Historical RNA expression profiles from the extinct Tasmanian tiger

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Supplemental Files

Supplemental File 1: miRTrace quality control report using RNA trimmed sequences from skeletal muscle and skin tissues.

Supplemental File 2: miRTrace quality control report using untrimmed RNA sequences from skeletal muscle and skin tissues.

Supplemental File 3: Metatranscriptomic classification of trimmed RNA reads >30 nt from skeletal muscle tissue according to the KrakenUniq pipeline (>1000 *k*-mers; >200 species-specific reads).

Supplemental File 4: Metatranscriptomic classification of untrimmed RNA reads >30 nt from skeletal muscle tissue according to the KrakenUniq pipeline (>1000 *k*-mers; >200 species-specific reads).

Supplemental File 5: Metatranscriptomic classification of trimmed RNA reads >30 nt from skin tissue according to the KrakenUniq pipeline (>1000 *k*-mers; >200 species-specific reads).

Supplemental File 6: Metatranscriptomic classification of untrimmed RNA reads >30 nt from skin tissue according to the KrakenUniq pipeline (>1000 *k*-mers; >200 species-specific reads).

Supplemental File 7: FASTA file of pre-miRNA hairpin sequences from the entire list of annotated microRNAs in the thylacine genome (N = 325).

Supplemental File 8: Pre-miRNA hairpin structure and supporting RNA reads of two selected putative novel thylacine-specific microRNA candidates according to the miRDeep2 algorithm. Msc: skeletal muscle. Skn: skin. The miRNA identified as scaffold_2_6678 corresponds to Tcy-Novel-18, while scaffold_7_26772 corresponds to Tcy-Novel-16-P11.

***Supplemental Files 1-6** can be found in html format in the Extended Data online.

Supplemental File 7

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>Tcy-Mir-7373-o6 scaffold_7:41763205-41763260(-)
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>Tcy-Mir-7373-o8g scaffold_69402:10-67(+)
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>Tcy-Mir-7373-o9c scaffold_7:41762616-41762673(-)
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>Tcy-Mir-7377 scaffold_7:26847509-26847566(+)
AGAGGUCACCCAGGAAGGAGAUGUAGAAAAAGUGCAUCAUCCUGGCUGACUUCUGCU
>Tcy-Mir-7378 scaffold_7:75956539-75956597(-)
GUGGGGCAUCUUCCAUGGAACUGGAUAUGCACUGUAGCCCCUUAGGAGAUGUCCCAGU
>Tcy-Mir-7379 scaffold_7:75972357-75972413(-)
UAUAUCACCCAUACAUCCAGAUAUAAUUGAAAAAUCUGGAUGCUUUGAUGGUGUAG
>Tcy-Mir-7382 scaffold_7:80355694-80355752(+)
GAGGCUCCUUUCUCGAGUGGGAUAGUCUGAGCAACCCACUAGGGGGAGAAGUUUCUGU
>Tcy-Mir-7391 scaffold_7:53110864-53110922(-)
CCGUGGUAUGGUUAGAAAGCUGCCUUGAUCAUAACGGCAGCUUGCUGCCAUCCAUGUA
>Tcy-Mir-7392-P1 scaffold_54797:190-245(+)
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>Tcy-Mir-7394-P3 scaffold_7:44680335-44680389(+)
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>Tcy-Mir-7397 scaffold_7:44678005-44678060(+)
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>Tcy-Mir-7398-P5 scaffold_7:57259804-57259866(+)
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>Tcy-Mir-7398-o1 scaffold_7:57272971-57273029(+)
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>Tcy-Mir-7398-o10 scaffold_7:57273650-57273706(+)
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>Tcy-Mir-7398-o11-v1 scaffold_7:57281115-57281175(+)
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>Tcy-Mir-7398-o12-v1 scaffold_7:57283448-57283508(+)
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>Tcy-Mir-7398-o14 scaffold_7:57286007-57286067(+)
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>Tcy-Mir-7398-o2 scaffold_7:57260372-57260434(+)
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>Tcy-Mir-7398-o3-v2 scaffold_7:57263147-57263205(+)
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>Tcy-Mir-7398-o5 scaffold_7:57264422-57264484(+)
GUGUAGAGGUGUGAAACAUGCUGUGUUCUCUCUACUGGUAAAUUUCUCGCCUCUCACAGUUG
>Tcy-Mir-7398-o6 scaffold_7:57269237-57269295(+)
GUGUAGAGGUGAGAAAAUUACUGUGUUGUGGCUUGGUAAAUUUCUCGCCUUUUACAAU
>Tcy-Mir-7398-o7 scaffold_7:57269615-57269681(+)
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>Tcy-Mir-7398-o8 scaffold_7:57272162-57272220(+)
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>Tcy-Mir-8-P2b scaffold_5:109429608-109429673(-)
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>Tcy-Mir-875 scaffold_1:596990027-596990085(-)
AAUACCUCAGUUUUAUCAGGUGUUCUUUAAAAAUCACCUGGAAAUGCUGAGGUUGCGU
>Tcy-Mir-9-P1 scaffold_1:187960108-187960168(-)
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>Tcy-Mir-9-P4 scaffold_1:685692577-685692636(+)
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>Tcy-Mir-92-P1a scaffold_3:143852581-143852640(+)
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>Tcy-Mir-92-P1c scaffold_7:37924763-37924828(-)
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>Tcy-Mir-92-P1d scaffold_4:367378036-367378098(+)
AGGGACGGGACGUGGUGCAGUGUUGUUUUUUCCCCGCCAAUAUUGCACUCGUCCCGGCCUCC
>Tcy-Mir-92-P2a scaffold_6:129571534-129571594(+)
ACUGUUGCUAACAUGCAACUCUGUUACAUGUAAACGGGAAUUGCACUUUAGCAAUGGUGA
>Tcy-Mir-92-P2c scaffold_7:37924627-37924692(-)
CGGGUGGAUCACGAUGCAAUUUUGAUAAGUUUAGUAGGAGAAAAAUUGCACGGUAUCCAUCUGUA
>Tcy-Mir-92-P2d scaffold_4:295402343-295402403(-)
AGGCGGAGACUUGGGCAAUUGCUGAACACUGCCCUAGGCAUUGCACUUGUCUCGGUCUGA
>Tcy-Mir-96-P1 scaffold_5:182343873-182343937(-)
UUUGGCACUAGCACAUUUUUGCUUCUGUCUCUCUGCUCUGAGCAAUCAUGUGUAGUGCCAAUAU
>Tcy-Mir-96-P2 scaffold_5:182334825-182334890(-)
UUUGGCAAUGGUAGAACUCACACUGGUGAGAUAACAGAAUCCGGUGGUUCUAGACUUGCCAACUA
>Tcy-Mir-96-P3-v1 scaffold_5:182344428-182344490(-)
UAUGGCACUGGUAGAAUUCACUGUGAAAACACACUAUCAGUGAAUUACCAAAGGGCCAUAAA
>Tcy-Novel-1 scaffold_1:220905164-220905223(+)
GGGGAACCAGGUGAUUGCGUGCCUAUUGAAGACAGCAUCAACACUUCUUGUUUCUCUCU
>Tcy-Novel-10 scaffold_14513:2234-2292(-)
UGGCAGCAGGUGAUUGCUGAGGCUGAGGCUUCUUUAGGCCCCAGCUCUCACCUCCCAC
>Tcy-Novel-15 scaffold_7:74897398-74897456(+)
AUCCGGCCUGAAGACACAUUGUGUGAUUAUUUUAAACUAUGUAUUUUCAGACCAGAGU
>Tcy-Novel-16-P16 scaffold_5062:993-1052(+)
AAACACUCUGAAGCCACAUUGUUUGUAUAAUUCUUUGAACAAUGUGUCUCAGUGUGUUG
>Tcy-Novel-16-P17 scaffold_5062:2274-2334(+)
AAAGACUCUGUAGCCACAUUGUUUGUAUAAUUCUUUGAACAAUGUGUCUCAGAGUGUUGU
>Tcy-Novel-16-P18 scaffold_7:74907761-74907821(+)
UCUGGUCUGAAGACAUAUUGUUUUUAUGACUGAACAAUGUGUCUCAGAUCAGUUGCGGGU
>Tcy-Novel-16-P23 scaffold_2579:5926-5986(+)
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>Tcy-Novel-16-P24 scaffold_7:74909254-74909314(+)
AGCCAUUCUGAAAUCAUAUUGUUUGUAUGACUCUUUGAACAAUGUGUCUCAGAAUGUUGU
>Tcy-Novel-16-P28s scaffold_4292:114-173(-)
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>Tcy-Novel-2 scaffold_1:121651293-121651349(-)
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>Tcy-Novel-3 scaffold_3:500632941-500632997(-)
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>Tcy-Novel-4 scaffold_2:609241009-609241064(-)
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>Tcy-Novel-5 scaffold_2:33213472-33213549(-)
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>Tcy-Novel-7 scaffold_3:139359504-139359567(+)
UCUGUCCUCCAGCUGUCUUUUGAAUUCCAGAUUGUCAACUCAAGGAUAGUUGUAGGCAAGGGA
>Tcy-Novel-8 scaffold_4821:3388-3445(-)
AUGUGCAUGCAUAUAGGUACAUAUAUGCAUCUAUUUGCACGUGUGUGCAUGCAUAUG
>Tcy-Novel-9 scaffold_48478:589-645(+)
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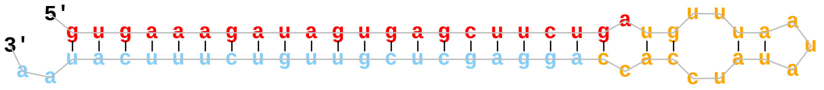
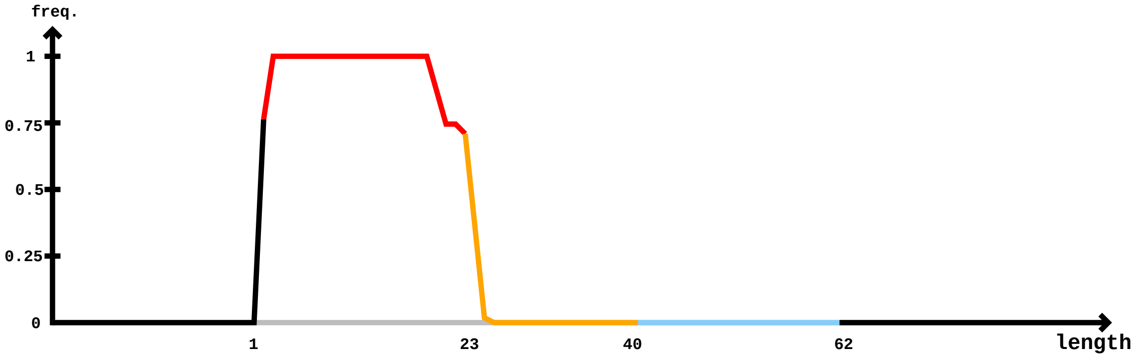
Supplemental File 8

Provisional ID : scaffold_2_6678
Score total : 1.7
Score for star read(s) : -1.3
Score for read counts : 0
Score for mfe : 2
Score for randfold : 1.6
Score for cons. seed : -0.6
Total read count : 55
Mature read count : 55
Loop read count : 0
Star read count : 0





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                         Mature                                       Star
5'- gaucacggggauguuaguucgugaaagauagugagcuucugauguuuaauauauccaccaggagcucguugucuuucauaaauuaauagacgaaaaguccccguacua  -3'   exp
    ....(((((((((((((((.(((((((((((((((((((((.((..((...))..)).))))))))))))))))))))).))))))).........))))))))....    reads      mm         sample
    ....................gugaaagauagugagcuu......................................................................    3          0          Msc
    ....................gugaaagauagugagcCu......................................................................    1          1          Msc
    ....................gugaaagaAagugagcuu......................................................................    1          1          Msc
    ....................gugaaagauagugUgcuu......................................................................    1          1          Msc
    ....................gugaaGgauagugagcuu......................................................................    1          1          Msc
    ....................gugaaGgauagugagcuuc.....................................................................    1          1          Msc
    ....................gAgaaagauagugagcuuc.....................................................................    1          1          Msc
    ....................Cugaaagauagugagcuuc.....................................................................    1          1          Msc
    ....................gugGaagauagugagcuuc.....................................................................    1          1          Msc
    ....................gugaaagaAagugagcuuc.....................................................................    2          1          Msc
    ....................gCgaaagauagugagcuuc.....................................................................    1          1          Msc
    ....................gugaaagauagugagcuucuCa..................................................................    1          1          Msc
    ....................gugaaagauagugagcuuUuga..................................................................    1          1          Msc
    ....................Uugaaagauagugagcuucuga..................................................................    1          1          Msc
    ....................gugaaagauagugagcuucugU..................................................................    1          1          Msc
    ....................gugaaagauagugagcCucuga..................................................................    1          1          Msc
    ....................gugaaagauagAgagcuucuga..................................................................    1          1          Msc
    ....................gugaaUgauagugagcuucuga..................................................................    1          1          Msc
    ....................gugaaagauagugCgcuucuga..................................................................    1          1          Msc
    ....................guCaaagauagugagcuucuga..................................................................    1          1          Msc
    ....................gugaaagauagugagcuucuga..................................................................    5          0          Msc
    ....................gugaaagauGgugagcuucuga..................................................................    1          1          Msc
    ....................gAgaaagauagugagcuucuga..................................................................    1          1          Msc
    ....................Cugaaagauagugagcuucuga..................................................................    1          1          Msc
    ....................gugaaagauagugagcuucugaA.................................................................    1          1          Msc
    ....................gugaaagauagugagcuucugau.................................................................    3          0          Msc
    ....................gugaaagauagugagcuuAugau.................................................................    1          1          Msc
    ....................gugaaagauagugagcuuGugau.................................................................    1          1          Msc
    ....................gugaaagauagugUgcuucugau.................................................................    1          1          Msc
    .....................ugaaagauagugagcuucuga..................................................................    4          0          Msc
    .....................uUaaagauagugagcuucuga..................................................................    1          1          Msc
    .....................ugaaagauGgugagcuucuga..................................................................    1          1          Msc
    .....................ugaaagaCagugagcuucuga..................................................................    1          1          Msc
    .....................ugaaagauGgugagcuucugau.................................................................    1          1          Msc
```

```
                    Mature                                 Star
gaucacggggauguuaguucgugaaagauagugagcuucugauguuuaauauauccaccaggagcucguugucuuucauaaauuaauagacgaaaguccccguacua
.....................ugaaagauagugaAcuucugau................................................................    1         1          Msc
.....................ugaaagauagugagcuucuCau................................................................    1         1          Msc
.....................ugaaagauagugagcuucugau................................................................    3         0          Msc

....................gugGaagauagugagcuucug..................................................................    1         1          Skn
....................gugaaagauagugagcGucug..................................................................    1         1          Skn
....................gugaaagauagugCgcuucugau................................................................    1         1          Skn
....................gCgaaagauagugagcuucugaug...............................................................    1         1          Skn
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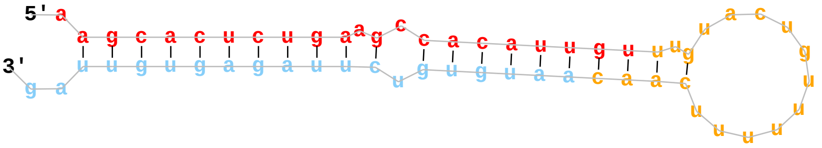
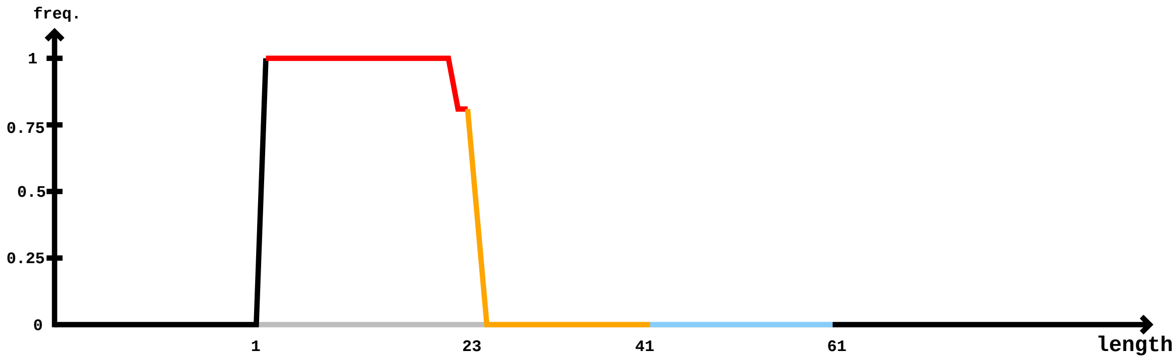
Provisional ID : scaffold_7_26772
Score total : 1.6
Score for star read(s) : -1.3
Score for read counts : 0
Score for mfe : 1.9
Score for randfold : 1.6
Score for cons. seed : -0.6
Total read count : 21
Mature read count : 21
Loop read count : 0
Star read count : 0





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                     Mature                                      Star
5'- ugagcugcugaaguaccccuaagcacucugaagccacauuguuuguacuguuuuuucaacaaugugucuuagaguguuaggggcccuuagcacccacagcaucuucugugag   -3'    exp
    .....((((((.(..(((((((.((((((((.(.(((((((((.(...........)))))))))).))))))))))))))))..)))))))..(((((......)))))..    reads      mm         sample
    ....................aaCcacucugaagccacauu........................................................................    1          1          Skn
    ....................aaUcacucugaagccacauu........................................................................    1          1          Skn
    ....................aagcacucugCagccacauu........................................................................    1          1          Skn
    ....................aagcacAcugaagccacauu........................................................................    1          1          Skn
    ....................aagcacucugCagccacauugu......................................................................    1          1          Skn
    ....................aagcacAcugaagccacauugu......................................................................    1          1          Skn
    ....................aagcacucugaagccacauugu......................................................................    3          0          Skn
    ....................aagcGcucugaagccacauugu......................................................................    1          1          Skn
    ....................aagcacucugaagccacauAgu......................................................................    1          1          Skn
    ....................aagcCcucugaagccacauugu......................................................................    1          1          Skn
    ....................aagcacucugaagccaUauugu......................................................................    1          1          Skn
    ....................aagcacucugaagccacauuCu......................................................................    1          1          Skn
    ....................aagcaAucugaagccacauugu......................................................................    1          1          Skn
    ....................aagcacucugaCgccacauugu......................................................................    1          1          Skn
    ....................aagGacucugaagccacauugu......................................................................    1          1          Skn
    ....................aagcacucugaagAcacauugu......................................................................    1          1          Skn
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    ....................aagcacucugaagccacauuguA.....................................................................    1          1          Skn
    ....................aagcaGucugaagccacauuguu.....................................................................    1          1          Skn
```