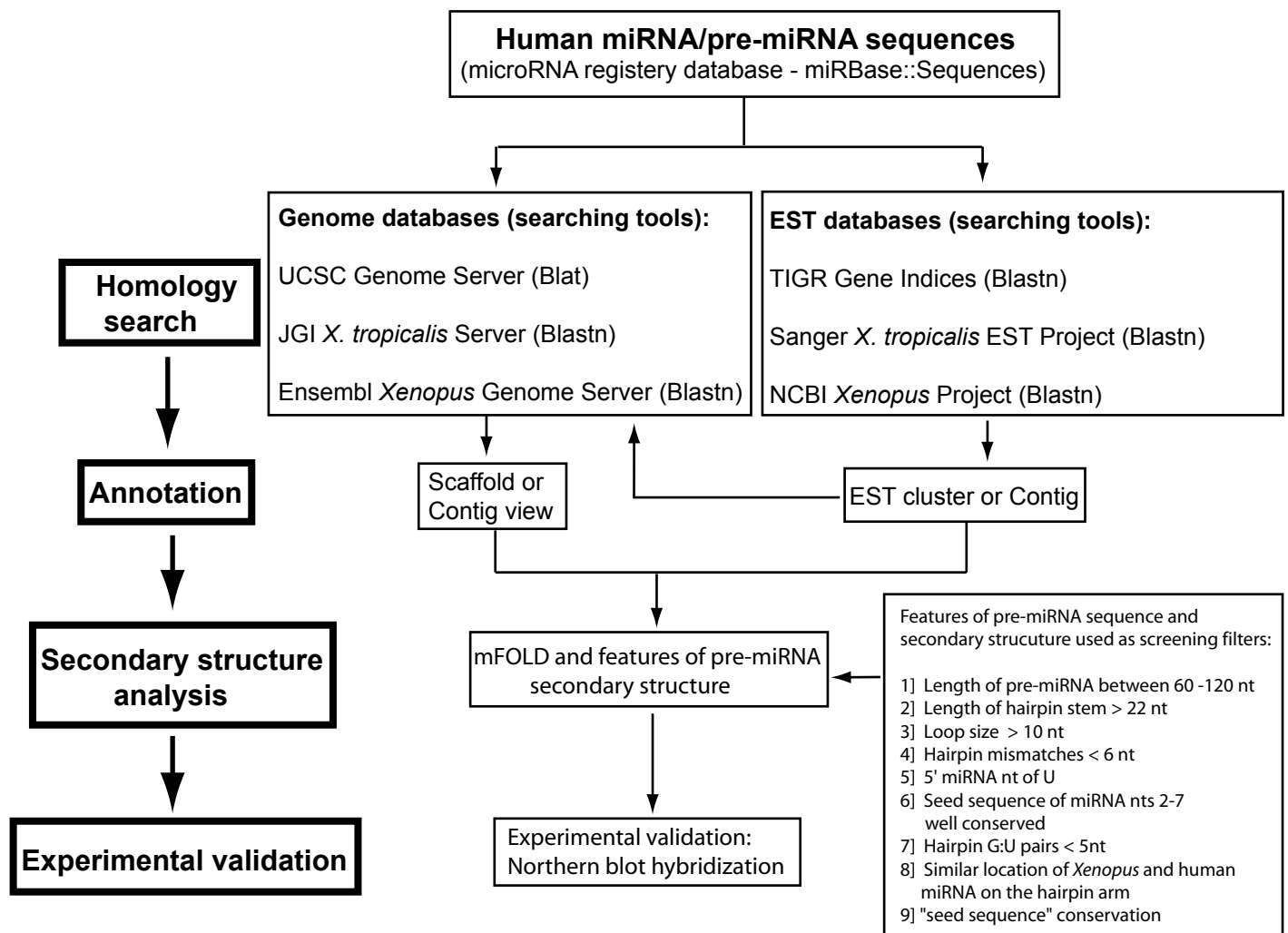




## Supplemental Table 1. *Xenopus tropicalis* MicroRNA Sequences

| miRNA             | miRNA, pre-miRNA sequences /new pre-miRNA folding                                                                                                         |    |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| <i>xtr-let-7a</i> | UGAGGUAGUAGGUUGUAUAGUU                                                                                                                                    | 22 |
|                   | <i>xtr-pre-let-7a</i> [MI0004908]<br>CAGGCUGAGGUAGUAGGUUGUAUAGUUAGGGAUAACACCAAGGAGAUAAACUGUACAGCCUCCUAUCUUUCCCCUG                                         |    |
| <i>xtr-let-7b</i> | UGAGGUAGUAGUUUGUGUAGU                                                                                                                                     | 21 |
|                   | <i>xtr-pre-let-7b</i> [MI0004787]<br>CUGGCUGAGGUAGUAGUUUGUGUAGUUAGGGGGCAGUGGUGUUUGCCCAUGGAGAUAAACUAGACAAACUACUGCCUUGCCAG                                  |    |
| <i>xtr-let-7c</i> | UGAGGUAGUAGGUUGUAUGGUU                                                                                                                                    | 22 |
|                   | <i>xtr-pre-let-7c</i> [MI0004886]<br>GCAUCCAGGUUGAGGUAGUAGGUUGUAUGGUUUAGAAUGACACCCUGGGAGUUAAACUGUACAACCUUCUAGCUUUCCUUGGAGCUCA<br>CUUGAACCAUCGA            |    |
| <i>xtr-let-7e</i> | UGAGGUAGUAGGUUGUUUAGUU                                                                                                                                    | 22 |
|                   | <i>xtr-pre-let-7e-1</i> [MI0004907]<br>UGGGAUGAGGUAGUAGGUUGUUUAGUUUAGUUAUUGGGCCGCACCCACCAAUUGGGAGAGAAACUACACAACCUACUGUCUCUCCUA                            |    |
|                   | <i>xtr-pre-let-7e-2</i> [MI0004909]<br>GGGUGAGGUAGUAGGUUGUUUAGUUUGGGGUUGCACCCUGACGUUUGGAUAACUAUACAUCUACUGUCUUUCCUGA                                       |    |
| <i>xtr-let-7f</i> | UGAGGUAGUAGAUUGUAUAGUU                                                                                                                                    | 22 |
|                   | <i>xtr-pre-let-7f-2</i> [MI0004887]<br>UGCAGGAUGAGGUAGUAGAUUGUAUAGUUUUGGGGUCACACCCGAUCUGGGAGAUAAACUAUACAGUUUACUGUCUUUCCUGCG                               |    |
| <i>xtr-let-7g</i> | UGAGGUAGUUGUUUGUACAGU                                                                                                                                     | 21 |
|                   | <i>xtr-pre-let-7g</i> [MI0004888]<br>GGCUGAGGUAGUUGUUUGUACAGUUUAAAGGGUCUGUGACACCACCCUCUGUUGGAGAUAAACUGUACAGGCCACUGCCUUGCCUA                               |    |
| <i>xtr-let-7i</i> | UGAGGUAGUAGUUUGUCUGU                                                                                                                                      | 21 |
|                   | <i>xtr-pre-let-7i</i> [MI0004889]<br>CUGGCUGAGGUAGUAGUUUGUCUGUUGGUCGGGUUGUGACACUGCCCGCUGUGGAGAUAAACUGCGCAAGCUACUGCCUUGCUA                                 |    |
| <i>xtr-miR-1a</i> | UGGAAUGUAAAGAAGUAUGUA                                                                                                                                     | 21 |
|                   | <i>xtr-pre-miR-1a-2</i> [MI0004788]<br>ACUCGUUGCACCCUAUUUUGGGAGACAUACUUCUUUAUUGUCCAUUGGAAGUGCCA AUGCUAUGGAAUGUAAAGAAGUAUGUAUCUCCGA<br>UAGGGGUCC           |    |
|                   | <i>xtr-pre-miR-1a-1</i> [MI0004789]<br>UACCUGUUUGGAGUACAUACUUCUUUAUGUACCCAUUGAACAUAACAUGCUAUGGAAUGUAAAGAAGUAUGUAUUUUUAUCAGGUACUG                          |    |
| <i>xtr-miR-1b</i> | UGGAAUGUAAAGAAGUAUGUA                                                                                                                                     | 21 |
|                   | <i>xtr-pre-miR-1b</i> [MI0004890]<br>CCACCUUAGGGCACAUACUUCUUUAUUGCCCAUACUGAAUGAAAAUGCUAUGGAAUGUUAAGAAGUAUGUAACCUAAGGGGUUGCCUU                             |    |
| <i>xtr-miR-7</i>  | UGGAAGACUAGUAGUUUUGUUG                                                                                                                                    | 22 |
|                   | <i>xtr-pre-miR-7-1</i> [MI0004790]<br>UGGAUGUUGGUUUAGUUCUGUGUGGAAGACUAGUGAUUUUGUUGUUUUUAGAUAAACAACAUUGACAACAAUCGCAGUCUGCCAUUGGC<br>ACAGACCAUGCCUCUACAGG   |    |
|                   | <i>xtr-pre-miR-7-2</i> [MI0004792]<br>AGGAGGUGCAGGCUGACUCUUUGUGGAAGACUAGUGAUUUUGUUGUUGUUAAGCCUUAUUGCAUGACAACAAGUCACAGUCUGCCUCACAG<br>UGCCAGCAUAUCAGCAACC  |    |
|                   | <i>xtr-pre-miR-7-3</i> [MI0004791]<br>UUCACUUUAUUUCUGGGUGCGUUUGGAAGACUAGUGAUUUUGUUGUUUUUAUAAAAGUUUGUCACAAACAGCAAUCGUAGUCUCCACUCU<br>GCCCCAGGAGCCUGCCUUCUG |    |
| <i>xtr-miR-9a</i> | UCUUUGGUUAUCUAGCUGUAUGA                                                                                                                                   | 23 |
|                   | <i>xtr-pre-miR-9a-1</i> [MI0004793]<br>GGGGUUGGUUGUUAUCUUUGGUUAUCUAGCUGUAUGAGUGUUGUCAAUCCUUAUAAAGCUAGUAACCGAAAGUAAAAUAACCCCA                              |    |

*xtr-pre-miR-9a-2* [MI0004794]  
 GGAAGUGGUUGUUAUCUUUGGUUAUCUAGCUGUAUGAGUGUAUUGGUUUUCAUAAAGCUAGAUAAACCGAAAGUAAAAACUCCUUC

*xtr-miR-9\** UAAAGCUAGAUAAACCGAAAGU 21

*xtr-miR-10a* UACCCUGUAGAUCCGAAUUUGUG 23

*xtr-pre-miR-10a* [MI0004796]  
 GAUUUGCCUGUCCUCUGUAUGUACCCUGUAGAUCCGAAUUUGUGUGAGCGCAAUCAUAUCACAAAUUCGUGUCUGGGGGGAUAUGCAGUU  
 GACACAAACG

*xtr-miR-10b* UACCCUGUAGAACC GAAUUUGU 22

*xtr-pre-miR-10b* [MI0004797]  
 AACGUUGUCUAUAUGUACCCUGUAGAACC GAAUUUGUGUGGUUCGUACAGUCACAGAUUCGAUUCUAGGGGGGAUAUAUGGUCGAUGCA

*xtr-miR-15a* UAGCAGCACAUAAUGGUUUUGUG 22

*xtr-pre-miR-15a* [MI0004799]  
 CCUUGACGUAAAGUAGCAGCACAUAAUGGUUUUGUGGGUUACACAGAGGUGCAGGCCAUACUGUGCUGCCGCCAAAACACAAGG

*xtr-miR-15b* UAGCAGCACAUCAUGAUUUUGCA 22

*xtr-pre-miR-15b* [MI0004800]  
 UGUCCUAAAAGAGUGUAGCAGCACAUCAUGAUUUUGCAUGCUGUAUUUAUGAUUCUAAUCAUUUUUUGCUGCUUCAUGAUUUUGGAAA

*xtr-miR-16a* UAGCAGCACGUAAAUAUUGGUG 22

*xtr-pre-miR-16a* [MI0004802]  
 GCCAGCAGTCCTTTAGCAGCACGTAAATATTGGTGTTAAATGGTCCCAATATTAAGTGTGCTAGAGTAAGGTTGCGCT

*xtr-miR-16b* UAGCAGCACGUAAAUAUUGGUG 22

*xtr-miR-16b* [MI0004910]  
 AAUUGCUCCGCAUUAGCAGCACGUAAAUAUUGGGUGAUUAGAUUAGGAGCCCCAGUAUUUAUUGUACUGCUUAAGUGUGGCAAGG

*xtr-miR-17-5p* CAAAGUGCUUACAGUGCAGGUAGU 24

*xtr-pre-miR-17* [MI0004803]  
 GTCAAGAGTAATGTCAAAGTGCTTACAGTGCCAGGTAGTGATTAAACAGAACCTACTGCAGTGAAGGCACTTGTAGCATTATATTGAC

*xtr-miR-17-3p* ACUGCAGUGAAGGCACUUGU 20

*xtr-miR-18a* UAAGGUGCAUCUAGUGCAGAUAG 23

*xtr-pre-miR-18a* [MI0004893]  
 UGUCCUAAGGUGCAUCUAGUGCAGAUAGUGAAGUAGAUUAGCAUCUACUGCCCUAAGUGCUCCUUCUGGCA

*xtr-miR-18a\** ACUGCCCUAAGUGCUCCUUCU 21

*xtr-miR-18b* UAAGGUGCAUCUAGUGCAGUUAG 23

*xtr-pre-miR-18b* [MI0004959]  
 CCUUGUGUUAAGGUGCAUCUAGUGCAGUUAGUGACAUAGUGUAGCAUCUACUGCCCUAAAUGCUCCUUUUGGCACAG

*xtr-miR-18b\** CUGCCCUAAAUGCUCCUUUU 20

*xtr-pre-miR-18b* [MI0004959]  
 CCUUGUGUUAAGGUGCAUCUAGUGCAGUUAGUGACAUAGUGUAGCAUCUACUGCCCUAAAUGCUCCUUUUGGCACAG

*xtr-miR-19b* UGUGCAAAUCCAUGCAAAACUGA 23

*xtr-pre-miR-19b-2* [MI0004805]  
 UUGGUGCUUCAUGGUUAGUUUGCAGGUUUGCAUCCAGUUGUUCUUCUGGCUCACUGUGCAAAUCCAUGCAAAACUGAUUAUGGCACUUA

*xtr-pre-miR-19b-1* [MI0004960]  
 AUACCUGCUCCUGUCAGUUUAGCUGGUUUGCAUCAGCUGACUUAUUGUGCUGUGCAAAUCCAUGCAAAACUGACUGUGGCUGGGAAGG

*xtr-miR-20a* UAAAGUGCUUAUAGUGCAGGUAG 23

*xtr-pre-miR-20a* [MI0004911]  
 AGUGGUGCUAAAGUGCUUAUAGUGCAGGUAGUUUUUCUGUAUUCUACUGCAUAAUGAGCACUUAAGUACUCCUAGCUGCAU

*xtr-miR-20b* CAAAGUGCUCAUAGUGCAGGUAGU 24

*xtr-pre-miR-20b* [MI0004961]

CUGUCAAGCAGUCCAAAGUGCUCUAUAGUGCAGGUAGUUGUAUUGAUGUUCUACUGUAAUAUGGGCACUACAGUACUGCUAGACAAUUAU  
UCAUCUCCUCGCUU

*xtr-miR-20b\** ACUGUAAUAUGGGCACUUAC 20

*xtr-pre-miR-20b* [MI0004961]  
UCAAGCAGUCCAAAGUGCUCUAUAGUGCAGGUAGUUGUAUUGAUGUUCUACUGUAAUAUGGGCACUACAGUACUGCUA

*xtr-miR-22* AAGCUGCCAGUUGAAGAACUGU 22

*xtr-pre-miR-22* [MI0004912]  
UAUGUUGUCCUCUGUGCUAAAGCUGCCAGUUGAAGAACUGUUGAAAGUGGCUACUGUUCGACUGGGAUUAUUGGUGUUUUGGAGGAAAAAC  
AAUGGAUACAGAGAGGCU

*xtr-miR-23a* AUCACAUUGCCAGGGAUUUCC 21

*xtr-pre-miR-23a-1* [MI0004894]  
GGGGGAUUCUGGAGAUUGGGAUUUAUUUUGGCAGCCAUAUAAUACACAUUGCCA GGGAUUCCAACUGUCGGCC  
21

*xtr-pre-miR-23a-2* [MI0004806]  
GUAGGAUUCUGGCAGAGUGAUUUGGAAUGUAUGGUACAAAUCACAUUGCCAGGGAUUUCCAUCAGU

*xtr-miR-23b* AUCACAUUGCCAGGGAUUACCA 22

*xtr-pre-miR-23b* [MI0004896]  
AUACCGGUGUGGCUGUUUGGGUUCUGGCAUGCUGAUUUGUGAGUUAAGAUUAAAUCACAUUGCCAGGGAUUACCAACAACCAUGUCC

*xtr-miR-24a* UGGCUCAGUUCAGCAGGAACAG 22

*xtr-pre-miR-24a* [MI0004895]  
CUUGUGCCUACUGAACUGAUUACAGUUCUUAUUUACACACUGGCUCAGUUCAGCAGGAACAGGAGUCGGG

*xtr-miR-25* CAUUGCACUUGUCUCGGUCUGA 22

*xtr-pre-miR-25-1* [MI0004914]  
GCUGGUGUUGACAGGCAGAGACAGGAGCAACUGCUGGUGUGCCUUGGUAGCAUUGCACUUGUCUCGGUCUGACAGUGUCGGC

*xtr-pre-miR-25-2* [MI0004915]  
AGCUGGUGUUGACAGGCAGAGACAGGAGCAACUGCUGGUGUGCCUUGGUAGCAUUGCACUUGUCUCGGUCUGACAGUGUCGGCAAAACCC

*xtr-miR-26* UUCAAGUAAUCCAGGAUAGGC 21

*xtr-pre-miR-26-1* [MI0004807]  
GGCUGCUGCCUGGUUCAAGUAAUCCAGGAUAGGCUGUUUCCUCAAGCACGGCCUACUCUUGAUUACUUGUUUCAGGAAGUAGCU

*xtr-pre-miR-26-2* [MI0004808]  
GCUCGCUUCAAGUAAUCCAGGAUAGGCUGUAAUGUCUCCUGUCAGCCUUUUCU  
CGAUUACUUG

*xtr-miR-27a* UUCACAGUGGCUAAGUCCGC 21

*xtr-pre-miR-27a* [MI0004809]  
CGGCGGCCAGGGCUUAGCUGUAUUGUGAGCACUGUCACUCUCGCACCUGUUCACAGUGGCUAAGUUCGCGCCUC

*xtr-miR-27b* UUCACAGUGGCUAAGUUCUGC 21

*xtr-miR-27b* [MI0004810]  
ACCUUUCUACCAAGGUGCAGAGCUUAGCUGAUUGGUGAACAGUGAUUUGAUUCCCUUUUGUUCACAGUGGCUAAGUUCUGCACCUGAAGAG  
AGGC

*xtr-miR-27c* UUCACAGUGGCUAAGUUCUGC 21

*xtr-pre-miR-27c-1* [MI0004916]  
UCUAGAGAGGCAGGACUUAGCUGGCUCUGUGAACAGGUCUUGUGUGUCAUUGUUCACAGUGGCUAAGUUCACCCACUC

*xtr-miR-29a* UAGCACCAUUUGAAUCCGUU 21

*xtr-miR-29a* [MI0004897]  
AUGACUGAUUUCUUCUGGUGUUCAGAGUCUUUGUUUUCUAGCACCAUUUGAAUCCGUUUAU

*xtr-miR-29b* UAGCACCAUUUGAAUCCAGUGUU

*xtr-pre-miR-29b* [MI0004812]  
UCCCGGAAGCUGGUUUCUUGUGGUGACUUAGAUUUUAUCCAUCGCUGCAUCUAGCACCAUUUGAAUCCAGUGUUCUAGGAG

*xtr-miR-29c* UAGCACCAUUUGAAAUCGGUUAU 23

*xtr-pre-miR-29c* [MI0004918]  
UCCCUUACACAGGAUGACCGAUCUCUUGGUGUUCAGAGGCUCAGGUCUUAUCUAGCACCAUUUGAAAUCGGUUUAAUGUAAGGUGA

*xtr-miR-29d* UAGCACCAUAUGAAAUCAGUGUU 23

*xtr-pre-miR-29d* [MI0004811]  
UUCAGGAGGCUGGUUUCAUGUGGUGGUUUAGAUUUAAUCGCACAAUGUCUAGCACCAUAUGAAAUCAGUGUCCUAGAAG

*miR-30a-5p* UGUAAACAUCUCGACUGGAAG 22

*xtr-pre-miR-30a* [MI0004813]  
GCGACUGUAAACAUCUCGACUGGAAGCUGUGAAGCAGUUGAAGGGCUUUCAGUCAGAUUUUGCAGCUGC

*xtr-miR-30a-3p* CUUUCAGUCAGAUUUUGCAGC 22

*xtr-miR-30b* UGUAAACAUCUACACUCAGCU 22

*xtr-pre-miR-30b* [MI0004814]  
CAGACGCUCCGUUUAGUCUAUGUAAACAUCUACACUCAGCUCGUAUGUAUAACCUGACUGGGUGGGGGUGUUUGCCUCGACUGAUCUG  
GAAACUC

*xtr-miR-30c* UGUAAACAUCUACACUCUCAGC 23

*xtr-miR-30c-1* [MI0004815]  
ACCAUGCAGCAGUGAUUGUAAACAUCUACACUCUCAGCUGUGAACAUAAGGUGGCUGGGAGAAGGGUGUUUACUCCCCUGCCAUGGA

*xtr-miR-30c-2* [MI0004919]  
UCUGAGAGACAGAUACUGUAAACAUCUACACUCUCAGCUGUGGAAUACAAGCUGGGGGAAGGCUGUUUACUCUCUCUGCCUCUACAG  
CAGCU

*xtr-miR-30d* UGUAAACAUCCCGACUGGAAG 22

*xtr-pre-miR-30d* [MI0004898]  
AGUUUGUCGCUGUAAACAUCCCGACUGGAAGCUGUGAGGCUGCAUUUGAGCUUUCAGUCUGGUGUUUGCUGCUACCGGU

*xtr-miR-30d\** CUUUCAGUCUGGUGUUUGCUGC 22

*xtr-pre-miR-30d* [MI0004898]  
UGUCGCUGUAAACAUCCCGACUGGAAGCUGUGAGGCUGCAUUUGAGCUUUCAGUCUGGUGUUUGCUGCUACCGG

*xtr-miR-30e* UGUAAACAUCUUGACUGGAAG 22

*xtr-pre-miR-30e* [MI0004920]  
CAGCCUCUGUAAACAUCUUGACUGGAAGCUGUGAAUAAUGAUAGUAGCUUUCAGUCGGAUGUUUACAGCUGCUAGCUGC

*xtr-miR-30e\** CUUUCAGUCGGAUGUUUACAGC 22

*xtr-pre-miR-30e* [MI0004920]  
CAGCCUCUGUAAACAUCUUGACUGGAAGCUGUGAAUAAUGAUAGUAGCUUUCAGUCGGAUGUUUACAGCUGCUAGCUGC

*xtr-miR-31* GGCAAGAUGUUGGCAUAGCUG 21

*xtr-pre-miR-31* [MI0004921]  
AGUUCUAGAGAGGAGGCAAGAUGUUGGCAUAGCUGUUGCAUCUGAAACCAGUUGUGCCAACCUAUUGCCAUCUUCUUGUCUACC

*xtr-miR-31b* GGCAAGAUGCUGGCAAGCU 20

*xtr-pre-miR-31b* [MI0006264]  
GUAACCACUAGGCAAGAUGCUGGCAAGCUAAUUACCUUUUACCUGGCUUCCAUCUCAGUCUAGCAGCAUUUUUGG

Initial dG = -15.70

```

      10      20      30
GUAACCA---- A- CU- | A C UUA
CUAGGC AGAUG GGC AG UAA \
GAUCUG UCUAC UCG UC AUU C
GGUUAUUACGAC AC CUU^ G C UUC
      70      60      50      40

```

*xtr-miR-33* GUGCAUUGUAGUUGCAUUG 19

*xtr-pre-miR-33a* [MI0004922]  
CUGUGGUGCAUUGUAGUUGCAUUGCAUGAUACGCGGUGUGCAAUGUGCCUGCAGUGCAACACAGAGGUAGUGCCGG

*xtr-miR-34a* UGGCAGUGUCUUAGCUGGUUGUU 23

*xtr-pre-miR-34a* [MI0004816]  
GCUGUCUGUGAGUGUUUCUUUGGCAGUGUCUUAGCUGGUUGUUGGCGACGUUAUAGAAGUAGCAAUCAGCAAUUAUCUGCCCUAGAAGU  
UCUGCACAUUGUGUGGCC

*xtr-miR-34b* AGGCAGUGUAGUUAGCUGAUUGU 23

*xtr-pre-mir-34b-1* [MI0004925]  
UGUUGGGUUUCAGGCAGUGUAGUUAGCUGAUUGUGUUAACAUAAGACUUGCAAUCACUAGCUAAACUACCAGCAAAACUAA

*xtr-pre-miR-34b-2* [MI0004817]  
UGUUCGGUUUCAGGCAGUGUAGUUAGCUGAUUGUGUUAUAUCAAUUUGCAAUCACUAGCUAAACUACCAUAAAAACUUA

*xtr-pre-mir-34b-3* [MI0004924]  
CCGACUUAUGUUGGGUUUCAGGCAGUGUAGUUAGCUGAUUGUGUUAACAUAAGACUUGCAAUCACUAGCUAAACUACCAGCAAAACUAAAC  
AUGAAAGU

*xtr-pre-miR-34b-4* [MI0004818]  
UGUUCGGUUUCAGGCAGUGUAGUUAGCUGAUUGUGUUAUAUCAAUUUGCAAUCACUAGCUAAACUACCAUAAAAACUUAACAUA

*xtr-miR-92a* UAUUGCACUUGUCCCGGCCUG 21

*xtr-pre-miR-92a-1* [MI0004926]  
CUUUCUGUAUAGGUUGGGAUUGGUUGCAAUGCUGUACUAAUUAUGUAGUAUUGCACUUGUCCCGGCCUGUUAGGAUG

*xtr-pre-miR-92a-2* [MI0004819]  
UCCUCUGUGGGUGGGGAUUUGUUGCACUACUGUAUGUAUGAAAGUAUUGCACUUGUCCCGGCCUGUGGGUGA

*xtr-miR-93a* AAAGUGCUGUUCGUGCAGGUAG 22

*xtr-pre-miR-93a* [MI0004900]  
AAGUGCUGUUCGUGCAGGUAGCUAAUAACAGACCUACUGCAUGGGCGGCACUUCCCAAGCCC

*xtr-miR-93b* -AAGTGCTGTTCTGTCAGGTAG 22

*xtr-pre-miR-93b* [MI0004901]  
CUUCAAGUGCUGUUCGUGCAGGUAGCUAAUAACAGACCUACUGCAUGGGCGGCACUUCCCAAG

*xtr-miR-96* UUUGGCACUAGCACAUUUUUGC 22

*xtr-pre-miR-96* [MI0004902]  
GGCCUGCUUUGGCACUAGCACAUUUUUGCUUUUGUACAUUAUACUUUGAGCAAUUAUGUGUAGUGCCAAUUAUGGA

*xtr-miR-98* UGAGGUAGUAAGUUGUAUUGUU 22

*xtr-pre-miR-98* [MI0004820]  
UCUGCCCUCUUCAGGAUGAGGUAGUAAGUUGUAUUGUUGUGGGGGUUUUUAUUUCCCAAAUUAAGGAGUAACUAUACAGCUUACUGCCUU  
CCCUGCAGCAUGGUAAU

*xtr-miR-99* AACCCGUAGAUCCGAUCUUGUG 22

*xtr-pre-miR-99* [MI0004821]  
UACCUACUAACAUAACCCGUAGAUCCGAUCUUGUGUGAAUCCUUUGCUCAAGCUCGUUUCUAUGGGUCUGUGUCAUUAUGGAUCCGG

*xtr-miR-100* AACCCGUAGAUCCGAACUUGUG 22

*xtr-pre-miR-100* [MI0004927]  
GUUGCCAAUAACCCGUAGAUCCGAACUUGUGCUGUGCCCCUCACAAAGCUCGAGUGUGCGGGUCUGUGUCGGCUU

*xtr-miR-101a* UACAGUACUGUGAUACUGAAG 22

*xtr-pre-miR-101a-2* [MI0004903]  
UGCCUGGCUCAGUUAUCACAGUGCUGUCUACUCUAAAGGUACAGUACUGUGAUAAACUGAAGGAUGGUAGC

*xtr-pre-miR-101a-1* [MI0004928]  
GCGUGAACUGUCCUUUUGCGUUAUCAGGUACCGGUGCUGUGUAUAUGAAAGGUACAGUACUGUGAUAAACUGAAGAAUGGUGGCCA

*xtr-miR-103* AGCAGCAUUGUACAGGGCUAUGA 23

*xtr-pre-miR-103-1* [MI0004904]  
CAUUUCCUUUGGCUUCUUACAGUGCUGCCUUGUUGCAUAUGGAUCAAGCAGCAUUGUACAGGGCUAUGAAGGAUCUGAG

*xtr-pre-miR-103-2* [MI0004929]  
UGUGCUUUCAGCUUCUUUACAGUGCUGCCUUGUAGCAUCUAUGUCAAGCAGCAUUGUACAGGGCUAUGAAGGAGCAGAGA

*xtr-miR-106* CAAAAGUGCUUAUAGUGCAGGUAG 23

*xtr-pre-miR-106* [MI0004822]

UGACCUGCCUGCGUUGUGCAAAGUGCUUAUAGUGCAGGUAGAAUUUAAACCUACUGCACCAUAAGCACUCCUGCAUCA

*xtr-miR-106* AAAAGUGCUUAUAGUGCAGGUAGA 24

*xtr-pre-miR-106* [MI0004822]  
CUGCCUGCGUUGUGCAAAGUGCUUAUAGUGCAGGUAGAAUUUAAACCUACUGCACCAUAAGCACUCCUGCAUCACUAA

*xtr-miR-107* AGCAGCAUUGUACAGGGCUAUA 23

*xtr-pre-miR-107* [MI0004823]  
AUCUUACUGCUUUCAGCUUCUUUACAGUGUUGCCUUGUGGCAUGGAGUUAAGCAGCAUUGUACAGGGCUAUCAAAGCAUUAAGA

*xtr-miR-122* UGGAGUGUGACAAUGGUGUUUGU 23

*xtr-pre-miR-122* [MI0004824]  
GACUGCUGGAGCUAUGGAGUGUGACAAUGGUGUUUGUGUCAGAGCUAUCAAACGCCAUUAUCACACUAAUGAGCUACUGCAGGCACAC

*xtr-miR-124* UAAGGCACGCGUGAAUGCCA 21

*xtr-pre-miR-124* [MI0004930]  
AAGUCUCUGACUCUCCGUGUUCACAGCGGACCUUGAUUUAAUGUCAUACAUAAGGCACGCGGUGAAUGCCAAGAGUGGAGCCUAC

*xtr-miR-125a* UCCCUGAGACCCUU-AACCUGUG 23

*xtr-pre-miR-125a* [MI0004931]  
AAUUAUGGUGUGAUGUUCUGUCCUGAGACCCUUAACCUGUGAGGAAGACAUUAUGUCACAGGUGAGGUUCUGAGGAGCUGGACGCCAUG  
CACAGACCGC

*xtr-miR-125b* UCCCUGAGACCCUAACUUGUGA 22

*xtr-pre-miR-125b-1* [MI0004825]  
UGCACCCUCUCAUCCCUGAGACCCUAACUUGUGAUGUUUAGCUUUAAAAUCCACGGGUAGGCUCUUGGGAGCUGUGAGUUGUGC

*xtr-pre-miR-125b-2* [MI0004826]  
GACUUUCCUAGUCCUGAGACCCUAACUUGUGAGGAUUUUUAGCAACAUCACAAGUUAGGCUCUUGGGACCUAGGCGGAGGG

*xtr-miR-126\** CAUUAUUACUUUUGGUACGCG 21

*xtr-pre-miR-126* [MI0004827]  
GGCUGUGCAUUAUUACUUUUGGUACGCGCUGUGUCACAUAACUCGUACCGUGAGUAAUAAUGCGCAG

*xtr-miR-126* UCGUACCGUGAGUAAUAAUGC 21

*xtr-miR-128* UCACAGUGAACCGGUCUCUUUU 22

*xtr-pre-miR-128-1* [MI0004932]  
UGAGCGGCUGGAACCGGGCCCGAGCGCUGUCUGAGAGGGUUUAAGUUUCACAGUGAACCGGUCUCUUUUUCAGUCUCUUC

*xtr-pre-miR-128-2* [MI0004828]  
UUGUGCAGCUGGAACGGGGCCGUUACACUGUAAGAGAGUGAGUAGUAGGUCUCACAGUGAACCGGUCUCUUUUUCUACUGUAGCAAGUC

*xtr-miR-129* CUUUUUGCGGUCUGGGCUUGC 21

*xtr-pre-miR-129-1* [MI0004829]  
UCCUUCUCAAUUCUUUUUGCGGUCUGGGCUUGCUGUAUGUAAUACCUAGCCGGGAAGCCCUUACCCCAAAAGCAUUUGCGGAGGGCG

*xtr-pre-miR-129-2* [MI0004830]  
UCUCAAGCUUUUUGCGGUCUGGGCUUGCUGUUCUCAAUCAAAGUAUCCAGGAAGCCCUUAUCCCAAAAGAAUUUGCGAGG

*xtr-miR-130a* CAGUGCAAUGUAAAAGGGCAU 22

*xtr-pre-miR-130a* [MI0004831]  
CUGUCCAGUGCCCUUUUUAUGUUGUACUACUAGUGGUCACACACAAAAAAGCAGUGCAAUGUAAAAGGGCAUUGGCCAGGG

*xtr-miR-130b* CAGUGCAAUGAUGAAAGGGCAU 22

*xtr-pre-miR-130b* [MI0004833]  
CAGGCCGCCUGACACUCUUUCCUGUUGACUACUGUGGCAGUGAAUAAAGCAGUGCAAUGAUGAAAGGGCAUCAGUCUGCAGCU

*xtr-miR-130c* CAGUGCAAUUAUAAAAGGGCAU 22

*xtr-pre-miR-130c* [MI0004832]  
AUCCGUGGCCCUUUUUCUGUUGUACUACUGGAUUUGUAAUUAAGCAGUGCAAUUAUAAAAGGGCAUUGGCU

*xtr-miR-132* UAACAGUCUACAGCCAUGGUCG 22

*xtr-pre-miR-132* [MI0004834]  
CUGUCUCCAGGGCAACCGUGGCUUAGAUUGUUACUGUAGUUCUGCAUUGGUAACAGUCUACAGCCAUGGUCGCUCGGGCAAGAUGC

*xtr-miR-133a* UUGGUCCCCUUAACCAGCUGU 22

*xtr-miR-133a* [MI0004962]  
CAAUGCUUUGCUAAAGCUGGUAAGGAACCAAUACCUCUUAUGGAUUUGGUCCCCUUAACCAGCUGUAGGAUUGCAUUG

*xtr-miR-133b* UUGGUCCCCUUAACCAGCUA 22

*xtr-miR-133b* [MI0004837]  
CUGCUAUGGCUGGUCAAACGGAACCAAGUCCGUCUCCUAGAGGUUUGGUCCCCUUAACCAGCUAUUGCAGUA

*xtr-miR-133c* UUGGUCCCCUUAACCAGCUGC 22

*xtr-pre-miR-133c* [MI0004835]  
CCAAGGUUGAAUGCUUUGCUAAAGCUGGUAAAAUGGAACCAAUACUGUUGAAUGGAUUUGGUCCCCUUAACCAGCUGCAGCUGUGCA  
UUGA

*xtr-miR-133d* UUGGUCCCCUUAACCAGCCGC 22

*xtr-pre-miR-133d* [MI0004836]  
CUGGUUGCGGCUGGUGAAAAGGAACCAUCAACCCAGAAAAAGGAUUUGGUCCCCUUAACCAGCCGCAACUGGU

*xtr-miR-135* UAUGGCUUUUUAUCCUAUGUGA 23

*xtr-pre-miR-135-1* [MI0004838]  
AUAAAUUCACUGUGGUGUUUUAUGGCUUUUUAUCCUAUGUGAUAGUAAUAAUGUCUCAUGUAGGGAUGGAAGCCAUGAAAUAUUGUGAA  
AAGUCA

*xtr-pre-miR-135-2* [MI0004933]  
CCCCUGCUGAGGUAAUUGGCUUUUUAUCCUAUGUGAUUGCUUCCUAAUUCACAUAGGGCAGAAAGCCAUGUGCUGCACAGGGGAC

*xtr-miR-137* UAUUGCUUAAGAAUACGCGUAG 22

*xtr-pre-miR-137-1* [MI0004934]  
GCUCUGUGGCUCUCUUCGGUGACGGGUAAUUCUUGGGUGGAUAAUACGGAUUACGUUGUUAUUGCUUAAGAAUACGCGUAGUUGAGGAGAG  
UAUCUUCAG

*xtr-miR-138* AGCUGGUGUUGUGAAUC 17

*xtr-miR-138* [MI0004839]  
CGGUGCGGAGCAGCAGCUGGUGUUGUGAAUCAGGCCGUGACCACUCAGAAAACGGCUACUUCACAACACCAGGGUUGCUUCUCAC

*xtr-miR-139* UCUACAGUGCAUGUGUCU 18

*xtr-pre-miR-139* [MI0004840]  
GGACCGCCGGUGAGGCCUGGGUGUAUUCUACAGUGCAUGUGUCUCCAGUCAUUAAGAGGCACUGGGGAUACAGCUCUGUUGGAUUAACAA  
UCAGUGCCGC

*xtr-miR-140* AGUGGUUUUACCCUAUGGUAG 21

*xtr-pre-miR-140* [MI0004841]  
CCCUCUCUGUGUCCUCCAGUGGUUUUACCCUAUGGUAGGUUACGUCAGGCUGUUCUACCACAGGGUAGAACCACGGACAGGAUACGGGG  
AGCU

*xtr-miR-142-5p* CAUAAAGUAGAAAGCACUAC 20

*xtr-miR-142-1* [MI0004842]  
CAGUGCAGCCACCCAUAAAGUAGAAAGCACUACUAGACAGGACUGAACGCUGUAGUGUUCCUACUUAUUGGAUGAGUGUACUGGG

*xtr-miR-142-3p* UGUAGUGUUUCCUACUUUAUGGA 23

*xtr-miR-143* UGAGAUGAAGCACUGUAGCUCG 22

*xtr-pre-miR-143* [MI0004937]  
UGUCUCCAGCCCAAGGUGCAGUGCUGCAUCUCUGGUCAGUUGUGAGUCUGAGAUGAAGCACUGUAGCUCGGGAAGGGGGAU

*xtr-miR-144* UACAGUAUAGAUGAUGUACUAC 22

*xtr-pre-miR-144* [MI0004938]  
UUUGGGACUGUGUUUGGAUAUCAUAUACUGUAAGUUUGUUUAAGACACUACAGUAUAGAUGAUGUACUACACCAAGUCUCACAAGCA  
CG

*xtr-miR-145* GUCCAGUUUCCAGGAUCCCUU 24

*xtr-pre-miR-145* [MI0004939]  
 ACCUAUUCUCAAGGUCCAGUUUCCAGGAAUCCCUUGGGUGCUGUGGUGGGGAUUCUGGAAAUACUGUUCUUGGGGUGUAGGC

*xtr-miR-146* UGAGAACUGAAUCCAUGAGUU 22

*xtr-pre-miR-146* [MI0004844]  
 CAAUGAGUUCUAGCUUUGAGAACUGAAUCCAUGGUUGUUAGAGGUUAGACCUAUGGUGCUUAGUCCAUGCUUGGAUCCACUGGC

*xtr-miR-146b* UGAGAACUGAAUCCAUGGACU 22

*xtr-premiR-146b* [MI0006265]  
 CCAAUGGCAGGGCCCGCUCUGAGAACUGAAUCCAUGGACUGUCCACUCACAGCACCCUCAGUCCACAGUGUUCAGUGCUCAGUCUGG  
 CUGCCACUA

Initial dG = -37.40

```

      10      20      30      40      50
CCAA|  GG  C  CU  A  UCCA  UUCCACUC
      UGGCA  GCC  GGC  GAG  ACUGAAU  UGGACUG  A
      ACCGU  CGG  CUGA  CUC  UGACUUG  ACCUGAC  C
AUC-^  --  U  C-  G  UGAC  UCCACGA
      .      90      80      70      60

```

*xtr-miR-147* UUGUGUGGAAUAGCUUCUAU 20

*xtr-pre-miR-147*  
 UCCUACCAGCAAAUUCACAGAGAUUUUUAACAGGAAUUAUGCUUUCUAGAAAUGGUGACAAAGUAGGAAUUGUGUGGAAUAGCUUCUAUGA  
 CUUUCUUUUUCCAUCU

Initial dG = -19.50

```

      10      20      30      40
-----  C  CC  AA  GA  .-ACA|  UC
      UC  UA  AGCA  UCUACA  GAUUUUUA  GGAAA  A
      AG  AU  UCGU  AGGUGU  UUAAGGAU  UCUUU  U
UCUUACCUUUUCCUUUC  U  CU  AA  G-  \  ---^  CG
      .      100      90      80      70

      50
      AGAAA  G
      UG  U
      AC  G
      GAA--  A
      60

```

*xtr-miR-148a* UCAGUGCAUUACAGAACUUUGU 22

*xtr-pre-miR-148a* [MI0004905]  
 AAAUCAAGUUCUGACACUAGACUCUGAAUAUGAUAGCAGUCAGUGCACUACAGAACUUUGUUUUUG

*xtr-miR-148b* UCAGUGCAUCACAGAACUUUGU 22

*xtr-miR-148b* [MI0004845]  
 UGAGGAACAGCGUUUGAGGUGAAGUUCUGUUAUACACUCCGGCUGUGAGUAAGUGGAAGUCAGUGCAUCACAGAACUUUGUCUCGAGGGCU  
 UCACUA

*xtr-miR-150* UCUCCCAACCCUUGUACCAGAG 22

*xtr-pre-miR-150* [MI0004846]  
 AUAAUGGUCUACUCUUCUCCCAACCCUUGUACCAGAGUGAUAAUGGGAACUCUGGUACAGAGGAUGGCUGAAAGGAAGCAGUGGAG  
 AGUCCAGCU

*xtr-miR-153* UUGCAUAGUCACAAAAGUGA 20

*xtr-pre-miR-153-2* [MI0004940]  
 CAGUUGCCAGUGUCAUUUUUGUGACGUUGCAGCUAGUAAUAUGAGCCCAGUUGCAUAGUCACAAAAGUGAUUUAUGGAAACUGU

*xtr-pre-miR-153-1* [MI0004847]  
 CACGGCUGCCCUUGUCAUUUUUGUGAUUUGCAGCUUGUAAUUUUGGUCUCAGUUGCAUAGUCACAAAAGUGAUCAUGGGCAGGUGGG

*xtr-miR-155* UUAUAGCUAAUCGUGAUAGGGG 22

*xtr-pre-miR-155* [MI0004848]  
 UAUUAAUGCUAAUCGUGAUAGGGGUUUUUUAUACAUAUUGACUCCUACAUGUUAGCAUUAUUAUCAUG

*xtr-miR-181a* AACAUUACGCUGUCGGUGAGU 23

*xtr-pre-miR-181a-1* [MI0004865]

GGCUACUUUAGUGAACAUUCAACGCUGUCGGUGAGUUUGGUAUCUAAAGGCCAAACCAUCGAUCGUUGACUGUACAUUACGGCAAUGCCAG

*xtr-pre-miR-181a-2* [MI0004866]  
UUGAGGGCUUCAGAGAACAUUCAACGCUGUCGGUGAGUUUGAGAAAGUGUAAAAUUAUAAACCAUCGGCCGUUGACUGUACCCUGAGGCU

*xtr-miR-181a\** ACCAUCGAUCGUUGACUGUACA 22

*xtr-pre-miR-181a-1\** [MI0004865]  
GGCUACUUUAGUGAACAUUCAACGCUGUCGGUGAGUUUGGUAUCUAAAGGCCAAACCAUCGAUCGUUGACUGUACAUUACGGCAAUGCCAG  
ACCAUCGGCCGUUGACUGUACC 22

*xtr-pre-miR-181a-2\** [MI0004866]  
UUGAGGGCUUCAGAGAACAUUCAACGCUGUCGGUGAGUUUGAGAAAGUGUAAAAUUAUAAACCAUCGGCCGUUGACUGUACCCUGAGGCU

*xtr-pre-miR-181b* AACAUUCAUUGCUGUCGGUGGG 22

*xtr-miR-181b-1* [MI0004849]  
UCACCUAAGAAAAAGAAUUGAAAGGUCACAAUCAACAUUCAUUGCUGUCGGUGGGUUGAGUUUAGAACAACAGCUCGCUGAACGAUGAAUGC  
AACUGUGUCCCCAAUACA

*xtr-pre-miR-181b-2* [MI0004850]  
AAUGGCUGCAUUAACAUUCAUUGCUGUCGGUGGGUUGUAGUUUAGAAAGCUCAUUGAUCAAUGAAUGCAAACUGCAGACCA

*xtr-miR-182* UUUGGCAAUGGUAGAACUCACA 22

*xtr-pre-miR-182* [MI0004851]  
AGUGGCUUCUCUGGCAGUGUUUGGCAAUGGUAGAACUCACACUGGUGAGCUAUGAAGAUCGGUGGUUCUAGACUUGCCAACUAUGGCCU  
GGGAUUAAGCAGCA

*xtr-miR-182\** UGUUUCUAGACUUGCCAACUA 21

*xtr-miR-183* UAUGGCACUGGUAGAAUUCACUG 22

*xtr-pre-miR-183* [MI0004852]  
CAUCCCUCCUGUUCUGUGUAUGGCACUGGUAGAAUUCACUGUGAAAACACAAAUCAGUGAAUUAACAUAGGGCCAUAACAGAGCAGAGAA  
AGAAC

*xtr-miR-189* GUGCCUACUGAACUGAUUACAGU 23

*xtr-pre-miR-24a* [MI0004895]  
CUCUUGUGCCUACUGAACUGAUUACAGUUCUUAUUUCACACACUGGCUCAGUUCAGCAGGAACAGG

*xtr-miR-192* AUGACCUAUGAAUUGACAGCC 21

*xtr-pre-miR-192* [MI0004855]  
GAGUGUACGGGCCUUAUGACCUAUGAAUUGACAGCCAGUGGAUGUGAAGUCUGCCUGUCAAUUCUGUAGGCCACAGGUUCGUCCACCU

*xtr-miR-194* UGUAACAGCAACUCCAUGUGGA 22

*xtr-pre-miR-194-1* [MI0004857]  
UAGUGUGUAUCAGGUGUAACAGCAACUCCAUGUGGACUUGUCCGUUUUCCAGUGGAGAUUGCUGUUACUUUUGAUGGGCAC

*xtr-miR-196a* UAGGUAGUUUCAUGUUGUUGG 22

*xtr-pre-miR-196a* [MI0004942]  
UUUGUAUCCAGCUGAUCUGUGGUUUAGGUAGUUUCAUGUUGUUGGGAUUGCUUUUUCUUAACGCGGCAACAAGAAACUGCCUUAUUACGU  
CAGUUCGUCUUAUC

*xtr-miR-199a* CCCAGUGUUCAGACUACCUGUUC 23

*xtr-pre-miR-199a* [MI0004859]  
AAGAACCUGCUCGUCGCCCCAGUGUUCAGACUACCUGUUCAGGACAAUGCUGUUGUACAGUAGUCGCACAUUGGUUAGACUGGGCAUGG  
GACAG

*xtr-miR-199a\** UACAGUAGUCUGCACAUUGGUU 22

*xtr-miR-200a* UAACACUGUCUGGUAACGAUGU 22

*xtr-miR-200a* [MI0004945]  
GUCCUCUAUGGACAUCUUAACUAGACAGUCGUGGAUUUUAUUUAUCUUUUCUUAACACUGUCUGGUAACGAUGUUUAAAGAGUGAGCCA

*xtr-miR-200b* UAAUACUGCCUGGUAUUGAUGAC 23

*xtr-pre-miR-200b* [MI0004946]

CUGUGGCGCUAUUGCCAUCUUACUGGGCAGCAUUGGAUUUUGUCUAUGUUUUCUAAUACUGCCUGGUAUAUGAUUAUGGCGCCCCACA

*xtr-miR-202* AGGGGCAUAGGGCAUGGAAAA 22

*xtr-pre-miR-202-1* [MI0004860]  
CUCGCGUUGCCUUUUUCCUAUGCAUAUACCUCUUUGAAAAAUGAAUGUAAAGGGGCAUAGGGCAUGGGAAAAUGGCGCAGCUGAGCC

*xtr-pre-miR-202-2* [MI0004861]  
CUCGCGUUGCCUUUUUCCUAUGCAUAUACCUCUUUGAAAAAUAUAAUGUAAAGGGGCAUAGGGCAUGGGAAAAUGGCGCAGCUGAGCC

*xtr-miR-202\** UUUCCUAUGCAUAUACCUCUUU 22

*xtr-miR-204* UUCCCUUUGUCAUCCUAUGCCU 22

*xtr-pre-miR-204-1* [MI0004949]  
GGACUUCGACAUUGUGACCCAUGGGCUUCCCUUUGUCAUCCUAUGCCUGAGAAUGCUGGAGAGGCAGGGACAGCAAAGGGAUGCUCAGAU  
GUUACCUCUUG

*xtr-pre-miR-204-2* [MI0004948]  
AUGUGACCUGUGGGCUUCCCUUUGUCAUCCUAUGCCUGAGAAUAUAUGAAGGGGGCUGGGAAGGCAAAGGGACGUUCAGUUGUCAUCA

*xtr-miR-206* UGGAAUGUAAGGAAGUGUGUGG 22

*xtr-pre-miR-206* [MI0004863]  
UCACAUGCUUCUUUAUAUACCCAUAUGAACUAUUGUUAUGGAAUGUAAGGAAGUGUGUGGCUUC

*xtr-miR-208* AUAAGACGAGCAUAAAGCUUGU 22

*xtr-miR-208* [MI0004951]  
CUUUCAACAGGCAAGCUUUUUGCUUGGAUUAUGUUUUCUGUUGUUGUAUAAGACGAGCAUAAAGCUUGUUUGUUAGAAGGCUGU

*xtr-miR-210* CUGUGCGUGUGACAGCGGCUAA 22

*xtr-pre-miR-210* [MI0004864]  
UCCAGAUGCAGGUCAGCCACUGACUAACGCACAUUGCGCUGCUCCUAAAAUGCCACUGUGCGUGUGACAGCGGCUAACCCAGCAUCUAGGAA

*xtr-miR-214* ACAGCAGGCACAGACAGGCAG 21

*xtr-pre-miR-214* [MI0004867]  
UGGCGUGGAAGGAGUUGUCAUGUGUCUGCCUGUCUACACUUGCUGUGCAGAAUCCUCUACCUGUACAGCAGGCACAGACAGGCAGUCAC  
AUGACAACCCAGCCU

*xtr-miR-215* AUGACCUAUGAAAUGACAGCC 21

*xtr-pre-miR-215* [MI0004868]  
ACUGGUAACCAAGGAGGAUGACCUAUGAAAUGACAGCCACUCCAUACCAACAUGUCUGUCAUUUCUGUAGGCCAAUUAUUCUGAUUGCUUUG  
UUGA

*xtr-miR-217* UACUGCAUCAGGAACUGAUUGGAU 24

*xtr-pre-miR-217* [MI0004870]  
UUGAUGUUGUAGAUACUGCAUCAGGAACUGAUUGGAUCCAGGGAGCAGCCAUCAGUCCUAAUGCACUGCCUUCGGCAUCUA

*xtr-miR-218* UUGUGCUUGAUCAACCAUGU 21

*xtr-pre-miR-218-1* [MI0004871]  
UGGUAACAAGGCGAGAUUUUCUGUUGUGCUUGAUCUAACCAUGUGGUUGUGAGGUAGAGUAAAACAUGGUUCUGUCAAGCACCAUGGAAC  
GUCACGCAGCUU

*xtr-pre-miR-218-2* [MI0004872]  
GGGGUUUUCUUUGUGCUUGAUCUAACCAUGUGGUAGAACAUAUUAUUGAACAUGGUUCUGUCAAGCACCAUGGAAGGCCAC

*xtr-miR-221* AGCUACAUUGUCUGCGGGUUUC 23

*xtr-pre-miR-221* [MI0004953]  
ACCCAGACUUUGGCGUGCACCUGGCAUACAAUGUAGAAAACUGUGUUUGCAAAGCAACAGCUACAUUGUCUGCGGGUUUUAUGCUGAAUG  
GA

*xtr-miR-222* AGCUACAUCUGGCUACUGGGUCUC 24

*xtr-pre-miR-222* [MI0004874]  
CGCUCAGUAAUCAGUGUAGAUCUUAUUCUGUCAGCAGCUACAUCUGGCUACUGGGUCUCUA

*xtr-miR-301* CAGUGCAAUAGUAUUGUCAAGC 23

*xtr-pre-miR-301-2* [MI0004877]  
UUGCUCUGACAGUGUUGCAGCUACUGUGAUCUCAAUGAAGCAGUGCAAUAGUAUUGUCAAGCAUUUCAU

*xtr-pre-miR-301-1* [MI0004876]  
 UGUGCUCUGACUUUAUUGCACUACUGUACUACAGCUAGCAGUGCAAUAGUAUUGUCAAGCAUCUGCAAGCAG

*xtr-miR-320* AAAAGCUGGGUUGAGAGGUGA 21

*xtr-pre-miR-320* [MI0006266]  
 UUUCCCCUGCUAAGCAAUUUUGCCAAUACCUUAGUGCAAUCACACGCUACAGUUGAUUGUAAUAAAGGAAAAGCUGGGUUGAGAGGUGAC  
 AUGAUUUGCUGGAGGUAAUAAAGUUACUG

Initial dG = -31.70

```

      10      20      30      40      50
UUCCCC----- G A - --- AA -----| C GC
      CCU CU AGC AAUUAUG CC UCAACUUAGU GCAAUCA AC U
      GGA GG UCG UUAGUAC GG AGUUGGGUCG UGUUAGU UG A
GUCAUUGAAAUAU - - U AGU AG AAAAGGAAAUAA^ - AC
.      110      100      90      80      70      60

```

*xtr-miR-338* UCCAGCAUCAGUGAUUUUGUUGG 23

*xtr-pre-miR-338-1* [MI0004906]  
 GUCCCCUGGAACAUAUCCUGAUGCUGAAUGAGUGGGACAUACAUGCUCAGCAUCAGUGAUUUUGUUGCAGGCGG

*xtr-pre-miR-338-2* [MI0004954]  
 UGGCAACAUAUCCUGAUGCCGUCUGAGUGUGCGGGAAAGCUCAGCAUCAGUGAUUUUGUUGGUGGU

*xtr-miR-363-5p* CGGGUGGAUCACGAUGCAAUUU 22

*xtr-pre-miR-363* [MI0004955]  
 UGUUGUUCGCGGGUGAUCACGAUGCAAUUUUUUAUUUAGUUUGGUAGGAGAAAAUUGCACGGUAUCCAUCUGUAAACCGC

*xtr-miR-363-3p* AAUUGCACGGUAUCCAUCUGUA 22

*xtr-miR-365* UAAUGCCCCUAAAAUCCUUAU 22

*xtr-pre-miR-365-1* [MI0004879]  
 AGGGACUUUUGGGGGCAGAUUGUUUACACUACCAUAAUGCCCCUAAAAUCCUUAUUGUUCUUG

*xtr-miR-375* UUUGUUCGUUCGGCUCGCGUUA 22

*xtr-pre-miR-375* [MI0006267]  
 CCUGACGCCGAGCCUGACGUGCAAUGCUUUGUGUACAACGUUUUGUUCGUUCGGCUCGCGUUAAGCAGGUG  
 Initial dG = -28.00

```

      10      20      30
-- ----| C U U U U
CCUG ACGC GAGCC GACG GCAA GC UUG \
GGAC UGCG CUCGG UUGC UGUU UG AAC G
GU GAUU^ - C U U C U
.      60      50      40

```

*xtr-miR-383* AGAUCAGAAGGUGAUUGUGGCU 22

*xtr-pre-miR-383* [MI0004881]  
 CUCCUCAGAUCAAGAAGGUGAUUGUGGCUUUUAGUAGAUUUAAAGCAGCCACAGCACUGCCUGGUCAGAAAGAG

*xtr-miR-427-1* GAAAGUGCUUUCUGUUUUGGGCG 23 [MI0006268]

*xtr-pre-miR-427-1*  
 AGCACCCAAAACGGGGCUCUCUCUUGUGUAUGAAUUAUGGUGAGAAAGUGCUUUCUGUUUUGGGCGUUGU  
 Initial dG = -24.80

```

      10      20      30
-- A --| U C UG -| UG
AGC CCCAAAACGG GGC CU UCU U GUA \
UUG GGGUUUUUGUC UCG GA AGA G UAU A
UG C UU U A GU G^ UA
.      60      50      40

```

*xtr-pre-mir-427-1-1*  
 AGCACCCAAAACGGGGCUCUCUCUUGUGCAUGAAUUAUGGUGAGAAAGUGCUUUCUGUUUUGGGCGUUGU  
 Initial dG = -26.40

```

      10      20      30
-- A --| U C UG G A
AGC CCCAAAACGG GGC CU UCU U CAUG \
UUG GGGUUUUUGUC UCG GA AGA G UAU A

```

UG C 60 UU^ U A GU - U  
 . 60 50 40

*xtr-miR-427-2* GAAAGUGCUUUCUGUUUUGGACG 23 [MI0006269]

*xtr-pre-miR-427-2*  
 UAGCACCCAAAUGGGGCUUCUCUUGUGUAUGAAUUAUGGUGAGAAAGUGCUUUCUGUUUUGGACGUUG  
 Initial dG = -17.80

10 20 30  
 AC -- U C UG - | UG  
 UAGC CCAAAAUGG GGC CU UCU U GUA \  
 GUUG GGUUUUGUC UCG GA AGA G UAU A  
 CA 60 UU U A GU G^ UA  
 . 60 50 40

*xtr-miR-427-3* GAAAGUGCUUUCUGCUUUGGCG 23 [MI0006270]

*xtr-pre-miR-427-3*  
 AGCACCCAAAACGGGCUUCUCUUGUGUAUGAAUUAUGGUGAGAAAGUGCUUUCUGCUUUGGCGUUGU  
 Initial dG = -20.60

10 20 30  
 -- A A -- U C UG - | UG  
 AGC CCAAAA CGG GGC CU UCU U GUA \  
 UUG GGGUUU GUC UCG GA AGA G UAU A  
 UG C C UU U A GU G^ UA  
 . 60 50 40

*xtr-miR-428* UAAGUGCUCUCUAGUUCGGUUG 22

*xtr-pre-miR-428* [MI0004963]  
 CACGUCGGCCUAAACUGGAGCCCGUCUCAUUGCAGCUGAGUAAGUGCUCUCUAGUUCGGUUGCUGAGUG

*xtr-miR-429* UAAUACUGUCUGGUAAGCCG 21

*xtr-pre-miR-429* [MI0004956]  
 AAUGUCUUACCAGACAAGGUUAGAUCUAGUUACUCUCGUCUAAUACUGUCUGGUAAGCCGUUGGUCACA

*xtr-miR-451* AAACCGUUACCAUACUGAGUUU 23

*xtr-pre-miR-451* [MI0004958]  
 ACCUGUAGAGUGGCAAUGAAACCGUUACCAUACUGAGUUUAGUAAUGGUAAGGGUUCUGUUGCUGCUCUCCAUCGCC

*xtr-miR-455* UAUGUGCCCUUGGACUACAUCG 22

*xtr-pre-miR-455* [MI0004883]  
 UCCUGGCGUGAGGGUAUGUGCCCUUGGACUACAUCGUGGAAGCCAGCACCAUGCAGUCCAUGGGCAUAUACACUUGCCUCAAGGU

*xtr-miR-499* UUAAGACUUGCAGUGAUUUUAA 23

*xtr-pre-miR-499* [MI0004885]  
 GUGAGAGCGAGGCAGUUAAGACUUGCAGUGAUUUUAGUAAAAUCUUUCAUGAACAUACUUUAAGUCUGUACUGCUUCUCCUC

**Supplemental Table 2. Genomic Organization and Location of *Xenopus tropicalis* MicroRNAs**

| miRNA             | miRNA sequence<br>Pre-miRNA sequence<br>GB accession <sup>a</sup>                                                                                                                       | Length<br>(nt) | Genomic<br>Context <sup>b</sup>           | Expression<br>Validation <sup>c</sup> | Strand(+/-) <sup>d</sup><br>Sense(S)<br>Antisense (AS) | Folded<br>Arm <sup>e</sup> | [HG] host gene location<br>[SL] stem-loop location                                 | Length of<br>stem-loop<br>(nt) |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------|---------------------------------------|--------------------------------------------------------|----------------------------|------------------------------------------------------------------------------------|--------------------------------|
| <i>xtr-let-7a</i> | UGAGGUAGUAGGUUGUAUAGUU<br><br><i>xtr-pre-let-7a</i> [MI0004908]<br>CAGGCUAGGUAAGGUUGU<br>AUAGUUGAGGAUACACCAAAG<br>GAGAUACUGUACAGCCUCCU<br>AUCUUUCCUG                                    | 22             | 1 <sup>st</sup> intron, protein ID: 34313 |                                       | +, S                                                   | 5'                         | [HG] Xentr3/scaffold_285:923047-976303<br>[SL] Xentr3/scaffold_285:948732-948806   | 75                             |
|                   | <i>xtr-pre-let-7a</i> [MI0004908]<br>CAGGCUAGGUAAGGUUGU<br>AUAGUUGAGGAUACACCAAAG<br>GAGAUACUGUACAGCCUCCU<br>AUCUUUCCUG                                                                  |                | 2 <sup>nd</sup> exon, scaffold_285.39     |                                       | +, AS                                                  | 5'                         | [HG] Xentr3/scaffold_285:946491-955501<br>[SL] Xentr3/scaffold_285:948732-948806   | 75                             |
| <i>xtr-let-7b</i> | UGAGGUAGUAGUUUGUGUAGU<br><br><i>xtr-pre-let-7b</i> [MI0004787]<br>CUGGCUGAGGUAGUAGUUUGU<br>GUAGUUAGGGGCGAGUGGUGU<br>UUGCCCAUGGAGUAACUAGAC<br>AAACUACUGCCUUGCCAG                         | 21             | 7 <sup>th</sup> intron, scaffold_11.113   |                                       | +, S                                                   | 5'                         | [HG] Xentr3/scaffold_11:2793739-2873955<br>[SL] Xentr3/scaffold_11:2825666-2825746 | 81                             |
| <i>xtr-let-7c</i> | UGAGGUAGUAGGUUGUAUGGUU<br><br><i>xtr-pre-let-7c</i> [MI0004886]<br>GCAUCCAGGUUGAGGUAGUAGG<br>UUGUAUGGUUUAGAAUAGACACC<br>CUGGGAGUUAACUGUACAACCU<br>UCUAGCUUUCUUGGAGCUCAC<br>UUGAACCAUCGA | 22             | intergenic                                | NB                                    | +                                                      | 5'                         | [SL] Xentr3/scaffold_116:669412-669512                                             | 101                            |
| <i>xtr-let-7e</i> | UGAGGUAGUAGGUUGUUUAGUU<br><br><i>xtr-pre-7e-1</i> [MI0004907]<br>UGGGAUGAGGUAGUAGGUUGU<br>UUAGUUUUGGGCCGCACCCA<br>CCAAUGGGAGAGACUACACAA<br>CCUACUGUCUCUCCUA                             | 22             | 10 <sup>th</sup> intron PTPDC1            | NB                                    | -, S                                                   | 5'                         | [HG] Xentr3/scaffold_902:2494-37068<br>[SL] Xentr3/scaffold_902:14632-14711        | 80                             |
|                   | UGAGGUAGUAGGUUGUUUAGUU<br><br><i>xtr-pre-let-7e-2</i> [MI0004909]<br>GGGUGAGGUAGUAGGUUGUUU<br>AGUUGUGGGUUGCACCCUGAC<br>GUUUGGAUAACUUAACAUCUA<br>CUGUCUUUCCUGA                           | 22             | intergenic                                |                                       | -                                                      | 5'                         | [SL] Xentr3/scaffold_3546:288-364                                                  | 77                             |
| <i>xtr-let-7f</i> | UGAGGUAGUAGAUUGUAUAGUU                                                                                                                                                                  | 22             | 6 <sup>th</sup> intron, UREB1             | W / NB                                | -, S                                                   | 5'                         | [HG] Xentr3/scaffold_750:524235-545023<br>[SL] Xentr3/scaffold_750:538708-538790   | 83                             |

|                   |                                                                                                                                                             |    |                                               |          |       |    |                                                                                   |     |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------------------------------------------|----------|-------|----|-----------------------------------------------------------------------------------|-----|
|                   | <i>xtr-pre-let-7f-2</i> [MI0004887]<br>UGCAGGAUGAGGUAGUAGAUUG<br>UAUAGUUUUGGGGUCACACCCG<br>AUCUGGGAGAUACUACAGU<br>UUACUGUCUUUCCUGCG                         |    | 58 <sup>th</sup> intron, scaffold_750.27      |          | -, S  | 5' | [HG] Xentr3/scaffold_750:516380-605179<br>[SL] Xentr3/scaffold_750:538704-538793  | 121 |
|                   | <i>xtr-pre-let-7f-2</i> [MI0004887]<br>CCCUAGCAGGAUGAGGUAGUAG<br>AUUGUAUAGUUUUGGGGUCAC<br>ACCCGAUCUGGGAGAUACUA<br>UACAGUUUACUGUCUUUCCUG<br>CGGUGU           |    |                                               |          |       |    |                                                                                   |     |
| <i>xtr-let-7g</i> | UGAGGUAGUUGUUUGUACAGU                                                                                                                                       | 21 | 3 <sup>rd</sup> intron, protein ID66026       |          | +, S  | 5' | [HG] Xentr3/scaffold_1059:13727-22612<br>[SL] Xentr3/scaffold_1059:17021-17104    | 84  |
|                   | <i>xtr-pre-let-7g</i> [MI0004888]<br>GGCUGAGGUAGUUGUUUGUAC<br>AGUUUAAGGGUCUGUGACACC<br>ACCCUCUGUUGGAGAUACUG<br>UACAGGCCACUGCCUUGCCUA                        |    | 1 <sup>st</sup> intron, scaffold_1059.2       |          | +, S  | 5' | [HG] Xentr3/scaffold_1059:15620-59600<br>[SL] Xentr3/scaffold_1059:17021-17104    | 84  |
| <i>xtr-let-7i</i> | UGAGGUAGUAGUUUGUCUGU                                                                                                                                        | 21 | 39 <sup>th</sup> intron, KIAA1040             | EST      | -, S  | 5' | [HG] Xentr3/scaffold_4:875408-973131<br>[SL] Xentr3/scaffold_4:878485-878568      | 84  |
|                   | <i>xtr-pre-let-7i</i> [MI0004889]<br>CUGGCUGAGGUAGUUGUUUGU<br>GCUGUUGGUCGGGUUGUGACA<br>CUGCCCGCUGUGGAGAUACU<br>GCGCAAGCUACUGCCUUGCUA                        |    |                                               |          |       |    |                                                                                   |     |
| <i>xtr-miR-1a</i> | UGGAAUGUAAAGAAGUAUGUA                                                                                                                                       | 21 | 14 <sup>th</sup> intron, MIB1,scaffold_549.13 |          | +, AS | 5' | [HG] Xentr3/scaffold_549:303252-370814<br>[SL] Xentr3/scaffold_549: 334885-334974 | 90  |
|                   | <i>xtr-pre-miR-1a-1</i> [MI0004789]<br>UACCUUUUGGAGUACAUACU<br>UCUUUAUGUACCCAUUGAAC<br>AUACAAUGCUAUGGAAUGUAA<br>AGAAGUAUGAUUUUUUAUCAG<br>GUACUG             |    |                                               |          |       |    |                                                                                   |     |
|                   | UGGAAUGUAAAGAAGUAUGUA                                                                                                                                       | 21 | 2 <sup>nd</sup> intron, scaffold_220.20       | EST / NB | +, S  | 5' | [HG] Xentr3/scaffold_220:917767-933955<br>[SL] Xentr3/scaffold_220: 919412-919511 | 100 |
|                   | <i>xtr-pre-miR-1a-2</i> [MI0004788]<br>ACUCGUUGCACCCUAUUUGGG<br>AGACAUACUUCUUUAUAUGUC<br>CAUAUGGAAGUGCCAAUGCUA<br>UGGAAUGUAAAGAAGUAUGUA<br>UCUCCGAUAGGGGUCC |    |                                               |          |       |    |                                                                                   |     |
| <i>xtr-miR-1b</i> | UGGAAUGUAAAGAAGUAUGUA                                                                                                                                       | 21 | 5 <sup>th</sup> intron, scaffold_977.12       |          | -, AS | 5' | [HG] Xentr3/scaffold_977:358000-392884<br>[SL] Xentr3/scaffold_977:369266-369356  | 90  |
|                   | <i>xtr-pre-miR-1b</i> [MI0004890]<br>CCACCUUUAGGGCACAUACUU<br>CUUUUAUUGCCCAUACUGAAU<br>GAAAAUGCUAUGGAAUGUUAA<br>GAAGUAUGUAACCUAAGGGGU<br>UGCCUU             |    |                                               |          |       |    |                                                                                   |     |
| <i>xtr-miR-7</i>  | UGGAAGACUAGUGAUUUUGUUG                                                                                                                                      | 22 | 5 <sup>th</sup> intron, scaffold_377.14       | NB       | -, S  | 5' | Ensembl ESTgene                                                                   |     |

|                   |                                                                                                                                                                            |    |                                         |          |       |    |  |  |                                                                                                       |     |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------------------------------------|----------|-------|----|--|--|-------------------------------------------------------------------------------------------------------|-----|
|                   |                                                                                                                                                                            |    |                                         |          |       |    |  |  | [HG] Xentr3/scaffold_377:609953-619698<br>[SL] Xentr3/scaffold_377:611018-611127                      | 119 |
|                   | <i>xtr-pre-miR-7-1</i> [MI0004790]<br>UGGAUGUUUGUUUAGUUCUGU<br>GUGGAAGACUAGUGAUUUUGU<br>UGUUUUUAGAUAAACAUAUGA<br>CAACAAAUCGCAGUCUGCCAUA<br>UGGCACAGACCAUGCCUCUACA<br>GG    |    | 12 <sup>th</sup> intron, HnrpK          |          | -, S  | 5' |  |  | [HG] Xentr3/scaffold_377:609953-619698<br>X. Laevis, id=97%<br>[SL] Xentr3/scaffold_377:611018-611127 | 110 |
|                   | <i>xtr-pre-miR-7-1</i> [MI0004790]<br>UGGAUGUUUGUUUAGUUCUGU<br>GUGGAAGACUAGUGAUUUUGU<br>UGUUUUUAGAUAAACAUAUGA<br>CAACAAAUCGCAGUCUGCCAUA<br>UGGCACAGACCAUGCCUCUACA<br>GG    |    | 3 <sup>rd</sup> intron, protein ID26824 |          | -, S  | 5' |  |  | [HG] Xentr3/scaffold_130:1792055-1832089<br>[SL] Xentr3/scaffold_130:1807118-1807228                  | 120 |
|                   | <i>xtr-pre-miR-7-2</i> [MI0004792]<br>AGGAGGUGCAGGCUGACUCUU<br>UGUGGAAGACUAGUGAUUUUG<br>UUGUUGUAAGCCUUAUUGCAU<br>GACAACAAGUCACAGUCUGCC<br>UCACAGUGCCCAGCAUAUCA<br>GCAACC   |    | 5 <sup>th</sup> intron, scaffold_130.67 |          | -, S  | 5' |  |  | [HG] Xentr3/scaffold_130:1799336-1832089<br>[SL] Xentr3/scaffold_130:1807118-1807228                  | 111 |
|                   | <i>xtr-pre-miR-7-2</i> [MI0004792]<br>AGGAGGUGCAGGCUGACUCUU<br>UGUGGAAGACUAGUGAUUUUG<br>UUGUUGUAAGCCUUAUUGCAU<br>GACAACAAGUCACAGUCUGCC<br>UCACAGUGCCCAGCAUAUCA<br>GCAACC   |    | 2 <sup>nd</sup> intron, scaffold_433.15 |          | +, AS | 5' |  |  | [HG] Xentr3/scaffold_433:456077-456098<br>[SL] Xentr3/scaffold_433:456054-456166                      | 113 |
|                   | <i>xtr-pre-miR-7-3</i> [MI0004791]<br>UUCACUUUAUUUCUGGGUCGG<br>UUUGGAAGACUAGUGAUUUUG<br>UUGUUUUUAUAAAAGUUUGUC<br>ACAAACAGCAAUCGUAGUCUC<br>CACUCUGCCCCAGGAGCCUGC<br>CCUUCUG |    |                                         |          |       |    |  |  |                                                                                                       |     |
| <i>xtr-miR-9a</i> | UCUUUGGUUAUCUAGCUGUAUGA                                                                                                                                                    | 23 | 1 <sup>st</sup> intron, scaffold_433.1  | EST / NB | +, S  | 5' |  |  | [HG] Xentr3/scaffold_433:3934-40939<br>[SL] Xentr3/scaffold_433:12033-12120                           | 88  |
|                   | <i>xtr-pre-miR-9a-1</i> [MI0004793]<br>GGGGUUGGUUGUUUAUCUUUGGU<br>UAUCUAGCUGUAUGAGUGUUGU<br>CAAUCCUUCUAAAGCUAGAUAA<br>CCGAAAGUAAAAUAACCCCA                                 |    | 2 <sup>nd</sup> intron, scaffold_362.27 |          | -, S  | 5' |  |  | [HG] Xentr3/scaffold_362:674377-684681<br>[SL] Xentr3/scaffold_362:674624-674708                      | 85  |
|                   | <i>xtr-pre-miR-9a-2</i> [MI0004794]<br>GGAAGUGGUUGUUUAUCUUUGG<br>UUAUCUAGCUGUAUGAGUGUA                                                                                     |    |                                         |          |       |    |  |  |                                                                                                       |     |

|                    |                                                                                                                                                        |    |                                                                                                                                    |          |                        |                |                                                                                                                                                                                       |     |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
|                    | UUGGUUUUCAUAAAAGCUAGAU<br>AACCGAAAGUAAAAACUCCUUC                                                                                                       |    |                                                                                                                                    |          |                        |                |                                                                                                                                                                                       |     |
| <i>xtr-miR-9a*</i> | UAAAGCUAGAUAAACCGAAAGU                                                                                                                                 | 21 | 1 <sup>st</sup> intron, scaffold_433.1                                                                                             | EST / NB | +, S                   | 3'             | [HG] Xentr3/scaffold_433:3934-40939<br>[SL] Xentr3/scaffold_433 :12033-12120                                                                                                          | 90  |
|                    | <i>xtr-pre-miR-9a-1</i> [MI0004793]<br>GGGGUUGGUUGUUAUCUUUGGU<br>UAUCUAGCUGUAUGAGUGUUGU<br>CAAUCCUUCAUAAAAGCUAGAUAA<br>CCGAAAGUAAAAUAACCCCA            |    | 2 <sup>nd</sup> intron, scaffold_362.27                                                                                            |          | -, S                   | 3'             | [HG] Xentr3/scaffold_362:674377-684681<br>[SL] Xentr3/scaffold_362:674624-674708                                                                                                      | 85  |
|                    | <i>xtr-pre-miR-9a-2</i> [MI0004794]<br>GGAAGUGGUUGUUAUCUUUGG<br>UUAUCUAGCUGUAUGAGUGUA<br>UUGGUUUUCAUAAAAGCUAGAU<br>AACCGAAAGUAAAAACUCCUUC              |    |                                                                                                                                    |          |                        |                |                                                                                                                                                                                       |     |
| <i>xtr-miR-10a</i> | UACCCUGUAGAUCCGAAUUUGUG                                                                                                                                | 23 | intergenic                                                                                                                         |          | -                      | 5'             | [SL] Xentr3/scaffold_329:545167-545266                                                                                                                                                | 100 |
|                    | <i>xtr-miR-10a</i> [MI0004796]<br>GAUUUGCCUGUCCUCUGUAUGUA<br>CCCUGUAGAUCCGAAUUUGUGUG<br>AGCGCAAUCAUAUCACAAAUUCGU<br>GUCUGGGGGGAUAUGCAGUUGAC<br>ACAAACG |    |                                                                                                                                    |          |                        |                |                                                                                                                                                                                       |     |
| <i>xtr-miR-10b</i> | UACCCUGUAGAACCGAAUUUGU                                                                                                                                 | 22 | intergenic                                                                                                                         | W        | -                      | 5'             | [SL] Xentr3/scaffold_353:653595-653682                                                                                                                                                | 88  |
|                    | <i>xtr-pre-miR-10b</i> [MI0004797]<br>AACGUUGUCUAUAUGUACCCUGU<br>AGAACCGAAUUUGUGUGGUUCGU<br>ACAGUCACAGAUUCGAUUCUAGG<br>GGGAUAUAUGGUCGAUGCA             |    |                                                                                                                                    |          |                        |                |                                                                                                                                                                                       |     |
| <i>xtr-miR-15a</i> | UAGCAGCACAUAAUGGUUUUGUG                                                                                                                                | 22 | 7 <sup>th</sup> intron, protein ID 44767                                                                                           |          | -, S                   | 5'             | [HG] Xentr3/scaffold_643:309964-355704<br>[SL] Xentr3/scaffold_643:310394-310476                                                                                                      | 106 |
|                    | <i>xtr-pre-miR-15a</i> [MI0004799]<br>CCUUGACGUAAAAGUAGCAGCACA<br>UAAUGGUUUUGUGGGUUACACAG<br>AGGUGCAGGCCAUACUGUGCUG<br>CCGCCAAAACACAAGG                |    | 1 <sup>st</sup> intron, RFP2 (Ensembl)<br>1 <sup>ST</sup> intron, ENSXETG00000015683<br>5 <sup>th</sup> intron, ENSXETG00000015688 |          | -, AS<br>-, S<br>-, AS | 3'<br>3'<br>3' | [HG] Ensembl Gene ID<br>ENSXETG00000015691<br>[HG] Gene:ENSXETG00000015683<br>[HG] Gene:ENSXETG00000015688<br>[HG] Ensembl scaffold:JGI3<br>[SL] Xentr3/scaffold_643:310439:310512:-1 | 74  |
| <i>xtr-miR-15b</i> | UAGCAGCACAUCAUGAUUUUGCA                                                                                                                                | 22 | 4 <sup>th</sup> intron, SMC4L1,                                                                                                    | EST / NB | +, S                   | 5'             | [HG] Xentr3/scaffold_150:869041-893974<br>X. Laevis, id=95%<br>[SL] Xentr3/scaffold_150:871405-871510                                                                                 | 106 |
|                    | <i>xtr-pre-miR-15b</i> [MI0004800]<br>UGUCCUAAAGAAGUGUAGCAGCA<br>CAUCAUGAUUUUGCAUGCUGUAUU<br>AUAGAUUCUAAUCAUUUUUGCU<br>GCUUCAUGAUUUUGGGAAA             |    |                                                                                                                                    |          |                        |                |                                                                                                                                                                                       |     |

|                      |                                                                                                                                           |    |                                          |          |      |    |                                                                                                       |     |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------------------|----------|------|----|-------------------------------------------------------------------------------------------------------|-----|
| <i>xtr-miR-16a</i>   | UAGCAGCACGUAUUAUUGGUG                                                                                                                     | 22 | 7 <sup>th</sup> intron, protein ID 44767 | W / NB   | -, S | 5' | [HG] Xentr3/scaffold_643:309964-355704<br>[SL] Xentr3/Scaffold_643:310341-310251                      | 91  |
|                      | <i>xtr-pre-miR-16a</i> [MI0004802]<br>GCCAGCAGTCCTTAGCAGCACGT<br>AAATATTGGTGTTAAATGGTCCC<br>AATATTAACGTGTGCTGCTAGAGTAA<br>GGTTGGCCT       |    |                                          |          |      |    |                                                                                                       |     |
| <i>xtr-miR-16b</i>   | UAGCAGCACGUAUUAUUGGGU                                                                                                                     | 22 | 4 <sup>th</sup> intron, SMC4L1           |          | +, S | 5' | [HG] Xentr3/scaffold_150:869041-893974<br>X. Laevis, id=95%<br>[SL] Xentr3/scaffold_150:871562_871660 | 99  |
|                      | <i>xtr-pre-miR-16b</i> [MI0004910]<br>AAUUGCUCGCAUUAAGCAGCAC<br>GUAAAUUAUUGGGUGAUUAUGAUA<br>UGGAGCCCCAGUAUUAUUGUAC<br>UGC UUAAGUGUGGCAAGG |    |                                          |          |      |    |                                                                                                       |     |
| <i>miR-17-5p</i>     | CAAAGUGCUUACAGUGCAGGUAGU                                                                                                                  | 24 | 1 <sup>st</sup> intron, protein ID49078  | EST / NB | -, S | 5' | [HG] Xentr3/scaffold_894:79911-88429<br>[SL] Xentr3/scaffold_894:85787-85887                          | 101 |
|                      | <i>xtr-pre-miR-17</i> [MI0004803]<br>GTCAAGAGTAATGTCAAAGTGCTT<br>ACAGTGCAGGTAGTGATTAAACAG<br>AACCTACTGCAGTGAAGGCACTTG<br>TAGCATTATATTGAC  |    |                                          |          |      |    |                                                                                                       |     |
| <i>xtr-miR-17-3p</i> | ACUGCAGUGAAGGCACUUGU                                                                                                                      | 20 | 1 <sup>st</sup> intron, protein ID49078  |          | -, S | 3' | [HG] Xentr3/scaffold_894:79911-88429<br>[SL] Xentr3/Scaffold_894:85787-85887                          | 101 |
|                      | <i>xtr-pre-miR-17</i> [MI0004803]<br>GTCAAGAGTAATGTCAAAGTGCTT<br>ACAGTGCAGGTAGTGATTAAACAG<br>AACCTACTGCAGTGAAGGCACTTG<br>TAGCATTATATTGAC  |    |                                          |          |      |    |                                                                                                       |     |
| <i>xtr-miR-18a</i>   | UAAGGUGCAUCUAGUGCAGAUAG                                                                                                                   | 23 | 1 <sup>st</sup> intron, protein ID49078  | W        | -, S | 5' | [HG] Xentr3/scaffold_894:79911-88429<br>[SL] Xentr3/scaffold_894:85678-85748                          | 71  |
|                      | <i>xtr-pre-miR-18a</i> [MI0004893]<br>UGUCCUAAGGUGCAUCUAGUGCA<br>GAUAGUGAAGUAGAUUAGCAUCU<br>ACUGCCCUAAGUGCUCUUCUGG<br>CA                  |    |                                          |          |      |    |                                                                                                       |     |
| <i>miR-18a*</i>      | ACUGCCCUAAGUGCUCUUCU                                                                                                                      | 21 | 1 <sup>st</sup> intron, protein ID49078  | NB       | -, S | 3' | [HG] Xentr3/scaffold_894:79911-88429<br>[SL] Xentr3/scaffold_894:85678-85748                          | 71  |
|                      | <i>xtr-pre-miR-18a</i> [MI0004893]<br>UGUCCUAAGGUGCAUCUAGUGCA<br>GAUAGUGAAGUAGAUUAGCAUCU<br>ACUGCCCUAAGUGCUCUUCUGG<br>CA                  |    |                                          |          |      |    |                                                                                                       |     |
| <i>xtr-miR-18b</i>   | UAAGGUGCAUCUAGUGCAGUUAG                                                                                                                   | 23 | 1 <sup>st</sup> intron, At4g26580        |          | +, S | 5' | [HG] Xentr3/scaffold_212:655826-689693<br>[SL] Xentr3/scaffold_212:656750-656826                      | 77  |
|                      | <i>xtr-pre-miR-18b</i> [MI0004959]<br>CCUUGUGUUAAGGUGCAUCUAGU<br>GCAGUUAGUGACAUAGUGUAGCA<br>UCUACUGCCCUAAAUGCUCUUCU<br>UGGCACAG           |    |                                          |          |      |    |                                                                                                       |     |

|                     |                                                                                                                                                                   |    |                                         |   |      |    |                                                                                   |     |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------------------------------------|---|------|----|-----------------------------------------------------------------------------------|-----|
| <i>xtr-miR-18b*</i> | CUGCCCUAAAUAGCUCCUUUU                                                                                                                                             | 20 | 1 <sup>st</sup> intron, At4g26580       |   | +, S | 3' | [HG] Xentr3/scaffold_212:655826-689693<br>[SL] Xentr3/scaffold_212:656750-656826  | 77  |
|                     | <i>xtr-pre-miR-18b</i> [MI0004959]<br>CCUUGUGUUAAGGUGCAUCUAGU<br>GCAGUUAGUGACAUAGUGUAGCA<br>UCUACUGCCCUAAAUAGCUCCUUU<br>UGGCACAG                                  |    |                                         |   |      |    |                                                                                   |     |
| <i>xtr-miR-19b</i>  | UGUGCAAUCCAUGCAAAACUGA                                                                                                                                            | 23 | 2 <sup>nd</sup> intron, At4g26580       |   | +, S | 3' | [HG] Xentr3/scaffold_212:655826-689693<br>[SL] Xentr3/scaffold_212: 657020-657106 | 87  |
|                     | <i>xtr-pre-miR-19b-1</i> [MI0004960]<br>AUACCUCCUCCUGUCAGUUUAG<br>CUGGUUUUGCAUCAGCUGACUUA<br>UGUGCUGUGCAAAUCCAUGCAA<br>AACUGACUGUGGUGGGAAGG                       |    |                                         |   |      |    |                                                                                   |     |
|                     |                                                                                                                                                                   |    | 1 <sup>st</sup> intron, protein ID49078 |   | -, S | 3' | [HG] Xentr3/scaffold_894:79911-88429<br>[SL] Xentr3/scaffold_894: 85271-85360     | 90  |
|                     | <i>xtr-pre-miR-19b-2</i> [MI0004805]<br>UUGGUGCUUCAUGGUUAGUUUU<br>GCAGGUUUUGCAUCCAGUUGUUC<br>UUCUGGCUCACUGUGCAAAUCC<br>AUGCAAAACUGAUUAUGGCACU<br>UA               |    |                                         |   |      |    |                                                                                   |     |
| <i>xtr-miR-20a</i>  | UAAAGUGCUUAUAGUCAGGUAG                                                                                                                                            | 23 | 1 <sup>st</sup> intron, protein ID49078 | W | -, S | 3' | [HG] Xentr3/scaffold_894:79911-88429<br>[SL] Xentr3/scaffold_894:85397-85478      | 82  |
|                     | <i>xtr-pre-miR-20a</i> [MI0004911]<br>AGUGGUGCUAAAGUGCUUAUAG<br>UGCAGGUAGUUUUUCUGUAUUC<br>UACUGCAUAAUGAGCACUUA<br>GUACUCCUAGCUGCAU                                |    |                                         |   |      |    |                                                                                   |     |
| <i>xtr-miR-20b</i>  | CAAAGUGCUCAUAGUCAGGUAGU                                                                                                                                           | 24 | 2 <sup>nd</sup> exon, At4g26580         |   | +, S | 5' | [HG] Xentr3/scaffold_212:655826-689693<br>[SL] Xentr3/scaffold_212:656904-657008  | 105 |
|                     | <i>xtr-pre-miR-20b</i> [MI0004961]<br>CUGUCAAAAGCAGUCCAAAGUGCU<br>CAUAGUCAGGUAGUUGUAUUGAU<br>GUUCUACUGUAAUUGGGCACUUA<br>CAGUACUGCUAGACAAUUAUCAUC<br>UCCUCGCUU     |    |                                         |   |      |    |                                                                                   |     |
| <i>xtr-miR-20b*</i> | ACUGUAAUAUGGGCACUUAC                                                                                                                                              | 20 | 2 <sup>nd</sup> exon, At4g26580         |   | +, S | 3' | [HG] Xentr3/scaffold_212:655826-689693<br>[SL] Xentr3/scaffold_212:656904-657008  | 105 |
|                     | <i>xtr-pre-miR-20b</i> [MI0004961]<br>CUGUCAAAAGCAGUCCAAAGUGC<br>UCAUAGUCAGGUAGUUGUAUUG<br>AUGUUCUACUGUAAUUGGGCAC<br>UUACAGUACUGCUAGACAAUUAU<br>CAUCUCCUCGCUU     |    |                                         |   |      |    |                                                                                   |     |
| <i>xtr-miR-22</i>   | AAGCUGCCAGUUGAAGAACUGU                                                                                                                                            | 22 | 5 <sup>th</sup> exon, protein ID49078   |   | -, S | 3' | [HG] Xentr3/scaffold_416:610756-631966<br>[SL] Xentr3/scaffold_416:612188-612297  | 110 |
|                     | <i>xtr-pre-miR-22</i> [MI0004912]<br>UAUGUUGUCCUCUGUCUAAA<br>GCUGCCAGUUGAAGAACUGUUG<br>AAAGUGGCUACUGUUCGACUGG<br>GAUUAUUGGUGUUUUGGAGGAA<br>AACAAUUGGAUACAGAGAGGCU |    |                                         |   |      |    |                                                                                   |     |
| <i>xtr-miR-23a</i>  | AUCACAUUGCCAGGGAUUUCC                                                                                                                                             | 21 | 2 <sup>nd</sup> exon, scaffold_829.14,  |   | -, S | 3' | [HG] Xentr3/scaffold_829:481544-492221                                            |     |

|                    |                                                                                                                                                   |    |                                              |         |        |                    |                                                                                                           |    |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|----|----------------------------------------------|---------|--------|--------------------|-----------------------------------------------------------------------------------------------------------|----|
|                    | <i>xtr-pre-miR-23a-1</i> [MI0004894]<br>GGGGGAUCCUGGAGAUGGGAU<br>UUUAAUUUUGGCAGCCAAUAAUUC<br>ACAUUGCCAGGGAUUCCAACU<br>GUCGGCC                     |    | 1 <sup>st</sup> intron, liver stage antigen, |         | - , AS | 3'                 | [SL] Xentr3/scaffold_829:484149-484276                                                                    | 74 |
|                    | <i>xtr-pre-miR-23a-1</i> [MI0004894]<br>GGGGGAUCCUGGAGAUGGGAU<br>UUUAAUUUUGGCAGCCAAUAAUUC<br>ACAUUGCCAGGGAUUCCAACU<br>GUCGGCC                     | 21 | 2 <sup>nd</sup> exon, scaffold_1.278         |         | - , S  | 3'                 | [HG] Xentr3/scaffold_829:479658-486125<br>[SL] Xentr3/scaffold_829:484176-484249                          | 74 |
|                    | <i>xtr-pre-miR-23a-2</i> [MI0004806]<br>GUAGGAUCCUGGCAGAGUGAU<br>UUGGAAUGUAUGGUACAAAU<br>CACAUUGCCAGGGAUUCCAACU<br>CAGU                           |    |                                              |         |        |                    |                                                                                                           | 70 |
| <i>xtr-miR-23b</i> | AUCACAUUGCCAGGGAUUACCA                                                                                                                            | 22 | intergenic                                   |         | +      | 3'                 | [SL] Xentr3/scaffold_528:833663-833752                                                                    | 90 |
|                    | <i>xtr-pre-miR-23b</i> [MI0004896]<br>AUACCGGUGUGGCUGUUUGGG<br>UUCUGGCAUGCUGAUUUUGUG<br>AGUUAAGAUUAAAUACAUUG<br>CCAGGGAUUACCAACAACCAU<br>GUCC     |    |                                              |         |        |                    |                                                                                                           |    |
| <i>xtr-miR-24a</i> | UGGCUCAGUUCAGCAGGAACAG                                                                                                                            | 22 | intergenic                                   | W / EST | +      | 3'<br>(5'-miR-189) | [SL] Xentr3/scaffold_528: 834508-834578                                                                   | 70 |
|                    | <i>xtr-pre-miR-24a</i> [MI0004895]<br>CUUGUGCCUACUGAACUGAUAU<br>CAGUUCUAAUUCACACACUGGC<br>UCAGUUCAGCAGGAACAGGAGU<br>CGGG                          |    |                                              |         |        |                    |                                                                                                           |    |
| <i>xtr-miR-25</i>  | CAUUGCACUUGUCUCGGUCUGA                                                                                                                            | 22 | 11 <sup>th</sup> intron, MCM7,               | NB      | - , S  | 3'                 | [HG] Xentr3/scaffold_814:519699-531337<br>X. laevis, id=92%<br>[SL] Xentr3/scaffold_814:522831-522937     | 82 |
|                    | <i>xtr-pre-miR-25-1</i> [MI0004914]<br>GCUGGUGUUGACAGGCAGAGAC<br>AGGAGCAACUGCUGGUGUGCCU<br>UGGUAGCAUUGCACUUGUCUCG<br>GUCUGACAGUGUCGGC             |    | 5 <sup>th</sup> exon, MCM7                   |         | +, S   | 3'                 | [HG] Xentr3/scaffold_2315:4820-7054<br>[SL] Xentr3/scaffold_2315:6923-7013                                | 91 |
|                    | <i>xtr-pre-miR-25-2</i> [MI0004915]<br>AGCUGGUGUUGACAGGCAGAGA<br>CAGGAGCAACUGCUGGUGUGCC<br>UUGGUAGCAUUGCACUUGUCUC<br>GGUCUGACAGUGUCGGCAAAAC<br>CC |    |                                              |         |        |                    |                                                                                                           |    |
| <i>xtr-miR-26a</i> | UUCAAGUAAUCCAGGAUAGGC                                                                                                                             | 21 | 5 <sup>th</sup> intron, CTDSP2               |         | +, S   | 5'                 | [HG] Xentr3/scaffold_34:1890141-1923673<br>X. laevis, id=97%,<br>[SL] Xentr3/scaffold_34: 1918000-1918084 | 85 |

|                                                                                                                                                      |    |                                                |                                 |  |        |    |                                                                                  |    |
|------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------------------------|---------------------------------|--|--------|----|----------------------------------------------------------------------------------|----|
| <i>xtr-pre-miR-26-1</i> [MI0004807]<br>GGCUGCUGCCUGGUUCAAGUAA<br>UCCAGGAUAGGCUGUUUCCUCA<br>AAGCACGGCCUACUCUUGAUUA<br>CUUGUUUCAGGAAGUAGCU             |    |                                                | 3 <sup>rd</sup> intron, CTDSPL1 |  | +, S   | 5' | [HG] Xenr3/scaffold_31:1530075-1596873<br>[SL] Xenr3/scaffold_31:1582762-1582824 | 63 |
|                                                                                                                                                      |    |                                                |                                 |  |        |    |                                                                                  |    |
| <i>xtr-pre-miR-26-2</i> [MI0004808]<br>GCUCGCUUAAGUAAUCCAGGA<br>UAGGCUGUAAUGUCUCCUGUCA<br>GCCUUUUCUGAUUACUUG                                         |    |                                                |                                 |  |        |    |                                                                                  |    |
| <i>xtr-miR-27a</i> UUCACAGUGGCUAAGUCCGC                                                                                                              | 21 | 1 <sup>st</sup> intron, liver stage antigen    |                                 |  | - , AS | 5' | [HG] Xenr3/scaffold_829:479658-486125<br>[SL] Xenr3/scaffold_829:483574-483649   | 76 |
| <i>xtr-pre-miR-27a</i> [MI0004809]<br>CGGCGGCCAGGGCUUAGCUGU<br>AUUGUGAGCACUGUCACUCUCG<br>CACCUGUUCACAGUGGCUAAGU<br>UCCGCGCCUC                        |    |                                                |                                 |  |        |    |                                                                                  |    |
|                                                                                                                                                      |    | 2 <sup>nd</sup> intron, scaffold_829.14        |                                 |  | - , S  | 5' | [HG] Xenr3/scaffold_829:481544-492221<br>[SL] Xenr3/scaffold_829:483574-483649   | 76 |
| <i>xtr-pre-miR-27a</i> [MI0004809]<br>CGGCGGCCAGGGCUUAGCUGU<br>AUUGUGAGCACUGUCACUCUCG<br>CACCUGUUCACAGUGGCUAAGU<br>UCCGCGCCUC                        |    |                                                |                                 |  |        |    |                                                                                  |    |
| <i>xtr-miR-27b</i> UUCACAGUGGCUAAGUUCUGC                                                                                                             | 21 | intergenic                                     | EST                             |  | -      | 5' | [SL] Xetr3/scaffold_528:833890-833981                                            | 92 |
| <i>xtr-pre-miR-27b</i> [MI0004810]<br>ACCUUUCUACCAAGGUGCAGAG<br>CUUAGCUGAUUGGUGAACAGUG<br>AUUGAUUCCUCUUGUUCACA<br>GUGGCUAAGUUCUGCACCUGAA<br>GAGAGGGC |    |                                                |                                 |  |        |    |                                                                                  |    |
| <i>xtr-miR-27c</i> UUCACAGUGGCUAAGUUCUGC                                                                                                             |    | 24 <sup>th</sup> intron, IPO13, scaffold_1.277 |                                 |  | - , AS | 5' | [HG] Xenr3/scaffold_1:6967403-7006214<br>[SL] Xenr3/scaffold_1:7028276-7028355   | 80 |
| <i>xtr-pre-miR-27c-1</i> [MI0004916]<br>UCUAGAGAGGCAGGACUAGCU<br>GGCUCUGUGAACAGGUCUUGUG<br>UGUCAAGUUCACAGUGGCUAA<br>GUUCCACCCACUG                    |    |                                                |                                 |  |        |    |                                                                                  |    |
|                                                                                                                                                      |    | intergenic                                     | EST                             |  | -      | 5' | [SL] Xenr3/scaffold_1:7020632-7020711                                            | 80 |
| <i>xtr-pre-miR-27c-1</i> [MI0004916]<br>UCUAGAGAGGCAGGACUAGCU<br>GGCUCUGUGAACAGGUCUUGUG<br>GUGUCAAGUUCACAGUGGCU<br>AAGUCCACCCACUG                    |    |                                                |                                 |  |        |    |                                                                                  |    |
| <i>xtr-miR-29a</i> UAGCACCAUUGAAUUCGGUU                                                                                                              | 21 | intergenic                                     |                                 |  | -      | 3' | [SL] Xenr3/scaffold_20:657669-657731                                             | 63 |
| <i>xtr-pre-miR-29a</i> [MI0004897]<br>AUGACUGAUUUCUUCUGGUGU<br>UCAGAGUCUUUGUUUUCUAG<br>CACCAUUGAAAUCGGUUAUA                                          |    |                                                |                                 |  |        |    |                                                                                  |    |

|                       |                                                                                                                                                        |    |                                        |       |    |                                                                                                       |    |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|----|----------------------------------------|-------|----|-------------------------------------------------------------------------------------------------------|----|
| <i>xtr-miR-29b</i>    | UAGCACCAUUUGAAAUCAUGUGUU                                                                                                                               |    | 1 <sup>st</sup> intron, scaffold_393.5 | +, S  | 3' | [HG] Xentr3/scaffold_393:248197-250453<br>[SL] Xentr3/scaffold_393:249789-249879                      | 80 |
|                       | <i>xtr-pre-miR-29b</i> [MI0004812]<br>UCCCGGAAGCUGGUUUUCUUGUG<br>GUGACUUAGAUUUUAUCCAUCGCU<br>GCAUCUAGCACCAUUUGAAAUCA<br>GUGUUCUAGGAG                   |    |                                        |       |    |                                                                                                       |    |
| <i>xtr-miR-29c</i>    | UAGCACCAUUUGAAAUCCGGUUAU                                                                                                                               | 23 | intergenic                             | +, S  | 3' | [SL] Xentr3/scaffold_393:252929-253018                                                                | 90 |
|                       | <i>xtr-pre-miR-29c</i> [MI0004918]<br>UCCCUUACACAGGAUGACCGAUC<br>UCUCUUGGUGUUCAGAGGCUCAG<br>GUCUUCUAGCAGCACCAUUUGAA<br>AUCGGUUUAUAUGUAAGGUGA           |    |                                        |       |    |                                                                                                       |    |
| <i>xtr-miR-29d</i>    | UAGCACCAUAUGAAAUCAUGUGUU                                                                                                                               | 23 | intergenic                             | -     | 3' | [SL] Xentr3/scaffold_20:660321-660400                                                                 | 80 |
|                       | <i>xtr-pre-miR-29d</i> [MI0004811]<br>UUCAGGAGGCUGGUUUAUGUG<br>GUGGUUUAGAUUUACUGCACA<br>UGUCUAGCACCAUAUGAAAUCA<br>UGUCCUUAAGAAG                        |    |                                        |       |    |                                                                                                       |    |
| <i>xtr-miR-30a-5p</i> | UGUAAACAUCUCGACUGGAAG                                                                                                                                  | 22 | 1 <sup>st</sup> exon, scaffold_67.46   | -, AS | 5' | [HG] Xentr3/scaffold_67:1376564-1391725<br>[SL] Xentr3/scaffold_67:1391567-1391637                    | 71 |
|                       | <i>xtr-pre-miR-30a</i> [MI0004813]<br>GCGACUGUAAACAUCUCGACUGG<br>AAGCUGUGAAGCAGUUGAAGGGCU<br>UUCAGUCAGAUUUUGCAGCUGC                                    |    |                                        |       |    |                                                                                                       |    |
| <i>xtr-miR-30a-3p</i> | CUUUCAGUCAGAUUUUGCAGC                                                                                                                                  | 22 | 1 <sup>st</sup> exon scaffold_67.46    | -, AS | 5' | [HG] Xentr3/scaffold_67:1376564-1391725<br>[SL] Xentr3/scaffold_67:1391567-1391637                    | 71 |
|                       | <i>xtr-pre-miR-30a</i> [MI0004813]<br>GCGACUGUAAACAUCUCGACUGG<br>AAGCUGUGAAGCAGUUGAAGGGCU<br>UUCAGUCAGAUUUUGCAGCUGC                                    |    |                                        |       |    |                                                                                                       |    |
| <i>xtr-miR-30b</i>    | UGUAAACAUCUACACUCAGCU                                                                                                                                  | 22 | 2 <sup>nd</sup> intron, scaffold_90.95 | -, AS | 5' | [HG] Xentr3/scaffold_90:1512331-1523359<br>[SL] Xentr3/scaffold_90:1522363-1522460                    | 97 |
|                       | <i>xtr-pre-miR-30b</i> [MI0004814]<br>CAGACGCUCCGUUUAGUCUUAU<br>GUAAACAUCUACACUCAGCUC<br>GUAUGUAUAACCUAGCUGGGUG<br>GGGGGUGUUUGCCUCGACUGA<br>CUGGAAACUC |    |                                        |       |    |                                                                                                       |    |
| <i>xtr-miR-30c</i>    | UGUAAACAUCUACACUCUCAGC                                                                                                                                 | 23 | 5 <sup>th</sup> intron, NF-YC-γ        | -, S  | 5' | [HG] Xentr3/scaffold_399:507725-548131<br>X. laevis, id=52%<br>[SL] Xentr3/scaffold_399:513153-513241 | 89 |
|                       | <i>xtr-pre-miR-30c-1</i> [MI0004815]<br>ACCAUGCAGCAGUUAUGUAAAC<br>AUCCUACACUCUCAGCUGUGAAC<br>AUAAGGUGGCUGGGAGAAGGGU<br>GUUUACUCCCCUGCCAUGGA            |    |                                        |       |    |                                                                                                       |    |

|                     |                                                                                                                                                       |    |                                         |      |    |                                                                                                                                                 |    |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------------------------------------|------|----|-------------------------------------------------------------------------------------------------------------------------------------------------|----|
|                     | <i>xtr-pre-miR-30c-2</i> [MI0004919]<br>UCUGAGAGACAGAUACUGUAAA<br>CAUCCUACACUCUCAGCUGUG<br>GAAAUACAAAGCUGGGGAAGG<br>CUGUUUACUCUCUGCCUCUA<br>ACAGCAGCU |    | intergenic                              | +    | 5' | [SL] Xentr3/scaffold_67:1398961-1399056                                                                                                         | 96 |
| <i>xtr-miR-30d</i>  | UGUAAACAUCCTCGACUGGAAG                                                                                                                                | 22 | intergenic                              | -    | 5' | [SL] Xentr3/scaffold_90:1526615-1526695                                                                                                         | 81 |
|                     | <i>xtr-pre-miR-30d</i> [MI0004898]<br>AGUUUGUCGCGUGAAACAUCCT<br>CGACUGGAAGCUGUGAGGCUGC<br>AUUUGAGCUUUCAGUCUGGUGU<br>UUGCUGCUACCGGCU                   |    |                                         |      |    |                                                                                                                                                 |    |
| <i>xtr-miR-30d*</i> | CUUUCAGUCUGGUGUUUGCUGC                                                                                                                                | 22 | intergenic                              | -    | 3' | [SL] Xentr3/scaffold_90: 1526617-1526691                                                                                                        | 75 |
|                     | <i>xtr-pre-miR-30d</i> [MI0004898]<br>UGUCGCGUGAAACAUCCTCGAC<br>UGGAAGCUGUGAGGCUGCAUUU<br>GAGCUUUCAGUCUGGUGUUUGC<br>UGCUACCGG                         |    |                                         |      |    |                                                                                                                                                 |    |
| <i>xtr-miR-30e</i>  | UGUAAACAUCUUGACUGGA                                                                                                                                   | 20 | 5 <sup>th</sup> intron, NF-YC-γ         | -, S | 5' | [HG] Xentr3/scaffold_399:507725-548131<br>X. laevis, id=52%<br>[HG] Xentr3/scaffold_399:409191-549703<br>[SL] Xentr3/scaffold_399:514156-514245 | 90 |
|                     | <i>xtr-pre-miR-30e</i> [MI0004920]<br>GGGCAGUUACAGCCUCUGUAA<br>ACAUCUUGACUGGAAGCUGU<br>GAAAUAAUGAUAGUAGCUUUC<br>AGUCGGAUGUUUACAGCUGCU<br>AGCUGC       |    |                                         |      |    |                                                                                                                                                 |    |
| <i>xtr-miR-30e*</i> | CUUUCAGUCGGAUGUUUACAGC                                                                                                                                | 22 | 1 <sup>st</sup> intron, KQT-like 4      | -, S | 3' | [HG] Xentr3/scaffold_399:409191-549703<br>[SL] Xentr3/scaffold_399:514156-514236                                                                | 81 |
|                     | <i>xtr-pre-miR-30e</i> [MI0004920]<br>CAGCCUCUGUAAACAUCUUGA<br>CUGGAAGCUGUGAAAUAAUGAU<br>AGUAGCUUUCAGUCGGAUGUUU<br>ACAGCUGCUAGCUGC                    |    |                                         |      |    |                                                                                                                                                 |    |
| <i>xtr-miR-30e*</i> | CUUUCAGUCGGAUGUUUACAGC                                                                                                                                | 22 | 5 <sup>th</sup> intron, NF-YC-γ         | -, S | 3' | [HG] Xentr3/scaffold_399:507725-548131<br>X. laevis, id=52%<br>[HG] Xentr3/scaffold_399:409191-549703<br>[SL] Xentr3/scaffold_399:514156-514245 | 65 |
|                     | <i>xtr-pre-miR-30e</i> [MI0004920]<br>CAGCCUCUGUAAACAUCUUGA<br>CUGGAAGCUGUGAAAUAAUGAU<br>AGUAGCUUUCAGUCGGAUGUUU<br>ACAGCUGCUAGCUGC                    |    |                                         |      |    |                                                                                                                                                 |    |
| <i>xtr-miR-31</i>   | GGCAAGAUGUUGGCAUAGCUG                                                                                                                                 | 21 | 3 <sup>rd</sup> intron, scaffold_155.90 | +, S | 5' | Ensembl: scaffold:JGI3:<br>[HG] Xentr3/scaffold_155:1938964-2012013<br>[SL] Xentr3/scaffold_155:1974796-1974897:1                               | 85 |
|                     | <i>xtr-pre-miR-31</i> [MI0004921]                                                                                                                     |    |                                         |      |    |                                                                                                                                                 |    |

|                    |                                                                                                                                                                            |    |                                                            |     |       |    |                                                                                     |     |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------------------------------------|-----|-------|----|-------------------------------------------------------------------------------------|-----|
|                    | AGUUCUAGAGAGGAGGCAAGA<br>UGUUGGCAUAGCUGUUGCAUC<br>UGAAAACAGUUGGCCAACCU<br>AUUGCCAUCUUUCUUGUCUAC<br>C                                                                       |    |                                                            |     |       |    |                                                                                     |     |
| <i>xtr-miR-31b</i> | GGCAAGAUGCUGGCA-AGCU                                                                                                                                                       | 20 | 3 <sup>rd</sup> intron, protein ID 40778                   |     | +, S  | 5' | [HG] Xentr3/scaffold_477:1249-27043<br>[SL] Xentr3/scaffold_477: 26020-26100        | 81  |
|                    | <i>xtr-pre-miR-31b</i> [MI0006264]<br>GGUUGCUCUCUGUAACCACUA<br>GGCAAGAUGCUGGCAAGCUAA<br>UUACCUUUUACCUUGGCUUUCC<br>AUCUCAGUCUAGCAGCAUUAU<br>UGGUCAGCCAAUUUGCACUUAU<br>AGAAA |    | 1 <sup>st</sup> intron, scaffold_477.2                     |     | +, S  | 5' | [HG] Xentr3/scaffold_477:24007-40255<br>[SL] Xentr3/scaffold_477: 26020-26100       | 81  |
|                    | <i>xtr-pre-miR-31b</i> [MI0006264]<br>GGUUGCUCUCUGUAACCACUA<br>GGCAAGAUGCUGGCAAGCUAA<br>UUACCUUUUACCUUGGCUUUCC<br>AUCUCAGUCUAGCAGCAUUAU<br>UGGUCAGCCAAUUUGCACUUAU<br>AGAAA |    |                                                            |     |       |    |                                                                                     |     |
| <i>xtr-miR-33a</i> | GUGCAUUGUAGUUGCAUUG                                                                                                                                                        | 19 | 14 <sup>th</sup> intron, SREBF1                            |     | +, S  | 5' | [HG] Xentr3/scaffold_142:518695-531672<br>[SL] Xentr3/scaffold_142: 529088-529157   | 70  |
|                    | <i>xtr-pre-miR-33a</i> [MI0004922]<br>CUGUGGUGCAUUGUAGUUGCA<br>UUGCAUGUGAUUACAGCGGUG<br>UGCAAUGUGCCUGCAGUGCAA<br>CACAGAGGUAGUGCCGG                                         |    |                                                            |     |       |    |                                                                                     |     |
| <i>xtr-miR-34a</i> | UGGCAGUGUCUUAGCUGGUUGUU                                                                                                                                                    | 23 | 5 <sup>th</sup> intron, scaffold_464.21                    | EST | -, AS | 5' | [HG] Xentr3/scaffold_464:982380-1037376<br>[SL] Xentr3/scaffold_464:1002348-1002452 | 105 |
|                    | <i>xtr-pre-miR-34a</i> [MI0004816]<br>GCUGUCUGUGAGUGUUUCUUUGG<br>CAGUGUCUUAGCUGGUUGUUGUG<br>GCACGUUAUAGAAGUAGCAAUCAG<br>CAAAUAUACUGCCCUAGAAGUUCU<br>GCACAUUGUGUGGCC        |    |                                                            |     |       |    |                                                                                     |     |
| <i>xtr-miR-34b</i> | AGGCAGUGUAGUUAGCUGAUUGU                                                                                                                                                    | 23 | 2 <sup>nd</sup> intron, scaffold_1083.2                    |     | -, AS | 5' | [HG] Xentr3/scaffold_1083:57806-187789<br>[SL] Xentr3/ scaffold_1083: 172336-172405 | 70  |
|                    | <i>xtr-pre-miR-34b-1</i> [MI0004925]<br>UGUUGGGUUUUCAGGCAGUGUAG<br>UUAGCUGAUUGUGUUAACUAAGA<br>CUUGCAAUCACUAGCUAAACUACC<br>AGCAAAACUAA                                      |    | 1 <sup>st</sup> intron, protein ID: 18657, scaffold_18.148 |     | +, S  | 5' | [HG] Xentr3/scaffold_18:3288080-3329719<br>[SL] Xentr3/scaffold_18:3294037-3294119  |     |
|                    | <i>xtr-pre-miR-34b-2</i> [MI0004817]<br>UGUUCGGUUUUCAGGCAGUGUAG<br>UUAGCUGAUUGUGUUAACUAAGA<br>UUGCAAUCACUAGCUAAACUACCA<br>UAAAAACUAA                                       |    | 1 <sup>st</sup> intron, protein ID: 18657, scaffold_18.148 |     | +, S  | 5' | [HG] Xentr3/scaffold_18:3288080-3329719<br>[SL] Xentr3/scaffold_18:3288131-3288231  | 100 |

|                    |                                                                                                                                                            |    |                                         |          |       |    |                                                                                                       |    |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------------------------------------|----------|-------|----|-------------------------------------------------------------------------------------------------------|----|
|                    | <i>xtr-pre-miR-34b-3</i> [MI0004924]<br>CCGACUUAUGUUGGGUUUUCAGG<br>CAGUGUAGUAGCUGAUUGUGUU<br>AACAUAGACUUGCAAUCACUAGC<br>UAAACUACCAGCAAAACUAAACAU<br>GAAAGU |    | 3 <sup>rd</sup> intron, scaffold_1083.2 |          | +, S  | 5' | [HG] Xentr3/scaffold_1083:57806-187789<br>[SL] Xentr3/scaffold_1083:179949-180035                     | 87 |
|                    | <i>xtr-pre-miR-34b-4</i> [MI0004818]<br>UGUUCGGUUUUCAGGCAGUGUAG<br>UUAGCUGAUUGUGUUUAUCAA<br>UUUGCAAUCACUAGCUAAACUAC<br>CAUAAAAACUUAACAUAA                  |    |                                         |          |       |    |                                                                                                       |    |
| <i>xtr-miR-92</i>  | UAUUGCACUUGUCCCGGCCUG                                                                                                                                      | 21 | 1 <sup>st</sup> intron, protein ID49078 | W / EST  | +, S  | 3' | [HG] Xentr3/scaffold_894:79911-88429<br>[SL] Xentr3/scaffold_894:85154-85234                          | 78 |
|                    | <i>xtr-pre-miR-92a-1</i> [MI0004926]<br>CUUUCUGUAUAGGUUGGGAUUGG<br>UUGCAAUGCUGUACUAAUUAUGU<br>AGUAAUUGCACUUGUCCCGGCCUG<br>UUUAGGAUG                        |    | 2 <sup>nd</sup> intron, At4g26580       |          | +, S  | 3' | [HG] Xentr3/scaffold_212:655826-689693<br>[SL] Xentr3/scaffold_212:657149-657229                      | 73 |
|                    | <i>xtr-pre-miR-92a-2</i> [MI0004819]<br>UCCUCUGUGGGUGGGGAUUUGU<br>UGCACUACUGUAUGUAUGAAAAG<br>UAUUGCACUUGUCCCGGCCUGU<br>GGGUGA                              |    | 3 <sup>rd</sup> intron, scaffold_212.20 |          | +, AS | 3' | [HG] Xentr3/scaffold_212:650301-691954<br>[SL] Xentr3/scaffold_212:657149-657229                      | 73 |
|                    | <i>xtr-pre-miR-92a-2</i> [MI0004819]<br>UCCUCUGUGGGUGGGGAUUUGU<br>UGCACUACUGUAUGUAUGAAAAG<br>UAUUGCACUUGUCCCGGCCUGU<br>GGGUGA                              |    |                                         |          |       |    |                                                                                                       |    |
| <i>xtr-miR-93a</i> | AAAGUGCUGUUCGUGCAGGUAG                                                                                                                                     | 22 | 4 <sup>th</sup> intron, MCM7            | EST / NB | +, S  | 5' | [HG] Xentr3/scaffold_2315:4820-7054<br>[SL] Xentr3/scaffold_2315:6803-6873                            | 63 |
|                    | <i>xtr-pre-miR-93a</i> [MI0004900]<br>AAGUGCUGUUCGUGCAGGUAGC<br>UUAUAACAGACCUACUGCAUG<br>GGCGGCACUUCCCAAGCCC                                               |    |                                         |          |       |    |                                                                                                       |    |
| <i>xtr-miR-93b</i> | AAGTGCTGTTCTGTCAGGTAG                                                                                                                                      | 22 | 9 <sup>th</sup> intron, MCM7            |          | -, S  | 5' | [HG] Xentr3/scaffold_814:519699-531337<br>X. Laevis, id=92%<br>[SL] Xentr3/scaffold_814:523079-523148 | 64 |
|                    | <i>xtr-pre-miR-93b</i> [MI0004901]<br>CUUCAAGUGCUGUUCGUGCAGG<br>UAGCUUAUAACAGACCUACUGC<br>AUGGGCGGCACUUCCCAAG                                              |    |                                         |          |       |    |                                                                                                       |    |
| <i>xtr-miR-96</i>  | UUUGGCACUAGCACAUUUUUGC                                                                                                                                     | 22 | 4 <sup>th</sup> intron, protein ID18977 |          | +, S  | 5' | [HG] Xentr3/scaffold_20:2817827-2867010<br>[SL] Xentr3/scaffold_20:2864285-2864359                    | 75 |
|                    | <i>xtr-pre-miR-96</i> [MI0004902]<br>GGCCUGCUUUGGCACUAGCACA<br>UUUUUGCUUUUGUACAUUACU<br>UUGAGCAAUAUGUGUAGUGCC                                              |    |                                         |          |       |    |                                                                                                       |    |

|                     |                                                                                                                                                                 |    |                                          |    |       |    |                                                                                     |     |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------------------|----|-------|----|-------------------------------------------------------------------------------------|-----|
|                     | AAUAUAGGA                                                                                                                                                       |    | 4 <sup>th</sup> intron, scaffold_20.99   |    | +, S  | 5' | [HG] Xentr3/scaffold_20:2843682-2870070<br>[SL] Xentr3/scaffold_20:2864285-2864359  | 75  |
|                     | <i>xtr-pre-miR-96</i> [MI0004902]<br>GGCCUGCUUUUGGCACUAGCACA<br>UUUUUGCUUUUGUACAUUACU<br>UUGAGCAUUUAUGUGUAGUGCC<br>AAUAUAGGA                                    |    |                                          |    |       |    |                                                                                     |     |
| <i>xtr-miR-98</i>   | UGAGGUAGUAAGUUGUAUUGUU                                                                                                                                          | 22 | 6 <sup>th</sup> intron, URE-B1           | NB | +, S  | 5' | [HG] Xentr3/scaffold_750:524235-545023<br>[SL] Xentr3/scaffold_750:538441-538548    | 108 |
|                     | <i>xtr-pre-miR-98</i> [MI0004820]<br>UCUGCCCUCUUCAGGAUGAGGU<br>AGUAAGUUGUAUUUGUUGGGG<br>GUUUUUAUUUCCCCAAAUUAGG<br>AGAUAAUAUACAGCUUACUGC<br>CUUCCCUGCAGCAUGGUAAU |    |                                          |    |       |    |                                                                                     |     |
|                     |                                                                                                                                                                 |    | 56 <sup>th</sup> intron, scaffold_750.27 |    | +, S  | 5' | [HG] Xentr3/scaffold_750:516380-605179<br>[SL] Xentr3/scaffold_750:538441-538548    | 108 |
|                     | <i>xtr-pre-miR-98</i> [MI0004820]<br>UCUGCCCUCUUCAGGAUGAGGU<br>AGUAAGUUGUAUUUGUUGGGG<br>GUUUUUAUUUCCCCAAAUUAGG<br>AGAUAAUAUACAGCUUACUGC<br>CUUCCCUGCAGCAUGGUAAU |    |                                          |    |       |    |                                                                                     |     |
| <i>xtr-miR-99</i>   | AACCCGUAGAUCCGAUCUUGUG                                                                                                                                          | 22 | 1 <sup>st</sup> exon, scaffold_116.18    | NB | +, AS | 5' | [HG] Xentr3/scaffold_116:647462-668793<br>[SL] Xentr3/scaffold_116:668715-668804    | 90  |
|                     | <i>xtr-pre-miR-99</i> [MI0004821]<br>UACCUACUAACAUAACCCGUA<br>GAUCCGAUCUUGUGGUGAAUU<br>CCUUUGCUCAAGCUCGUUUCU<br>AUGGGUCUGUGUCAUUAUGGA<br>UCCGG                  |    |                                          |    |       |    |                                                                                     |     |
| <i>xtr-miR-100</i>  | AACCCGUAGAUCCGAACUUGUG                                                                                                                                          | 22 | 3 <sup>rd</sup> exon, scaffold_285.39    |    | +, AS | 5' | [HG] Xentr3/scaffold_285:946491-955501<br>[SL] Xentr3/scaffold_285:946794-946869    | 76  |
|                     | <i>xtr-pre-miR-100</i> [MI0004927]<br>GUUGCCAUAAACCCGUAGAUC<br>GAACUUGUGCUUGUGCCCUCU<br>CACAAGCUCGAGUGUGCGGGU<br>CUGUGUCGGCUU                                   |    |                                          |    |       |    |                                                                                     |     |
|                     |                                                                                                                                                                 |    | 1 <sup>st</sup> intron, XP_085824        |    | +, S  | 5' | [HG] Xentr3/scaffold_285:923047-976303<br>[SL] Xentr3/scaffold_285:946794-946869    | 76  |
|                     | <i>xtr-pre-miR-100</i> [MI0004927]<br>GUUGCCAUAAACCCGUAGAUC<br>GAACUUGUGCUUGUGCCCUCU<br>CACAAGCUCGAGUGUGCGGGU<br>CUGUGUCGGCUU                                   |    |                                          |    |       |    |                                                                                     |     |
| <i>xtr-miR-101a</i> | UACAGUACUGUGAUACUGAAG                                                                                                                                           | 22 | 9 <sup>th</sup> intron, RCL1             |    | -, S  | 3' | [HG] Xentr3/scaffold_52:2211249-2232669<br>[SL] Xentr3/scaffold_52: 2213451-2213539 | 89  |
|                     | <i>xtr-pre-miR-101a-1</i> [MI0004928]<br>GCGUGAACUGUCCUUUUUCGGUU<br>AUCAUGGUACCGUGUGUGUAU<br>AUGAAAGGUACAGUACUGUAUA                                             |    |                                          |    |       |    |                                                                                     |     |

|                    |                                                                                                                                                |    |                                                                         |              |          |                                                                                                                            |    |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------|--------------|----------|----------------------------------------------------------------------------------------------------------------------------|----|
|                    | CUGAAGAAUGGUGGUGCCA                                                                                                                            |    | intergenic                                                              | +            | 3'       | [SL] Xentr3/scaffold_1:1615005-1615081                                                                                     | 77 |
|                    | <i>xtr-pre-miR-101a-2</i> [MI0004903]<br>UGCCCUGGCUCAGUUAUCACAGU<br>GCUGAUGCUGUCUACUCUAAAGG<br>UACAGUACUGUGUAACUGAAGG<br>AUGGUAGC              |    |                                                                         |              |          |                                                                                                                            |    |
| <i>xtr-miR-103</i> | AGCAGCAUUGUACAGGGCUAUGA                                                                                                                        | 23 | 5 <sup>th</sup> intron, PANK3<br>6 <sup>th</sup> intron, scaffold_350.8 | -, S<br>-, S | 3'<br>3' | [HG] Xentr3/scaffold_350:198018-208841<br>[HG] Xentr3/scaffold_350:182316-211576<br>[SL] Xentr3/scaffold_350:199631-199710 | 80 |
|                    | <i>xtr-pre-miR-103-1</i> [MI0004904]<br>CAUUUCCUUUGGCUUCUUUACAG<br>UGCUGCCUUGUUGCAUUGGAUC<br>AAGCAGCAUUGUACAGGGCUAUG<br>AAGGAUCUGAG            |    | 5 <sup>th</sup> intron, protein ID:62848                                | -, S         | 3'       | [HG] Xentr3/scaffold_350:198018-208841<br>[SL] Xentr3/scaffold_350:199630-199719                                           | 90 |
|                    | <i>xtr-pre-miR-103-1</i> [MI0004904]<br>UAAUAUUCUCAUUUCCUUUGGCU<br>UCUUUACAGUGCUGCCUUGUUG<br>CAUAUGGAUCAAGCAGCAUUGUA<br>CAGGGCUAUGAAGGAUCUGAGA |    | 2 <sup>nd</sup> intron, protein ID 62908                                | +,S          | 3'       | [HG] Xentr3/scaffold_366:1011682-1014770<br>[SL] Xentr3/scaffold_366:1012925-1013004                                       | 80 |
|                    | <i>xtr-pre-miR-103-2</i> [MI0004929]<br>UGUGCUUUCAGCUUCUUUACAGU<br>GCUGCCUUGUAGCAUCUAUGUCA<br>AGCAGCAUUGUACAGGGCUAUGA<br>AGGAGCAGAGA           |    | 6 <sup>th</sup> intron, scaffold_366.24, PANK1                          | +, S         | 3'       | [HG] Xentr3/scaffold_366:1006601-1020132<br>[SL] Xentr3/scaffold_366:1012922-1013001                                       | 80 |
|                    | <i>xtr-pre-miR-103-2</i> [MI0004929]<br>CUCUGUGCUUUCAGCUUCUUUA<br>CAGUGCUGCCUUGUAGCAUCUA<br>UGUCAAGCAGCAUUGUACAGGG<br>CUAUGAAGGAGCAG           |    |                                                                         |              |          |                                                                                                                            |    |
| <i>xtr-miR-106</i> | CAAAAGUGCUUAUAGUGCAGGUAG                                                                                                                       | 23 | 1 <sup>st</sup> intron, At4g26580                                       | +, S         | 3'       | [HG] Xentr3/scaffold_212:655826-689693<br>[SL] Xentr3/scaffold_212: 656622-656701                                          | 80 |
|                    | <i>xtr-pre-miR-106</i> [MI0004822]<br>UGACCUGCCUGCGUUGUGCAAAA<br>GUGCUUAUAGUGCAGGUAGAAUU<br>UAAACCUACUGCACCAUAAGCAC<br>UUCCUGCAUCA             |    |                                                                         |              |          |                                                                                                                            |    |
| <i>xtr-miR-107</i> | AGCAGCAUUGUACAGGGCUAUCA                                                                                                                        | 23 | 5 <sup>th</sup> intron, PANK1                                           | +, S         | 3'       | [HG] Xentr3/scaffold_194:719908-740710<br>[SL] Xentr3/scaffold_194:737186-737258                                           | 73 |
|                    | <i>xtr-pre-miR-107</i> [MI0004823]<br>CUGCUUUCAGCUUCUUUACAGUG<br>UUGCCUUGUGGCAUGGAGUUCAA<br>GCAGCAUUGUACAGGGCUAUCAA<br>AGCA                    |    | 8 <sup>th</sup> intron, scaffold_194.28                                 | +, S         | 3'       | [HG] Xentr3/scaffold_194:715160-749785<br>[SL] Xentr3/scaffold_194:737186-737258                                           | 73 |
|                    | <i>xtr-pre-miR-107</i> [MI0004823]                                                                                                             |    |                                                                         |              |          |                                                                                                                            |    |

|                     |                                                                                                                                              |    |                                                 |              |       |    |                                                                                    |    |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----|-------------------------------------------------|--------------|-------|----|------------------------------------------------------------------------------------|----|
|                     | CUGCUUUCAGCUUCUUUACAGUG<br>UUGCCUUGUGGCAUGGAGUUCAA<br>GCAGCAUUGUACAGGGCUAUCAA<br>AGCA                                                        |    |                                                 |              |       |    |                                                                                    |    |
| <i>xtr-miR-122</i>  | UGGAGUGUGACAAUGGUGUUUGU                                                                                                                      | 23 | intergenic                                      | EST / NB     | +     | 5' | [SL] Xentr3/scaffold_206:287741-287828                                             | 88 |
|                     | <i>xtr-pre-miR-122</i> [MI0004824]<br>GACUGCUGGAGCUAUGGAGUGUG<br>ACAAUGGUGUUUGUGUCAGAGCU<br>AUCAAACGCCAUUAUCACACUAAU<br>GAGCUACUGCAGGCACAC   |    |                                                 |              |       |    |                                                                                    |    |
| <i>xtr-miR-124</i>  | UAAGGCACGCGGUGAAUGCCA                                                                                                                        | 21 | intergenic                                      | W / EST / NB | +     | 3' | [SL] Xentr3/scaffold_8:5030478-5030564                                             | 87 |
|                     | <i>xtr-pre-miR-124</i> [MI0004930]<br>AAGUCUCUGACUCUCCGUGUUC<br>ACAGCGGACCUUGAUUUUAAUGU<br>CAUACAAUUAAGGCACGCGGUG<br>AAUGCCAAGAGUGGAGCCUAC   |    |                                                 |              |       |    |                                                                                    |    |
| <i>xtr-miR-125a</i> | UCCUGAGACCCUUAACUGUG                                                                                                                         | 23 | 3 <sup>rd</sup> intron, hypothetical, XP-085824 |              | +, S  | 5' | [HG] Xentr3/scaffold_285:923047-976303<br>[SL] Xentr3/scaffold_285:961678-961739   | 62 |
|                     | <i>xtr-pre-miR-125a</i> [MI0004931]<br>GUCCUGAGACCCUUAACUGUG<br>AGGAAGACAUUGUCACAGGUGA<br>GGUUCUGAGGAGCUGG                                   |    |                                                 |              |       |    |                                                                                    |    |
| <i>xtr-miR-125b</i> | UCCUGAGACCCUUAACUGUGA                                                                                                                        | 22 | 1 <sup>st</sup> intron, scaffold_75.102         | EST          | -, AS | 5' | [HG] Xentr3/scaffold_75:2620752-2641557<br>[SL] Xentr3/scaffold_75:2626641-2626728 | 88 |
|                     | <i>xtr-pre-miR-125b-1</i> [MI0004825]<br>UGCACCCUCUCUCAAUCCUGAGA<br>CCCUAACUUGUGAUGUUUAGCUU<br>UAAAAUCCACGGGUUAGGCUCU<br>UGGGAGCUGUGAGUUUGUC |    | 6 <sup>th</sup> intron, scaffold_116.22         |              | +, AS | 5' | [HG] Xentr3/scaffold_116:749178-805781<br>[SL] Xentr3/scaffold_116:749842-749926   | 85 |
|                     | <i>xtr-pre-miR-125b-2</i> [MI0004826]<br>GACUUUCCUAGUCCUGAGACCC<br>UAACUUGUGAGGAUUUUUAGCAA<br>CAAUCACAAGUUAGGCUCUUGGGA<br>CCUAGGCGGAGGG      |    |                                                 |              |       |    |                                                                                    |    |
| <i>xtr-miR-126*</i> | CAUUAUUACUUUUGGUACGCG                                                                                                                        | 21 | 5 <sup>th</sup> intron, Loc245963-prov protein  |              | +, S  | 3' | [HG] Xentr3/scaffold_95:753629-766175<br>[SL] Xentr3/scaffold_95:762685-762753     | 69 |
|                     | <i>xtr-pre-miR-126</i> [MI0004827]<br>GGCUGUGCAUUAUUACUUUUGGU<br>ACGCGCUGUGUCACAUCAACUC<br>GUACCGUGAGUAAUAAUGCGCAG                           |    |                                                 |              |       |    |                                                                                    |    |
| <i>xtr-miR-126</i>  | UCGUACCGUGAGUAAUAAUGC                                                                                                                        | 21 | 5 <sup>th</sup> intron, Loc245963-prov protein  | W            | +, S  | 5' | [HG] Xentr3/scaffold_95:753629-766175<br>[SL] Xentr3/scaffold_95:762685-762753     | 69 |
|                     | <i>xtr-pre-miR-126</i> [MI0004827]<br>GGCUGUGCAUUAUUACUUUUGGU<br>ACGCGCUGUGUCACAUCAACUC<br>GUACCGUGAGUAAUAAUGCGCAG                           |    |                                                 |              |       |    |                                                                                    |    |

|                                      |                                                                                                            |    |                                                   |    |       |    |                                                                                     |    |
|--------------------------------------|------------------------------------------------------------------------------------------------------------|----|---------------------------------------------------|----|-------|----|-------------------------------------------------------------------------------------|----|
| <i>xtr-miR-128a</i>                  | UCACAGUGAACCGGUCUCUUUU                                                                                     | 22 | 14 <sup>th</sup> intron, R3DHM                    | NB | -, S  | 3' | [HG] Xentr3/scaffold_31:3148575-3189286<br>[SL] Xentr3/scaffold_31:3158960-3159042  | 83 |
| <i>xtr-pre-miR-128-1</i> [MI0004932] | UGAGCGGCUUGGAACCGGGCCCG<br>GAGCGCUGUCUGAGAGGGUUUA<br>AGUUUCUCACAGUGAACCGGUC<br>UCUUUUUCAGUCUCUUC           |    | 13 <sup>th</sup> intron, scaffold_31.102          |    | -, S  | 3' | [HG] Xentr3/scaffold_31:3154173-3189286<br>[SL] Xentr3/scaffold_31:3158960-3159042  | 83 |
| <i>xtr-pre-miR-128-1</i> [MI0004932] | UGAGCGGCUUGGAACCGGGCCCG<br>GAGCGCUGUCUGAGAGGGUUUA<br>AGUUUCUCACAGUGAACCGGUC<br>UCUUUUUCAGUCUCUUC           |    | intergenic                                        |    | +     | 3' | [SL] Xentr3/scaffold_906:415152-415241                                              | 90 |
| <i>xtr-pre-miR-128-2</i> [MI0004828] | UUGUGCAGCUGGAACGGGGGCC<br>GUUACACUGUAAGAGAGUGAGU<br>AGUAGGUCUCACAGUGAACCGG<br>UCUCUUUUUCUACUGUAGCAAG<br>UC |    |                                                   |    |       |    |                                                                                     |    |
| <i>xtr-miR-129</i>                   | CUUUUUGCGGUCUGGGCUUGC                                                                                      | 21 | 9 <sup>th</sup> intron, protein ID33570, FLJ10890 |    | +, S  | 5' | [HG] Xentr3/scaffold_266:90362-169808<br>[SL] Xentr3/scaffold_266:134493-134583     | 89 |
| <i>xtr-pre-miR-129-1</i> [MI0004829] | UCCUUCUCAAUUCUUUUGCGG<br>UCUGGGCUUGCUGUAUGUAAAU<br>ACCUAGCCGGGAAGCCCUUACC<br>CCAAAAGCAUUUGCGGAGGGC<br>G    |    | 1 <sup>st</sup> intron, scaffold_266.3            |    | +, AS | 5' | [HG] Xentr3/scaffold_266:132819-146807<br>[SL] Xentr3/scaffold_266:134493-134583    | 89 |
| <i>xtr-pre-miR-129-1</i> [MI0004829] | UCCUUCUCAAUUCUUUUGCGG<br>UCUGGGCUUGCUGUAUGUAAAU<br>ACCUAGCCGGGAAGCCCUUACC<br>CCAAAAGCAUUUGCGGAGGGC<br>G    |    | 4 <sup>th</sup> exon, protein ID19008             |    | -, AS | 5' | [HG] Xentr3/scaffold_20:3681543-3729449<br>[SL] Xentr3/scaffold_20:372 8036-3728117 | 82 |
| <i>xtr-pre-miR-129-2</i> [MI0004830] | UCUCAAGCUUUUUGCGGUCUGG<br>GCUUGCUGUUCUCAAUCAAAGUA<br>UCCAGGAAGCCCUUAUCCAAAAA<br>GAAUUUGCGAGG               |    | 7 <sup>th</sup> exon, scaffold_20.157             |    | -, S  | 5' | [HG] Xentr3/scaffold_20:3711872-3758964<br>[SL] Xentr3/scaffold_20:372 8036-3728117 | 82 |
| <i>xtr-pre-miR-129-2</i> [MI0004830] | UCUCAAGCUUUUUGCGGUCUGG<br>GCUUGCUGUUCUCAAUCAAAGUA<br>UCCAGGAAGCCCUUAUCCAAAAA<br>GAAUUUGCGAGG               |    |                                                   |    |       |    |                                                                                     |    |
| <i>xtr-miR-130a</i>                  | CAGUGCAAUGUAAAAGGCAU                                                                                       | 22 | 1 <sup>st</sup> intron, protein ID21682           |    | +, S  | 3' | [HG] Xentr3/scaffold_56:581603-592757<br>[SL] Xentr3/scaffold_56:586220-586302      | 83 |
| <i>xtr-pre-miR-130a</i> [MI0004831]  | CUGUCCAGUGCCCUUUUAUGUU                                                                                     |    |                                                   |    |       |    |                                                                                     |    |

|                     |                                                                                                                                                     |    |                                                |              |       |    |                                                                                    |    |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------------------------|--------------|-------|----|------------------------------------------------------------------------------------|----|
|                     | GUACUACUAGUGGUCACACACAAA<br>AAAAGCAGUGCAAUGUUAAAAGGG<br>CAUUGGCCAGGG                                                                                |    | 5 <sup>th</sup> intron, scaffold_56.21         |              | +, AS | 3' | [HG] Xentr3/scaffold_56:580992-603446<br>[SL] Xentr3/scaffold_56:586220-586302     | 83 |
|                     | <i>xtr-pre-miR-130a</i> [MI0004831]<br>CUGUCCAGUGCCCUUUUUAUGUU<br>GUACUACUAGUGGUCACACACAAA<br>AAAAGCAGUGCAAUGUUAAAAGGG<br>CAUUGGCCAGGG              |    |                                                |              |       |    |                                                                                    |    |
| <i>xtr-miR-130b</i> | CAGUGCAAUGAUGAAAGGGCAU                                                                                                                              | 22 | 4 <sup>th</sup> intron, scaffold_118.4         | W            | -, AS | 3' | [HG] Xentr3/scaffold_118:47845-63401<br>[SL] Xentr3/scaffold_118:53599-53683       | 85 |
|                     | <i>xtr-pre-miR-130b</i> [MI0004833]<br>CAGGCCGCCUGACACUCUUUCCC<br>UGUUGCACUACUGUGGCAGUGAA<br>UAAAGCAGUGCAAUGAUGAAAGG<br>GCAUCAGUCUGCAGCU            |    |                                                |              |       |    |                                                                                    |    |
| <i>xtr-miR-130c</i> | CAGUGCAAUAUAAAAGGGCAU                                                                                                                               | 22 | 4 <sup>th</sup> intron, scaffold_118.4         |              | -, AS | 3' | [HG] Xentr3/scaffold_118:47845-63401<br>[SL] Xentr3/scaffold_118:61343-61413       | 71 |
|                     | <i>xtr-pre-miR-130c</i> [MI0004832]<br>AUCCGUGGCCUUUUUCUGUUG<br>UACUACUGGAUUUGUAAUAGC<br>AGUGCAAUAUAAAAGGGCAUUG<br>GCU                              |    |                                                |              |       |    |                                                                                    |    |
| <i>xtr-miR-132</i>  | UAACAGUCUACAGCCAUGGUCG                                                                                                                              | 22 | intergenic                                     |              | +     | 3' | [SL] Xentr3/scaffold_50:2051965-2052051                                            | 87 |
|                     | <i>xtr-pre-miR-132</i> [MI0004834]<br>CUGUCUCCAGGGCAACCGUGGC<br>UUUAGAUUGUUACUGUAGUUCU<br>GCAUUGGUAAACAGUCUACAGCC<br>AUGGUCGCU CGGGCAAGAUGC         |    |                                                |              |       |    |                                                                                    |    |
| <i>xtr-miR-133a</i> | UUGGUCCCCUUAACAGCUGU                                                                                                                                | 22 | 13 <sup>th</sup> intron, MIB1, scaffold_549.13 | W / EST / NB | +, AS | 3' | [HG] Xentr3/scaffold_549:303252-370814<br>[SL] Xentr3/scaffold_549:337307-337392   | 86 |
|                     | <i>xtr-pre-miR-133a</i> [MI0004962]<br>CAAUGCUUUGCUAAAGCUGGUA<br>AUGGAACCAAUCACCUCUCAAU<br>GGAUUUGGUCCCCUUAACAGC<br>UGUAGGAUUGCAUUG                 |    |                                                |              |       |    |                                                                                    |    |
| <i>xtr-miR-133b</i> | UUGGUCCCCUUAACAGCUA                                                                                                                                 | 22 | 2 <sup>nd</sup> exon, scaffold_55.54           | W / EST      | +, S  | 3' | [HG] Xentr3/scaffold_55:1828838-1831293<br>[SL] Xentr3/scaffold_55:1831215-1831289 | 75 |
|                     | <i>xtr-pre-miR-133b</i> [MI0004837]<br>CUGCUAUGGCUGGUCAAACGGA<br>ACCAAGUCCGUCUCCUUAAG<br>GUUUGGUCCCCUUAACAGCU<br>AUUGCAGUA                          |    |                                                |              |       |    |                                                                                    |    |
| <i>xtr-miR-133c</i> | UUGGUCCCCUUAACAGCUGC                                                                                                                                | 22 | 2 <sup>nd</sup> intron, BC063216               |              | +, S  | 3' | [HG] Xentr3/scaffold_220:701896-1497408<br>[SL] Xentr3/scaffold_220:941852-941946  | 95 |
|                     | <i>xtr-pre-miR-133c</i> [MI0004835]<br>CCAAGGUUGAAUGCUUUGCUAAA<br>GCUGGUAAAUGGAACCAAUCAA<br>CUGUUGAAUGGAUUUGGUCCCCU<br>UCAACAGCUGCAGCUGUGCAUU<br>GA |    |                                                |              |       |    |                                                                                    |    |

|                     |                                                                                                                                                             |    |                                         |     |        |    |                                                                                    |     |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------------------------------------|-----|--------|----|------------------------------------------------------------------------------------|-----|
|                     |                                                                                                                                                             |    | 4 <sup>th</sup> intron, BC063216        |     | - , AS | 3' | [HG] Xentr3/scaffold_220:701896-1497408<br>[SL] Xentr3/scaffold_220:941852-941946  | 86  |
|                     | <i>xtr-pre-miR-133c</i> [MI0004835]<br>CCAAGGUUGAAUGCUUUGCUAAA<br>GCUGGUAAAAUGGAACCAAUCAA<br>CUGUUGAAUGGAUUUGGUCCCUU<br>UCAACCAGCUGCAGCUGUGCAUU<br>GA       |    |                                         |     |        |    |                                                                                    |     |
|                     |                                                                                                                                                             |    | 2 <sup>nd</sup> intron, scaffold_220.12 |     | + , AS | 3' | [HG] Xentr3/scaffold_220:939646-946718<br>[SL] Xentr3/scaffold_220:941852-941946   | 86  |
|                     | <i>xtr-pre-miR-133c</i> [MI0004835]<br>CCAAGGUUGAAUGCUUUGCUAAA<br>GCUGGUAAAAUGGAACCAAUCAA<br>CUGUUGAAUGGAUUUGGUCCCUU<br>UCAACCAGCUGCAGCUGUGCAUU<br>GA       |    |                                         |     |        |    |                                                                                    |     |
| <i>xtr-miR-133d</i> | UUGGUCCCCUUAACCAGCCGC                                                                                                                                       | 22 | 5 <sup>th</sup> intron, scaffold_977.12 |     | - , AS | 3' | [HG] Xentr3/scaffold_977:358000-392884<br>[SL] Xentr3/scaffold_977:368844-368919   | 76  |
|                     | <i>xtr-pre-miR-133d</i> [MI0004836]<br>CUGGUUGCGGCUUGUGAAAAGGA<br>ACCACAUCAACCCAGAAAAAGGAU<br>UUGGUCCCCUUAACCAGCCGCA<br>ACUGGU                              |    |                                         |     |        |    |                                                                                    |     |
| <i>xtr-miR-135</i>  | UAUGGCUUUUUUUAUCCUAUGUGA                                                                                                                                    | 23 | 20 <sup>th</sup> intron,scaffold_747.3  | EST | - , S  | 5' | [HG] Xentr3/scaffold_747:132827-276170<br>[SL] Xentr3/scaffold_747:156459-156556   | 120 |
|                     | <i>xtr-pre-miR-135-1</i> [MI0004838]<br>AUAAAUUCACUGUGGUUUUUUUG<br>GCUUUUUUUAUCCUAUGUGAUAGUA<br>AUAAUGUCUCAUGUAGGGAUGGAA<br>GCCAUGAAAUACAUGUGAAAAGU<br>CA   |    |                                         |     |        |    |                                                                                    |     |
|                     |                                                                                                                                                             |    | 4 <sup>th</sup> intron,JGI gene18891    |     | - , S  | 5' | [HG] Xentr3/scaffold_19:3519572-3571812<br>[SL] Xentr3/scaffold_19:3520987-3521074 | 101 |
|                     | <i>xtr-pre-miR-135-2</i> [MI0004933]<br>CCCCCUGCUGAGGUUAUUGGCUU<br>UUUAUCCUAUGUGAUUGCUUUC<br>CUAAUUCACAUAGGGCAGAAAGCC<br>AUGUGCUGCACAGGGGAC                 |    |                                         |     |        |    |                                                                                    |     |
|                     |                                                                                                                                                             |    | 4 <sup>th</sup> intron,scaffold_19.179  |     | - , S  | 5' | [HG] Xentr3/scaffold_19:3489749-3525572<br>[SL] Xentr3/scaffold_19:3520987-3521074 | 101 |
|                     | <i>xtr-pre-miR-135-2</i> [MI0004933]<br>CCCCCUGCUGAGGUUAUUGGCUU<br>UUUAUCCUAUGUGAUUGCUUUC<br>CUAAUUCACAUAGGGCAGAAAGCC<br>AUGUGCUGCACAGGGGAC                 |    |                                         |     |        |    |                                                                                    |     |
| <i>xtr-miR-137</i>  | UAUUGCUUAAGAAUACGCGUAG                                                                                                                                      | 22 | 2 <sup>nd</sup> intron, protein ID20368 |     | - , S  | 3' | [HG] Xentr3/scaffold_36:1246721-1274561<br>[SL] Xentr3/scaffold_36:1251046-1251144 | 83  |
|                     | <i>xtr-pre-miR-137-1</i> [MI0004934]<br>GCUCUGUGGCUCUCUUCGGUGA<br>CGGGUAAUUCUUGGGUGGAUAAU<br>ACGGAUACGUUGUUAUUGCUU<br>AAGAAUACGCGUAGUUGAGGAG<br>AGUAUCUUCAG |    |                                         |     |        |    |                                                                                    |     |

|                    |                                                                                                                                                                  |    |                                         |        |    |                                                                                                          |     |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------------------------------------|--------|----|----------------------------------------------------------------------------------------------------------|-----|
|                    |                                                                                                                                                                  |    | 3 <sup>rd</sup> intron, protein ID20368 | - , S  | 3' | [HG] Xentr3/scaffold_36:1246721-1274561<br>[SL] Xentr3/scaffold_36:1267005-1267103                       | 83  |
|                    | <i>xtr-pre-miR-137-1</i> [MI0004934]<br>CUCUCUUCGGUGACGGGUAAUUCU<br>UGGGUGGAUAAUACGGAUUACGU<br>UGUUAAUUGCUUAAAGAAUACGCGU<br>AGUUGAGGAGAGUAUC                     |    | 5 <sup>th</sup> intron, scaffold_36.38  | + , AS | 3' | [HG] Xentr3/scaffold_36:1192247-1253697<br>[SL] Xentr3/scaffold_36:1267005-1267103                       | 83  |
|                    | <i>xtr-pre-miR-137-1</i> [MI0004934]<br>CUCUCUUCGGUGACGGGUAAUUCU<br>UGGGUGGAUAAUACGGAUUACGU<br>UGUUAAUUGCUUAAAGAAUACGCGU<br>AGUUGAGGAGAGUAUC                     |    | intergenic                              | -      | 3' | [SL] Xentr3/scaffold_3487:393-493                                                                        | 101 |
|                    | <i>xtr-pre-miR-137-1</i> [MI0004934]<br>GCUCUGUGGCUUCUCUUCGGUGA<br>CGGGUAAUUCUUGGGUGGAUAAUA<br>CGGAUUACGUUGUUAAUUGCUUAA<br>GAAUACGCGUAGUUGAGGAGAGU<br>AUCUUCAGCA |    |                                         |        |    |                                                                                                          |     |
| <i>xtr-miR-138</i> | AGCUGGUGUUGUGAAUC                                                                                                                                                | 17 | intergenic                              | +      | 5' | [SL] Xentr3/scaffold_319:864498-864582                                                                   | 85  |
|                    | <i>xtr-pre-miR-138</i> [MI0004839]<br>CGGUGCGGAGCAGCAGCUGGU<br>GUUGUGAAUCAGGCCGUGACC<br>ACUCAGAAAACGCGUACUUCAC<br>AACACCAGGGUUGCUUCUCAC                          |    |                                         |        |    |                                                                                                          |     |
| <i>xtr-miR-139</i> | UCUACAGUGCAUGUGUCU                                                                                                                                               | 18 | 1 <sup>st</sup> intron, pde2a, BC277985 | - , S  | 5' | [HG] Xentr3/scaffold_1219:102556-160125<br>[SL] Xentr3/scaffold_1219:115297-115396                       | 100 |
|                    | <i>xtr-pre-miR-139</i> [MI0004840]<br>GGACCGCCGGUGAGGCCUGGGU<br>GUAUUCUACAGUGCAUGUGUCU<br>CCAGUCAUUAAGAGGCACUGGG<br>GAUACAGCUCUGUUGGAAUAAC<br>AAUCAGUGCCGC       |    | 4 <sup>th</sup> intron, scaffold_1219.5 | - , S  | 5' | [HG] Xentr3/scaffold_1219:87935-167066<br>[SL] Xentr3/scaffold_1219:115297-115396                        | 100 |
|                    | <i>xtr-pre-miR-139</i> [MI0004840]<br>GGACCGCCGGUGAGGCCUGGGU<br>GUAUUCUACAGUGCAUGUGUCU<br>CCAGUCAUUAAGAGGCACUGGG<br>GAUACAGCUCUGUUGGAAUAAC<br>AAUCAGUGCCGC       |    | 1 <sup>st</sup> intron                  | - , S  | 5' | [HG] Ensembl ENSXETT00000043365<br>Ensembl scaffold:JGI3:<br>[SL] Xentr3/scaffold_1219: 115297-115396:-1 | 100 |
|                    | <i>xtr-pre-miR-139</i> [MI0004840]<br>GGACCGCCGGUGAGGCCUGGGU<br>GUAUUCUACAGUGCAUGUGUCU<br>CCAGUCAUUAAGAGGCACUGGG<br>GAUACAGCUCUGUUGGAAUAAC<br>AAUCAGUGCCGC       |    |                                         |        |    |                                                                                                          |     |

|                       |                                                                                                                                                     |    |                                                |    |      |    |                                                                                       |    |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------------------------|----|------|----|---------------------------------------------------------------------------------------|----|
| <i>xtr-miR-140</i>    | AGUGGUUUUACCCUAUGGUAG                                                                                                                               | 21 | 10 <sup>th</sup> intron, WWP2, scaffold_578.16 |    | +, S | 5' | [HG] Xentr3/scaffold_578:472997-493898<br>[SL] Xentr3/ scaffold_578:490302-490395     | 94 |
|                       | <i>xtr-pre-miR-140</i> [MI0004841]<br>CCCUCUCUGUGUCCUCCAGUG<br>GUUUUACCCUAUGGUAGGUUAC<br>GUCAGGCUGUUCUACCACAGGG<br>UAGAACCACGGACAGGAUACGG<br>GGAGCU |    |                                                |    |      |    |                                                                                       |    |
| <i>xtr-miR-142-5p</i> | CAUAAAGUAGAAAGCACUAC                                                                                                                                | 20 | 1 <sup>st</sup> intron, scaffold_100.34        | NB | -, S | 5' | [HG] Xentr3/scaffold_100:1001750-1019873<br>[SL] Xentr3/ scaffold_100:1012673-1012758 | 86 |
|                       | <i>xtr-pre-miR-142-1</i> [MI0004842]<br>CAGUGCAGCCACCCAUAAAGUAG<br>AAAGCACUACUAGACAGGACUGA<br>ACGCUGUAGUGUUUCCUACUUU<br>AUGGAUGAGUGUACUGGG          |    |                                                |    |      |    |                                                                                       |    |
|                       | <i>xtr-pre-miR-142-2</i> [MI0004843]<br>CAGUGCAGCCACCCAUAAAGUAG<br>AAAGCACUACUAGACAGGACUGA<br>ACGCUGUAGUGUUUCCUACUUU<br>AUGGAUGAGUGUACUGGG          |    | 1 <sup>st</sup> intron, scaffold_100.34        |    | -, S | 5' | [HG] Xentr3/scaffold_100:1001750-1019873<br>[SL] Xentr3/scaffold_100:1013855-1013940  | 86 |
| <i>xtr-miR-142-3p</i> | UGUAGUGUUUCCUACUUUAUGGA                                                                                                                             | 23 | 1 <sup>st</sup> intron, scaffold_100.34        | NB | -, S | 3' | [HG] Xentr3/scaffold_100:1001750-1019873<br>[SL] Xentr3/ scaffold_100:1012673-1012758 | 86 |
|                       | <i>xtr-pre-miR-142-1</i> [MI0004842]<br>CAGUGCAGCCACCCAUAAAGUAG<br>AAAGCACUACUAGACAGGACUGA<br>ACGCUGUAGUGUUUCCUACUUU<br>AUGGAUGAGUGUACUGGG          |    |                                                |    |      |    |                                                                                       |    |
|                       | <i>xtr-pre-miR-142-2</i> [MI0004843]<br>CAGUGCAGCCACCCAUAAAGUAG<br>AAAGCACUACUAGACAGGACUGA<br>ACGCUGUAGUGUUUCCUACUUU<br>AUGGAUGAGUGUACUGGG          |    | 1 <sup>st</sup> intron, scaffold_100.34        |    | -, S | 3' | [HG] Xentr3/scaffold_100:1001750-1019873<br>[SL] Xentr3/scaffold_100:1013855-1013940  | 86 |
| <i>xtr-miR-143</i>    | UGAGAUGAAGCACUGUAGCUCG                                                                                                                              | 22 | 4 <sup>th</sup> intron, protein ID 441133      | NB | +, S | 3' | [HG] Xentr3/scaffold_493:619150-668021<br>[SL] Xentr3/scaffold_493:665585-665661      | 83 |
|                       | <i>xtr-pre-miR-143</i> [MI0004937]<br>UGUCUCCAGCCCAAGGUGCAGU<br>GCUGCAUCUCUGGUCAGUUGUGA<br>GUCUGAGAUGAAGCACUGUAGCU<br>CGGGAAGGGGGAU                 |    |                                                |    |      |    |                                                                                       |    |
|                       | <i>xtr-pre-miR-143</i> [MI0004937]<br>UGUCUCCAGCCCAAGGUGCAGU<br>GCUGCAUCUCUGGUCAGUUGUGA<br>GUCUGAGAUGAAGCACUGUAGCU<br>CGGGAAGGGGGAU                 |    | 2 <sup>nd</sup> intron, scaffold_493.20        |    | +, S | 3' | [HG] Xentr3/scaffold_493:658609-685338<br>[SL] Xentr3/scaffold_493:665585-665661      | 83 |
| <i>xtr-miR-144</i>    | UACAGUAUAGAUGAUACUAC                                                                                                                                | 22 | cross intron/exon, protein ID21385             |    | +, S | 3' | [HG] Xentr3/scaffold_50:948650-1021481<br>[SL] Xentr3/scaffold_50:955322-955381       | 94 |
|                       | <i>xtr-pre-miR-144</i> [MI0004938]                                                                                                                  |    |                                                |    |      |    |                                                                                       |    |

|                     |                                                                                                                                                              |    |                                                   |       |    |                                                                                  |     |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---------------------------------------------------|-------|----|----------------------------------------------------------------------------------|-----|
|                     | UUUGGGACUGUGUUUGGGAUUAU<br>CAUCAUAUACUGUAAGUUUGUUU<br>UAAGACACUACAGUAUAGAUGAUG<br>UACUACACCAAGUCUCACAAGCA<br>CG                                              |    | cross intron/exon, scaffold_50.32                 | +, S  | 3' | [HG] Xentr3/scaffold_50:948650-983438<br>[SL] Xentr3/scaffold_50:955322-955381   | 94  |
|                     | <i>xtr-pre-miR-144</i> [MI0004938]<br>UUUGGGACUGUGUUUGGGAUUAU<br>CAUCAUAUACUGUAAGUUUGUUU<br>UAAGACACUACAGUAUAGAUGAUG<br>UACUACACCAAGUCUCACAAGCA<br>CG        |    |                                                   |       |    |                                                                                  |     |
| <i>xtr-miR-145</i>  | GUCCAGUUUCCCCAGGAUCCCUU                                                                                                                                      | 24 | 4 <sup>th</sup> intron, protein ID 441133         | +, S  | 5' | [HG] Xentr3/scaffold_493:619150-668021<br>[SL] Xentr3/scaffold_493:666553-666622 | 86  |
|                     | <i>xtr-pre-miR-145</i> [MI0004939]<br>ACCUAUUCCUCAAGGUCCAGUUUU<br>CCCAGGAUCCCUUGGGUGCUGUG<br>GUGGGGAUUCCUGGAAUACUGUU<br>CUUGGGGUGUAGGC                       |    | 2 <sup>nd</sup> intron, scaffold_493.20           | +, S  | 5' | [HG] Xentr3/scaffold_493:658609-685338<br>[SL] Xentr3/scaffold_493:666553-666622 | 86  |
|                     | <i>xtr-pre-miR-145</i> [MI0004939]<br>ACCUAUUCCUCAAGGUCCAGUUUU<br>CCCAGGAUCCCUUGGGUGCUGUG<br>GUGGGGAUUCCUGGAAUACUGUU<br>CUUGGGGUGUAGGC                       |    |                                                   |       |    |                                                                                  |     |
| <i>xtr-miR-146</i>  | UGAGAACUGAAUCCAUAGGUU                                                                                                                                        | 22 | 6 <sup>th</sup> intron, Hs20127501                | -, AS | 5' | [HG] Xentr3/scaffold_7655:86-4886<br>[SL] Xentr3/scaffold_7655: 4726-4826        | 90  |
|                     | <i>xtr-pre-miR-146</i> [MI0004844]<br>CAAUGAGUUCUUAGCUUUGAGAA<br>CUGAAUCCAUAGGUUGUUAGAG<br>GUUAGACCUAUGGUGCUUAGUUC<br>CAUAGCUUGGAUCCACUGGC                   |    |                                                   |       |    |                                                                                  |     |
| <i>xtr-miR-146b</i> | UGAGAACUGAAUCCAUUGGACU                                                                                                                                       | 22 | 6 <sup>th</sup> intron, C20orf116, scaffold_140.4 | +, S  | 5' | [HG] Xentr3/scaffold_140:78506-122817<br>[SL] Xentr3/scaffold_140:119889-119988  | 100 |
|                     | <i>xtr-pre-miR-146b</i> [MI0006265]<br>CCAAUGGCAGGGCCCGGCUCUG<br>AGAACUGAAUCCAUUGGACUGUU<br>CCACUCACAGCACCCUCAGUCCA<br>CAGUGUUCAGUGCUCAGUCUG<br>GCUGCCACUA   |    |                                                   |       |    |                                                                                  |     |
| <i>xtr-miR-147</i>  | GGACGUGGAAUAGCUUCUAU                                                                                                                                         | 20 | intergenic                                        | +, S  | 3' | [SL] Xentr3/scaffold_27687:1397-1407                                             | 110 |
|                     | <i>xtr-pre-miR-147-1</i><br>UCCUACCAGCAAUCUACAGAG<br>AUUUUUUAAACAGGAAUUAUGCU<br>UUCUAGAAAUGGUGACAAAGUA<br>GGAAUUGUGUGGAAUAGCUUC<br>UAUGACUUUCCUUUCCAUUC<br>U |    | 2 <sup>nd</sup> intron, scaffold_63.10            | -, AS | 3' | [HG] Xentr3/scaffold_63:507447-520981                                            |     |

|                     |                                                                                                                                                                 |    |                                          |    |       |    |                                                                                       |     |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------------------|----|-------|----|---------------------------------------------------------------------------------------|-----|
|                     |                                                                                                                                                                 |    |                                          |    |       |    | [SL] Xentr3/scaffold_63:517759-517868                                                 | 110 |
|                     | <i>xtr-pre-miR-147-2</i><br>UCCUACCAGCAAAUCUACAGAG<br>AUUUUUAAACAGGAAUUCUUGCU<br>UUCUAGAAAUGGUGACAAAGUA<br>GGAAUUGUGUGGAAUUGCUUC<br>UAUGACUUUCCCUUUUCCAUUC<br>U |    |                                          |    |       |    |                                                                                       |     |
|                     | <i>xtr-pre-miR-147-3</i><br>UCCUACCAGCAAAUCUACAGAG<br>AUUUUUAAACAGGAAUUCUUGCU<br>UUCUAGAAAUGGUGACAAAGUA<br>GGAAUUGUGUGGAAUUGCUUC<br>UAUGACUUUCCCUUUUCCAUUC<br>U |    | intergenic                               |    | +     | 3' | [SL] Xentr3/scaffold_5453:12805-12914                                                 | 110 |
| <i>xtr-miR-148a</i> | UCAGUGCAUUACAGAACUUUGU                                                                                                                                          | 22 | 4 <sup>th</sup> intron, scaffold_29.44   | NB | -, AS | 3' | [HG] Xentr3/scaffold_29:1334117-1343425<br>[SL] Xentr3/scaffold_29:1341943-1342011    | 69  |
|                     | <i>xtr-pre-miR-148a</i> [MI0004905]<br>AAAUCAAAGUUCUGUGACACUUA<br>GACUCUGAAUAUGAUAGCAGUCA<br>GUGCACUACAGAACUUUGUUUU<br>G                                        |    |                                          |    |       |    |                                                                                       |     |
| <i>xtr-miR-148b</i> | UCAGUGCAUCACAGAACUUUGU                                                                                                                                          | 22 | 1 <sup>st</sup> intron, Copz1            |    | -, S  | 3' | [HG] Xentr3/scaffold_136:1941479-1952816<br>[SL] xentr3/ scaffold_136:1950089-1950185 | 97  |
|                     | <i>xtr-pre-miR-148b</i> [MI0004845]<br>UGAGGAACAGCGUUUGAGGUGA<br>AGUUCUGUUUAUACACUCCGGCU<br>GUGAGUAAGUGGAAGUCAGUGC<br>AUCACAGAACUUUGUCUCGAGG<br>GCUUCACUA       |    | 1 <sup>st</sup> intron, Copz2, BC064149  |    | -, S  | 3' | [HG] Xentr3/scaffold_136:1941479-1952809<br>[SL] xentr3/ scaffold_136:1950089-1950185 | 97  |
|                     | <i>xtr-pre-miR-148b</i> [MI0004845]<br>UGAGGAACAGCGUUUGAGGUGA<br>AGUUCUGUUUAUACACUCCGGCU<br>GUGAGUAAGUGGAAGUCAGUGC<br>AUCACAGAACUUUGUCUCGAGG<br>GCUUCACUA       |    | 1 <sup>st</sup> intron, scaffold_136.89  |    | -, S  | 3' | [HG] Xentr3/scaffold_136:1942101-1957426<br>[SL] xentr3/ scaffold_136:1950089-1950185 | 97  |
|                     | <i>xtr-pre-miR-148b</i> [MI0004845]<br>UGAGGAACAGCGUUUGAGGUGA<br>AGUUCUGUUUAUACACUCCGGCU<br>GUGAGUAAGUGGAAGUCAGUGC<br>AUCACAGAACUUUGUCUCGAGG<br>GCUUCACUA       |    |                                          |    |       |    |                                                                                       |     |
| <i>xtr-miR-150</i>  | UCUCCCAACCCUUGUACCAGAG                                                                                                                                          | 22 | 11 <sup>th</sup> intron, scaffold_444.34 |    | -, S  | 5' | [HG] Xentr3/scaffold_444:875887-948599<br>[SL] Xentr3/scaffold_444:884201-884300      | 100 |
|                     | <i>xtr-pre-miR-150</i> [MI0004846]<br>AUAAUGGUCUACUCUUUCUCUCU<br>CCCAACCCUUGUACCAGAGUGAU<br>AAUGGGAACUCUGGUACAGAGGA<br>UGGCUGAAAGGAAGCAGUGGAGA<br>GUCCAGCU      |    |                                          |    |       |    |                                                                                       |     |

|                      |                                                                                                                                                  |    |                                         |        |       |    |                                                                                               |    |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------------------------------------|--------|-------|----|-----------------------------------------------------------------------------------------------|----|
|                      |                                                                                                                                                  |    |                                         |        |       |    | [HG] GENSCAN00000120123<br>Ensembl scaffold:JGI3<br>[SL] Xentr3/scaffold_444:884254:884324:-1 | 71 |
| <i>xtr-miR-153</i>   | UUGCAUAGUCACAAAAGUGA                                                                                                                             | 20 | 12 <sup>th</sup> intron, PTPRN2         |        | -, S  | 3' | [HG] Ensembl ENSXETT00000041785<br>[SL] Xentr3/scaffold_31:2955955:2956044:1                  | 87 |
|                      | <i>xtr-pre-miR-153-1</i> [MI0004847]<br>CACGGCUGCCCUUGUCAUUUUU<br>GUGAUUUGCAGCUUGUAAUUUU<br>GGUCUCAGUUGCAUAGUCACAA<br>AAGUGAUCAUGGGCAGGUGGG      |    | 18 <sup>th</sup> intron, PTPRN2         |        | -, S  | 3' | [HG] Xentr3/scaffold_31:2924764-2960910<br>[SL] Xentr3/scaffold_31:2955956-2956042            | 87 |
|                      | <i>xtr-pre-miR-153-1</i> [MI0004847]<br>CACGGCUGCCCUUGUCAUUUUU<br>GUGAUUUGCAGCUUGUAAUUUU<br>GGUCUCAGUUGCAUAGUCACAA<br>AAGUGAUCAUGGGCAGGUGGG      |    | 5 <sup>th</sup> intron, PTPRN2          |        | -, S  | 3' | [HG] Xentr3/scaffold_376:432532-476238<br>[SL] Xentr3/scaffold_376:452261-452344              | 84 |
|                      | <i>xtr-pre-miR-153-2</i> [MI0004940]<br>CAGUUGCCAGUGUCAUUUUUGUGA<br>CGUUGCAGCUAGUAAUAGAGCCC<br>AGUUGCAUAGUCACAAAAGUGAUU<br>AUUGGAAACUGU          |    |                                         |        |       |    |                                                                                               |    |
| <i>xtr-miR-155</i>   | UUA AUGCUAAUCGUGAUAGGGG                                                                                                                          | 22 | 1 <sup>st</sup> intron, scaffold_114.31 |        | +, AS | 5' | [HG] Xentr3/scaffold_114:629407-664154<br>[SL] Xentr3/scaffold_114:663382-663450              | 69 |
|                      | <i>xtr-pre-miR-155</i> [MI0004848]<br>UAUUAUGCUAAUCGUGAUAGGG<br>GUUUUUUAAUACAUUUGACUCC<br>UACAUGUAGCAUUUUUACAUG                                  |    |                                         |        |       |    |                                                                                               |    |
| <i>xtr-miR-181a</i>  | AACA UUCAACGCGUCGGUGAGU                                                                                                                          | 23 | 1 <sup>st</sup> intron, scaffold_858.12 | W / NB | +, AS | 5' | [HG] Xentr3/scaffold_858:449893-475286<br>[SL] Xentr3/scaffold_858:464190-464279              | 90 |
|                      | <i>xtr-pre-miR-181a-1</i> [MI0004865]<br>GGCUACUUUAGUGAACAUUCAACG<br>CUGUCGGUGAGUUUGGUAUCUAAA<br>GGCAAACCAUCGAUCGUUGACUGU<br>ACAUUACGGCAAUGCCAG  |    | 7 <sup>th</sup> intron, scaffold_1164.5 | EST    | +, AS | 5' | [HG] Xentr3/scaffold_1164:93826-135004<br>[SL] Xentr3/scaffold_1164:125247-125336             | 90 |
|                      | <i>xtr-pre-miR-181a-2</i> [MI0004866]<br>UUGAGGGCUUCAGAGAACAUUCA<br>CGCUGUCGGUGAGUUUGAGAAAGU<br>GUAAAAAUAAACCAUCGGCCGU<br>UGACUGUACCCUGAGGCU     |    |                                         |        |       |    |                                                                                               |    |
| <i>xtr-miR-181a*</i> | ACCAUCGAUCGUUGACUGUACA                                                                                                                           | 22 | 1 <sup>st</sup> intron, scaffold_858.12 | W      | +, AS | 3' | [HG] Xentr3/scaffold_858:449893-475286<br>[SL] Xentr3/scaffold_858:464190-464279              | 90 |
|                      | <i>xtr-pre-miR-181a-1*</i> [MI0004865]<br>GGCUACUUUAGUGAACAUUCAACG<br>CUGUCGGUGAGUUUGGUAUCUAAA<br>GGCAAACCAUCGAUCGUUGACUGU<br>ACAUUACGGCAAUGCCAG |    |                                         |        |       |    |                                                                                               |    |
|                      | ACCAUCGGCCGUUGACUGUACC                                                                                                                           | 22 | 7 <sup>th</sup> intron, scaffold_1164.5 | EST    | +, AS | 3' | [HG] Xentr3/scaffold_1164:93826-135004<br>[SL] Xentr3/scaffold_1164:125247-125336             | 90 |

|                                                                                                                                                                        |                         |    |                                         |     |       |    |                                                                                        |     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|----|-----------------------------------------|-----|-------|----|----------------------------------------------------------------------------------------|-----|
| <i>xtr-pre-miR-181a-2*</i> [MI0004866]<br>UUGAGGGCUUCAGAGAACAUAUCAAC<br>GCUGUCGGUGAGUUUGAGAAAGUG<br>UAAAAUAUAAACCAUCGGCCGUUG<br>ACUGUACCCUGAGGCU                       |                         |    |                                         |     |       |    |                                                                                        |     |
| <i>xtr-miR-181b</i>                                                                                                                                                    | AACAUUCAUUGCUGUCGGUGGG  | 22 | 1 <sup>st</sup> intron, scaffold_858.12 |     | +, AS | 5' | [HG] Xentr3/scaffold_858:449893-475286<br>[SL] Xentr3/scaffold_858:464628-464737       | 110 |
| <i>xtr-pre-miR-181b-1</i> [MI0004849]<br>UCACCUAAGAAAAGAAAUGAAAGG<br>UCACAAUCAACAUUCAUUGCUGUC<br>GGUGGGUUGAGUUAAGAACACAAG<br>CUCGCUGAACGAUGAAUGCAACUG<br>UGUCCCCAAUACA |                         |    |                                         |     |       |    |                                                                                        |     |
|                                                                                                                                                                        |                         |    | 7 <sup>th</sup> intron, scaffold_1164.5 | EST | +, S  | 5' | [HG] Xentr3/scaffold_1164:93826-135004<br>[SL] Xentr3/scaffold_1164:1164:129414-129496 | 83  |
| <i>xtr-pre-miR-181b-2</i> [MI0004850]<br>AAUGGCUGCAAUAAACAUAUCAUUGC<br>UGUCGGUGGGUUGUAGUUUAGAAA<br>AGCUCAUUGAUCAAUGAUGCAAAC<br>UGCAGACCA                               |                         |    |                                         |     |       |    |                                                                                        |     |
| <i>xtr-miR-182</i>                                                                                                                                                     | UUUGGCAAUGGUAGAACUCACA  | 22 | 4 <sup>th</sup> intron, scaffold_20.99  |     | +, S  | 5' | [HG] Xentr3/scaffold_20:2843682-2870070<br>[SL] Xentr3/scaffold_20:2866956-2867060     | 105 |
| <i>xtr-pre-miR-182</i> [MI0004851]<br>AGUGGCUUCUCUGGCAGUGUUUG<br>GCAAUGGUAGAACUCACACUGGUG<br>AGCUAUGAAGAUAUCCGGUGGUUCU<br>AGACUUGCCAACUAUGGCCUGGG<br>AAUAAAGCAGCA      |                         |    |                                         |     |       |    |                                                                                        |     |
| <i>xtr-miR-182*</i>                                                                                                                                                    | UGGUUCUAGACUUGCCAACUA   | 21 | 4 <sup>th</sup> intron, scaffold_20.99  |     | +, S  | 3' | [HG] Xentr3/scaffold_20:2843682-2870070<br>[SL] Xentr3/scaffold_20:2866975-2867042     | 68  |
| <i>xtr-pre-miR-182</i> [MI0004851]<br>AGUGGCUUCUCUGGCAGUGUUUG<br>GCAAUGGUAGAACUCACACUGGUG<br>AGCUAUGAAGAUAUCCGGUGGUUCU<br>AGACUUGCCAACUAUGGCCUGGG<br>AAUAAAGCAGCA      |                         |    |                                         |     |       |    |                                                                                        |     |
| <i>xtr-miR-183</i>                                                                                                                                                     | UAUGGCACUGGUAGAAUUCACUG | 22 | 4 <sup>th</sup> exon, scaffold_20.99    |     | +, S  | 5' | [HG] Xentr3/scaffold_20:2843682-2870070<br>[SL] Xentr3/scaffold_20:2863118-2863214     | 97  |
| <i>xtr-pre-miR-183</i> [MI0004852]<br>CAUCCCUCCUGUUCUGUGUAUGG<br>CACUGGUAGAAUUCACUGUGAAAA<br>CACAAAAUCAGUGAAUUAACCAUAG<br>GGCCAUAAACAGAGCAGAGAAAGA<br>AC               |                         |    |                                         |     |       |    |                                                                                        |     |
| <i>xtr-miR-189</i>                                                                                                                                                     | GUGCCUACUGAACUGAUUACAGU | 23 | intergenic                              | EST | +     | 5' | [SL] Xentr3/scaffold_528:834507-834571                                                 | 65  |
| <i>xtr-pre-miR-24a</i> [MI0004895]<br>CUCUUGUGCCUACUGAACUGAUA<br>UCAGUUCUAUUUCACACACUGGC<br>UCAGUUCAGCAGGAACAGG                                                        |                         |    |                                         |     |       |    |                                                                                        |     |
| <i>xtr-miR-192</i>                                                                                                                                                     | AUGACCUAUGAAUUGACAGCC   | 21 | 4 <sup>th</sup> exon, scaffold_251.5    | NB  | -, S  | 5' | [HG] Ensembl GENSscan00000073807<br>[SL] Xentr3/scaffold_251:251:171959-172045         | 87  |
| <i>xtr-pre-miR-192</i> [MI0004855]                                                                                                                                     |                         |    |                                         |     |       |    |                                                                                        |     |

|                      |                                                                                                                                                                 |    |                                               |          |       |    |                                                                                                                               |     |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------------------------------------------|----------|-------|----|-------------------------------------------------------------------------------------------------------------------------------|-----|
|                      | GAGUGUACGGGCCUAUGACCUAU<br>GAAUUGACAGCCAGUGGAUGUGA<br>AGUCUGCCUGUCAAUUCUGUAGG<br>CCACAGGUUCGUCCACCU                                                             |    |                                               |          |       |    |                                                                                                                               |     |
| <i>xtr-miR-194</i>   | UGUAAACAGCAACUCCAUGUGGA                                                                                                                                         | 22 | 12 <sup>th</sup> intron, FLJ10326             | NB       | -, AS | 5' | mitochondrial isoleucine tRNA synthetas<br>[HG] Xentr3/scaffold_39:2632701-2664075<br>[SL] Xentr3/scaffold_39:2647855-2647934 | 80  |
|                      | <i>xtr-pre-miR-194-1</i> [MI0004857]<br>UAGUGUGUAUCAGGUGUAAACAGC<br>AACUCCAUGUGGACUUGUCCGUA<br>UUCCAGUGGAGAUUCUGUUACUU<br>UUGAUGGGCAC                           |    |                                               |          |       |    |                                                                                                                               |     |
| <i>xtr-miR-196a</i>  | UAGGUGAUUUCAUGUUGUUGG                                                                                                                                           | 22 | 2 <sup>nd</sup> intron, scaffold_280.12       | W / NB   | +, S  | 5' | [HG] Xentr3/scaffold_280:392819-408669<br>[SL] Xentr3/scaffold_280:398582-398687                                              | 106 |
|                      | <i>xtr-pre-miR-196a</i> [MI0004942]<br>UUUGUAUCCAGCUGAUCUGUGG<br>UUUAGGUAGUUUCAUGUUGUUG<br>GGAUUGCUUUUUCUUAACGCGG<br>CAACAAGAAACUGCCUUAUUAC<br>GUCAGUUCGUCUUCAC |    |                                               |          |       |    |                                                                                                                               |     |
| <i>xtr-miR-199a</i>  | CCCAGUGUUCAGACUACCGUUC                                                                                                                                          | 23 | 12 <sup>th</sup> intron, DNM1, scaffold_74.29 | EST, NB  | -, AS | 5' | [HG] Xentr3/scaffold_74:752833-883011<br>[SL] Xentr3/scaffold_74:833049-833144                                                | 96  |
|                      | <i>xtr-pre-miR-199a</i> [MI0004859]<br>AAGAACCUGCUCCGUCGCCCCAG<br>UGUUCAGACUACCGUUCAGGAC<br>AAUGCUGUUGUACAGUAGUCUGC<br>ACAUUGGUUAGACUGGGCAUGGG<br>ACAG          |    |                                               |          |       |    |                                                                                                                               |     |
| <i>xtr-miR-199a*</i> | UACAGUAGUCUGCACAUUGGUU                                                                                                                                          | 22 | 12 <sup>th</sup> intron, DNM1                 | EST      | -, AS | 3' | [HG] Xentr3/scaffold_74:752833-883011<br>[SL] Xentr3/scaffold_74:833049-833144                                                | 96  |
|                      | <i>xtr-pre-miR-199a</i> [MI0004859]<br>AAGAACCUGCUCCGUCGCCCCAG<br>UGUUCAGACUACCGUUCAGGAC<br>AAUGCUGUUGUACAGUAGUCUGC<br>ACAUUGGUUAGACUGGGCAUGGG<br>ACAG          |    |                                               |          |       |    |                                                                                                                               |     |
| <i>xtr-miR-200a</i>  | UAACACUGUCUGGUAACGAUGU                                                                                                                                          | 22 | 3 <sup>rd</sup> intron, scaffold_1247.2       | EST / NB | +, S  | 3' | [HG] GENSCAN00000094688<br>Ensembl scaffold:JGI3:<br>[SL] Xentr3/scaffold_1247:54412-54504:1                                  | 87  |
|                      | <i>xtr-pre-miR-200a</i> [MI0004945]<br>GUCCUCUAUGGACAUUUACUA<br>GACAGUGCUGGAUUUUAUUUUAU<br>CUUUUCUAACACUGUCUGGUAA<br>CGAUGUUUAAAAGAGUGAGCCA                     |    |                                               |          |       |    |                                                                                                                               |     |
| <i>xtr-miR-200b</i>  | UAAUACUGCCUGGUAUAUGAC                                                                                                                                           | 23 | 3 <sup>rd</sup> intron, scaffold_1247.2       | W        | +, S  | 3' | [HG] Xentr3/scaffold_1247:27117-63074<br>[SL] Xentr3/scaffold_1247:52730-52818                                                | 89  |
|                      | <i>xtr-pre-miR-200b</i> [MI0004946]<br>CUGUGGCGCUAUUGCCAUCUACU<br>GGGCAGCAUUGGAUUUUGUCUAUG<br>UUUCUAAUACUGCCUGGUAUAUG<br>GAUUAUGGCGCCCCACA                      |    |                                               |          |       |    |                                                                                                                               |     |

|                     |                                                                                                                                                               |    |                                         |                     |    |                                                                                      |     |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------------------------------------|---------------------|----|--------------------------------------------------------------------------------------|-----|
| <i>xtr-miR-202</i>  | AGGGGCAUAGGGCAUGGGAAAA                                                                                                                                        | 22 | 1 <sup>st</sup> intron, scaffold_305.41 | - , AS              | 3' | [HG] Xentr3/scaffold_305:962832-976112<br>[SL] Xentr3/scaffold_305:305:963485-963571 | 87  |
|                     | <i>xtr-pre-miR-202-1</i> [MI0004860]<br>CUCGCGUUCUUUUUCCUAUGC<br>AUAUACCUCUUUGAAAAAUGAAUG<br>UAAAGGGGCAUAGGGCAUGGGAA<br>AAUGGCGCAGCUGAGCC                     |    |                                         |                     |    |                                                                                      |     |
|                     | <i>xtr-pre-miR-202-2</i> [MI0004861]<br>CUCGCGUUCUUUUUCCUAUGC<br>AUAUACCUCUUUGAAAAAUGAAUG<br>UAAAGGGGCAUAGGGCAUGGGAA<br>AAUGGCGCAGCUGAGCC                     |    | 2 <sup>nd</sup> intron, scaffold_305.41 | - , AS              | 3' | [HG] Xentr3/scaffold_305:962832-976112<br>[SL] Xentr3/scaffold_305:971212-971298     | 87  |
|                     | <i>xtr-pre-miR-202-2</i> [MI0004861]<br>CUCGCGUUCUUUUUCCUAUGC<br>AUAUACCUCUUUGAAAAAUGAAUG<br>UAAAGGGGCAUAGGGCAUGGGAA<br>AAUGGCGCAGCUGAGCC                     |    |                                         |                     |    |                                                                                      |     |
| <i>xtr-miR-202*</i> | UUUCCUAUGCAUUAUACCUCUUU                                                                                                                                       | 22 | 1 <sup>st</sup> intron, scaffold_305.41 | +, AS               | 5' | [HG] Xentr3/scaffold_305:962832-976112<br>[SL] Xentr3/scaffold_305:963485-963571     | 66  |
|                     | <i>xtr-pre-miR-202-1</i> [MI0004860]<br>CUCGCGUUCUUUUUCCUAUGC<br>AUAUACCUCUUUGAAAAAUGAAUG<br>UAAAGGGGCAUAGGGCAUGGGAA<br>AAUGGCGCAGCUGAGCC                     |    |                                         |                     |    |                                                                                      |     |
|                     | <i>xtr-pre-miR-202-2</i> [MI0004861]<br>CUCGCGUUCUUUUUCCUAUGC<br>AUAUACCUCUUUGAAAAAUGAAUG<br>UAAAGGGGCAUAGGGCAUGGGAA<br>AAUGGCGCAGCUGAGCC                     |    | 2 <sup>nd</sup> intron, scaffold_305.41 | +, AS               | 5' | [HG] Xentr3/scaffold_305:962832-976112<br>[SL] Xentr3/scaffold_305:971212-971298     | 66  |
|                     | <i>xtr-pre-miR-202-2</i> [MI0004861]<br>CUCGCGUUCUUUUUCCUAUGC<br>AUAUACCUCUUUGAAAAAUGAAUG<br>UAAAGGGGCAUAGGGCAUGGGAA<br>AAUGGCGCAGCUGAGCC                     |    |                                         |                     |    |                                                                                      |     |
| <i>xtr-miR-204</i>  | UUCCCUUUGUCAUCCUAUGCCU                                                                                                                                        | 22 | 9 <sup>th</sup> intron, TRPM3           | +, S                | 5' | [HG] Xentr3/scaffold_577:121055-168313<br>[SL] Xentr3/scaffold_577:577:156785-156885 | 101 |
|                     | <i>xtr-pre-miR-204-1</i> [MI0004949]<br>GGACUUCGACAUUGUGACCCAU<br>GGGCUUCCCUUUGUCAUCCUAU<br>GCCUGAGAAUGCUGGAGAGGCA<br>GGGACAGCAAAGGGAUGCUCAG<br>AUGUUACCUCUUG |    |                                         |                     |    |                                                                                      |     |
|                     | <i>xtr-pre-miR-204-2</i> [MI0004948]<br>AUGUGACCUGUGGGCUUCCCUU<br>UGUCAUCCUAUGCCUGAGAAUUAU<br>AUGAAGGGGCGUGGGAAGGCAA<br>AGGGACGUUCAGUUGUCAUCA                 |    | 2 <sup>nd</sup> intron, scaffold_834.5  | - , AS              | 5' | [HG] Xentr3/scaffold_834:173344-191289<br>[SL] Xentr3/scaffold_834:180599-180686     | 88  |
|                     | <i>xtr-pre-miR-204-2</i> [MI0004948]<br>AUGUGACCUGUGGGCUUCCCUU<br>UGUCAUCCUAUGCCUGAGAAUUAU<br>AUGAAGGGGCGUGGGAAGGCAA<br>AGGGACGUUCAGUUGUCAUCA                 |    |                                         |                     |    |                                                                                      |     |
| <i>xtr-miR-206</i>  | UGGA AUGUAAGGAAGUGUGUGG                                                                                                                                       | 22 | 1 <sup>st</sup> intron, scaffold_55.54  | W / EST/ NB<br>+, S | 3' | [HG] Xentr3/scaffold_55:1828838-1831293<br>[SL]Xentr3/scaffold_55:1830036-1830101    | 66  |
|                     | <i>xtr-pre-miR-206</i> [MI0004863]<br>UCACAUGCUUCUUUAUUAUACCCA<br>UAUGAACUACAUUGUUUAUGGAU<br>GUAAGGAAGUGUGUGGCUUC                                             |    |                                         |                     |    |                                                                                      |     |

|                    |                                                                                                                                                                   |    |                                       |         |       |    |                                                                                                                               |     |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---------------------------------------|---------|-------|----|-------------------------------------------------------------------------------------------------------------------------------|-----|
| <i>xtr-miR-208</i> | AUAAGACGAGCAUAAAGCUUGU                                                                                                                                            | 22 | 39 <sup>th</sup> intron, MHC7         |         | +, S  | 3' | [HG] Xentr3/scaffold_53:36133-103553<br>[SL] Xentr3/scaffold_53:98651-98734                                                   | 84  |
|                    | <i>xtr-pre-miR-208</i> [MI0004951]<br>CUUUCACAGGCAAGCUUUUUG<br>CUUGGAUUUUGUUUCUGUUUG<br>UGUAUAAAGACGAGCAUAAAGCU<br>UGUUUGUUAGAAGGCUGU                             |    |                                       |         |       |    |                                                                                                                               |     |
| <i>xtr-miR-210</i> | CUGUGCGUGUGACAGCGGCUAA                                                                                                                                            | 22 | 2 <sup>nd</sup> exon, scaffold_568.14 | W / EST | +, S  | 3' | [HG] GENSCAN0000086947<br>[HG] Xentr3/scaffold_568:303135-304649<br>[SL] Xentr3/scaffold_568:304583-304673                    | 91  |
|                    | <i>xtr-pre-miR-210</i> [MI0004864]<br>UCCAGAUUCAGGUCAGCCACUG<br>ACUACGCACAUUGCGCUGCUC<br>CUAAAUGCCACUGUGCGUGUG<br>ACAGCGGCUAACAGCAUCUAG<br>GAA                    |    |                                       |         |       |    |                                                                                                                               |     |
| <i>xtr-miR-213</i> | ACCAUCGAUCGUUGACUGUAC<br>[Actual it's miR-181a*]                                                                                                                  |    |                                       |         |       |    |                                                                                                                               |     |
| <i>xtr-miR-214</i> | ACAGCAGGCACAGACAGGCAG                                                                                                                                             | 21 | 12 <sup>th</sup> intron, DNM1         |         | +, AS | 3' | [HG] Xentr3/scaffold_74:752833-883011<br>[SL] Xentr3/scaffold_74:838162-838267                                                | 106 |
|                    | <i>xtr-pre-miR-214</i> [MI0004867]<br>UGGCUGGAAGGAGUUGUCAUGU<br>GUCUGCCUGUCUACACUUGCUG<br>UGCAGAACAUCCUCUACCCUGU<br>ACAGCAGGCACAGACAGGCAGU<br>CACAUAGACAACCCAGCCU |    |                                       |         |       |    |                                                                                                                               |     |
| <i>xtr-miR-215</i> | AUGACCUAUGAAAUGACAGCC                                                                                                                                             | 21 | 12 <sup>th</sup> intron, FLJ10326     |         | -, AS | 5' | mitochondrial isoleucine tRNA synthetas<br>[HG] Xentr3/scaffold_39:2632701-2664075<br>[SL] Xentr3/scaffold_39:2647003-2647098 | 96  |
|                    | <i>xtr-pre-miR-215</i> [MI0004868]<br>ACUGGUAAACAGGAGGAUGACC<br>UAUGAAAUGACAGCCACUCCCA<br>UACCAAACAUGUCUGUCAUUUC<br>UGUAGGCCAAUAUUCUGAUUUGC<br>UUUGUUGA           |    |                                       |         |       |    |                                                                                                                               |     |
| <i>xtr-miR-217</i> | UACUGCAUCAGGAACUGAUUGGAU                                                                                                                                          | 24 | 5 <sup>th</sup> intron, EFEMP1        |         | -, S  | 5' | [HG] Xentr3/scaffold_392:404702-542364<br>[SL] Xentr3/scaffold_392:470688-470770                                              | 83  |
|                    | <i>xtr-pre-miR-217</i> [MI0004870]<br>UUGAUGUUGUAGAUACUGCAUCAG<br>GAACUGAUUGGAUCCCAGGGAGCA<br>GCCAUCAGUUCCUAAUGCACUGCC<br>UUCGGCAUCUA                             |    |                                       |         |       |    |                                                                                                                               |     |
|                    |                                                                                                                                                                   |    | 4 <sup>th</sup> exon,scaffold_392.20  |         | +, AS | 5' | [HG] Xentr3/scaffold_392:449139-480370<br>[SL] Xentr3/scaffold_392:470673-470793                                              | 83  |
|                    | <i>xtr-pre-miR-217</i> [MI0004870]<br>UUGAUGUUGUAGAUACUGCAUCAG<br>GAACUGAUUGGAUCCCAGGGAGCA<br>GCCAUCAGUUCCUAAUGCACUGCC<br>UUCGGCAUCUA                             |    |                                       |         |       |    |                                                                                                                               |     |
| <i>xtr-miR-218</i> | UUGUGCUUGAUCUAACCAUGU                                                                                                                                             | 21 | 12 <sup>th</sup> intron, SLIT2        |         | -, S  | 5' | [HG] Xentr3/scaffold_54:1937198-20009842<br>[SL] Xentr3/scaffold_54:1969885-1969987                                           | 103 |
|                    | <i>xtr-pre-miR-218-1</i> [MI0004871]<br>UGGUAACAAGGCGAGAUUUUCUG                                                                                                   |    |                                       |         |       |    |                                                                                                                               |     |

|                    |                                                                                                                                                                  |    |                                                |        |       |                                                                                     |                                                                              |    |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------------------------|--------|-------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----|
|                    | UUGUGCUUGAUCUAACCAUGUGG<br>UUGUGAGGUAUGAGUAAAACAUG<br>GUUCUGUCAAGCACCAUGGAACG<br>UCACGCAGCUU                                                                     |    | 10 <sup>th</sup> intron, SLIT3, scaffold_54.59 | - , S  | 5'    | [HG] Xentr3/scaffold_54:1936608-1997243<br>[SL] Xentr3/scaffold_54: 1969885-1969987 | 103                                                                          |    |
|                    | <i>xtr-pre-miR-218-1</i> [MI0004871]<br>UGGUAAACAAGGCGAGAUUUUCUG<br>UUGUGCUUGAUCUAACCAUGUGG<br>UUGUGAGGUAUGAGUAAAACAUG<br>GUUCUGUCAAGCACCAUGGAACG<br>UCACGCAGCUU |    | 10 <sup>th</sup> intron, SLIT3, scaffold_350   | - , S  | 5'    | [HG] Xentr3/scaffold_350:245972-347083<br>[SL] Xentr3/scaffold_350:287358-287441    | 84                                                                           |    |
|                    | <i>xtr-pre-miR-218-2</i> [MI0004872]<br>GGGGUUUCCUUUGUGCUUGAUC<br>UAACCAUGUGGUAGAACAUAUACA<br>AUUGAACAUUGGUUCUGUCAAGCA<br>CCAUGGAAGGCCAC                         |    |                                                |        |       |                                                                                     |                                                                              |    |
| <i>xtr-miR-221</i> | AGCUACAUGUCUGCGGGUUUC                                                                                                                                            | 23 | intergenic                                     | +      | 3'    | [SL] Xentr3/scaffold_143:2026913-2027005                                            | 93                                                                           |    |
|                    | <i>xtr-pre-miR-221</i> [MI0004953]<br>ACCCAGACUUUGGCGUGCACCUG<br>GCAUACAAUGUAGAAAAUCUGUU<br>UGCAAAGCAACAGCUACAUGUCU<br>GCUGGGUUUCAUGCUGAAUGGA                    |    |                                                |        |       |                                                                                     |                                                                              |    |
| <i>xtr-miR-222</i> | AGCUACAUCUGGCUACUGGGUCUC                                                                                                                                         | 24 | 3 <sup>rd</sup> exon, scaffold_143.84          | +, S   | 3'    | [HG] Ensembl GENSCAN00000075366<br>[SL] Xentr3/scaffold_143:2026405-2026468         | 64                                                                           |    |
|                    | <i>xtr-pre-miR-222</i> [MI0004874]<br>CGCUCAGUAAUCAGUGUAGAUCU<br>GUUAUUCUGUCAGCAGCUACAUCU<br>GGCUACUGGGUCUCUA                                                    |    |                                                |        |       |                                                                                     |                                                                              |    |
| <i>xtr-miR-301</i> | CAGUGCAAUAGUAUUGUCAAAAGC                                                                                                                                         | 23 | 1 <sup>st</sup> intron, protein ID 21682       | +, S   | 3'    | [HG] Xentr3/scaffold_56:581603-592757<br>[SL] Xentr3/scaffold_56:586438-586512      | 75                                                                           |    |
|                    | <i>xtr-pre-miR-301-1</i> [MI0004876]<br>UGUGCUCUGACUUUAUUGCACUA<br>CUGUACUAUACAGCUAGCAGUGC<br>AAUAGUAUUGUCAAAAGCAUCUGC<br>AAGCAG                                 |    | 5 <sup>th</sup> intron, scaffold_56.21         | +, AS  | 3'    | [HG] Xentr3/scaffold_56:580992-603446<br>[SL] Xentr3/scaffold_56:586438-586512      | 75                                                                           |    |
|                    | <i>xtr-pre-miR-301-1</i> [MI0004876]<br>UGUGCUCUGACUUUAUUGCACUA<br>CUGUACUAUACAGCUAGCAGUGC<br>AAUAGUAUUGUCAAAAGCAUCUGC<br>AAGCAG                                 |    | 4 <sup>th</sup> intron, scaffold_118.4         | W      | +, AS | 3'                                                                                  | [HG] Xentr3/scaffold_118:47845-63401<br>[SL] Xentr3/scaffold_118:60498-60567 | 70 |
|                    | <i>xtr-pre-miR-301-2</i> [MI0004877]<br>UUGCUCUGACAGUGUUGCACUAC<br>UGUGAUCUCAAUGAAGCAGUGC<br>AAUAGUAUUGUCAAAAGCAUUUC<br>AU                                       |    |                                                |        |       |                                                                                     |                                                                              |    |
| <i>xtr-miR-320</i> | AAAAGCUGGGUUGAGAGGUGA                                                                                                                                            | 21 | 3 <sup>rd</sup> intron, protein ID 40451       | - , AS | 3'    | [HG] Xentr3/scaffold_464:346312-449746<br>[SL] Xentr3/scaffold_464:407380-407499    | 120                                                                          |    |

|                                                                                                                                                                              |                            |    |                                         |     |       |    |                                                                                  |     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----|-----------------------------------------|-----|-------|----|----------------------------------------------------------------------------------|-----|
| <i>xtr-pre-miR-320</i> [MI0006266]<br>UUCCCCCUGCUAAGCAAUUAUGC<br>CAAUCAACUUAGUGCAAUCACACG<br>CUACAGUUGAUUGUAAUAAAGGAA<br>AAGCUGGGUUGAGAGGUGACAUGA<br>UUUGCUGGAGGUUAAAGUUACUG |                            |    | 1 <sup>st</sup> intron, scaffold_464.7  |     | -, AS | 3' | [HG] Xentr3/scaffold_464:346312-414045<br>[SL] Xentr3/scaffold_464:407380-407499 | 120 |
| <i>xtr-pre-miR-320</i> [MI0006266]<br>UUCCCCCUGCUAAGCAAUUAUGC<br>CAAUCAACUUAGUGCAAUCACACG<br>CUACAGUUGAUUGUAAUAAAGGAA<br>AAGCUGGGUUGAGAGGUGACAUGA<br>UUUGCUGGAGGUUAAAGUUACUG |                            |    |                                         |     |       |    |                                                                                  |     |
| <i>xtr-miR-338</i>                                                                                                                                                           | UCCAGCAUCAGUGAUUUUGUUGG 23 |    | 8 <sup>th</sup> intron, AATK            |     | +, S  | 3' | [HG] Xentr3/scaffold_413:136316-170698<br>[SL] Xentr3/scaffold_413:153859-153934 | 76  |
| <i>xtr-pre-miR-338-1</i> [MI0004906]<br>GUCCCCUGGAACAAUUAUCCUGAU<br>GCUGAAUGAGUGGGACAUAACAUG<br>CUCCAGCAUCAGUGAUUUUGUUG<br>CAGGCGG                                           |                            |    | 8 <sup>th</sup> intron, LMTK2           |     | -, S  | 3' | [HG] Xentr3/scaffold_6:2104826-2126402<br>[SL] Xentr3/scaffold_6:2114151-2114218 | 68  |
| <i>xtr-pre-miR-338-2</i> [MI0004954]<br>UGGCAACAAUUAUCCUGAUGCCGUC<br>UGAGUGUGCGGGAAAGCUCACAGCA<br>UCAGUGAUUUUGUUGGUGGU                                                       |                            |    |                                         |     |       |    |                                                                                  |     |
| <i>xtr-miR-363-3p</i>                                                                                                                                                        | CGGGUGGAUCACGAUGCAAUUU 22  |    | 2 <sup>nd</sup> intron, At4g26580       |     | +, S  | 3' | [HG] Xentr3/scaffold_212:655826-689693<br>[SL] Xentr3/scaffold_212:657279-657358 | 80  |
| <i>xtr-pre-miR-363</i> [MI0004955]<br>UGUUGUUCGCGGGUGGAUCACGAU<br>GCAAUUUUUUAUUUAGUUUGGUAGGA<br>GAAAAAUUGCACGGUAUCCAUCUG<br>UAAACCGC                                         |                            | 22 | 3 <sup>rd</sup> intron, scaffold_212.20 | EST | -, AS | 3' | [HG] Xentr3/scaffold_212:650301-691954<br>[SL] Xentr3/scaffold_212:657279-657356 | 78  |
| <i>xtr-pre-miR-363</i> [MI0004955]<br>UGUUGUUCGCGGGUGGAUCACGAU<br>GCAAUUUUUUAUUUAGUUUGGUAGGA<br>GAAAAAUUGCACGGUAUCCAUCUG<br>UAAACCGC                                         |                            |    |                                         |     |       |    |                                                                                  |     |
| <i>xtr-miR-363-5p</i>                                                                                                                                                        | AAUUGCACGGUAUCCAUCUGUA 22  |    | 2 <sup>nd</sup> intron, At4g26580       |     | +, S  | 5' | [HG] Xentr3/scaffold_212:655826-689693<br>[SL] Xentr3/scaffold_212:657279-657356 | 78  |
| <i>xtr-pre-miR-363</i> [MI0004955]<br>UGUUGUUCGCGGGUGGAUCACGAU<br>GCAAUUUUUUAUUUAGUUUGGUAGGA<br>GAAAAAUUGCACGGUAUCCAUCUG<br>UAAACCGC                                         |                            |    | 3 <sup>rd</sup> intron, scaffold_212.20 |     | -, AS | 5' | [HG] Xentr3/scaffold_212:650301-691954<br>[SL] Xentr3/scaffold_212:657279-657356 | 78  |
| <i>xtr-pre-miR-363</i> [MI0004955]<br>UGUUGUUCGCGGGUGGAUCACGAU<br>GCAAUUUUUUAUUUAGUUUGGUAGGA<br>GAAAAAUUGCACGGUAUCCAUCUG                                                     |                            |    |                                         |     |       |    |                                                                                  |     |

|                                 |                                                                                                                                                                 |    |                                         |              |   |    |    |                                                                                  |         |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------------------------------------|--------------|---|----|----|----------------------------------------------------------------------------------|---------|
|                                 | UAAACCGC                                                                                                                                                        |    |                                         |              |   |    |    |                                                                                  |         |
| <i>xtr-miR-365</i>              | UAAUGCCCCUAAAAUCCUUAU<br><br><i>xtr-pre-miR-365-1</i> [MI0004879]<br>AGGGACUUUUGGGGGCAGAUGUG<br>UUUCACUUACACUACCAUAAUGCC<br>CCUAAAAUCCUUUAUUGUUCUUG             | 22 | 4 <sup>th</sup> exon, protein ID 25766  |              | + | S  | 5' | [HG] Xentr3/scaffold_113:291816-358369<br>[SL] Xentr3/scaffold_113:358208-358294 | 70      |
| <i>xtr-miR-375</i>              | UUUGUUCGUUCGGCUCGCGUUA<br><br><i>xtr-pre-miR-375</i> [MI0006267]<br>CCUGACGCCGAGCCUGACGUGCA<br>AUGCUUUGUGUCAACGUUUUGUU<br>CGUUCGGCUCGCGUUAAGCAGG<br>UG          | 22 | intergenic                              |              | - |    | 3' | [SL] Xentr3/scaffold_31: 2050343-2050273                                         | 70      |
| <i>xtr-miR-383</i>              | AGAUCAGAAGGUGAUUGUGGCU<br><br><i>xtr-pre-miR-383</i> [MI0004881]<br>CUCCUCAGAUAGAAGGUGAUUG<br>UGGCUUUUAGUAGAUUUUAGCA<br>GCCACAGCACUGCCUGGUCAGAA<br>AGAG         | 22 | 1 <sup>st</sup> intron, protein ID38533 |              | - | AS | 5' | [HG] Xentr3/scaffold_401:720555-797789<br>[SL] Xentr3/scaffold_401:733623-733695 | 73      |
|                                 |                                                                                                                                                                 |    | 1 <sup>st</sup> intron, scaffold_401.28 |              | - | AS | 5' | [HG] Xentr3/scaffold_401:730561-763241<br>[SL] Xentr3/scaffold_401:733623-733695 | 73      |
| <i>xtr-miR-427</i> <sup>f</sup> | clustered paralogs and their multiple stem-loops designated in [nSL]                                                                                            |    |                                         |              |   |    |    |                                                                                  |         |
| <i>xtr-miR-427-1</i>            | GAAAGUGCUUUCUGUUUUGGGCG                                                                                                                                         | 23 | [MI0006268]                             |              |   |    |    |                                                                                  |         |
|                                 | <i>xtr-pre-mir-427-1-1</i><br>AGCACCCAAAACGGGGCUCUCUC<br>UUGUGCAUGAAUUUUGGUGAGAA<br>AGUGCUUUCUGUUUUGGGCGUU                                                      |    | intergenic, 2 copies                    | W / EST / NB | - |    | 3' | [SL] Xentr3/Scaffold_27892: 22-521                                               | 68 each |
|                                 | <i>xtr-pre-miR-427-3</i> (cluster with <i>xtr-pre-miR-427-1-1</i> in this loci)<br>AGCACCCAAAACGGGGCUCUCUC<br>UUGUGUAUGAAUUUUGGUGAGAA<br>AGUGCUUUCUGUUUUGGGCGUU |    |                                         |              |   |    |    |                                                                                  |         |
|                                 | <i>xtr-pre-miR-427-1</i><br>AGCACCCAAAACGGGGCUCUCUC<br>UUGUGUAUGAAUUUUGGUGAGAA<br>AGUGCUUUCUGUUUUGGGCGUU                                                        |    | intergenic, 2 copies                    |              | - |    | 3' | [SL] Xentr3/Scaffold_15115: 644-4122                                             | 68 each |
|                                 | <i>xtr-pre-miR-427-1-1</i><br>AGCACCCAAAACGGGGCUCUCUC<br>UUGUGCAUGAAUUUUGGUGAGAA<br>AGUGCUUUCUGUUUUGGGCGUU                                                      |    |                                         |              |   |    |    |                                                                                  |         |
|                                 | <i>xtr-pre-miR-427-1-1</i><br>AGCACCCAAAACGGGGCUCUCUC<br>UUGUGCAUGAAUUUUGGUGAGAA<br>AGUGCUUUCUGUUUUGGGCGUU                                                      |    | intergenic, 2 copies                    |              | + |    | 3' | [SL] Xentr3/Scaffold_15115: 644-4122                                             | 68 each |

*xtr-pre-miR-427-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGUAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

intergenic, 3 copies

+

3'

[SL] Xentr3/Scaffold\_10775: 644-4122

68 each

*xtr-pre-miR-427-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGUAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-mir-427-1-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGCAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGUAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

intergenic, 2 copies

-

3'

[SL] Xentr3/Scaffold\_7619: 374-8925

68 each

*xtr-pre-miR-427-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGUAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGCAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

intronic, 6 copies

-

3'

[SL] Xentr3/Scaffold\_6976: 181-6583

68 each

*xtr-pre-miR-427-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGUAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGCAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGCAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGUAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGCAUGAAUUAUGGUGAGAA

AGUGCUUUCUGUUUUUGGGCGUU

*xtr-pre-miR-427-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGUAUGAAUUUAUGGUGAGAA  
AGUGCUUUCUGUUUUUGGGCGUU

intergenic, 5 copies

-

3'

[SL] Xentr3/Scaffold\_3248: 399-35800

68 each

*xtr-pre-miR-427-1-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGCAUGAAUUUAUGGUGAGAA  
AGUGCUUUCUGUUUUUGGGCGUU

*xtr-pre-mir-427-1-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGCAUGAAUUUAUGGUGAGAA  
AGUGCUUUCUGUUUUUGGGCGUU

*xtr-pre-miR-427-1-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGCAUGAAUUUAUGGUGAGAA  
AGUGCUUUCUGUUUUUGGGCGUU

*xtr-pre-miR-427-1-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGCAUGAAUUUAUGGUGAGAA  
AGUGCUUUCUGUUUUUGGGCGUU

*xtr-pre-miR-427-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGUAUGAAUUUAUGGUGAGAA  
AGUGCUUUCUGUUUUUGGGCGUU

9 copies, cross over  
scaffold\_7300.1

+

3'

[SL] Xentr3/Scaffold\_7300: 195-6158

68 each

*xtr-pre-miR-427-1-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGCAUGAAUUUAUGGUGAGAA  
AGUGCUUUCUGUUUUUGGGCGUU

*xtr-pre-miR-427-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGUAUGAAUUUAUGGUGAGAA  
AGUGCUUUCUGUUUUUGGGCGUU

*xtr-pre-miR-427-1-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGCAUGAAUUUAUGGUGAGAA  
AGUGCUUUCUGUUUUUGGGCGUU

*xtr-pre-miR-427-1-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGCAUGAAUUUAUGGUGAGAA  
AGUGCUUUCUGUUUUUGGGCGUU

*xtr-pre-miR-427-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGUAUGAAUUUAUGGUGAGAA  
AGUGCUUUCUGUUUUUGGGCGUU

*xtr-pre-miR-427-1-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGCAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGUAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGUAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGUAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

8 copies, cross over  
protein ID: 46083

+

3'

[SL] Xentr3/Scaffold\_712: 420-157371

68 each

*xtr-pre-miR-427-1-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGCAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGCAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGUAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-mir-427-1-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGCAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGUAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGCAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-mir-427-1-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGCAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1*  
AGCACCCAAAACGGGGCUCUCUC

UUGUGUAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGUAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

intergenic

+

3'

[SL] Xentr3/Scaffold\_9534: 765-832

68

15 copies, cross over  
scaffold\_701.8

+

3'

[SL] Xentr3/Scaffold\_701: 567396-671385

68 each

*xtr-pre-miR-427-1-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGCAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGUAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-mir-427-1-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGCAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGUAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGUAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGCAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGUAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGCAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGUAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGUAUGAAUUAUGGUGAGAA

AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-mir-427-1-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGCAUGAAUUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGUAUGAAUUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGUAUGAAUUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-mir-427-1-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGCAUGAAUUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGUAUGAAUUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1-1c*  
AGCACCGAAAACGGGGCUCUCUC  
UUGUGUAUGAAUUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

intergenic, 22 copies

+

3'

[SL] Xentr3/Scaffold\_1585: 72144-112697 68 each

*xtr-pre-miR-427-1-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGCAUGAAUUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGUAUGAAUUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGCAUGAAUUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGCAUGAAUUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1*

AGCACCCAAAACGGGGCUCUCUC  
UUGUGUAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1-1*

AGCACCCAAAACGGGGCUCUCUC  
UUGUGCAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1*

AGCACCCAAAACGGGGCUCUCUC  
UUGUGUAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1*

AGCACCCAAAACGGGGCUCUCUC  
UUGUGUAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1-1*

AGCACCCAAAACGGGGCUCUCUC  
UUGUGCAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1*

AGCACCCAAAACGGGGCUCUCUC  
UUGUGUAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-mir-427-1-1*

AGCACCCAAAACGGGGCUCUCUC  
UUGUGCAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1*

AGCACCCAAAACGGGGCUCUCUC  
UUGUGUAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1*

AGCACCCAAAACGGGGCUCUCUC  
UUGUGUAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1-1*

AGCACCCAAAACGGGGCUCUCUC  
UUGUGCAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1-1*

AGCACCCAAAACGGGGCUCUCUC  
UUGUGCAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1-1*

AGCACCCAAAACGGGGCUCUCUC  
UUGUGCAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1*

AGCACCCAAAACGGGGCUCUCUC

UUGUGUAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGUAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGCAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGUAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGUAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-1-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGCAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

intergenic

+

3'

[SL] Xentr3/scaffold\_13026:162-229

68

*xtr-pre-miR-427-1-1*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGCAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-miR-427-2* GAAAGUGCUUUCUGUUUUGGACG 23

[M10006269]  
intergenic, 3 copies

-

3'

[SL] Xentr3/Scaffold\_18964: 756-2861

68 each

*xtr-pre-miR-427-1-1b* (icluster with *xtr-miR-427-2* in this loci)  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGCAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-pre-miR-427-2*  
UAGCACCCAAAACGGGGCUCUCU  
CUUGUGUAUGAAUUAUGGUGAGA  
AAGUGCUUUCUGUUUUGGACGU

*xtr-pre-miR-427b* (cluster with *xtr-miR-427-2* in this loci)  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGCAUGAAUUAUGGUGAGAA  
AGUGCUUUCUGUUUUGGGCGUU

*xtr-miR-427-3* GAAAGUGCUUUCUGCUUUGGGCG 23

[M10006270]  
intergenic

+

3'

[SL] Xentr3/Scaffold\_23416: 2330-2397

68

*xtr-pre-miR-427-3*  
AGCACCCAAAACGGGGCUCUCUC  
UUGUGUAUGAAUUAUGGUGAGAA

|                         |                                                                                                                                         |    |                                          |         |      |    |                                                                                    |    |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------------------|---------|------|----|------------------------------------------------------------------------------------|----|
| AGUGCUUUUCUGCUUUUGGCGUU |                                                                                                                                         |    |                                          |         |      |    |                                                                                    |    |
| <i>xtr-miR-428</i>      | UAAGUGCUCUCUAGUUCGGUUG                                                                                                                  | 22 | 1 <sup>st</sup> intron, Olr592           | W / EST | -, S | 3' | [HG] Xentr3/scaffold_1518:45133-74817<br>[SL] Xentr3/scaffold_1518:73286-73356     | 71 |
|                         | <i>xtr-pre-miR-428</i> [MI0004963]<br>CACGUCGGCCUAAUCUGGAGCCC<br>UGUCUCAUUGCAGCUGUGAGUA<br>AGUGCUCUCUAGUUCGGUUGCU<br>GAGUG              |    | 1 <sup>st</sup> intron, scaffold_1518.3  |         | -, S | 3' | [HG] Xentr3/scaffold_1518:45133-75903<br>[SL] Xentr3/scaffold_1518:73286-73356     |    |
|                         | <i>xtr-pre-miR-428</i> [MI0004963]<br>CACGUCGGCCUAAUCUGGAGCCC<br>UGUCUCAUUGCAGCUGUGAGUA<br>AGUGCUCUCUAGUUCGGUUGCU<br>GAGUG              |    |                                          |         |      |    |                                                                                    |    |
| <i>xtr-miR-429</i>      | UAAUACUGUCUGGUAUUGCCG                                                                                                                   | 21 | 3 <sup>rd</sup> intron, scaffold_1247.2  | W / EST | -    | 3' | [HG]Xentr3/scaffold_1247:27117-63074<br>[SL] Xentr3/scaffold_1247:57245-57314      | 70 |
|                         | <i>xtr-pre-miR-429</i> [MI0004956]<br>AAUGUCUUACCAAGACAAGGUUAG<br>AUCUAGUUACUCUCGUCUAAUAC<br>UGUCUGGUAUUGCCGUUGGUCA<br>CA               |    |                                          |         |      |    |                                                                                    |    |
| <i>xtr-miR-451</i>      | AAACCGUUAACAUACUGAGUUU                                                                                                                  | 23 | 3 <sup>rd</sup> intron, protein ID 21385 | EST     | +, S | 5' | [HG] Xentr3/scaffold_50:948650-1021481<br>[SL] Xentr3/scaffold_50:956021-956100    | 80 |
|                         | <i>xtr-pre-miR-451</i> [MI0004958]<br>ACCUGUAGAGUGGCAAUGAAACC<br>GUUACCAUACUGAGUUUAGUAA<br>UGGUAAGGGUUCUGUUGCUGCU<br>CUUCCAUUCGCC       |    | 3 <sup>rd</sup> intron, scaffold_50.32   |         | +, S | 5' | [HG] Xentr3/scaffold_50:948650-983438<br>[SL] Xentr3/scaffold_50:956018-956108     | 91 |
|                         | <i>xtr-pre-miR-451</i> [MI0004958]<br>ACCUGUAGAGUGGCAAUGAAACC<br>GUUACCAUACUGAGUUUAGUAA<br>UGGUAAGGGUUCUGUUGCUGCU<br>CUUCCAUUCGCC       |    |                                          |         |      |    |                                                                                    |    |
| <i>xtr-miR-455</i>      | UAUGUGCCCUUGGACUACAUCG                                                                                                                  | 22 | 10 <sup>th</sup> intron, collagen        |         | -, S | 5' | [HG] Xentr3/scaffold_82:1681107-1854304<br>[SL] Xentr3/scaffold_82:1807126-1807211 | 86 |
|                         | <i>xtr-pre-miR-455</i> [MI0004883]<br>UCCUGGCGUGAGGGUAUGUGCC<br>CUUGGACUACAUCUGGGAAGCCA<br>GCACCAUGCAGUCCAUGGGCAUA<br>UACACUUGCCUCAAGGU |    |                                          |         |      |    |                                                                                    |    |
| <i>xtr-miR-499</i>      | UUAAGACUUGCAGUGAUGUUUAA                                                                                                                 | 23 | 19 <sup>th</sup> intron, MYH7B           |         | -, S | 5' | [HG] Xentr3/scaffold_35:3144825-3193098<br>[SL] Xentr3/scaffold_35:3172859-3172945 | 87 |
|                         | <i>xtr-pre-miR-499</i> [MI0004885]<br>GUGAGAGCGAGGCAGUUAAGACU<br>UGCAGUGAUGUUUAGUAAAAUC<br>UUUUCAUGAACAUCACUUUAAGU<br>CUGUACUGCUUCUCCUC |    |                                          |         |      |    |                                                                                    |    |

<sup>a</sup> xtr-pre-miR-xxx indicates predicted *X. tropicalis* pre-miRNA sequences in this study, miRBase accession ID was also provided except the new miRNAs xtr-miR-147 and xtr-miR-181a-2\* predicted in this study. The same mature miRNA and pre-miRNA sequences were omitted if their scaffold number and stem-loop sequences [SL] were identical.

<sup>b</sup> Genomic context of identified *X. tropicalis* miRNAs. Intronic and exonic miRNAs located in known protein coding genes are indicated and miRNAs located in unknown coding sequences designated by their scaffold position.

<sup>c</sup> NB indicates miRNAs confirmed by Northern blot analysis in this study. W indicates previously identified *X. laevis* miRNAs identified by Northern blot analysis (Watanabe et al., 2005). EST indicates pre-miRNA sequence found in EST database.

<sup>d</sup> + and – indicate DNA chromosome coding strands. S and AS indicate miRNA location on sense and antisense strands of the miRNA host gene.

<sup>e</sup> Specific arm of the folded pre-miRNA hairpin stem possessing the identified miRNA.

<sup>f</sup> Complete miRBase registry of xtr-miR-427 is temporally pending.

**Supplemental Table 3. *Xenopus tropicalis* ESTs Encoding Identified Pre-miRNAs**

| miRNA                | Expressed Transcripts [GB#]   |                                                                                    | miRNA                 | Expressed Transcripts [GB#] |                                       |
|----------------------|-------------------------------|------------------------------------------------------------------------------------|-----------------------|-----------------------------|---------------------------------------|
|                      | unspliced EST <sup>a, c</sup> | spliced EST (intronless) <sup>b</sup>                                              |                       | unspliced EST <sup>a</sup>  | spliced EST (intronless) <sup>b</sup> |
| <i>xtr-let-7a</i>    | CX888263, CR569094            |                                                                                    | <i>xtr-miR-25</i>     | CR855766(R), BC067307(R)    |                                       |
| <i>xtr-let-7c</i>    | CX512257, CX411341            |                                                                                    | <i>xtr-miR-26</i>     | BC076658(R), CX911588       |                                       |
| <i>xtr-let-7f</i>    | CX903192, CR896445            |                                                                                    | <i>xtr-miR-29c</i>    | DN054320(R), DN048745(R)    |                                       |
| <i>xtr-let-7g</i>    | BC074675(R), CR761982(R)      |                                                                                    | <i>xtr-miR-30c</i>    | CR848293(R), BC063353(R)    |                                       |
| <i>xtr-let-7i</i>    | DN045365, CF377927            | AL640862                                                                           | <i>xtr-miR-30e-5p</i> | CR848293(R), BC063353(R)    |                                       |
| <i>xtr-miR-1a</i>    | BC0603216, CF237705           | BJ612604(XL)                                                                       | <i>xtr-miR-30e-3p</i> | CR848293(R), BC063353(R)    |                                       |
| <i>xtr-miR-7</i>     | BC064170 (R), CR760855(R)     |                                                                                    | <i>xtr-miR-31</i>     | CV807014                    |                                       |
| <i>xtr-miR-9a</i>    | DN055215, AL639581            | CX341386, CN092137, CN092138<br>CN092227, CN080210, CN080209<br>CX341385, CX934876 | <i>xtr-miR-33a</i>    | CX937153, CX981559          |                                       |
| <i>xtr-miR-10a</i>   | DR881662, CX968954            |                                                                                    | <i>xtr-miR-34a</i>    | DT422827                    |                                       |
| <i>xtr-miR-10b</i>   | DT420704                      |                                                                                    | <i>xtr-miR-92a</i>    | C369955, CX464430           | AL639104, CX4373385                   |
| <i>xtr-miR-15b</i>   | AL798033, AI776548            | BJ627722(XL), BU909485(XL)                                                         | <i>xtr-miR-93a</i>    | CR855766(R), BC067307(R)    | BJ641506(XL)                          |
| <i>xtr-miR-16a</i>   | AL798033, AI776548            |                                                                                    | <i>xtr-miR-100</i>    | DN059696, DR882793          |                                       |
| <i>xtr-miR-17-5p</i> | CX369955, CX464430            | BJ641506(XL)                                                                       | <i>xtr-miR-101a</i>   | AI802764, DT433321          |                                       |
| <i>xtr-miR-17-3p</i> | CX369955, CX464430            |                                                                                    | <i>xtr-miR-103</i>    | CF378979, DN072343          |                                       |
| <i>xtr-miR-18a</i>   | CX369955, CX464430            |                                                                                    | <i>xtr-miR-106</i>    | CX369955, CX464430          | BJ641506(XL)                          |
| <i>xtr-miR-18a*</i>  | CX369955, CX464430            |                                                                                    | <i>xtr-miR-107</i>    | DN043938, DN046922          |                                       |
| <i>xtr-miR-19b</i>   | CX369955, CX464430            |                                                                                    | <i>xtr-miR-122</i>    | CX808343, BX696339          | DN032259                              |
| <i>xtr-miR-20a</i>   | CX369955, CX464430            |                                                                                    | <i>xtr-miR-124</i>    | CN097935, CN113428          |                                       |
| <i>xtr-mR-24a</i>    | AL894060, CX825993            | CX311639, CX847910, DT405452<br>DT405451, CX847909                                 | <i>xtr-miR-125a</i>   | DN059696, DR882793          |                                       |
|                      |                               |                                                                                    | <i>xtr-miR-125b</i>   | CX512257, DN052331          | DT403040                              |

|                       |                          |                                                                                           |                      |                       |                         |
|-----------------------|--------------------------|-------------------------------------------------------------------------------------------|----------------------|-----------------------|-------------------------|
| <i>xtr-miR-126*</i>   | BC063216(R), BC096055(R) |                                                                                           | <i>xtr-miR-181a</i>  | BX750032, AL7742601b  |                         |
| <i>xtr-miR-126</i>    | BC063216(R), BC096055(R) |                                                                                           | <i>xtr-miR-181b</i>  | AL630347, DC176023    | BX764862                |
| <i>xtr-miR-128</i>    | DN045862, CX902113       |                                                                                           | <i>xtr-miR-189</i>   |                       | CB560354(XL), CR589028  |
| <i>xtr-miR-129</i>    | CX8444404, CX902113      |                                                                                           | <i>xtr-miR-192</i>   | DN044495, CX367689    |                         |
| <i>xtr-miR-130a</i>   | CX823327, BX743148       |                                                                                           | <i>xtr-miR-196a</i>  | CR760047(R), CK653983 |                         |
| <i>xtr-miR-130b</i>   | CK655990, CR437554       |                                                                                           | <i>xtr-miR-199a</i>  | CX894721              |                         |
| <i>xtr-miR-132</i>    | DN052548, CX810865       |                                                                                           | <i>xtr-miR-199a*</i> |                       | CX894721                |
| <i>xtr-miR-133a</i>   | DN054273, AL594729       | CX334761, CF240396, CR412477<br>BJ047728 (XL), CX328227<br>CX314759, CF240396             | <i>xtr-miR-200b</i>  | AL972424              |                         |
| <i>xtr-miR-133b</i>   | DN040986, CX899668       | CF240396, CX334761,<br>CX328227, CX314759,<br>CD811161(XL), CB984099(XL),<br>BG018678(XL) | <i>xtr-miR-202</i>   | DN055513, CX328835    |                         |
| <i>xtr-miR-135</i>    | CX750474, BX732627       | CX808507, CX338913, CX338914                                                              | <i>xtr-miR-202</i>   | DN055513, CX328835    |                         |
| <i>xtr-miR-137</i>    | DT439153, DN049864       |                                                                                           | <i>xtr-miR-204</i>   | CV805598              |                         |
| <i>xtr-miR-138</i>    | DN052707, CX361581       |                                                                                           | <i>xtr-miR-206</i>   | DN050102, CF240396    | BJ612604(XL)            |
| <i>xtr-miR-139</i>    | CX811078, CX823384       |                                                                                           | <i>xtr-miR-210</i>   | CX422181, CF373885    | DR871766                |
| <i>xtr-miR-140</i>    | CX407439, DN075427       |                                                                                           | <i>xtr-miR-213</i>   |                       | BX750032, AL7742601b    |
| <i>xtr-miR-142-3p</i> | DN043852                 |                                                                                           | <i>xtr-miR-215</i>   | CR568949, CX820671    |                         |
| <i>xtr-miR-142-5p</i> | DN043852                 |                                                                                           | <i>xtr-miR-217</i>   | CX930025, CX798598    |                         |
| <i>xtr-miR-143</i>    | CX397493, CX967652       |                                                                                           | <i>xtr-miR-218</i>   | DN053524, AL644145    |                         |
| <i>xtr-miR-145</i>    | CX397493, CX967652       |                                                                                           | <i>xtr-miR-221</i>   | CX890050              |                         |
| <i>xtr-miR-147</i>    | CX936649, DN039497       |                                                                                           | <i>xtr-miR-222</i>   | CX890050              |                         |
| <i>xtr-miR-148a</i>   | DN044495                 |                                                                                           | <i>xtr-miR-301</i>   | CX823327, BX743148    |                         |
| <i>xtr-miR-148b</i>   | BC064149(R), CR760836(R) |                                                                                           | <i>xtr-miR-320</i>   | CX828637, CN102912    |                         |
| <i>xtr-miR-153</i>    | DT443856, CX822049       |                                                                                           | <i>xtr-miR-338</i>   | DT422580, DN056294    |                         |
| <i>xtr-miR-155</i>    | DN043898                 |                                                                                           | <i>xtr-miR-363</i>   | DT432609,             | CX473385, BJ641506 (XL) |
|                       |                          |                                                                                           | <i>xtr-miR-365</i>   | DN054982, CX971711    |                         |
|                       |                          |                                                                                           | <i>xtr-miR-375</i>   | DN040531, CX965169    |                         |
|                       |                          |                                                                                           | <i>xtr-miR-383</i>   | DN053138, CV805834    |                         |

|                                 |                                                                                                                              |                    |                    |                                          |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|------------------------------------------|
| <i>xtr-miR-427</i> <sup>c</sup> | AL649420, CX476477, AL635126<br>CX488033, CX465899, CX426393<br>CX426392, AL653023, BX753425<br>CX513008, CX513009, CX490705 | <i>xtr-miR-429</i> | AL972424           | DR877307, DN037816, DR877306<br>CX360878 |
| <i>xtr-miR-428</i>              | AL594612                                                                                                                     | <i>xtr-miR-451</i> |                    | DT444179, DT444180, CX372718<br>CX372719 |
|                                 |                                                                                                                              | <i>xtr-miR-455</i> | CX326316, CX841044 |                                          |

<sup>a</sup> Mott, R. 1997. EST\_GENOME: a program to align spliced DNA sequences to unspliced genomic DNA. *Comput. Appl. Biosci.* **13**: 477-488.

<sup>b</sup> Weber, M. 2005. New human and mouse microRNA genes found by homology search. *FEBS J.* **272**: 59-73.

<sup>c</sup> Partial list of total ESTs.

GB# = Gene Bank Accession Numbers of ESTs.

(XL) indicates ESTs of *X. laevis*.

(R) indicates ESTs whose complementary strand encodes identified pre-miRNAs.

**Supplemental Table 4. Genomic Context of *Xenopus tropicalis* and Human MiRNA Homologs**

| miRNA              | miRNA sequence          | <i>Xenopus tropicalis</i>                                                                                                            | Human                                                      |
|--------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| <i>xtr-let-7a</i>  | UGAGGUAGUAGAUUGUAUAGUU  | intron 53, UREB1                                                                                                                     | intergenic                                                 |
| <i>xtr-let-7f</i>  | UGAGGUAGUAGAUUGUAUAGUU  | intron 6, UREB1<br>intron 58, scaffold_750.27                                                                                        | let-7f-1, intergenic<br>let-7f, intron143, 228, Q5H963     |
| <i>xtr-let-7i</i>  | UGAGGUAGUAGUUUGUCUGU    | intron 39, KIAA1040<br>intron 7, scaffold_11.113                                                                                     | intergenic                                                 |
| <i>xtr-miR-1a</i>  | UGGAAUGUAAAGAAGUAUGUA   | intron 1, scaffold_220.20<br>intron 13, MIB1,scaffold_549.13                                                                         | intron 2, 6, CT166_HUMAN                                   |
|                    | UGGAAUGUUAAGAAGUAUGUA   | intron 5, scaffold_977.12                                                                                                            |                                                            |
| <i>xtr-miR-7</i>   | UGGAAGACUAGUGAUUUUGUUG  | intron 5, scaffold_377.14<br>intron 12, HnrpK<br>intron 3, protein ID26824<br>intron 5, scaffold_130.67<br>intron 2, scaffold_433.15 | intron, 16, HNRPK                                          |
| <i>xtr-miR-10a</i> | UACCCUGUAGAUCCGAAUUUGUG | intergenic                                                                                                                           | intergenic                                                 |
| <i>xtr-miR-10b</i> | UACCCUGUAGAACCGAAUUUGU  | intergenic                                                                                                                           | intergenic                                                 |
| <i>xtr-miR-15a</i> | UAGCAGCACAUAAUGGUUUGUG  | intron 7, protein ID 44767<br>intron 1, RFP2 (Ensembl)                                                                               | intron 4, 11, 15, 27, 35 and 41,<br>exon 19, and 23, DLEU2 |
|                    |                         | intron 1,ENSXETG00000015683<br>intron 5,ENSXETG00000015688                                                                           |                                                            |
| <i>xtr-miR-15b</i> | UAGCAGCACAUCAUGAUUUUGCA | intron 4, SMC4L1,                                                                                                                    | intron 5, SMC4L                                            |
| <i>xtr-miR-16a</i> | UAGCAGCACGUAUUAUUGGUG   | intron 7, protein ID 44767                                                                                                           | intron 5, SMC4L                                            |
|                    | UAGCAGCACGUAUUAUUGGGU   | intron 4, SMC4L1                                                                                                                     |                                                            |
| <i>xtr-miR-25</i>  | CAUUGCACUUGUCUGGUCUGA   | intron 10, MCM7,                                                                                                                     | intron13, MCM7                                             |
| <i>xtr-miR-26</i>  | UUCAAGUAAUCCAGGAUAGGC   | intron 5, CTDSP2                                                                                                                     | intron13, CTDSPL                                           |

|                       |                         |                            |                                                               |
|-----------------------|-------------------------|----------------------------|---------------------------------------------------------------|
| <i>xtr-miR-30a-5p</i> | UGUAAACAUCCCCGACUGGAAG  | intergenic                 | intron 3, C6orf155-003                                        |
| <i>xtr-miR-30a-3p</i> | CUUUCAGUCAGAUGUUUGCUGC  |                            |                                                               |
| <i>xtr-miR-33a</i>    | GUGCAUUGUAGUUGCAUUG     | intron 13, SREBF1          | intron 16, SREBF2                                             |
| <i>xtr-miR-93a</i>    | AAAGUGCUGUUCGUGCAGGUAG  | intron 4, MCM7             |                                                               |
| <i>xtr-miR-101a</i>   | UACAGUACUGUGAUAAACUGAAG | intergenic                 | intergenic                                                    |
|                       |                         | intron 9, RCL1             | intron 8, 21, 26, 34, RCL1                                    |
| <i>xtr-miR-103</i>    | AGCAGCAUUGUACAGGGCUAUGA | intron 5, PANK3            | intron 5, PANK3                                               |
|                       |                         | intron 2, protein ID 62908 |                                                               |
|                       |                         | intron 5, PANK3            |                                                               |
|                       |                         | intron 6, scaffold_366.24  |                                                               |
|                       |                         | intron 6, scaffold_350.8   |                                                               |
| <i>xtr-miR-107</i>    | AGCAGCAUUGUACAGGGCUAUGA | intron 5, PANK1            | intron 4, 17, PANK1                                           |
| <i>xtr-miR-128</i>    | UCACAGUGAACCGGUCUCUUUU  | intron 13, R3DHM           | intron 4, R3DHM1                                              |
|                       |                         | intron 13, scaffold_13.102 |                                                               |
|                       |                         | intergenic                 |                                                               |
| <i>xtr-miR-133a</i>   | UUGGUCCCCUUAACAGCUGU    | intron 12, MIB1            | intron 12, MIB1                                               |
|                       |                         | intron 9, CR749635         |                                                               |
| <i>xtr-miR-133b</i>   | UUGGUCCCCUUAACAGCUA     | exon 2, scaffold_55.54     | intron 2, RP11-771D21.2                                       |
| <i>xtr-miR-133d</i>   | UUGGUCCCCUUAACAGCCGC    | intron 5, scaffold_977.12  |                                                               |
| <i>xtr-miR-140</i>    | AGUGGUUUUACCCUAUGGUAG   | intron 10, WWP2            | intron 15, 39, 64, WWP2                                       |
| <i>xtr-miR-146</i>    | UGAGAACUGAAUCCAUGGUU    | intron 6, Hs20127501       | intergenic                                                    |
| <i>xtr-miR-146a</i>   | UGAGAACUGAAUCCAUGGACU   | intron 6, C20orf116        |                                                               |
| <i>xtr-miR-153</i>    | UUGCAUAGUCACAAAAGUGA    | intron 5, PTPRN2           | intron 19, PTPRN                                              |
|                       |                         | intron 12, PTPRN2          |                                                               |
|                       |                         | intron 18, PTPRN2          |                                                               |
| <i>xtr-miR-194</i>    | UGUACAGCAACUCCAUGUGGA   | intron 12, FLJ10326        | intron 12, 17, IARS2                                          |
| <i>xtr-miR-199a</i>   | CCCAGUGUUCAGACUACCUGUUC | intron 12, DNMT1           |                                                               |
| <i>xtr-miR-199a*</i>  | UACAGUAGUCUGCACAUUGGUU  | intron12, DNMT1            | intron 15, 35, 55, 76, DNMT2                                  |
| <i>xtr-miR-204</i>    | UUCCCUUUGUCAUCCUAGCCU   | intron 2, scaffold_834.5   |                                                               |
|                       |                         | intron 9, TRPM3            | intron 6, 16, 42, 64, 95, 104, 110, 135, 139, 167, 190, TRPM3 |

|                    |                         |                                      |                                       |
|--------------------|-------------------------|--------------------------------------|---------------------------------------|
| <i>xtr-miR-208</i> | AUAAGACGAGCAAAAAGCUUGU  | intron 39, MHC7                      | intron 27, 64, 66, MYH6               |
| <i>xtr-miR-215</i> | AUGACCUAUGAAAUGACAGCC   | intron 12, FLJ10326                  | intron 12, 27, IARS2                  |
| <i>xtr-miR-218</i> | UUGUGCUUGAUCUAACCAUGU   | intron 12, SLIT2<br>intron 10, SLIT3 | intron 15, SLIT2                      |
| <i>xtr-miR-221</i> | AGCUACAUUGUCUGCGGGUUUC  | intergenic                           | intergenic                            |
| <i>xtr-miR-338</i> | UCCAGCAUCAGUGAUUUUGUUGG | intron 8, LMTK2<br>intron 8, AATK    | intron 7, Q6ZMQ8<br>intron 22, O75136 |
| <i>xtr-miR-499</i> | UUAAGACUUGCAGUGAUGUUUAA | intron 19, MYH7B                     | intron 62, MYH7B                      |