

TCAAGAGAGTAAACTCGGACAATAACTTTCCACTTCCACAACGATATTTTCTTTACTGTTACTATTTGCTTTCTGTGTTTACTAC 87
 AAAGTGCCTGTGGAACCGCAACATTGTTCCCTATTCAACCACTCGACTAAGGTTGCGCCGAGCCAGAAAAAAGGAGTTGTCATC 174
ATGGTGCTAATGATACTGCCATTCAATGGATCAGTGTCCGATCTGAGAGTTTGGTGGCC 261
 M V L M I L P F I G S V S V S E S L V A 20
 ATAACAGTGTGTGTGTGGTCTACCTGGCTCTCAGGTGTTTTACACTGAAATTCCTGAGGGGCTTCGTCGACTGCCTGGACCAAAG 348
 I T V L C V V Y L A L R C F H T E I P E G L R R L P G P K 49
 CCCTTTCTCTCATTGGGAATGTGCTGGAAGTGGGCAGCAAACCCCTACTTGAGTCTCACTGCCATGAGCAAGCGTTATGGTGTATGTC 435
 P F P L I G N V L E V G S K P Y L S L T A M S K R Y G D V 78
 TTCCAGATCCAGGTTGGCATGCGTCCGGTCATTGTGTTGAGTGGCACTGACACAGTTCGACAGGCTCTCATCAAGCAAGGGGAAGAG 522
 F Q I Q V G M R P V I V L S G T D T V R Q A L I K Q G E E 107
 TTTGAGGCAGACCTGACCTGTACAGCTTCAGGTTCAACGATGGCAAGAGTCTGGCCTTCAGTACAGACCAGGCCGGCGTGTGG 609
 F A G R P D L Y S F R F I N D G K S L A F S T D Q A G V W 136
 CGTGCTCGCAGGAAGCTGGCCTACAGTGCCTGCGCTCTTCTCCAGCTGGAAGGCACAACCCAGAGTACTCCTGCATGCTGGAA 696
 R A R R K L A Y S A L R S F S S L E G T T P E Y S C M L E 165
 GAACACATTTGCAAAGAGGGAGAATATCTGATCAAACAGCTCAACAATGTCATGAAGGCTGACGGCAGCTTCGACCCCTTCCGACAC 783
 E H I C K E G E Y L I K Q L N N V M K A D G S F D P F R H 194
 ATTTGTTGCTCCGTTGCCAATGTGATCTGTGGAATGTGCTTCGGCCGACGCTATGACCAATGACCAGGAGCTTCTCAGTCTGGTG 870
 I V V S V A A T T C V I C G M C F G R R Y D H N D Q E L L S L V 223
 AACCTCAGTACGAAATTCGGTTCAGGTGGGCGAGCGTAACCTGCAGACTTCATCCCTATTCTCCAATACCTGCCAGCTCAACA 957
 N L S D E F G Q V V G S G N P A D F I P I L Q Y L P S S T 252
 ATGAAGACTTTTCATGGACATCAATGTCCGCTTCAACACATTTGTGCAAAAGATCGTCACTGAGCACTATGCCAATAAACAAGGAC 1044
 M K T F M D I N V R F N T F V Q K I V S E H Y A N Y N K D 281
 AACATTCGTGACATCACTGATTCCTCATGATCACTGTGAGGACAGAAAGCTGGATGAGAACTCCAATGTCCAGATGTCAGATGAG 1131
 N I R D I T D S L I D H C E D R K L D E N S N V Q M S D E 310
 AAGGTTGTAGGCATCGTCAATGACCTGTTTCGGAGCTGGTTTTGACACCATCTCCACTGCCCTGTCTTGGTCAAGTATGACTTGGTG 1218
 K V V G I V N D L F G A G F D T I S T A L S W S V M Y L V 339
 GCTCACCCAGAGATGCAGAAAGGCTTTATCAAGAAGTGAAGGACACAGTGGGTCTGGATCGCAGTCTCGTCTCTGACAGACC 1305
 A H P E M Q E R L Y Q E L K D T V G L D R S P R L S D R P 368
 AGCTTACCCTTCTGGATGCTTTCATCTGGAGATCTTTCGCCACTCTTCATTCCTGCCCTTACCATCCCTCACTGCACATCAAAA 1392
 S L P F L D A F I L E I F R H S S F L P F T I P H C T S K 397
 GACACATCGCTAAATGGATACTTTCATCCCAAAGACACCTGTGTCTTCATCAATCAGTGGCAGATCAACCATGATCCAGAGATTTGG 1499
 D T S L N G Y F I P K D T C V F I N Q W Q I N H D P E I W 426
 AAAGATCCATCTTCTTCAACCCAGATCGCTTCTGAGTGTGATGGCACTGAGGTCAACAAGATGGAAGGGGAGAAGATATCAATA 1566
 K D P S S F N P D R F L S A D G T E V N K M E G E K I S I 455
 TTTGGCATGGGGAAGCGCCGCTGCATCGCGAGGTCATTGCACGAAATGAAGTCTACCTCTTCTTGGCAATCATTTGCCAGAAGCTG 1653
 F G M G K R R C I G E V I A R N E V Y L F L A I I V Q K L 484
 CAATTCATGCGATGCCTGGAAAGCCACTGGACATGACACAGAGTACGGTCTCACAATGAAGCACAAACGTTGCCACCTGAGAGCC 1740
 Q F H A M P G K P L D M T P E Y G L T M K H K R C H L R A 513
 ACAATGCGAGTGAGAAATGAGCAGTAAAGCTATTTCAGAATGTACAATGTATGACTCACTAAGTCGTATAAGTTGACTCTAACAATGC 1827
 T M R V R N E Q 521
 ATGGGTCACCTTCAAGTCAAGAGTAAGTGAACAAGCATCTTTCTCAGAATGTAAGGCACCGAATGCCTAATTTGATTACAGGCTT 1914
 ACTGGCATTGAAGCAAATCAATGAATGTTGCTTGTGCTGAGATTGTCAGAGATGACTATGTTTGTGTGAACATATCCCTGTCATGTTT 2001
 TTGGTTCTCTGTGAGCTCTTCTGACATGATTGGTGTCTCTCAGTGAAGTATAGGAGAGATACTTGGTTCTCCTGAGTTGTGTAGT 2088
 AAATAAATGTTCCCATTAAGAAGTTATAAATGCTCAGAGATTAATACCATGTTCAACTTTGGGGCAAGCAGTATGTTTTACT 2175
 GGATGTTTTTCTTCTGTGACACAGGACTCAGAACTGAACAGCTAATACCTTTTGATAACCATTACACTTGTAAAGCTAAATATTTTAA 2262
 TTCCATAATATAATGTGGATGTAAGACACTGAAGCTATATTTGTATCCCAAATGTGATTTCTGCTGTATATCAAAATCTTTGTATTT 2349
 TATAAAGCCATTTTCATGTGCCTAGCGTTTGTATATCTGAGGTGAAATAGTTTAGCTGTTTATTACATGGAATATAAACCCACG 2436
 AAAAGACTCCAGTGAGTTTTTGAATATATTGGAAGGCTAAACAATTTGTATTCTATATATAACGTATAAATGATTGTATAACA 2523
 TGTATGGGCGTGTGATTGGAGCATCCTTTAATCAGCCACACAAATAAAATAAAATATGTTGTAAAAAATAAAAAAAAAAAAAAAAAA 2608

Figure S1. Nucleotide and deduced amino acid (below the former) sequences of Atlantic croaker cytochrome P450 1A gene. The start codon, heme-binding cysteine codon (position 463), stop codon (TAA), ATTTA (AUUUA) pentanucleotide sequences, TATA box, and putative poly-adenylation signal (AAAATAAAA) are all underlined and boldfaced. GenBank accession number JQ622220.