaccacggcuaaccgugggggagcgugggauacgcucaggc

>Entry:A_(995-1045) Length:55 Origin:rRNA of the *Thermus thermophilus* [AC:NC_006461]
augcuaggaaccgggugaaagccuggggugccccgcgaggggagcccuagcac

>Entry:B_(1052-1107) Length:56 Origin:rRNA of the *Thermus thermophilus* [AC:NC_006461]
ccaggagguuggcuuagaagcagccauccuuuaagagugcguaauagcucacugg

>Entry:B_(589-668) Length:82 Origin:rRNA of the *Thermus thermophilus* [AC:NC_006461]
cacggucguggggcagcuaaagccguugagggcggagcguagggaaaccgaguccgaacagggcgucuaaguccgcggccgug

>Entry:A_(136-227) Length:93 Origin:rRNA of the *Thermus thermophilus* [AC:NC_006461]
ccggaagaggggacaaccggggaacucgggcuauccccauguggaccgccccuugggguguguccaaagggcuuug
cccguuccgg

>Entry:A_(1113-1187) Length:74 Origin:rRNA of the *Thermus thermophilus* [AC:NC_006461]
ccccccguuaguugccagcggguucggccggcacucuaacgggacugcccgcgaaagcgggaggaaggagggg

>Entry:B_(865-911) Length:46 Origin:rRNA of the *Thermus thermophilus* [AC:NC_006461]
cacugauagggcuagggggcccaccagccuaccaaaccuguaaa

>Entry:E_(2676-2731) Length:57 Origin:rRNA of the *Thermus thermophilus* [AC:NC_006461]
cgcaccucugguuuccagcuguccuccaggggcagaagcuggguagccaugugcg

>Entry:E_(99,100,101) Length:79 Origin:rRNA of the *Thermus thermophilus* [AC:NC_006461]
ggaccggggaagaccaccggguggaugggcccggggguguaagcggcgaggcguugagccgaccggucccaaucgucc

>Entry:E_(90,91,92) Length:76 Origin:rRNA of the *Thermus thermophilus* [AC:NC_006461]
cggcucgucgcauccuggggcugaagaagguccaagggguugggcuguucgcccauuaaagcggcacgcgagcugg

>Entry:E_(89) Length:43 Origin:rRNA of the *Thermus thermophilus* [AC:NC_006461]
ggcugaucucccccgagcguccacagcggcgaggguuuggc

>Entry:D_(8,9,10) Length:53 Origin:rRNA of the *Thermus thermophilus* [AC:NC_006461]
aaugggggaaccggccggcggaacccggucaccgcgcuuuugcgcggggg

>Entry:A_(1420-1480) Length:56 Origin:rRNA of the *Thermus thermophilus* [AC:NC_006461]
cgggcucuaccgaagucgccgggagccuacggcgaggcggcgggaggguccg

>Entry:A_(240-286) Length:47 Origin:rRNA of the *Thermus thermophilus* [AC:NC_006461]
cccaucagcuaguugguggguaauggccaccaagcgcgacgagcggg

>Entry:A_(442-492) Length:41 Origin:rRNA of the *Thermus thermophilus* [AC:NC_006461]
cccgggacgaaaccccgacgaggggacugacgguaccggg

>Entry:E_(65,66) Length:57 Origin:rRNA of the *Thermus thermophilus* [AC:NC_006461]
acuguuuacaaaaacacagcucucugcgaacucguaagaggagguauagggagcga

>Entry:E_(86,87) Length:39 Origin:rRNA of the *Thermus thermophilus* [AC:NC_006461]
gacugcaggccugcaagccgagcagggcgaaagccgg

Bibliography

1. Yusupov MM, Yusupova GZ, Baucom A, Lieberman K, Earnest TN, Cate JH, Noller HF: Crystal structure of the ribosome at 5.5 Å resolution. *Science* 2001, 292:883–896.