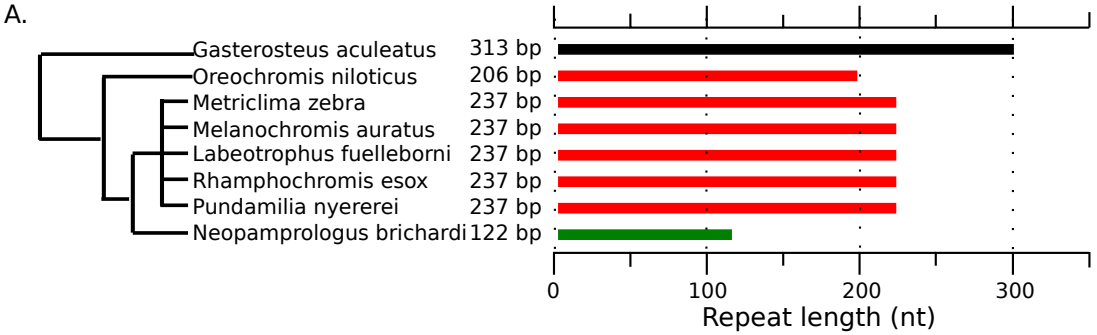

B.

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Oreochromis niloticus          AGACTCGGACACACATATTTCAGGCTTGGCCTTATAGAATTCAGCATTTCCATGCTGGGGAAATAGGTTTTGCCACTGTTTGAGC  85
Metriaclima zebra              AGACTCAGATACACATGTTTATGGCTTTATCTTATAAAACTCAAGATCTCCGTGCTGGGAAAACAGGTTTTGCAGCCGTTTGAGC  85
Melanochromis auratus          AGACTCAGACAGACATGTTCATGGCTTTATCTTATAGAACTCAATATCCCCGTGCTGGCCGAACAGGTTTTGCAGCCGTTTGAGC  85
Labeotropheus  fuelleborni     AGACTCAGAAACACATGTTTATGGCTTTATCTTATAGAACTCAATATCCC-GTGCTGGGCAAACAGGTTTTGCAGCCGTTTGAGC  84
Rhamphochromis esox            AGACTCAGACAAACATGTTTATGGCTTTATCTTATAGAACTCAATGTCCCCGTGCTGGGAAAACAGGATTTGCAGCTGTTTGAGC  85
Pundamilia  nyererei           AGACTCAGACAAACATGTTTATGGCTTTATCTTATAGAACTCAATATCCCCGTGCTGGGCAAACAGGTTTTGCAGCCGTTTGAGC  85
                               ****** ** * **** **    *****    ****** ** ***    *  *  ******    ** *** *****  * ********

Oreochromis niloticus          TAAGATTTTCA-GTTATTGACTAAATGAAAACC-ATAATGTGTTTCAGGCGAG----------------------------AAA 139
Metriaclima zebra              TAAGATTTTAAAATTATTCACATAATGAAAACCTATACTTTGTCTCGGGCGAGTTCCCCATTCAAATGCATGTAACAGTGAGAAA 169
Melanochromis auratus          TAAGATTTTAAAATTATTCACATAATGAAAACCTATACTTTGTCTCGGGCGAGTTTCCCATTCAAATGCATGTAACAGTGAGAAA 170
Labeotropheus fuelleborni      TAAGATTTTAAAATTATTCACATAATGAAAACCTATACTTTGTTTCAGGCGAGTTTCCCATTCAAATGCATGTAACAGTGAGAAA 169
Rhamphochromis esox            TAAGATTTTCAAGTTATACACATAATGAAAACCTATACTTTGTTTCGGTCGAGTTCCCCATTCAAATGCATGTAACAGTGAGAAA 170
Pundamilia nyererei            TAAGATTTTAAAATTATTCACATAATGAAAACCTATACTTTGTTTCAGGCGAGTTTCCCATTCAAATGCATGT--CAGTGAGAAA 168
                               ********* *  ****  **  ********** *** * *** ** * ****                        ***

Oreochromis niloticus          CGCACTGTCTCGCCGAAATAAGGCGATTTTCACCAAGTCCATAAAGACAGCTGTAACTTTTGATAGG 206
Metriaclima zebra              CGCATTGTCTTGGCGAAAGAAAGCGTTTTTGTACAACTTCATATAAATAGCTGTAACTTTTGATAGA 237
Melanochromis auratus          CGCACTGTCTTGGCGAAATAAAGCATTTTTGTACAACTTCATATAAATCGCTGTAACTTTTGATAGT 237
Labeotropheus fuelleborni      CGCATTGTCTTGGCGAAATAAAGCGTTTTTGAACAACTTCATATAAATCGCTGTAACTTTTGATAGA 236
Rhamphochromis esox            CGCACTGTCTTGGCGAAAGAAAGCGTTTTTGTACAACTTCATAAAAATCGCTGTAACTTTTGATAGA 237
Pundamilia nyererei            CGCACTGTCTTGGCGAAATAAAGCGTTTTTGTACAACTTCATATAAATCGCTGTAACTTTTGATAGA 235
                               **** ***** * ***** ** **  ****   *** * **** * *  ******************
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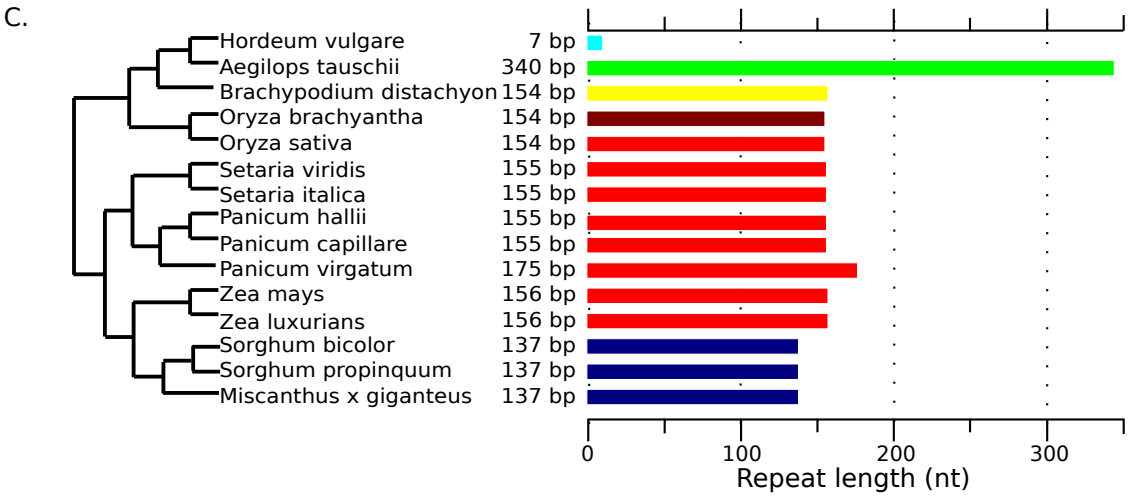

D.

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Oryza sativa                   TTTTTGCCACGAACGCACCCAATACACTCCAATATGTCCAAAAATCATGTTTTGG--CCTTTTT----------------------GAACTTTTTCA  73
Setaria viridis                TTTTCGCAACGAACGCATGCAATCTTCCTAATTATACCCTAGAA-CATGTTTGGGAGTGTTTTT----------------------GGGCA-TTCGG  72
Setaria italica                TTTTCGCAACGAACGCATGCAATCTTCCTAATTATACCCTAGAA-CATGTTTGGGAGTGTTTTT----------------------GAGCA-TTCGG  72
Panicum hallii                 TTTTCGCAAGGAACGCACCCGATCCACTCCAT-GGACCCAAAACTCATGTTTTGGG-CGTTTC----------------------GGACCGTTTCG  73
Panicum capillare              TTTTCGCAACGAACGCACCCGATCCACTCCATTGGACCCAAAACTCATGTTTTGGGGCGTTTC----------------------GGACCGTTTCG  73
Panicum virgatum               TTTTCGCAACGAACGCACCCAATCCACCCCATTGGACCCTAAACTCATGTTTTGGTACGTTTCATAGTGTTTGGGTGCATTTGGGATCATTTCG  93
Zea mays                       TTTTCGCAACGAACATGCCCAATCCACTACTTTAGGTCCAAAACTCATGTTTGGG-GTGATTTC----------------------GCGCAATTTCG  73
Zea luxurians                  TTTTCGCAACGAACATGCCCAATCCACTACTTTAGGTCCAAAACTCATGTTTGGG-GTGGTTTC----------------------GCGCAATTTCG  73
                               **** ** * ****       **   *          ** * *  ******* **     **                       *    **

Oryza sativa                   TTCCGGTAAAAAACATCGCACCCACGTGTGCCAATATTGG----CATT--AATTGACAAAAGT-TCGCCGCGCGAA----TCACGAAGTGAG--  156
Setaria viridis                TTCCGGCACGAAAAATGATGC-AAAACGGGTGCATTTCGG----CACCCGAAT--GCACTATTGCCGGGTAGCGAAAC--TCGGGTGGA---TT  155
Setaria italica                TTCCGGCACGAAAAACGATGC-AAAACAGGTGCATTTCGG----CACCCGAAT--GCACTATTTTCGGGTAGCGAAAC--TCGGGTGGA---TT  155
Panicum hallii                 TTACTGCACGAAAGTCGGTGC-AAAACGGGCC-AA-CTGGTGC-CATT--AAC--GCACAAGT-TCGCTAAACGAAG---TTGCGTCGGAA---  155
Panicum capillare              TTACTGCACGAAAGTCGATGC-AAAACTGGCCGAA-CTGGTGC-CATT--AAC--GCACAAGT-TCGCTAAACAAAG---TCGCGTCGGAA--T  155
Panicum virgatum               TAACTGCATGAAACTCGGTGC-AAAACGGGGTGAA-CTGGTGC-AATT--AAT--GCAAAAGT-TCGTGCCACGAAG---TCACGTCGGGA--T  175
Zea mays                       TTGCCGCACGTCACCCATTCCGAAAACGGGTA----TCGGGGTGCATACAAA---GCACGAGTTTTTGCCACCGGAACAATTTCTTCG-----T  156
Zea luxurians                  TTGCCGCACGTCACCCATTCCGAAAACGGGTG----TCGGGGTGCATACAAA---GCACGAGTTTTTGCCACCGGAACCATTTCTTCG-----T  156
                               *  * * *                 *        **     *    **    **  * *         *  *    *
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