Figure S2. T-plots for all targets of litchi miRNAs.

6_miR156_169_lychee_15999

alignment score=3 , category=0 , p=0.00280594292660952
9_miR159_1692_lychee_43435

target 5' AGUGAAGUUGGGAGCUCCCUuCACUCAAUACCCAGAAAC 3'

query 3' UCUCGAGGGAAGUUAGGUU 5'

alignment score=3.5, category=0, p=0.00994096785845766
16_miR159_1692_lychee_43435

target 5' AGUGAAGUUUGGGAGCUCCCUCuCACUCCAAUACCAGAACC 3'

.................................

query 3'

UCUUGAGGGAAGUUAGGUGUU 5'

alignment score=4, category=0, p=0.0343631838863716
20_miR159_1692_lychee_43435

target 5' GUGAAGUGGGAGCUUCCUUCACUCUCCGUAACCCAGAAAC 3'

query 3' UUCGAGGGAAGUAGGUUUU 5'

Cleavage Site 1692
All Other Sites

alignment score=3.5, category=0, p=0.0271004604871874
26_miR159_1692_lychee_43435
29_miR159_1692_lychee_43435

target 5' AGUGAAGUUGGGAGCUCCCCucACUCCAUAACCCAGAAAC 3'

query 3' UCUCGAGGGAGUUAGGUUG 5'

alignment score=3, category=0, p=0.0194770319130502
40_miR159_1692_lychee_43435

```plaintext
target 5' UGAAGUUGGAAGCUCUCuCACCACAUACCAGAAAC 3'

query 3' UCGAGGAAGUAGGUUU 5'
```

Alignment score = 3, category = 0, p = 0.0385747090539583
45_mir159_1692_lychee_43435

target 5' UGAAGUGAGCUCCCUuCACUCCAAUACCCAGAAAC 3'

query 3' UCUAGGGAGUAGGUA 5'

Cleavage Site 1692
All Other Sites

alignment score=3, category=0, p=0.0358694136548754
target 5’ AGUGAAGUUGGGAGCUCCCCuCACUCCAUAACCCAGAAAC 3’

query 3’

UCUCGAGGGAGUARGGUGUUU 5’

alignment score=3.5, category=0, p=0.0074650291260504
57_miR159_1692_lychee_43435

Target 5' AGUGAAGUGGGAGUUCCCUuCACUCAAUAUACCCCAGAAC 3'

Query 3' UCUCAGGGGAAGUCAUGUUUU 5'

alignment score=3.5, category=0, p=0.0074650291260504
65_miR159_1692_lychee_43435

target 5' CAGUGAAGUUUGGAGCUCCUCUCU:CAUCUCCAUACCAGAAAC 3'

query 3' UCCUCGAGGGAAGUUAGGUUU 5'

alignment score=4, category=0, p=0.0151818493373646
66_mIR159_1692_lychee_43435

target 5' CAGUGAAGGUGGAGCUCCCUuCACUCCAAUUACCAGAAAC 3'

query 3' AUUGCGAGGGAAGGUUAGG 5'

alignment score=3.5, category=0, p=0.0124107302114058
70_miR159_1692_lychee_43435

target 5’ AGUGAUUGGAGCUCCCUuCACUCCAAUACCCAGAAAC 3’

query 3’ CUUCGAGGGAGUUAGGGUUU 5’

alignment score=3.5, category=0, p=0.0197831128749525
target 5' AGUGAAGUUGGGAGCUCCCUCuCACUCCAUAACCCAGAAC 3'

query 3' UCUGGGGGAAGUAGGUUU 5'

alignment score=4, category=0, p=0.0108678517068979
83_miR165_11_lychee_12179

target 5' UGAAUAAGGAGAAAGAgcCUGGuccGGAUUCGGuGGG 3'

..:::.:::.:::.:::.:::.:::.:::.:.

query 3' UCUACUUCGACCAGGCU 5'

alignment score=1, category=0, p=0.00808459368876391
97_miR166_11_lychee_12179

target 5’ GUUGAAUAADGGGAUGAAAGcUGGGUCCGGGAUUCCGGUUGG 3’

query 3’ UCCUUACUUCGGACCAGGCU 5’

alignment score=2, category=0, p=0.00342841580468567
target 5' UUGAAUAAGGAUGAAGcCUGGCGGGAUUCGUGG 3'
query 3' UCUUACUCCGGACCCGU 5'

Reads

lychee_12179 position (nts)
alignment score=1.5, category=0, p=0.00373950651752253
100_miR166_11_lychee_12179

Target 5' GUUGAAUAUUGGGAUUGAAGcUGGUCCGGAUUCGGUGGGG 3'

Query 3' UCUUUCUUCCGACCAGGCU 5'

Cleavage Site 11
All Other Sites

Reads

lychee_12179 position (nts)
alignment score=2.5, category=0, p=0.0031172279511591
target 5' AGUGAAUGUGGGAGCUCUCUCUCuCAUCCAAACAGCCAAAC 3'
query 3' UCUCGAGGGAUGUCAGGUUUU 5'

alignment score=3.5, category=0, p=0.0074650291260504
145_miR393_1613_lychee_55456

target 5' GAAAGUAUGAGA-CAAUGGCGAuCCCUUGGGAUGUCGUCCUG 3'
query 3' UCUAGUUACGCUAGGAAACCU 5'

Cleavage Site 1613
All Other Sites

Reads

lychee_55456 position (nts)
alignment score=1, category=0, p=0.00405050011999308
target 5' GGAAGUAUGGAGACAUGCGAuCCCUUUGGAUGUCCUG 3'

query 3' UCUGUUAGCGUAGGAAACCU 5'

alignment score=2, category=0, p=0.00342841580468567
153_miR393_1613_lychee_55456

target  5' GGAAGUAUGGAGA-CAUUGCAGUCCCUUGGAUGUGCUCCUG  3'
            :::::::::             
query  3' CUCUAGUUACGCUAGGGAAACCU  5'

Reads

lychee_55456 position (nts)
alignment score=1, category=0, p=0.00405050011999308
154_miR393_1613_lychee_55456

target 5' GGGAAAGUAUGACAAUGCGAGCCUUUGGAUGUGCUCUG 3'

query 3' UCUAU-UUACGCUAGGAAAACC

Reads

lychee_55456 position (nts)

alignment score=3, category=0, p=0.00280594292660952
182_miR396_1029_lychee_55389

target 5' UGACGUAAAGAUCAAGgAAGCUGUGGGAACUGCUGGG 3'

query 3' UCUAGUUCUUUCGACACC 5'

alignment score=1, category=3, p=0.0512720349588647
209_mir398_107_lychee_14851

```
target  5' AAAUCCUGCAAGGAGCGACCuGAGAUCAUGCUGUGGCG  3'
        ::::::::: ::::::::
query   3' UCC-CGCUGGACUCUGUGU  5'
```

![Graph showing reads distribution with two lines:
- Red line for Cleavage Site 107
- Gray line for All Other Sites

alignment score=3, category=0, p=0.00839423092478087]
210_miR938_107_lychee_14851

**Target** 5' AAAUCUGCAAGGACCGACCGuGAGUACACAUUGUUGCC 3'

**Query** 3' UCUUGCUGGGACUCUGUGU 5'

- **Cleavage Site 107**
- **All Other Sites**

**lychee_14851 position (nts)**

alignment score=3.5, category=0, p=0.00249456070069465
230_miR447_871_lychee_4093

target 5' UCUCAGCCGAAAGGCUGUUAGGGAGAGGAUUUUCUUU 3'

query 3' UCUUCGGAAACUCCUCUCUCA 5'

alignment score=3.5, category=3, p=0.09259730333639199
235_miR473_871_lychee_4093

target 5' UCUCAGGCGAGGAGCCGgAGGGAGGAGGAUUUUCAUU 3'
::: ::::: ::::: ::::: ::::: :::::  
query 3' UCUUCGGGAACUCCCUCCA 5'

Reads

lychee_4093 position (nts)
alignment score=3.5, category=3, p=0.0925973033639199
247_miR477_871_lychee_4093

target 5' UCUCAGGCGAAGGAGCCGU UgAGGGAGAGCAUUUUUCAUU 3'

query 3' UCUUCGGGAACUCUCUCUCG 5'

- Cleavage Site 871
- All Other Sites

Reads

lychee_4093 position (nts)

alignment score=3.5, category=3, p=0.0318707197473942
target 5' GUUCUCAGGCCAGG-AGCCGUGAGGGAGAGUAUUUUCA 3'

query 3' UCUCCUUCCGGAACUCCCU 5'

Reads

lychee_4093 position (nts)

alignment score=4, category=3, p=0.027943103569732
274_miR858_185_lychee_18326

target 5' UAGAUUACCGGGAAGAACAAGCACAACGAAUAAAAUG 3'
          ............
query 3' UCUAGCUUGUCUGUUGCUU 5'

Reads

lychee_18326 position (nts)

alignment score=3, category=0, p=0.00560401253751164
target 5' GAGGCUUCCAAGGCCGAAACaGACAAUGAAAUAAAGAACU 3'

query 3' UCUAGCUUGUCUGUUUCUU 5'

alignment score=2.5, category=0, p=0.00622473879221852
276_mir858_356_lychee_40412

target 5' GAGGCUUCCAAGGCCGAACaGACAAUGAAAUAAAGAACU 3'

::: ::::::::::::: :::

query 3' UCCAGCUUGUCUGUUGCUU 5'

- Cleavage Site 356
- All Other Sites

Reads

0.0  0.5  1.0  1.5  2.0  2.5  3.0

lychee_40412 position (nts)

alignment score=2 , category=0 , p=0.00684507757444153
target  5'  AAGAUUACCUGAGAACAGAUACCAGAUAACUUUAAACU  3'
        ::::::::::::::::
query  3'  UCCAGCUUGUCUGUGUUU  5'

Cleavage Site 475
All Other Sites

alignment score=4, category=0, p=0.0469427351046636
target 5' GGAGGCUCCCAGGCACACACGCAUGAAAAUAAGACU 3'
query 3' UCCAGCUUGUCUGUUGCUU 5'

alignment score=3, category=0, p=0.00560401253751164
Ich-miRC6 slicing lychee_57528 at nt 1342

alignment score=0, category=0, p=0.00467219611508174