

A

Reference miR-9-1
 Pre-miR-9-1 CGGGGUUGGUUGUUAUCUUUGGUUAUCUAGCUGUAUGAGUGGUGUGGAGUCUUCAUAAAAGCUAGAUAAACCGAAAGUAAAAUAACCCCA
UCUUUGGUUAUCUAGCUGUAUG
UCUUUGGUUAUCUAGCUGUAU
UCUUUGGUUAUCUAGCUGUA

Reference miR-9-2
 Pre-miR-9-2 GGAAGCGAGUUGUUAUCUUUGGUUAUCUAGCUGUAUGAGUGUAUUGGUCUUCAUAAAAGCUAGAUAAACCGAAAGUAAAAACUCCUUCA
UCUUUGGUUAUCUAGCUGUAUG
UCUUUGGUUAUCUAGCUGUAU
UCUUUGGUUAUCUAGCUGUA

Reference miR-9
 Pre-mir-9-3 CCCGUUUCUCUCUUUGGUUAUCUAGCUGUAUGAAGUGCCACAGAGCCGUCAUAAAAGCUAGAUAAACCGAAAGUAGAAAUGACU
UCUUUGGUUAUCUAGCUGUAUG
UCUUUGGUUAUCUAGCUGUAU
UCUUUGGUUAUCUAGCUGUA

B

Reference miR-450a
 Pre-miR-450a GUCUGUCAAAAGAAAGAUGC^{UAAACUGG}UUUUGCGAUGUGUCCUAAUAUGCAGUAUAAAUAUAUUGGGAGCAUUUUGCAUGCAUGGUUUUGUAUCACUAUACAGAU
 UUUUGCGAUGUGUCCUAAUAU
UUUUGCGAUGUGUCCUAAUA
UUUUGCGAUGUGUCCUAAU

Reference miR-450c-5p
 Pre-miR-450c GGCACUAAACUAUUUUUGCGAUGUGUCCUAAUACGUAAUCUAAGUGUAUUGGGAACAUUUUGCAUUCGUAGUUUUGUGUC
 UUUUGCGAUGUGUCCUAAUAC
UUUUGCGAUGUGUCCUAAUA
UUUUGCGAUGUGUCCUAAU

C

Pre-let-7a

Reference let-7a
 CCCAGGUUGAGGUAGUAGGUUGUAUAGUUUAGAAUUGUAUCAAGGGAGAUAAACUGUACAGCCUCCUAGCUUUCCUUGGGU

UGAGGUAGUAGGUUGUAUAGUUUU
 UGAGGUAGUAGGUUGUAUAGUUU
 UGAGGUAGUAGGUUGUAUAGUU
 UGAGGUAGUAGGUUGUAUAGU
 UGAGGUAGUAGGUUGUAUAG
 UGAGGUAGUAGGUUGUAUA
UGAGGUAGUAGGUUGUAU

Pre-let-7c

Reference let-7c
 UGUGUGCAUCCGGGUUGAGGUAGUAGGUUGUAUGGUUUAGAGUUACACCGUGGGAGUUAACUGUACAACCUUCUAGCUUUCCUUGGAGCACACU

UGAGGUAGUAGGUUGUAUGGUUU
 UGAGGUAGUAGGUUGUAUGGUU
 UGAGGUAGUAGGUUGUAUGGU
 UGAGGUAGUAGGUUGUAUGG
 UGAGGUAGUAGGUUGUAUG
UGAGGUAGUAGGUUGUAU

D

Pre-miR-103

Reference miR-103
 CUUACUGCCCUCGGCUUCUUUACAGUGCUGCCUUGUUGCAUAUGGAUCAAGCAGCAUUGUACAGGGCUAUGAAGGCACUGAG

AGCAGCAUUGUACAGGGCUAUGAAA
 AGCAGCAUUGUACAGGGCUAUGAA
 AGCAGCAUUGUACAGGGCUAUGA
 AGCAGCAUUGUACAGGGCUAUG
AGCAGCAUUGUACAGGGCUAU
 CAGCAUUGUACAGGGCUAUGA

Pre-miR-107

Reference miR-107
 UUCUCUCUGCUUUCAGCUUCUUUACAGUGUUGCCUUGUGGCAUGGAGUUCAAGCAGCAUUGUACAGGGCUAUCAAAGCACAGAGAGC

AGCAGCAUUGUACAGGGCUAUCA
 AGCAGCAUUGUACAGGGCUAUC
AGCAGCAUUGUACAGGGCUAU

E

Pre-miR-23a

CGGCUGGGGUUCCUGGGGAUGGGAUUUGCUGCCUGUCACAAAUCACAUGCCAGGGAUUCCAAUCGACC

Reference miR-23a-3p

AUCACAUGCCAGGGAUUCCAAU
 AUCACAUGCCAGGGAUUCCAA
 AUCACAUGCCAGGGAUUCCA
 AUCACAUGCCAGGGAUUCC
 AUCACAUGCCAGGGAUUUC
 AUCACAUGCCAGGGAUUU
 AUCACAUGCCAGGGAUU

Pre-miR-23b

CUCUGGCUGCUUGGGUUCCUGGCAUGCUGAUUUGUGACUUAAGAUUAAAAUCACAUGCCAGGGAUUACCACGCAGCCAC

Reference miR-23b-3p

AUCACAUGCCAGGGAUUACCAC
 AUCACAUGCCAGGGAUUACCA
 AUCACAUGCCAGGGAUUACC
 AUCACAUGCCAGGGAUUAC
 AUCACAUGCCAGGGAUU

F

Pre-miR-27a

UGGCCUGGGGAGCAGGGCUUAGCUGCUUGUGAGCAGGUCCACAGCAAGUCGUGUUCACAGUGGCUAAGUCCGCCCCCUGGA

Reference miR-27a

UUCACAGUGGCUAAGUCCGCC
 UUCACAGUGGCUAAGUCCGC
 UUCACAGUGGCUAAGUCCG
 UUCACAGUGGCUAAGUCC
 UUCACAGUGGCUAAGUUC

Pre-miR-27b

ACGAGGUGCAGAGCUUAGCUGAUUGGUGAACAGUGACUGGUUUCGCUUUGUUCACAGUGGCUAAGUUCUGCACCUGAAG

Reference miR-27b

GUUCACAGUGGCUAAGUUCUGC
 UUCACAGUGGCUAAGUUCUGCAC
 UUCACAGUGGCUAAGUUCUGCA
 UUCACAGUGGCUAAGUUCUGC
 UUCACAGUGGCUAAGUUCUG
 UUCACAGUGGCUAAGUUCU
 UUCACAGUGGCUAAGUUC

G

Pre-mir-339-1

Reference miR-339-5p
 GCAGCCGCCGUCCUGUCCUCCAGGAGCUCACUUACCUUGGGCCGUGAGCUCUCGAGGCCAGAGCCCGUGUCUGCCUCU

UCCUGUCCUCCAGGAGCUCACU
UCCUGUCCUCCAGGAGCUCAC
UCCUGUCCUCCAGGAGCUCA

Pre-mir-339-2

Reference miR-339
 UAAGACAAGGUCCUGUCCUCCAGGAGCUCACUGGUCCAAUAGAAGCAUAUAUACAAUUGGCUCUGAGGGGAGAUCCCGCUGUGGCU

UCCUGUCCUCCAGGAGCUCAU
UCCUGUCCUCCAGGAGCUCA

H

Pre-miR-199a-2

Reference miR-199a-3p
 CCCCGCCAACCCAGUGUUCAGACUACCUGUUCAGGGGGCUCUGAAUGUGUACAGUAGUCUGCACAUUGGUUAAGGCUGGGC

UACAGUAGUCUGCACAUUGGUUA
UACAGUAGUCUGCACAUUGGUU
UACAGUAGUCUGCACAUUGGU
ACAGUAGUCUGCACAUUGGUUA
ACAGUAGUCUGCACAUUGGUU
ACAGUAGUCUGCACAUUGGU
CAGUAGUCUGCACAUUGGUUA
CAGUAGUCUGCACAUUGGUU

Pre-mir-199b

Reference miR-199b-3p
 CCGUCUACCCAGUGUUUAGACUAUCUGUUCAGGACUCCCAAUUGUACAGUAGUCUGCACAUUGGUUAGGCUGG

UACAGUAGUCUGCACAUUGGUUA
UACAGUAGUCUGCACAUUGGUU
UACAGUAGUCUGCACAUUGGU
ACAGUAGUCUGCACAUUGGUUA
ACAGUAGUCUGCACAUUGGUU
ACAGUAGUCUGCACAUUGGU
CAGUAGUCUGCACAUUGGUUA
CAGUAGUCUGCACAUUGGUU