

## Supplementary material

### Identification of microRNAs from rice

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The following sequences are our experimental data that were cloned from rice (9311). All the sequences range in size from 8 to 35nt. The majority are concentrated in the size range 21–25nt.

1. AUGUAAAAAGAUGCGUACGCAUGGCU
2. GGUUUUGCUCUACCCGUGCCUG
3. CCCAAUUUGCUGAGGUUCCUU
4. UGCCGGUACCGUGGAUCAUGAUUCAUGA
5. CUAGUAUUGAUCCCUUUUCGG
6. CGAAUGUACUCAAUCCCC
7. AGAAAGGAUGUCGAAAUACA
8. UUUGUCCUAAUUUAGAAACCU
9. CUGACCAAUGUUAUAAGAAAUCAUCCGC
10. CAGUUCUCUGAAUUGUUACUGGU
11. UCUUUUAACUAGCAAGGUCUG
12. UGCUCGUCGCCGUUGAAGCUGGGG
13. GCACAGUAUUGAAUCUUGUGA
14. UAGCCGUCGCCGGCAACGA
15. AUAAAGUCAUACUCCUC
16. CAACCUUCCAGUUUUUCUCUGCCAAAUGCCA
17. UGCUUGCACAAUGUGCUAUAGCAGA
18. CGUUGUUCUGAAAAUAUUUAC
19. UCGCUCUCCGCGAGGU
20. UAAUAGCUUUAACGGGAUCAACAUG
21. UUCGCCGUCGUCAAAGGUUUGUACGC
22. AAUGGAAGGAGACAAAAUA
23. CAGGGCACAAUCGCCAUCCGCC
24. GUUGUCCAUCCAUGGAUAAUGUU
25. UGAUCUCCUUUGAUUAUUUGAUAAAC
26. CGGUUAUCCCAAUCUAGGCC

27. UCCUGAGCCUCUUGUGGUCCUCCCCU  
28. AAACCCUAGCGCCGCGCCGC  
29. AAUGGACAUCCCUAGCGGGAAAA  
30. UAGACACUAAACACUGUUGAAAUU  
31. CACAGUUCUAUCUCCAAACCAGGA  
32. CGCGCCGCGGCGGCCCCG  
33. GCGGCGGCGGCAACGG  
34. GUAACGAUGCAAACUGUAGUGCUUUGU  
35. CAGGCAGAGCCCGAGCUGCCACCUUG  
36. UUGCCCAAAGAGUGUCAAGA  
37. UGGUGGAGGUGAAGUUAUCGAU  
38. CUCCUCGGUGCUUCGAAUCCAAUG  
39. AGUCCAUUUGUACGUUCUAAUUA  
40. UUAUGUAUUACAUAACAAGCCAAA  
41. CCGACCAGCCUACAGGCAAGACG  
42. GGAGACCUCGACGGCGGCGGGACGU  
43. UGGAGACGAAAGGGGAACGGCGGCGC  
44. UCUUUGUUGCAGUAUUUCCUUA  
45. GGUACUUAUCAAGCCAUCUAAACCA  
46. UGCAUAACACAAUCCACUGC  
47. ACUAAUUUUUCUGUAGCUAGUAGU  
48. AGCGCCUGCCGGUGAGGGCCACCGC  
49. GCAUUAUUAGAAACCAAUCUU  
50. UCUUGCAUAUGGCGAAGCAUGUC  
51. UGAAAUCUUGAAGUAAUGGUC  
52. GUUCCCCCUUCCUGUUUCGCG  
53. UAGUACUUAUGAAUCUGGACAG  
54. AAACACUCCUAAUUAAGAUGUUA  
55. ACAAGAUGUAUGGUAUGCAAUUCUAA  
56. UGGAGUUCACUCUCUUUACU  
57. ACGGCGCGCGCGCGCAGGUCCGG  
58. CGGCGACGCCACCGCCGCGCCCUU  
59. AACAUGGCGAUAAUUUUUUCAU  
60. GUGCGCAACGAGCCCCAGCCCGG  
61. CGCCGCCGCUUGUCCGCCCG  
62. GAAGGAGCAGCAGAAGCAGCGG  
63. AGACUGAAGGAUUGAGGCCACU  
64. GGCCCGGACGGCAAUACGUCAACCGA  
65. UGUCCCUUCGCCUGGUGACAGG  
66. UCGAGUGCUUUUCUUUUGCA  
67. GCUUCCUCACCGUGUUCGCUUGG  
68. ACAUACACGUGAUGGCCUUUCUCC  
69. GAAGCAGCUGGUGUGCGUGACGGGAGCA  
70. UUGGUGGUGCUGCCCAAUAAAAUUG

71. GUAUUUCUGCACUCAUAAAAGCGC
72. UAUACAACUCCAUUCGUUGGGA
73. CGGGGGGCGACCAGAAGCGGAG
74. UUGAAUGUUGAUUUGUAGAAUUCA
75. UCUCUCUCUCUCUCUCUAAUCUCA
76. UCUGGUACUCGCGGCAACUAUUG
77. AGAAACCACAGCAUAACAGGUAG
78. AUGAUCUAAUGAUUUAAAAUAACGG
79. GACCGCCACCGCCCAACGCC
80. GCGCCGGUGGCGGUGCUAGCGC
81. AUAAAAGGACUACUAAAACAAUGA
82. CGCUGCUCUAUGGCUGCCAUCACCAC
83. AGCCACACACAACAAGGUGGCCUGAU
84. CGGGAGCGAGGUCGGGAGGAGGAGC
85. GUGUCAUACAUCCAAAUAUACAAA
86. CGUCGACUCUCAGCUUCUCGGAGAGC
87. GCCGCCCGGGUGCCUCCAUGCC
88. UAAUAGUCCAUUUUGGUGACAACA
89. UAAGGACCUAUGAAUUAUUAUUC
90. GAUUUCGCGUAUGUUGCAUGGAG
91. GUAAGUAAAAAUAGUGUAAAUAG
92. UGAUGCACCGGAUGGAGGCGGAG
93. GUAACCCA
94. GCAGUGGCAACACUCAUACACGUA
95. AAGGUGAGAUUGGAUAGAUUCAUGGAUAG
96. CACCAUCGAACGCCAUUGUCCA
97. GAAGGGGAAAACGCAUGUAAAUAACG
98. CCAGGAUGAUCGUCUUCUGUCG
99. CCGAUGCUCUCGGAGUGGCGAGCU
100. UCAUCUCCUUGCUGAAACCAAACA
101. CUCCAAUGUUGGAACCCUCCACACC
102. UGGACGGAAGGUGCCGAGCUGU
103. CAUCAUCCUCUGAGUCAUACUCU
104. CUACAAACAUAGCAAACCAUUC
105. UAUGGAUUUGUUGUGUUUUU
106. GGAGAUGAGUCCAGGAAGAAGC
107. CAUUUAUGCAGUGGCAUUUACCUC
108. CUGAUUUUCAUUCUAUAAAAAGUAAACAAG
109. AAGAGGUACUAAACAAUAUGUAUAAGAAAA
110. AGGCUAUAACAAGGAUUAUAGGA
111. AGAUGCUGUCCUAAUAGGAAUAGAUGCU
112. CGUGGUGCUCGGCGUCAUCGCGGGCU
113. CAUUGGAUAUGAAACGCUGACAG
114. UGGCGACACGCGGCCGAAGGAGUGG

115. CAUUCAACAAGAUUCUAGAAGA  
116. CAAAGCAGGAUUUGCAUGAGUUUC  
117. CACAUAUUGAUCUAUCCUACUAA  
118. AUCACACGCGCGGCCGCCGCC  
119. UAGGGUAAGUAUGAUGUAAUUAU  
120. ACACUGUCCAAUUGUACAUAUAUC  
121. UGCGAAAAUAAGAGAGGUGGGU  
122. UCAACA AUUUGCACACUUUGCCU  
123. GGGCGAAAGCCGUGACUGGGGGU  
124. CGUGAAAUCUGCUUUGGCUCGUC  
125. UUAAAAGUUAAAGCAAUUAUCA  
126. CACUAGCGACCUUCUCAGACU  
127. ACCAAAGUAUAUGUAGUUUUGCUAAGAAUUAU  
128. GGC GGCAUGUGAGAACUUCG  
129. ACUAGUACAAUUCUGUUGUUU  
130. AGCGACGAAACCAACCUCUUCGAG  
131. ACAUAUGGGAUGAGAUUAGC  
132. CAAAUAGCUAACUCGAAAAGAAAUA  
133. UCUAGUUCACGCUAAAAUAAAAAUUUGGUUAA  
134. ACAAUCUAGGUUAGCAUCGGUUAUUU  
135. UGACAUGAUGUGGGGUUGUGUCU  
136. UAAAGAAACGACACGAUGCAA  
137. AACUAUCCUUUACUUUGUUUGUU  
138. ACAAACCCCUCCAAAAUUAUGUG  
139. GUAUACAUAGUACCACCACAAACU  
140. AUCACUUU AACAGGUGU UCCACA  
141. AUUGAAGAUACUAAAGUGAUAG  
142. UCCUGCGCCGCCUAGCCACGUC  
143. UAUGUAAUUAAGAAACUUUUCUAA  
144. AUUCUCGUGUUAGUACAGUAUGC  
145. GCAUACGCACCAUAGUGC UAAU  
146. UGACGGCUGCGGCAAUGGCCGGC  
147. AAGUAAAAGUAAUUUAUCUAUUA  
148. UGCCGCGCCGCUGCUGGAG  
149. AAUUCUUAUCCCAACUCCA  
150. GUCCAAUCCAGGGCCUGGU  
151. UUAUUUUCUAGUGCUUGAAGUU  
152. GCUCAUAUUGAGAGGGAA  
153. UGGCCGUA AUGAUCCAGA  
154. CGCAUCAGCGCCUCCUCCUC  
155. GACUUGUCAUAUGGGGGUCA  
156. UGGCGGCGUGACUGGAGGUGGC  
157. UCGAAUAGUUUUACUCUG  
158. GCUCUCCAUAUGUAUAUAUGAUCUCUAGCU

159. ACUCUUUCCAUCUGUCCAAACAA
160. UUAUCAUCAAGUCCAUGGAGUGAU
161. ACGGGGGCUGUUCGACAGGU
162. GGCAAAACAGACUUCGACAGAGAGAAGGGC
163. UCCAUAUAGUAAUAUAUAU
164. CUGUUGUUUGUUUUGCAGGUA
165. UUGUUGUGCUUUCUGCAGA
166. GUCAUCCGCUAUGUCGGCUAGUGU
167. UUAUCCAUUUAAAUCAAUAAAUC
168. AUACAUA AAAAGUAUAUUUAAUAU
169. AGUACAUAUGGGAUAGAGACUUAG