

Supplementary Table S1. Sequences of mature miRNAs identified in Senegalese sole. The 48 miRNAs that had not been previously described in fish are highlighted in yellow.

miRNAs	Sequence
let-7a	UGAGGUAGUAGGUUGUAUAGUU
let-7b	UGAGGUAGUAGGUUGUGUGUU
let-7c	UGAGGUAGUAGGUUGUAUGUU
let-7d	UGAGGUAGUUGGUUGUAUGUU
let-7e	UGAGGUAGUAGAUUGAAUAGUU
let-7f	UGAGGUAGUAGAUUGUAUAGUU
let-7g	UGAGGUAGUAGUUUGUAUAGUU
let-7h	UGAGGUAGUAAGUUGUGUUGUU
let-7i	UGAGGUAGUAGUUUGUCUGUU
let-7j	UGAGGUAGUUGUUUGUACAGUU
miR-100	AACCCGUAGAUCCGAACUUGUG
miR-101a-3p	UACAGUACUGUGAUAACUGAAG
miR-101a-5p	UCAGUUAUCACAGUGCUGAUGC
miR-101b	UACAGUACUAUGAUAACUGAAG
miR-101b-5p	UCAGUUAUCAUGGUACCGGUGCU
miR-101c	ACAGUACUGUGAUAACUGA
miR-103a-3p	AGCAGCAUUGUACAGGGCUAUGA
miR-106a	UAAAGUGCUUACAGUGCAGGU
miR-107-3p	AGCAGCAUUGUACAGGGCUAUGA
miR-107b	AGCAGCAUUGUACAGGGCUUU
miR-107-5p	AGCUUCUUUACAGUGUUGCCUUG
miR-10a	UACCCUGUAGAUCCGAAUUUGUG
miR-10b	UACCCUGUAGAACCGAAUUUGUG
miR-10c	UACCCUGUAGAUCCGAAUUUGU
miR-10d	UACCCUGUAGAACCGAAUGUGUG
miR-1a-5p	ACAUACUUCUUUAUAUGCCCAUA

miR-1a-3p	UGGAAUGUAAAGAAGUAUGUAU
miR-1b	UGGAAUGUAAAGAAGUAUGGGU
miR-1c	UGGAAUGUAAAGAAGUAUGUAC
miR-122-3p	AACGCCAUUAUCACACUAA
miR-122-5p	UGGAGUGUGACAAUGGUGUUUG
miR-124-3p	UAAGGCACGCGGUGAAUGCCAA
miR-124b	UUAAGGCACGCAGUGAAUGCCA
miR-124-5p	CGUGUUCACAGCGGACCUUGAU
miR-1243	AACUGGAUCAAUUAUAGGAGUG
miR-125a	UCCCUGAGACCCUUAACCUUGUG
miR-125b-5p	UCCCUGAGACCCUAACUUGUGA
miR-125c	UCCCUGAGACCCUAACUUGUGAC
miR-126b	UCGUACCGUGAGUAAUAGUGCA
miR-126a-3p	UCGUACCGUGAGUAAUAAUGC
miR-126a-5p	CAUUAUUACUUUUGGUACGCG
miR-1260a	AUCCCACCUCUGCCACCA
miR-1260b	AUCCCACCACUGCCACCAU
miR-128	UCACAGUGAACCGGUCUCUUU
miR-129-5p	CUUUUUGCGGUCUGGGCUUGCU
miR-130a	CAGUGCAAUGUUAAAAGGGCAU
miR-130b-3p	CAGUGCAAUAAUGAAAGGGCAU
miR-130b-5p	ACUCUUUCCUGUUGCACUACU
miR-130c	CAGUGCAAUAAUAAAAGGGCAU
miR-132-3p	UACAGUCUACAGCCAUGGUCG
miR-133a-3p	UGGUCCCCUUAACCAGC
miR-133a-5p	AGCUGGUAAAUGGAACCAAUC
miR-133b-3p	UUUGGUCCCCUUAACCAGCUA
miR-133b-5p	GCUGGUCAAACGGAACCAAGUC
miR-133c	UUUGGUCCCCUUAACCAGCUA
miR-133d	UUGGUCCCCUUAACCAGCCGC

miR-135a	UAUGGCUUUUUUAUCCUAUGUGA
miR-135b	UAUGGCUUUUUUAUCCUAUCUG
miR-135c	UAUGGCUUUCUAUCCUAUGUG
miR-137a-3p	UUAUUGCUUAAGAAUACGCGUAG
mir-137b	UUAUUGCUUGAGAAUACGCGUA
miR-137a-5p	ACGGGUAUUCUUGGGUGGAUAAU
miR-138a	AGCUGGUGUUGUGAAUCAGGCCG
miR-138b	AGCUGGUGUUGUGAAUCAGGCUG
miR-1388-3p	AUCUCAGGUUCGUCAGCCCAUG
miR-1388-5p	AGGACUGUCCAACCUGAGAAUG
miR-139	UCUACAGUGCAUGUGUCUCCA
miR-140-5p	CAGUGGUUUUACCCUAUGGUAG
miR-141	UAACACUGUCUGGUAACGAUGC
miR-142	CCCAUAAAGUAGAAAGCACUAC
miR-142b	CAUAAAGUAGAAAGCACUACUA
miR-143-3p	UGAGAUGAAGCACUGUAGCUC
miR-143-5p	GGUGCAGUGCUGCAUCUCUGGU
miR-144-3p	UACAGUAUAGAUGAUGUACU
miR-144-5p	AGGAUAUCAUCUUAUACUGUAA
miR-145	GUCCAGUUUUCCCAGGAAUCCCU
miR-146a	UGAGAACUGAAUCCAUAGAUGG
miR-146b	UGAGAACUGAAUCCAUAGGCU
miR-147b	GUGUGCGGAAAUGCUUCUGC
miR-148	UCAGUGCAUUACAGAACUUU
miR-150	ACUCCCAAUCCUUGUACCAGU
miR-152-3p	UCAGUGCAUGACAGAACUUUGG
mir-152b	UCAGUGCAAACAGAACUUUG
mir-152-5p	UAGGUUCUGUGAUACACUCCGACU
miR-153a	UUGCAUAGUCACAAAAGUGAUC
miR-153b	UUGCAUAGUCACAAAAUGAGC

miR-153c	UUGCAUAGUCACAAAAAUGAUC
miR-155	UUAAUGC UAAUCGUGAUAGGGGU
miR-15a	UAGCAGCACGGAAUGGUUUGUG
miR-15b	UAGCAGCGCAUCAUGGUUUGUA
miR-1582	GAAAGAGAGCCAGAACACAG
miR-1599	GGAGGGAGGAAAAAAAAAAAA
miR-16a	UAGCAGCACGUAAAUAUUGGUG
miR-16b	UAGCAGCACGUAAAUAUUGGAG
miR-16c	UAGCAGCAUGUAAAUAUUGGAG
miR-1623	GCAGGCACAGACAGGCAGUA
miR-1692	UGUAGCUCAGUUGGUAGAGU
miR-17a-5p	CAAAGUGCUUACAGUGCAGGUA
miR-1788-5p	GGCUUGUUUUAAGUUGCCUGCG
miR-1788-3p	CAGGCAGCUAAAGCAAGUC
miR-1701	GGCUGGUUAGUUGGUUGUUU
miR-18a	UAAGGUGCAUCUAGUGCAGUA
miR-18b	UAAGGUGCAUCUAGUGCAGUUAG
miR-18c	UAAGGUGCAUCUUGUGUAGUUA
miR-181a-5p	AACAUUCAACGCUGUCGGUGAGU
miR-181a-3p	ACCAUCGACCGUUGAUUGUACC
miR-181b	AACAUUCAUUGCUGUCGGUGGGUU
miR-181c	CACAUUCAUUGCUGUCGGUGGG
miR-181d	AACAUUCAUUGUUGUCGGUGGGU
miR-182-5p	UUUGGCAAUGGUAGAACUCACA
miR-182-3p	UGGUUCUAGACUUGCCAACUA
miR-183	UAUGGCACUGGUAGAAUUCACUG
miR-184-3p	UGGACGGAGAACUGAUAAAGGGC
miR-184-5p	UCCUUAUCACUUUCCAGCCCA
miR-187-3p	UCGUGUCUUGUGUUGCAGCC
miR-187-5p	GGCUGCAACACAGGACAU

miR-188	CAUCCCUUGCAUGGUGGAGGG
miR-190a	UGAU AUGUUUGAU AUUUAGGU
miR-190b	UGAU AUGUUUGAU AUUCGGUUG
miR-192	AUGACCUAUGAAUUGACAGCC
miR-193a	AACUGGCCUACAAAGUCCCAGU
miR-194a	UGU AACAGCAACUCCAUGUGG
miR-194b	UGU AACAGCCGCUCCAUGUGGA
miR-1957a	CAGUGGUAGAGCAUAUGAC
miR-1973	ACCGUGCAAAGGUAGCAUA
miR-196a	UAGGUAGUUUCAUGUUGUUGGG
miR-196b	UAGGUAGUUUCAAGUUGUUGGG
miR-196c	UAGGUAGUUUGAUGUUGUUGGG
miR-196d	UAGGUAGUUUUAUGUUGUUGGG
miR-199a-5p	CCCAGUGUUCAGACUACCUUGUUC
miR-199a-3p	CAGUAGUCUGCACAUUGGUUA
miR-199b	CCCAGUGUUUAGACUACCUUGUUC
miR-19a-3p	UGUGCAAUCUAUGCAAACUGA
miR-19a-5p	CUAGUUUUGCAUAGUUGCACUA
miR-19b-3p	UGUGCAAUCCAUGCAAACUGA
miR-19c	UGUGCAAUCCAUGCAAACUCG
miR-19d	UGUGCAAACCCAUGCAAACUGA
miR-20a-5p	UAAAGUGCUUAUAGUGCAGGUAG
miR-20a-3p	ACUGCAGUGUGAGCACUUGAAG
miR-20b	CAAAGUGCUCACAGUGCAGGUAG
miR-200a-3p	U AACACUGUCUGGUAACGAUGU
miR-200a-5p	CAUCU UACCGGACAGUGCUGGA
miR-200b-3p	UAAUACUGCCUGGUAUGAUGAU
miR-200b-5p	CAUCU UACUGGGCAGCAUUGGA
miR-200c	UAAUACUGCCUGGUAUGAUGC
miR-202-5p	U UCCUAUGCAUAUACCUUUG

miR-202-3p	AGAGGCAUAGGGCAUGGGAAAA
miR-203a	GUGAAAUGUUUAGGACCACUUG
miR-203b-3p	GUGAAAUGUUCAGGACCACUUG
miR-203b-5p	AGUGGUUCUUGACAGUUCAACA
miR-204	UUCCCUUUGUCAUCCUAUGCCU
miR-204b	UUCCCUUUGUUAUCCUAUGCCU
miR-205-5p	UCCUUCAUUCCACCGGAGUCUG
miR-205b	CCCUUCAUUCCACCGGAGUCUGU
miR-205-3p	AGAUUUCAGUGGUGUGAAGUGU
miR-206-3p	UGGAAUGUAAGGAAGUGUGUGG
miR-206-5p	ACAUGCUCUUUAUAUCCUCAUA
miR-21	UAGCUUAUCAGACUGGUGUUG
miR-210-3p	CUGUGCGUGUGACAGCGGCUAA
miR-210-5p	AGCCACUGACUAACGCACAU
miR-211	UUCCCUUUGUCAUCCUUCGCCU
miR-212-3p	UACAGUCUACAGUCAUGGCU
miR-212-5p	ACCUUGGCUCUAGACUGCUUACU
miR-2137	GCCGGCGGGAGCCCCAGGGAG
miR-214-3p	ACAGCAGGCACAGACAGGCAG
miR-214-5p	UGCCUGUCUACACUUGCUGUGC
miR-215	AUGACCUAUGAAUUGACAGAC
miR-216b	UAAUCUCUGCAGGCAACUGUGA
miR-216a	AAAUCUCAGCUGGCAACUGUGA
miR-217	UACUGCAUCAGGAACUGAUUGG
miR-218a	UUGUGCUUGAUCUAACCAUGUG
miR-218b	UUGUGCUUGAUCUAACCAUGCA
miR-2184	AACAGUAAGAGUUUAUGUGCU
miR-2187-3p	UUACAGGCUAUGC UAAUCUAUG
miR-2188	AAGGUCCAACCUCACAUGUCCU
miR-219	UGAUUGUCCAAACGCAAUUCUU

miR-22a	AAGCUGCCAGCUGAAGAACUGU
miR-22b	AAGCUGCCAGUUGAAGAGCUGU
miR-22-3p	AAGCUGCCAGUUGAAGAACUGU
miR-221-3p	AGCUACAUUGUCUGCGGGUUUC
miR-221-5p	ACCUGGCAUACAAUGUAGAUUUCUGU
miR-222a-3p	AGCUACAUCUGGCUACUGGGUCUC
miR-222-5p	CUCAGUAGCCAGUGUAGAUCU
miR-223-3p	UGUCAGUUUGUCAAAUACCCC
miR-223-5p	CGUGUAUUUGACAAGCUGAGUU
miR-23a-3p	AUCACAUUGCCAGGGAUUCCA
miR-23b	AUCACAUUGCCAGGGAUUACCAC
miR-23c	AUCACAUUGCCAGUGAUUACCC
miR-24a-3p	UGGCUCAGUUCAGCAGGAACAG
miR-24a-5p	GUGCCUACUGAACUGGUAUCAGU
miR-24b	UGGCUCAGUUCAGCAGGACAG
miR-24c	UGGCUCAGUUCAGCAGAA
miR-25-3p	CAUUGCACUUGUCUCGGUCUGA
miR-25-5p	AGGCGGAGACUUGGGCAAUUG
miR-252	AUAAGUAGUAGUGCCGCAGGUAA
miR-258	GGUUUUGAGAGGAAUCCUUUU
miR-26a	UUCAAGUAAUCCAGGAUAGGCU
miR-26b	UUCAAGUAAUCCAGGAUAGGUU
miR-27a	UUCACAGUGGCUAAGUUCGG
miR-27b-3p	UUCACAGUGGCUAAGUUCUGCA
miR-27b-5p	AGAGCUUAGCUGAUUGGUGAAC
miR-27c	UUCACAGUGGUUAAGUUCUGC
miR-27d	UUCACAGUGGUUAAGUUCUGC
miR-27e	UUCACAGUGGCUAAGUUCAGUG
miR-281a	UGUCAUGGAGUUGCUCUCUUGC
miR-29a	UAGCACCAUUUGAAAUCGGUUA

miR-29b	UAGCACCAUUUGAAAUCAGUGU
miR-29d	UAGCACCAUAUGAAAUCGGUGUC
miR-301a-3p	CAGUGCAAUAGUAUUGUCAAAAG
miR-301a-5p	GCUCUGACUUCAUUGCACUAC
miR-301b	CAGUGCAAUAGUAUUGUCAUUG
miR-301b-5p	GCUCUGACAAUGUUGCACUAC
miR-301c	CAGUGCAAUAGUAUUGUCAUAG
miR-30a-5p	UGUAAACAUCCUCGACUGGAAG
miR-30a-3p	CUUUCAGUCGGAUGUUUGCAGC
miR-30b	UGUAAACAUCCUACACUCAGCU
miR-30c	UGUAAACAUCCUACACUCUCAGCU
miR-30d	UGUAAACAUCCCGACUGGAAG
miR-30e-5p	UGUAAACAUCCUUGACUGG
miR-30f	UGUAAACACCCUACACUCUCAGC
miR-31	AGGCAAGAUGUUGGCAUAGCUG
mirR-320a	AAAAGCUGGGUUGAGAGGGCGA
mirR-320d	AAAAGCUGGGUUGAGAGGA
miR-33-3p	CAAUGUACCUGCAGUGCAA
miR-33-5p	GUGCAUUGUAGUUGCAUUGCA
miR-338-3p	UCCAGCAUCAGUGAUUUUGUUG
miR-338-5p	AACAACAUCCUGGUGCUGCCUGAGU
miR-34a	UGGCAGUGUCUUAGCUGGUUGU
miR-365	UAAUGCCCCUAAAAUCCUUAU
miR-363	AAUUGCACGGUAUCCAUCUGUA
miR-3618	UGUCUACAUAUAAUGAAAAGAGC
miR-375	UUUGUUCGUUCGGCUCGCGUUA
miR-3963	UGUAUCCACUUCUGACAC
miR-3968	CGAAUCCACUCCAGACACCA
miR-3975	UGAGGCUAAUGCACUACUUCAC
miR-4286	ACCCACUCCUGGUACC

miR-4255	CAGUGUUCAGAGAUGGA
miR-4256	AUCUGACCUGAUGAAGGU
miR-4273	GUGUUCUCUGAUGGACAG
miR-4289	GCAUUGUGCAGGGCUAUCA
miR-4295	CAGUGCAAUGUUUCCUU
miR-429-3p	UAAUACUGUCUGGUA AUGCCGU
miR-429-5p	GUCUUACCAGACAUGGUUAGA
miR-430a	UAAGUGCUAUUUGUUGGGGUAG
miR-430d	UAAGUGCUUCUCUUUGGGGUUG
miR-430c	UAAGUGCUUCUCUUUGGGGUAG
miR-430e	UAAGUGCUAUGUUGUUGGGGAU
miR-430i	UAAGUGCUAUUUGUUGGCGUAG
miR-4304	CCGGCAUGUCCAGGGCA
miR-4319	UCCCUAGCAAAGCCAC
miR-4327	GGCUUGCAUGGGGGACUGG
miR-449b	AGGCAGUGUAUUGUJAGCUGGC
miR-4448	GGCUCCUUGGUCUAGGGGUA
miR-4454	GGAUCCGAGUCACGGCACCA
miR-4502	GCUGAUGAUGAUGGUGCUGAAG
miR-454	UAGUGCAAUAUUGCUUAUAGGGU
miR-456	CAGGCUGGUUAGAUGGUUGUCA
miR-458	AUAGCUCUUUAAAUGGUACUGC
miR-459	UCAGUAACAAGGAUUCAUCCUG
miR-4500	UGAGGUAGUAGUUUCUU
miR-4532	CCCCGGGGAGCCCCGGCG
miR-4576	UUUGUUUAGCGAUGUAUCUGGC
miR-451	AAACCGUUACCAUUACUGAGUU
miR-455a	UAUGUGCCCUUGGACUACAUCG
miR-455b	GUAUGUGCCCUUGGACUACAUU
miR-4560	UCUCUGUCCACACAAACACCUG

miR-460-5p	CCUGCAUUGUACACACUGUGCG
miR-460-3p	CACAGCGCAUACAAUGUGGAUG
miR-460b	UCCUCAUUGUACAUGCUGUGUG
miR-462	UAACGGAACCCAUAAUGCAGCU
miR-466i	UGUGUGUGUGUGUGUGUGUGUG
miR-466q	GUGCACACACACACAUACGU
miR-467g	UAUACAUACACACACAUAUUAU
miR-467f	AUAUACACACACACACCCUACA
miR-4792	CGGUGAGCGCUCGCUGGC
miR-489	AGUGACAUCAUAUGUACGGCUGC
miR-499-5p	UUAAGACUUGCAGUGAUGUUUA
miR-499-3p	ACAUCACUUUAAGUCUGUGC
miR-509	UACUGCAGACAGUGGCAAUCA
miR-5100	UCGAAUCCCAGCGGUGCCUCU
miR-5108	GUAGAGCACUGGAUGGUUU
miR-5112	UAGCUCAGUGGUAGAG
miR-5119	CAUCUCAUCCUGGGGCUGG
miR-5124a	GGUCCAGUGACUAAGAGCAU
miR-574	UGAGUGUGUGUGUGUGAGUGUGU
miR-7a	UGGAAGACUAGUGAUUUUGUUGUG
miR-7b	UGGAAGACUAGUGAUUUUUUGUU
miR-71	UGAAAGACAUGGGUAGUGAGACG
miR-72	AGGCAAGAUGUUGGCAUAGCUGA
miR-722	UUUUUUGCAGAAACGUUUCAGAUU
miR-724	UUAAGGGAAUUUGCGACUGUU
miR-725	UUCAGUCAUUGUUUCUAGUAGU
miR-727-3p	GUUGAGGCGAGUUGAAGACUUA
miR-727-5p	UCAGUCUUCAAUUCCUCCCAGC
miR-728	AUACUAAGUACACUACGUUUUC
miR-730	UCCUCAUUGUGCAUGCUGUGUGU

miR-731	AAUGACACGUUUUCUCCCGGAUCG
miR-733	UGCGUUGGUUUAGCUCAGUGGUU
miR-737	AAUCAAAACCUGAAAGAAAUA
miR-9a-3p	AUAAAGCUAGAUAAACCGAAAG
miR-9a-5p	UCUUUGGUUAUCUAGCUGUAUGA
miR-92a	UAUUGCACUUGUCCCGGCCUGU
miR-92b	UAUUGCACUUGUCCCGGCCUCCC
miR-93	AAAAGUGCUGUUUGUGCAGGUA
miR-96	UUUGGCACUAGCACAUUUUUGCU
miR-99a-5p	AACCCGUAGAUCCGAUCUUGUG
miR-99a-3p	CAAGCUCGCCUCUGUGGGUCUC
miR-99b	CACCCGUAGAACCGACCUUGCG
miR-140-3p	UACCACAGGGUAGAACCACGGAC
miR-129-3p	AAGCCCUUACCCCAAAAAGCAU
miR-9b-3p	UAAAGCUAGAGAACCGAAUGU
miR-458a-5p	AGCGCCAUUUUCAGAGCUAUA
miR-132-5p	ACCGUGGCAUUAGAUUGUUACU
miR-2188-3p	CUGUGUGAGGUUAGACCUAUC
miR-17a-3p	ACUGCAGUGGAGGCACUUCUAG
miR-23a-5p	UGGGGUUCCUGGCACGGUGAUUU
miR-2187-5p	UUAAUUAGUAUAGCCUGUUUUA
miR-19b-5p	AGUUUUGCUGGUUUGCAUUCAG
miR-130c-5p	GCCCUUUUUAUGUUGUACUACU
miR-125b-3p	ACUGGUUAGGCUCUUGGGAAC
