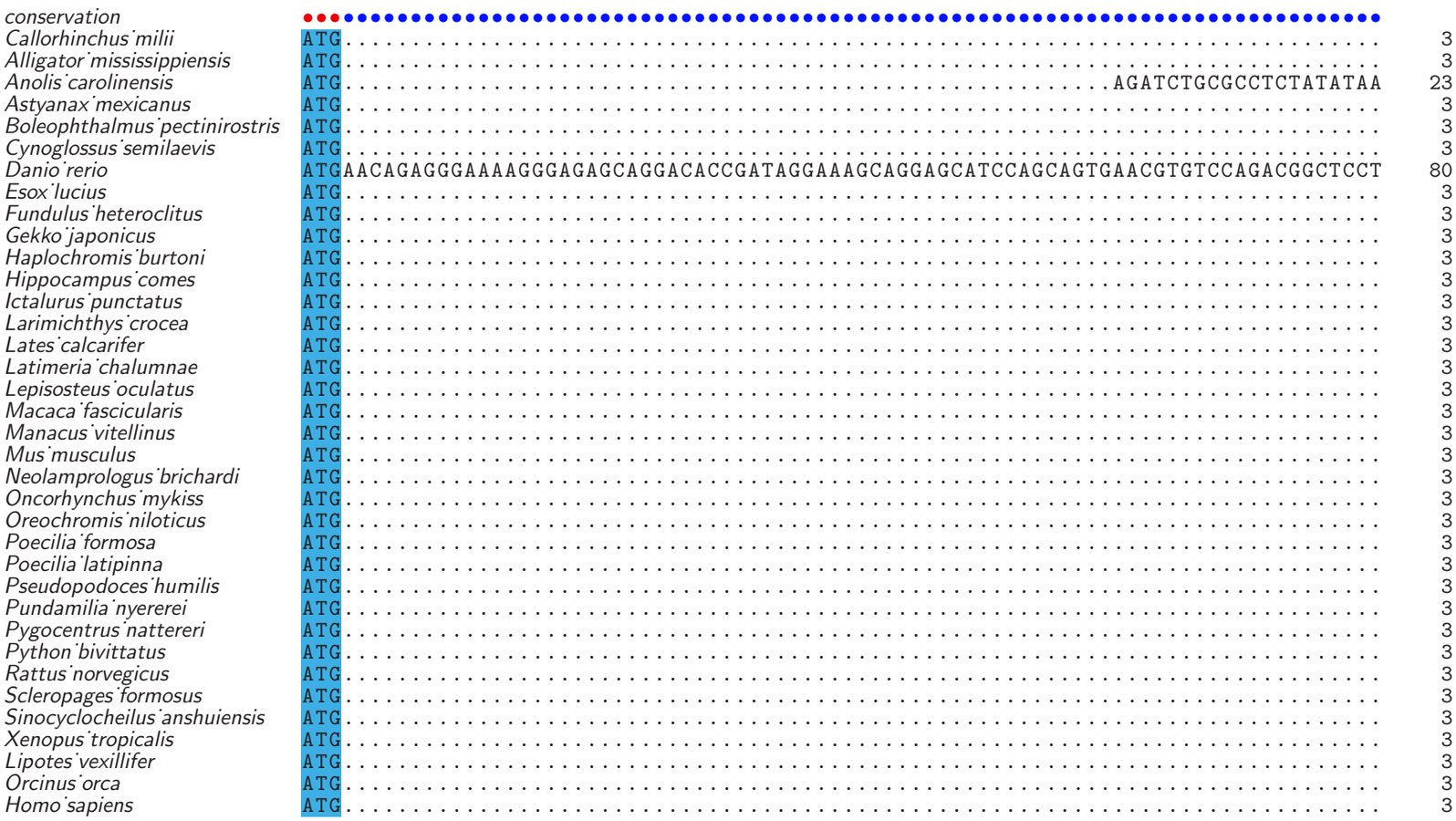
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Boleophthalmus pectinirostris
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Danio rerio
Esox lucius
Fundulus heteroclitus
Gekko japonicus
Haplochromis burtoni
Hippocampus comes
Ictalurus punctatus
Larimichthys crocea
Lates calcarifer
Latimeria chalumnae
Lepisosteus oculatus
Macaca fascicularis
Manacus vitellinus
Mus musculus
Neolamprologus brichardi
Oncorhynchus mykiss
Oreochromis niloticus
Poecilia formosa
Poecilia latipinna
Pseudopodoces humilis
Pundamilia nyererei
Pygocentrus nattereri
Python bivittatus
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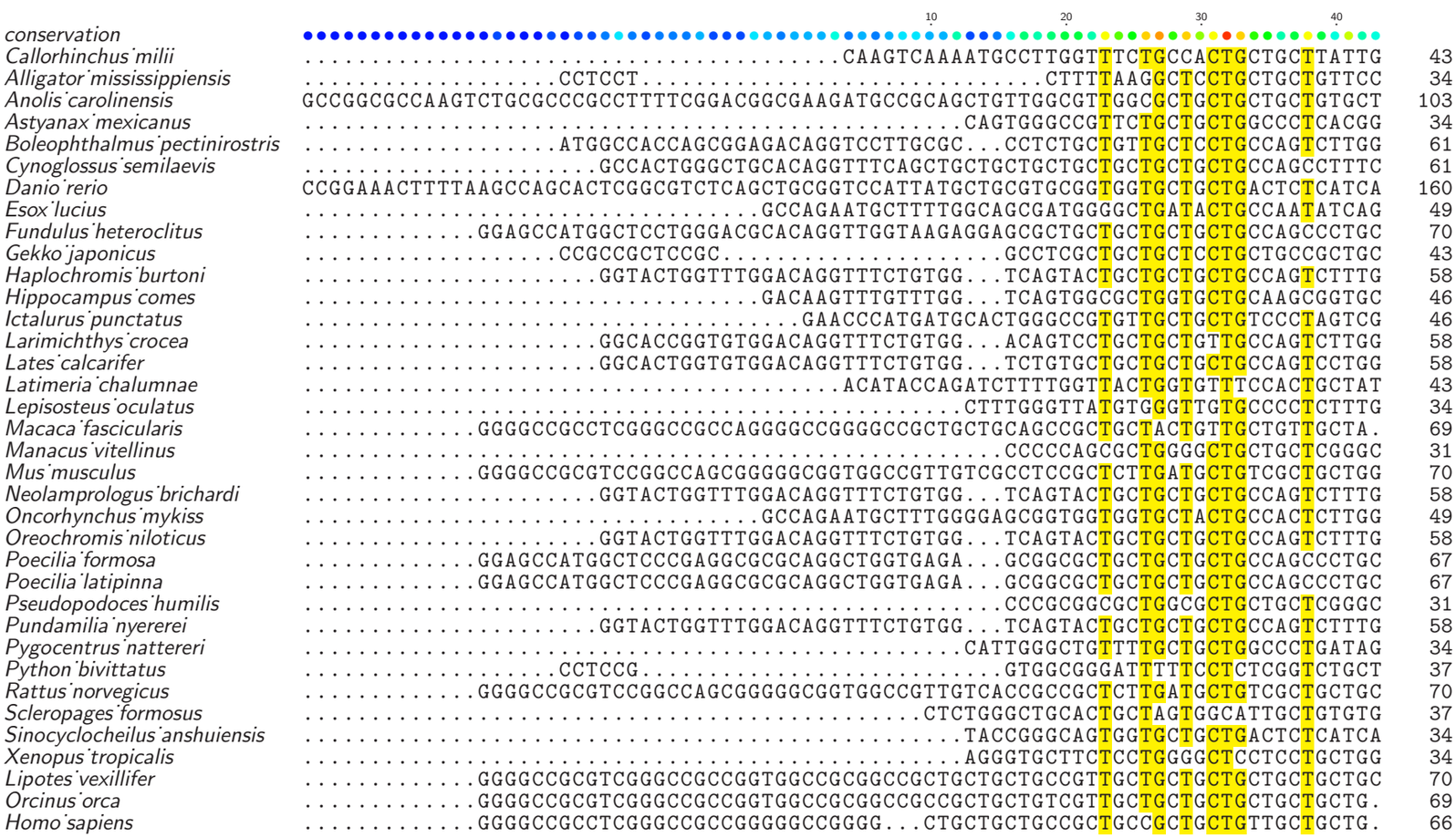
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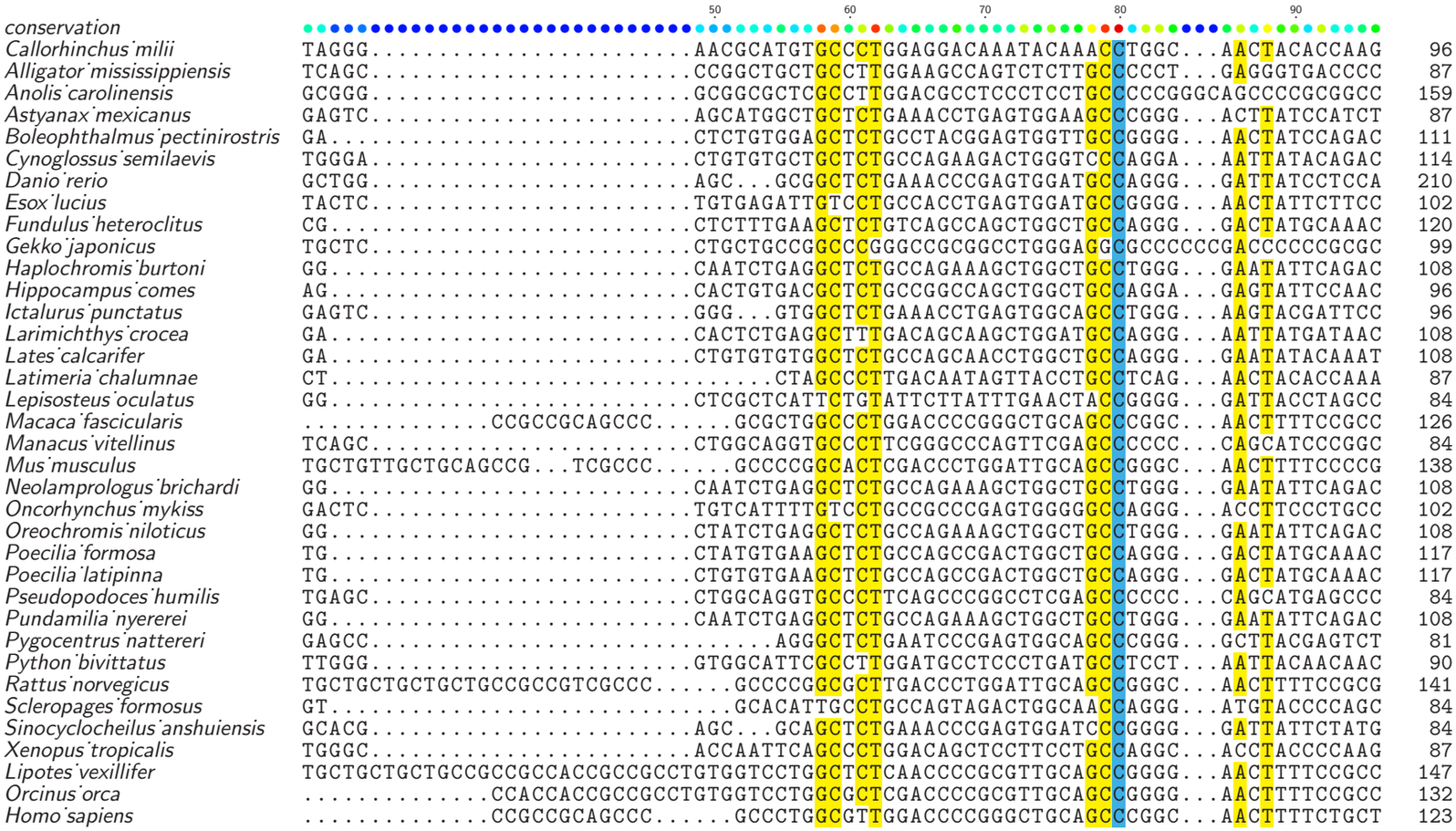
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Mus musculus
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Oncorhynchus mykiss
Oreochromis niloticus
Poecilia formosa
Poecilia latipinna
Pseudopodoces humilis
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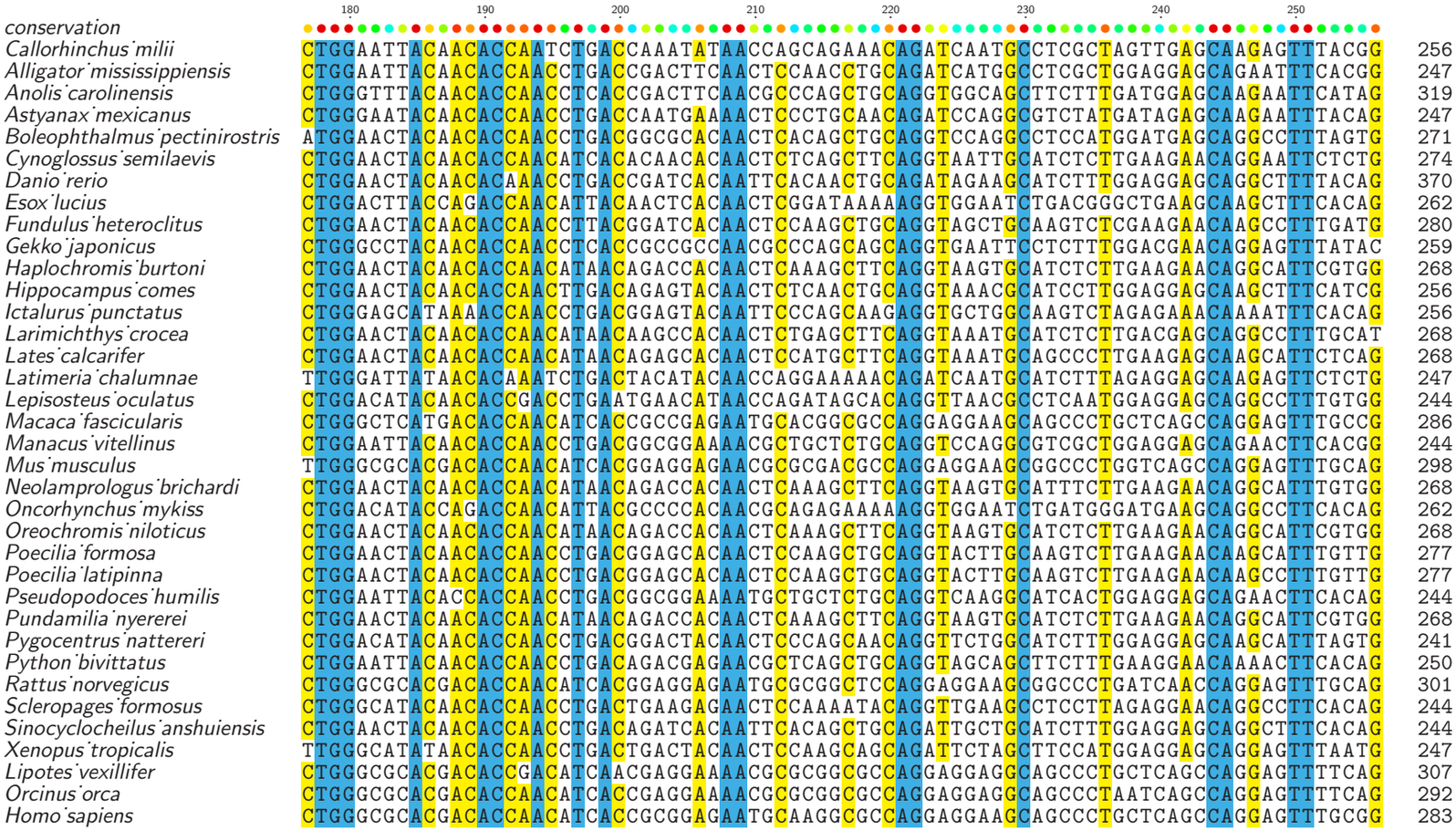
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Cynoglossus semilaevis
Danio rerio
Esox lucius
Fundulus heteroclitus
Gekko japonicus
Haplochromis burtoni
Hippocampus comes
Ictalurus punctatus
Larimichthys crocea
Lates calcarifer
Latimeria chalumnae
Lepisosteus oculatus
Macaca fascicularis
Manacus vitellinus
Mus musculus
Neolamprologus brichardi
Oncorhynchus mykiss
Oreochromis niloticus
Poecilia formosa
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Pseudopodoces humilis
Pundamilia nyererei
Pygocentrus nattereri
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Orcinus orca
Homo sapiens
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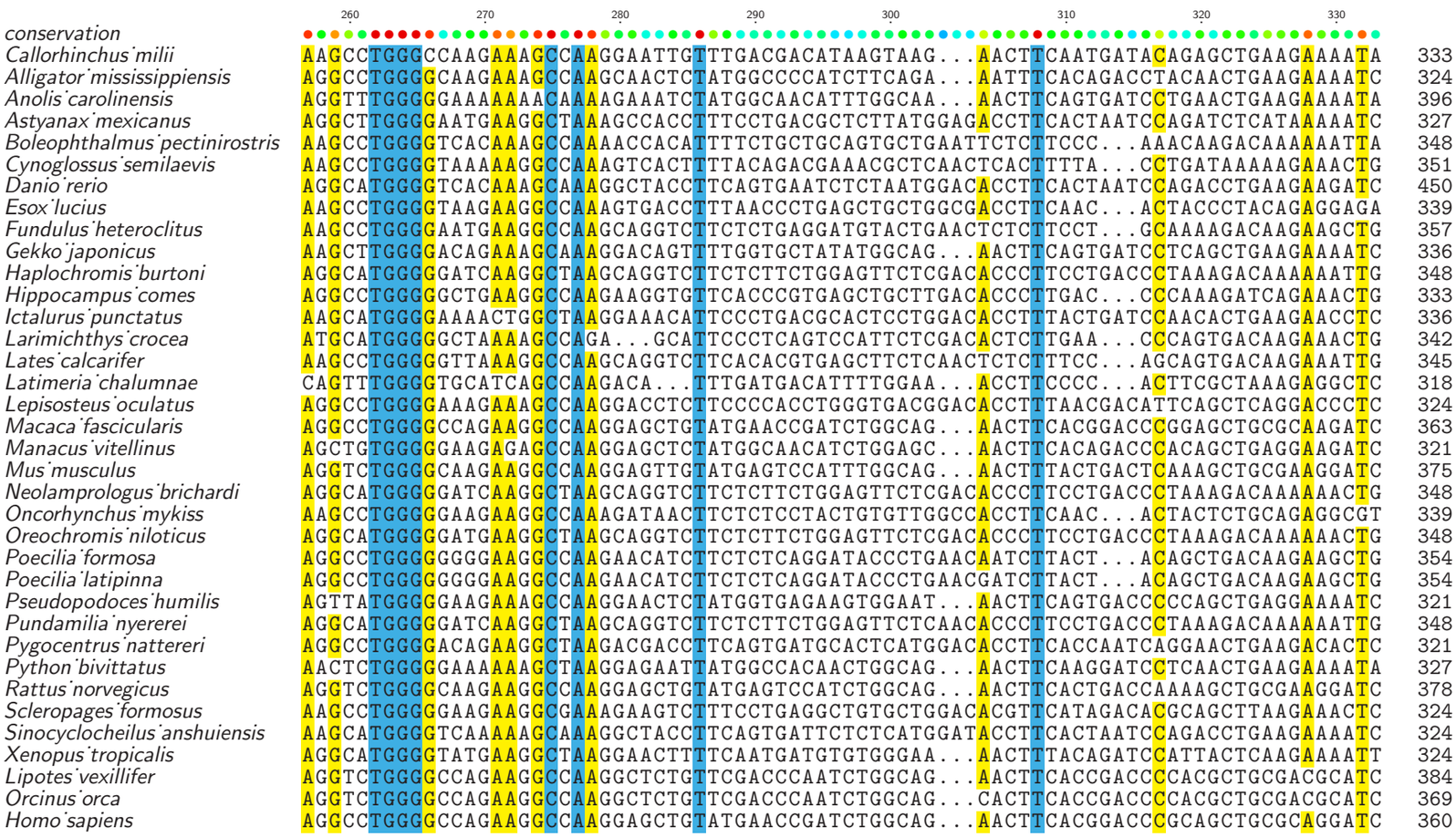
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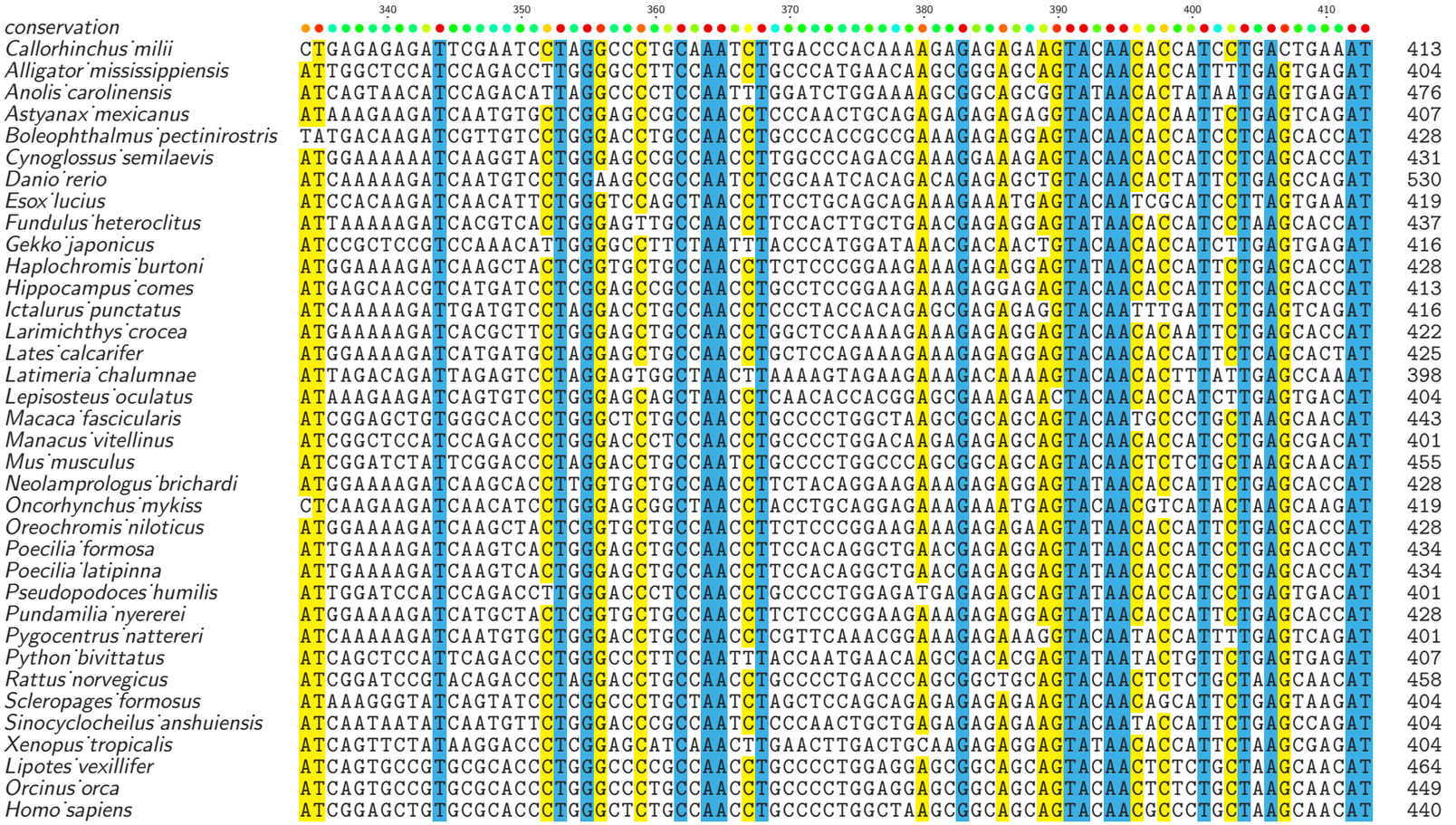
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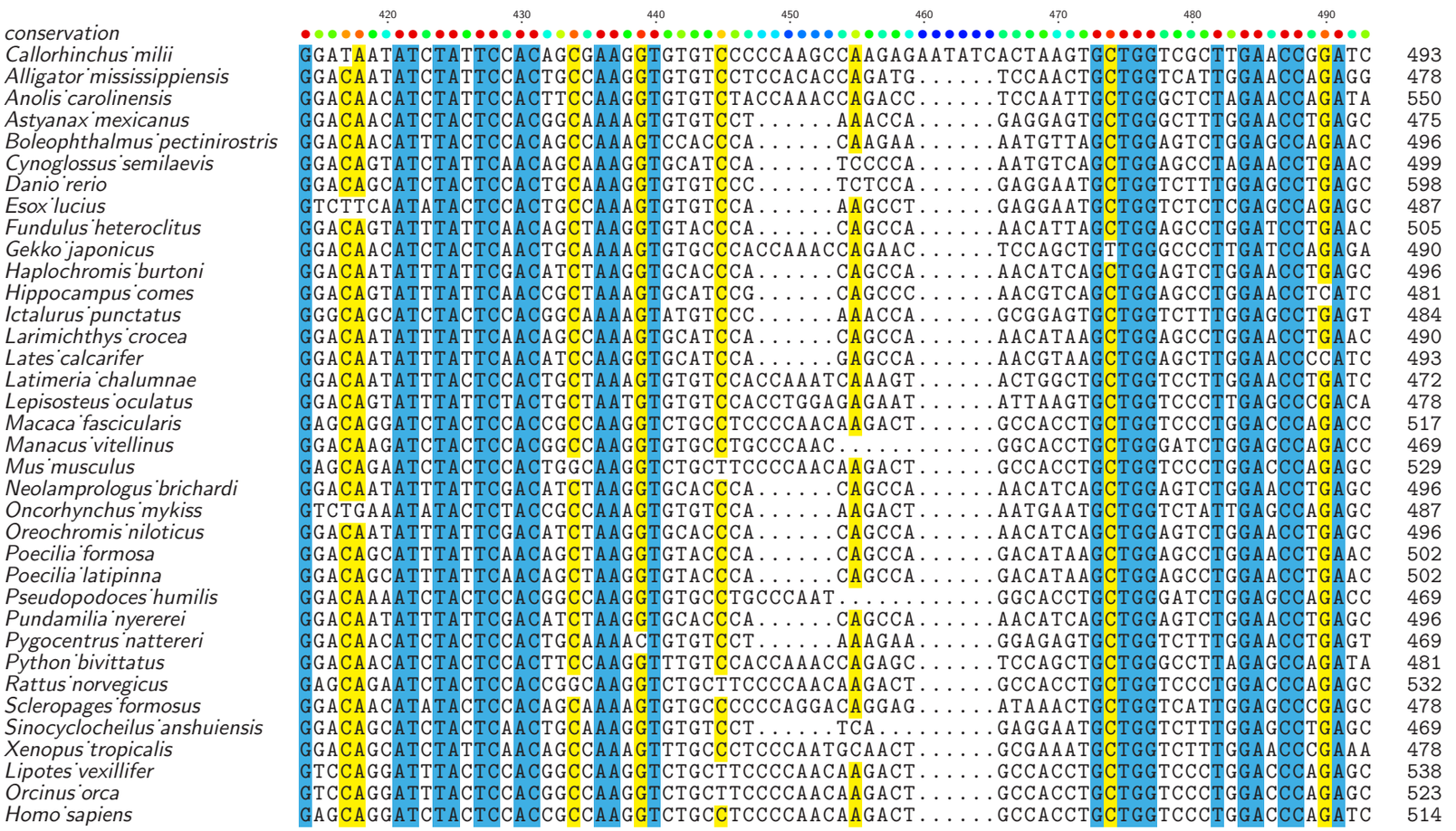
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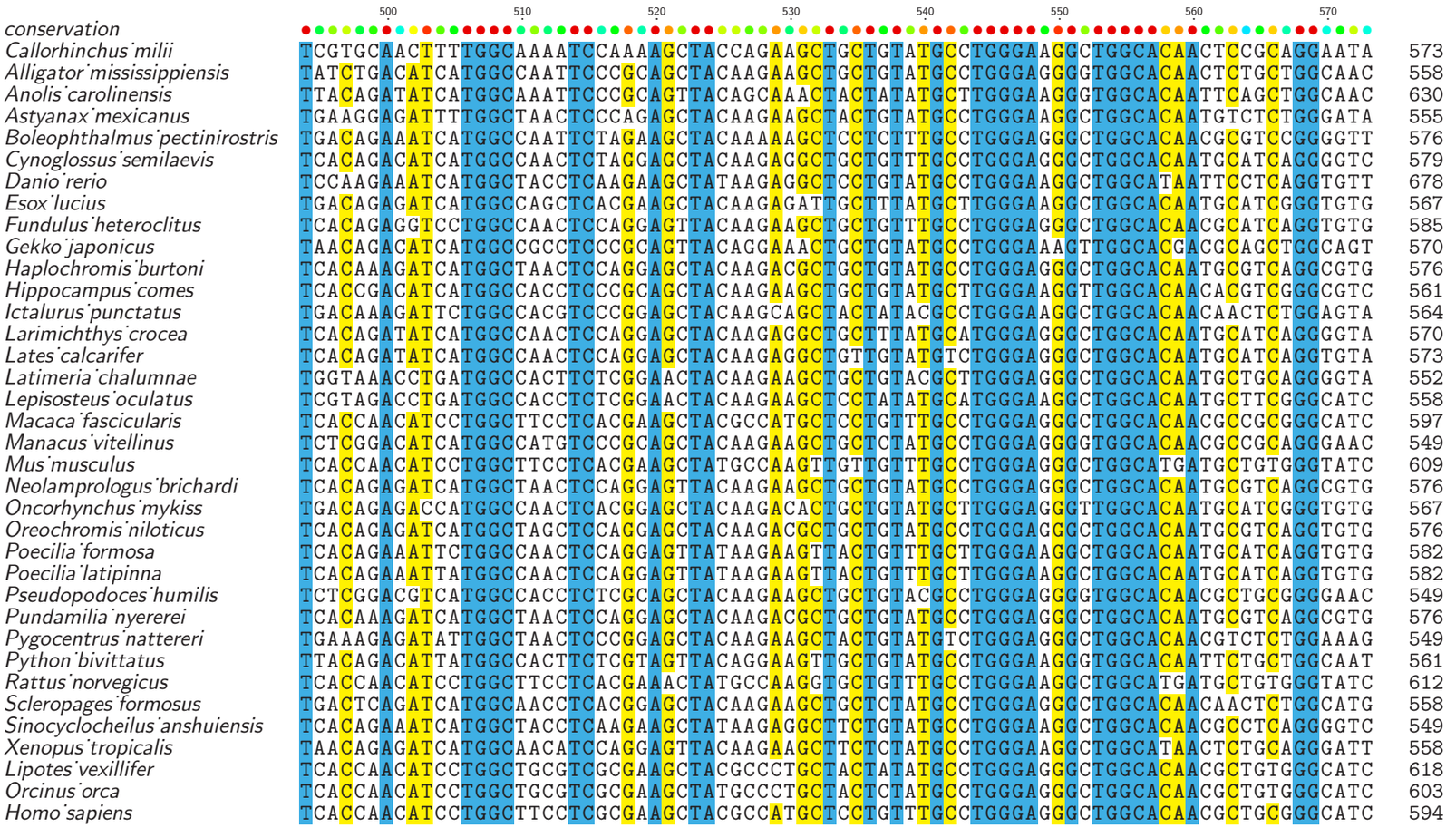
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Latimeria chalumnae 552
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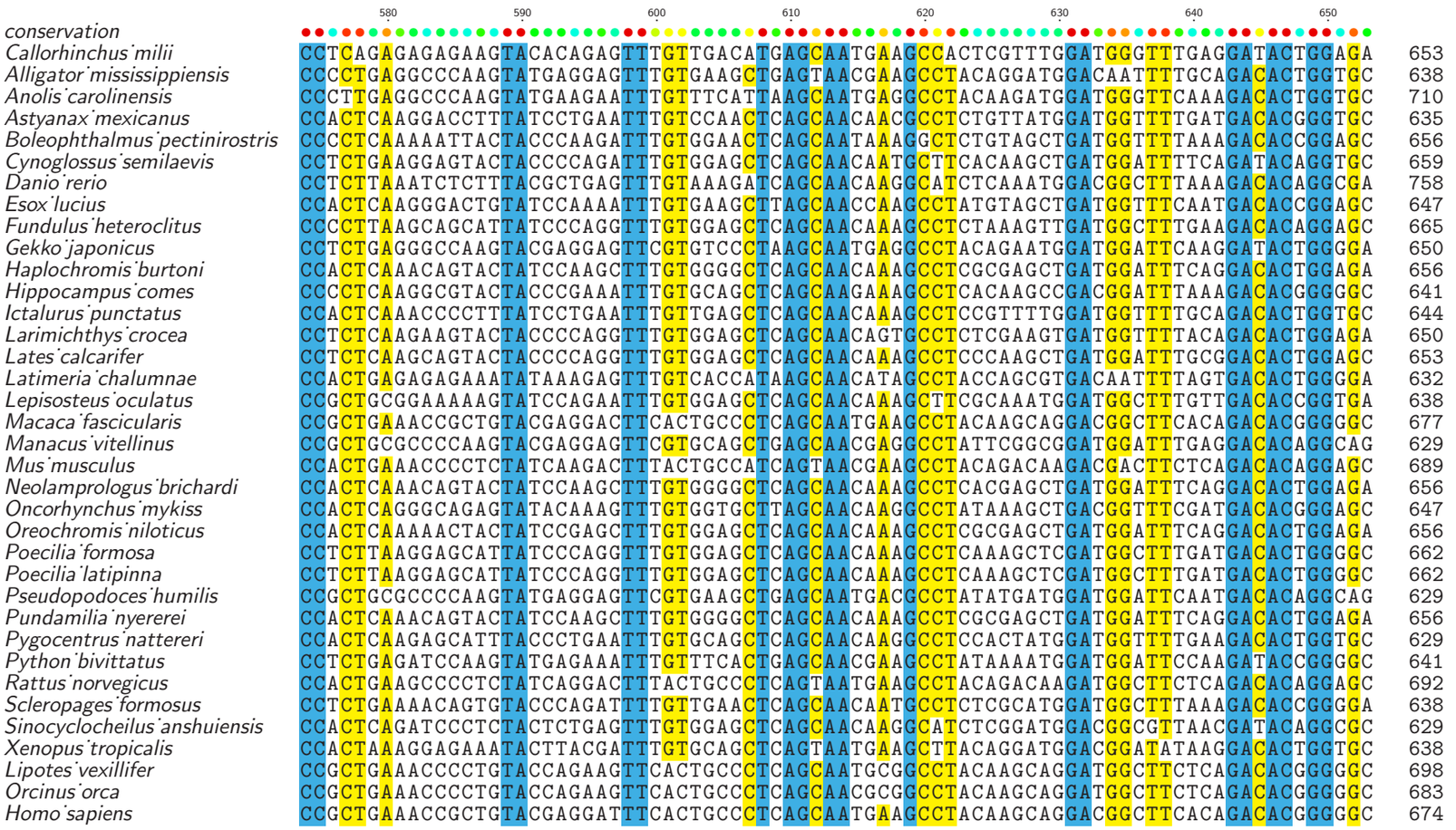
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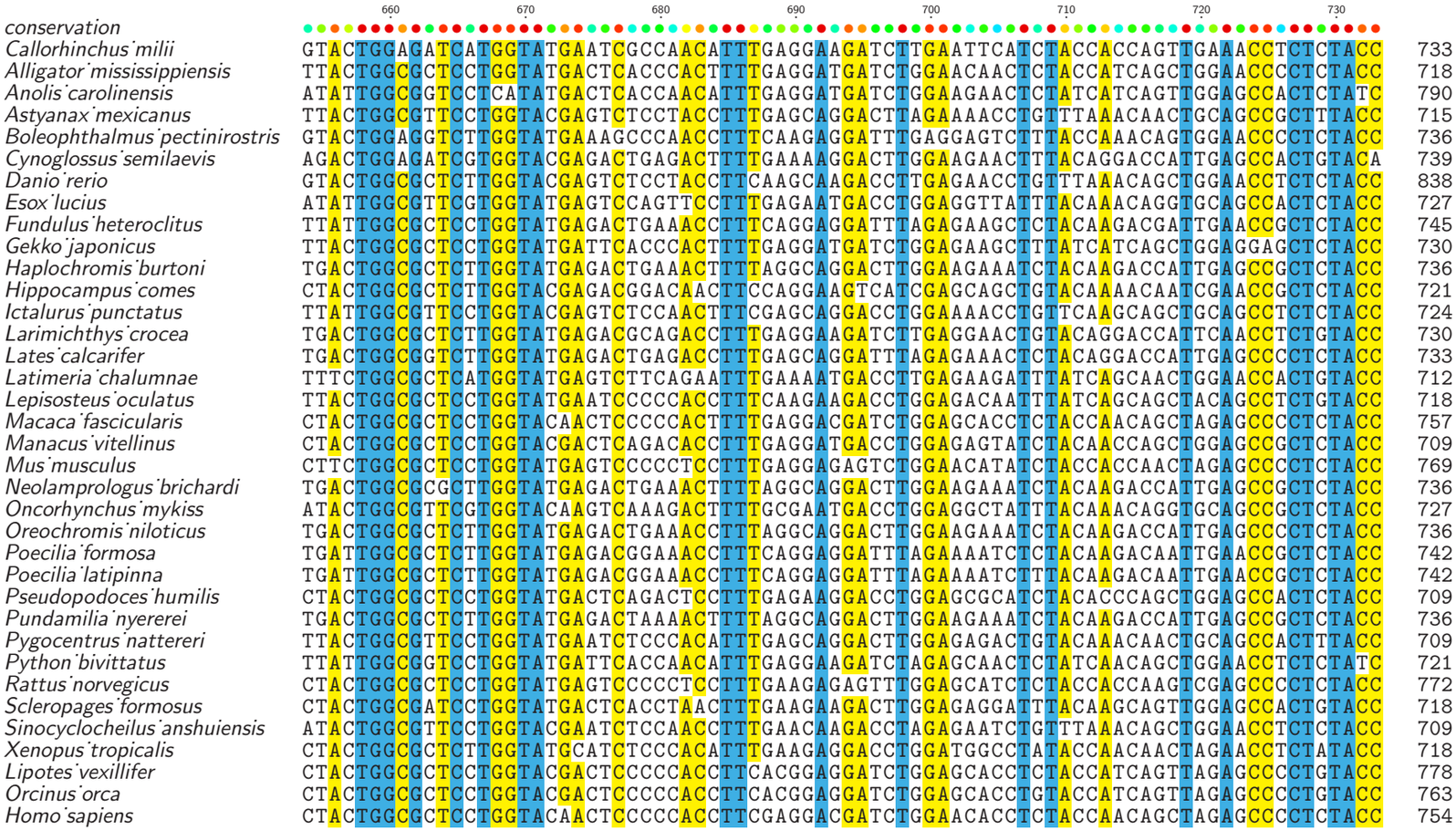
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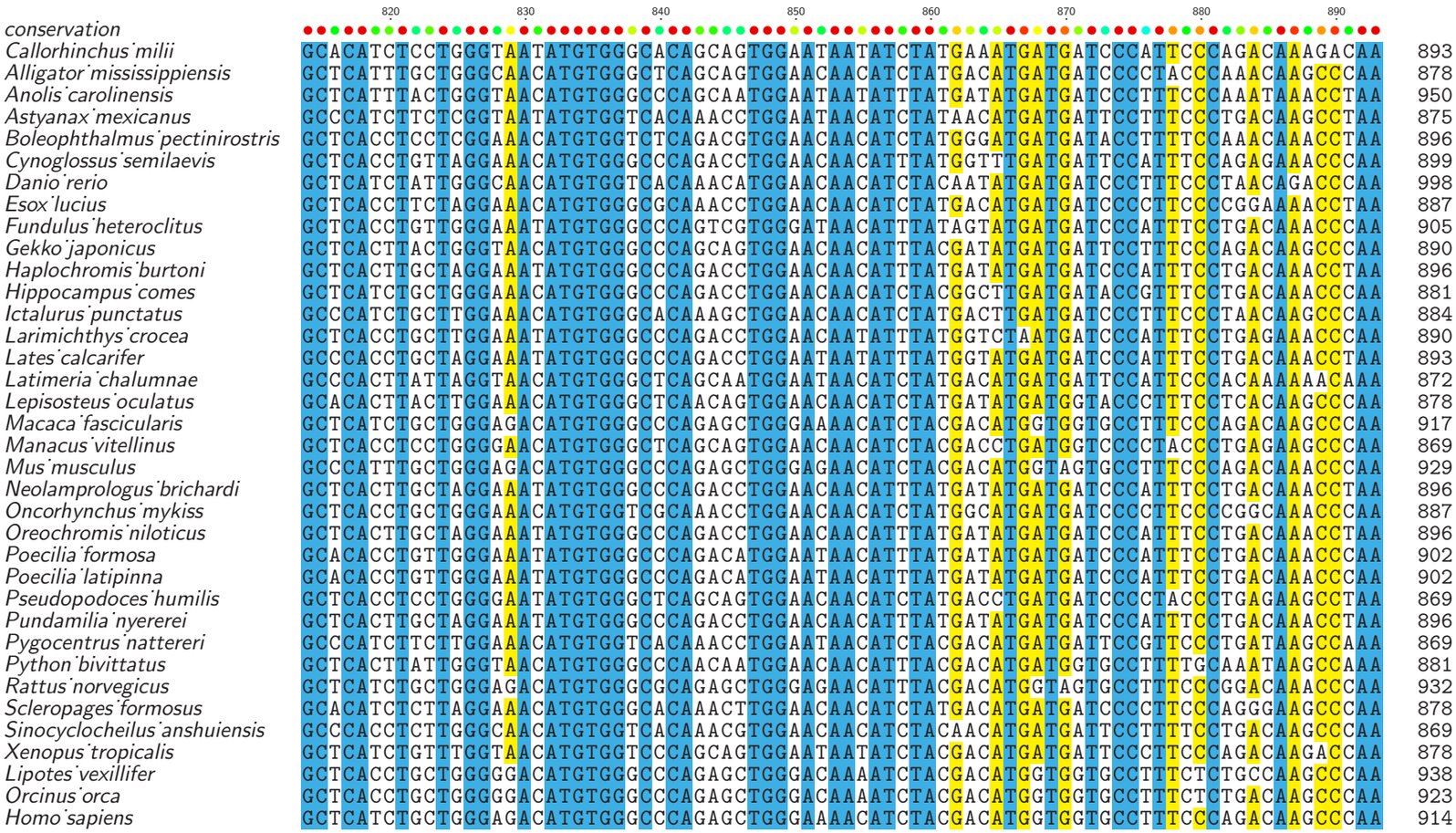
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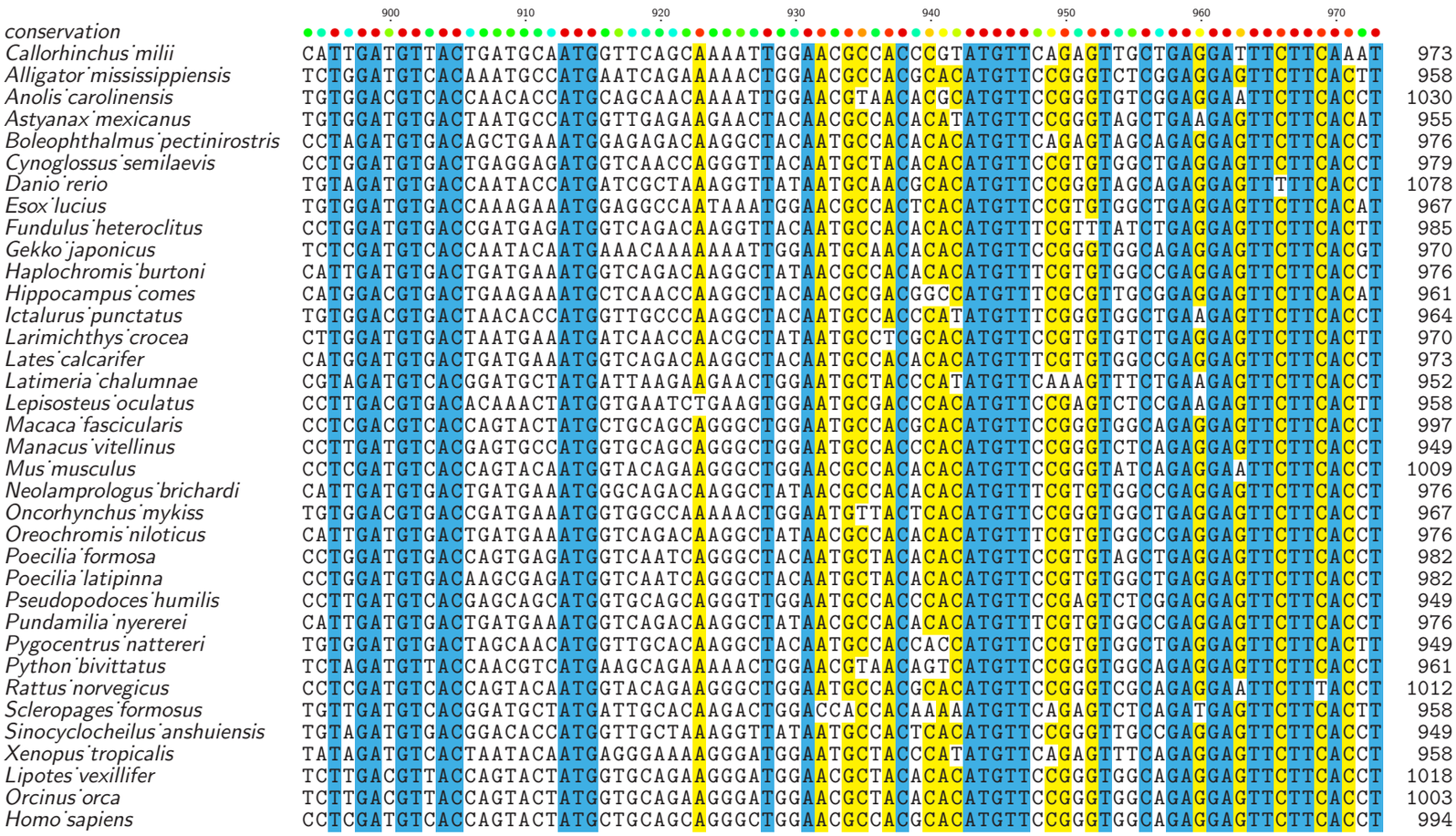
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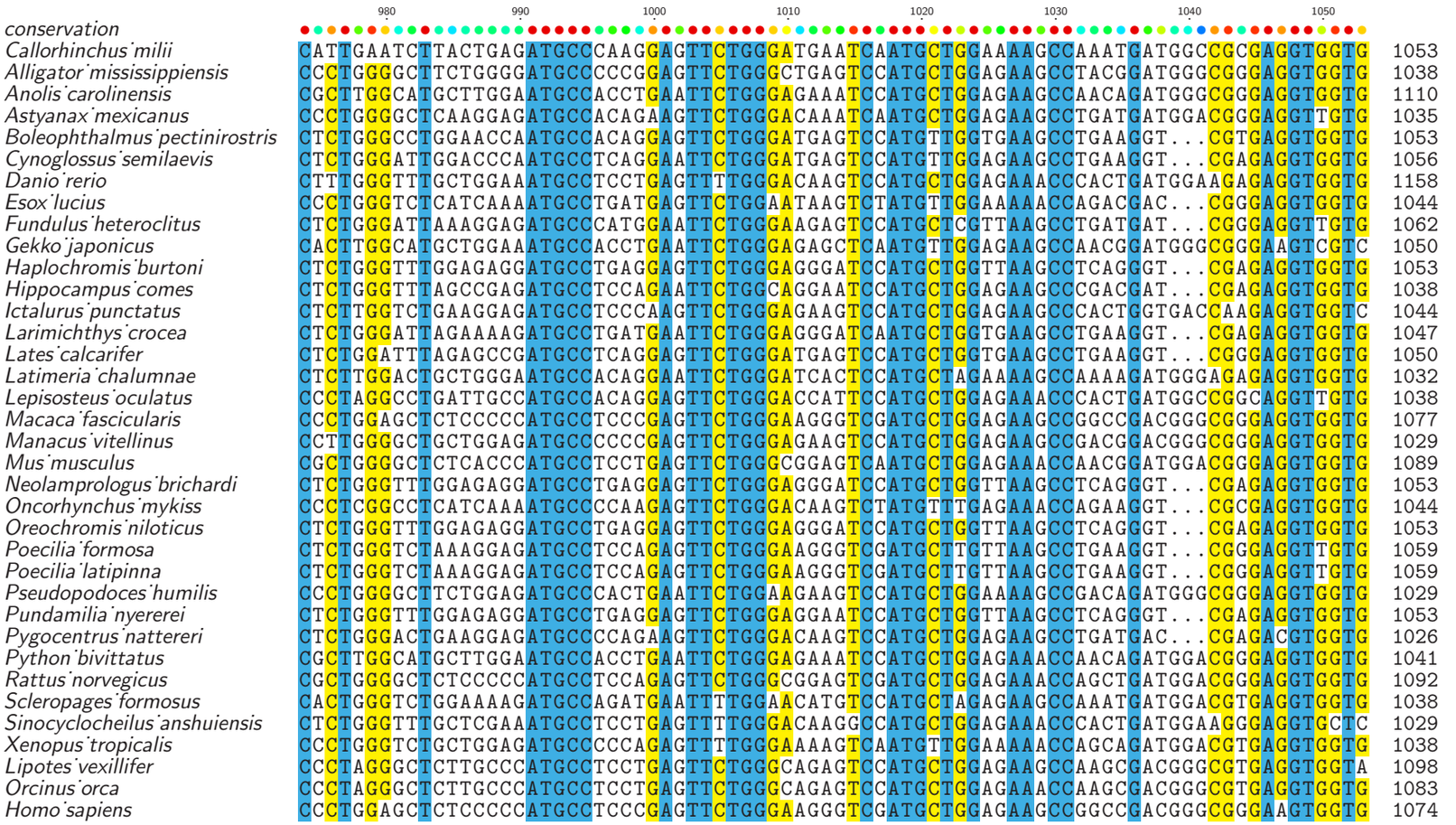
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Esox lucius
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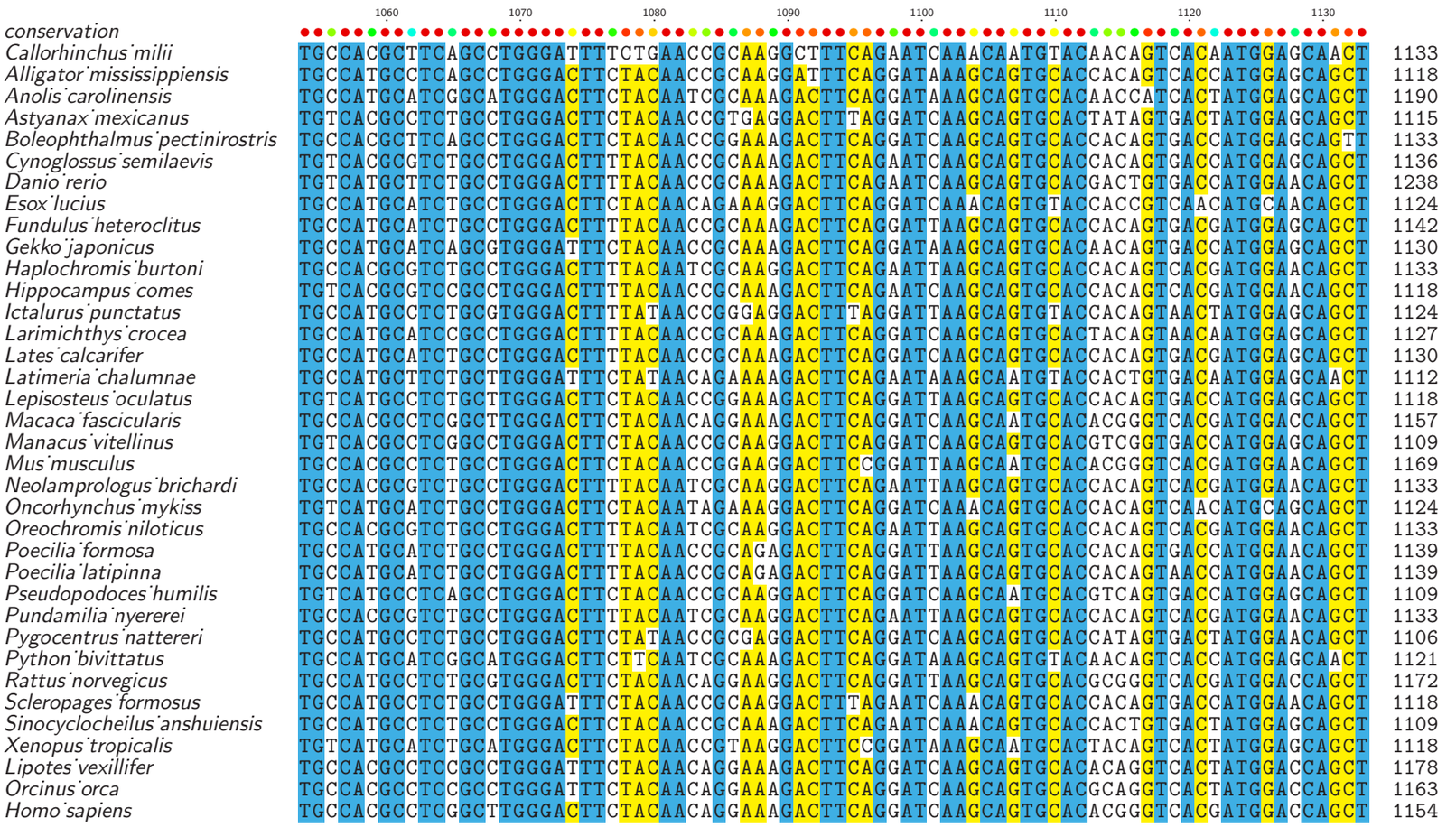
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Oreochromis niloticus
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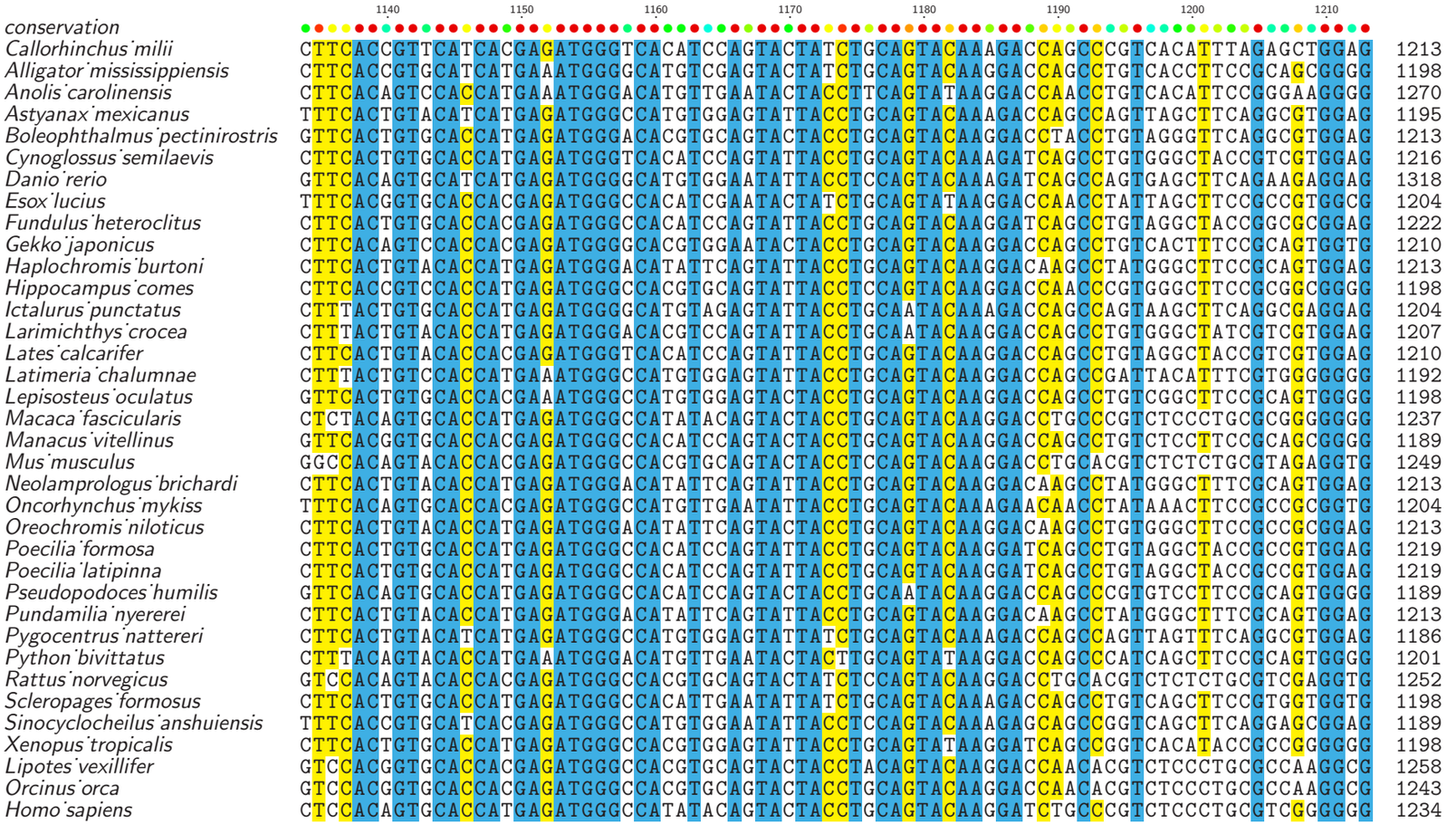
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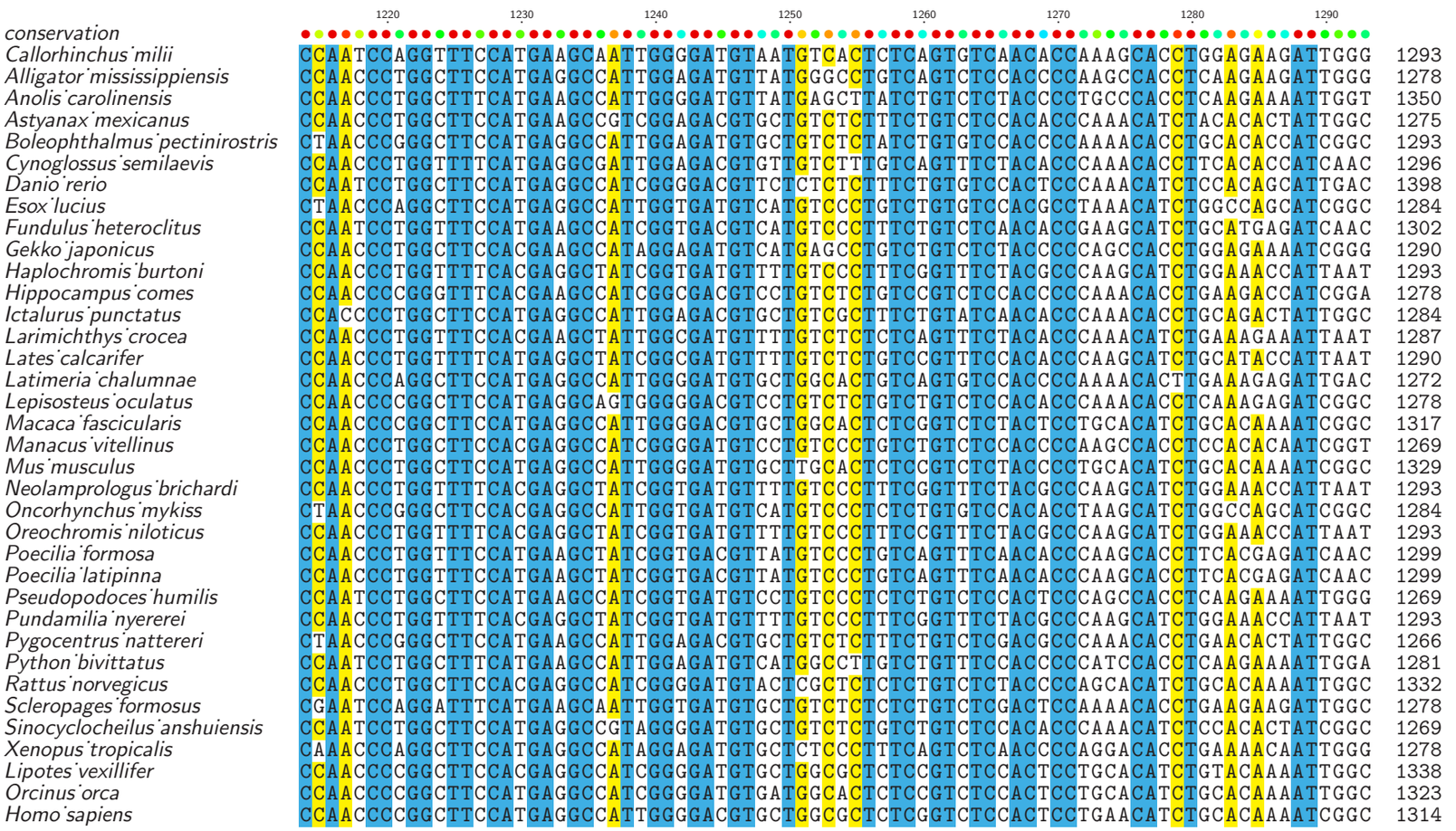
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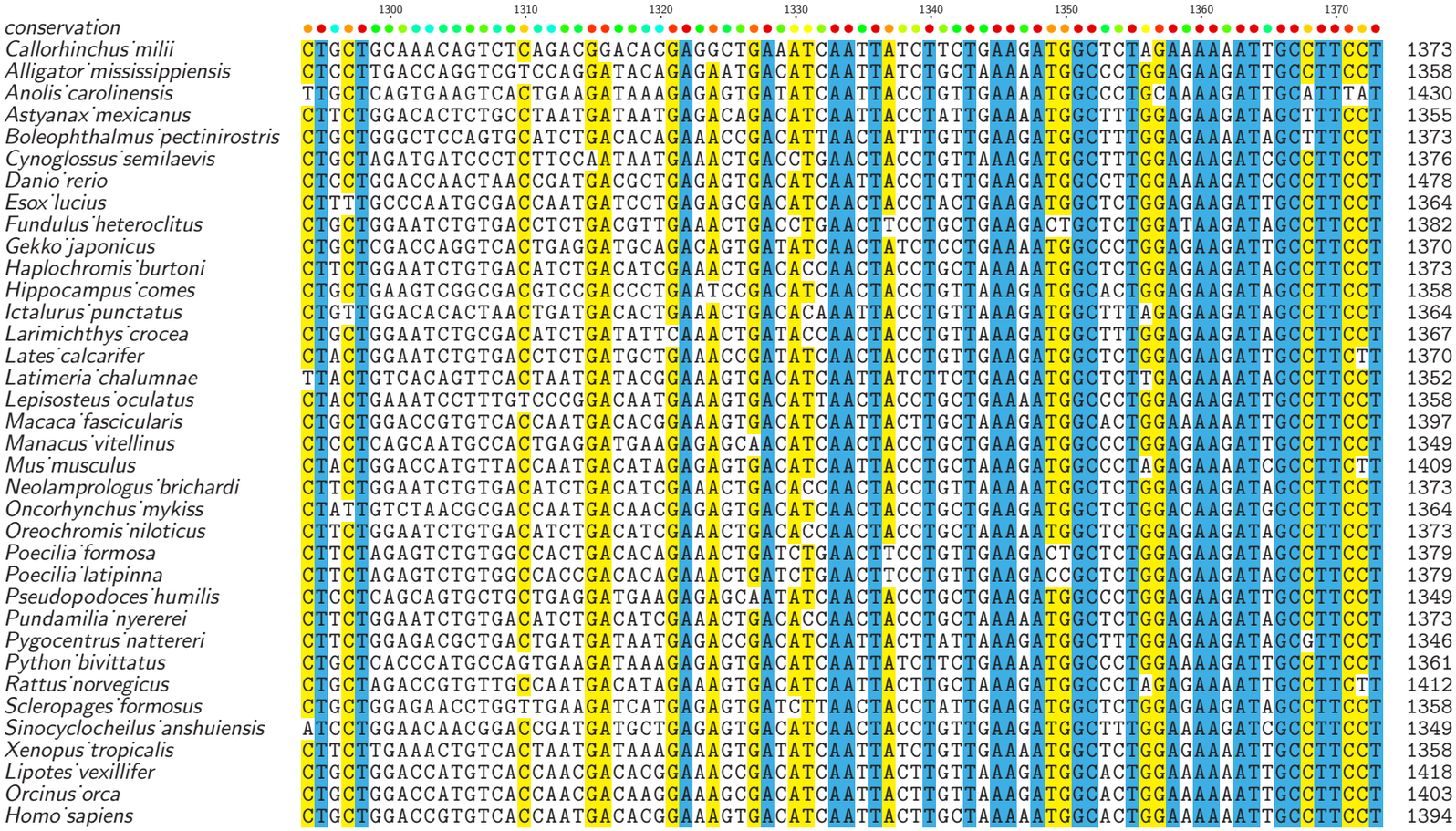
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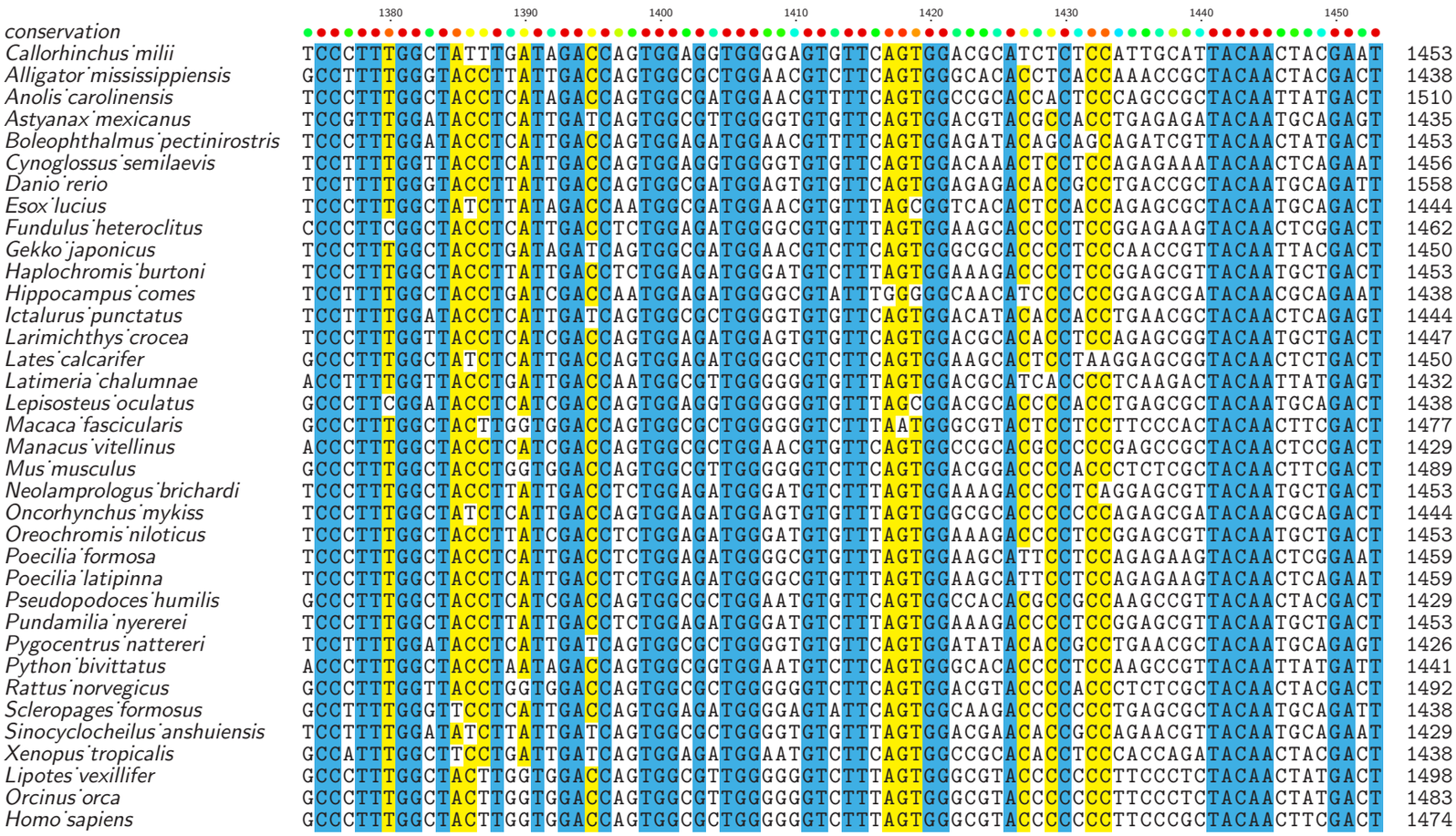
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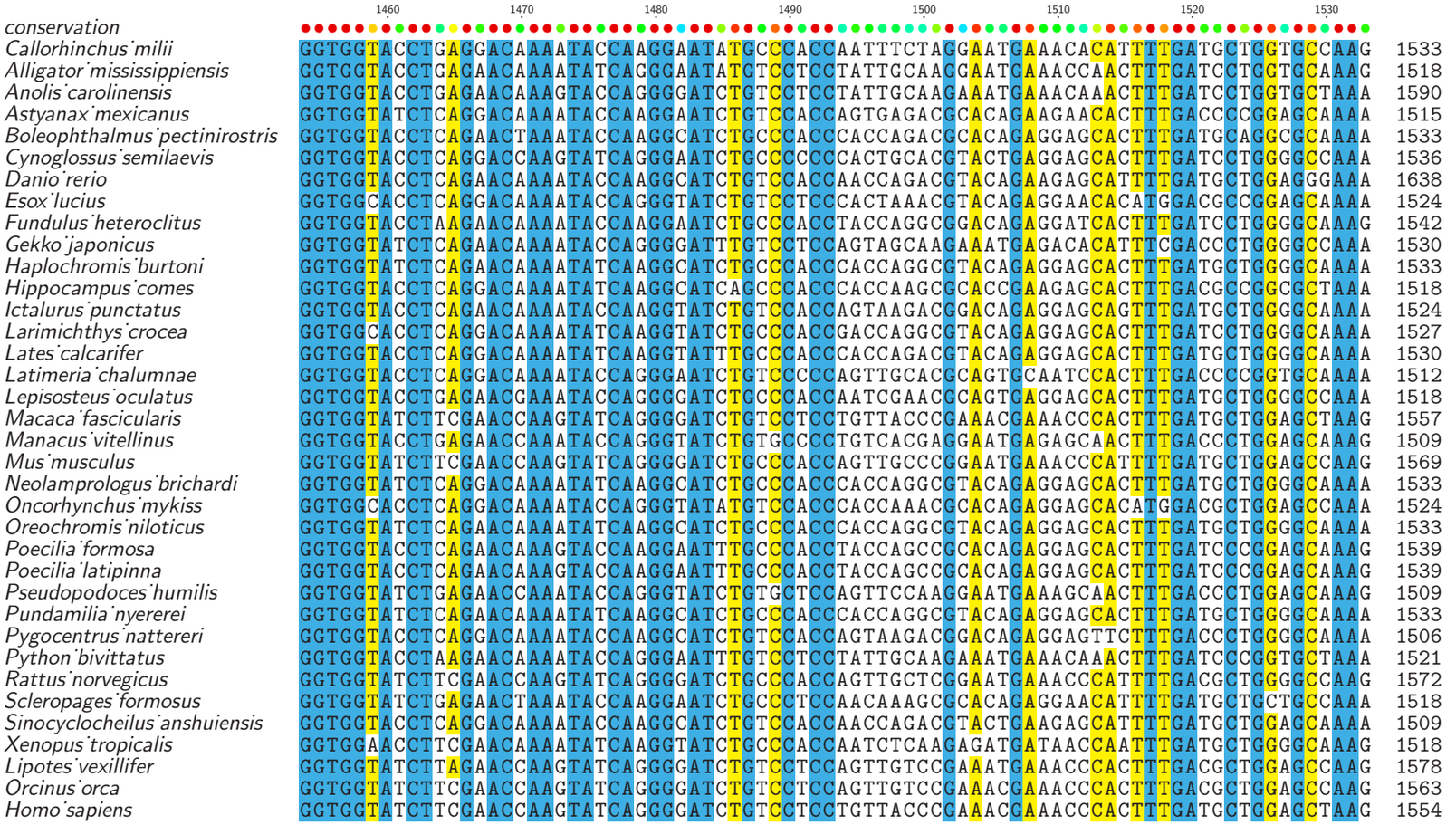
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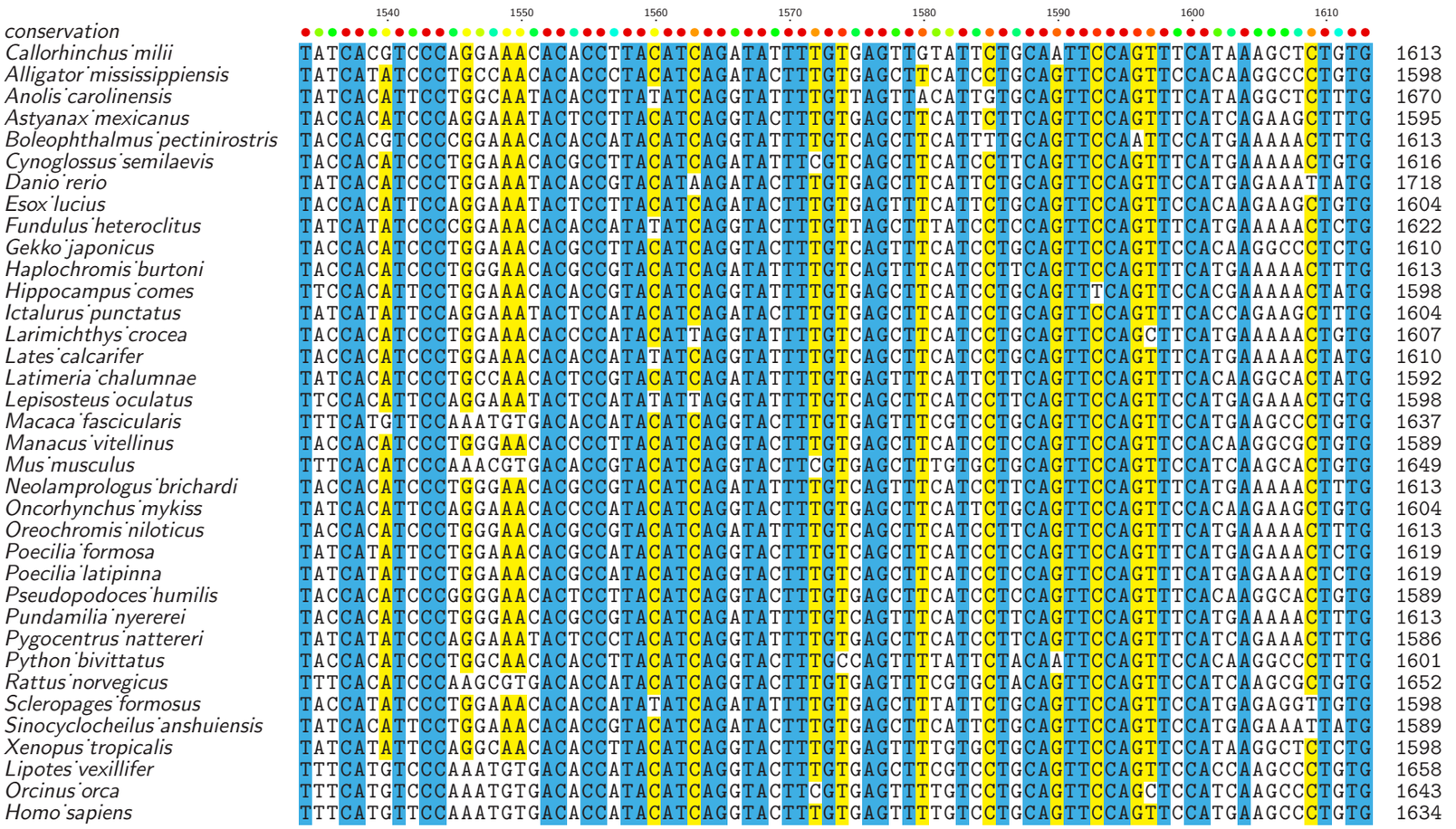
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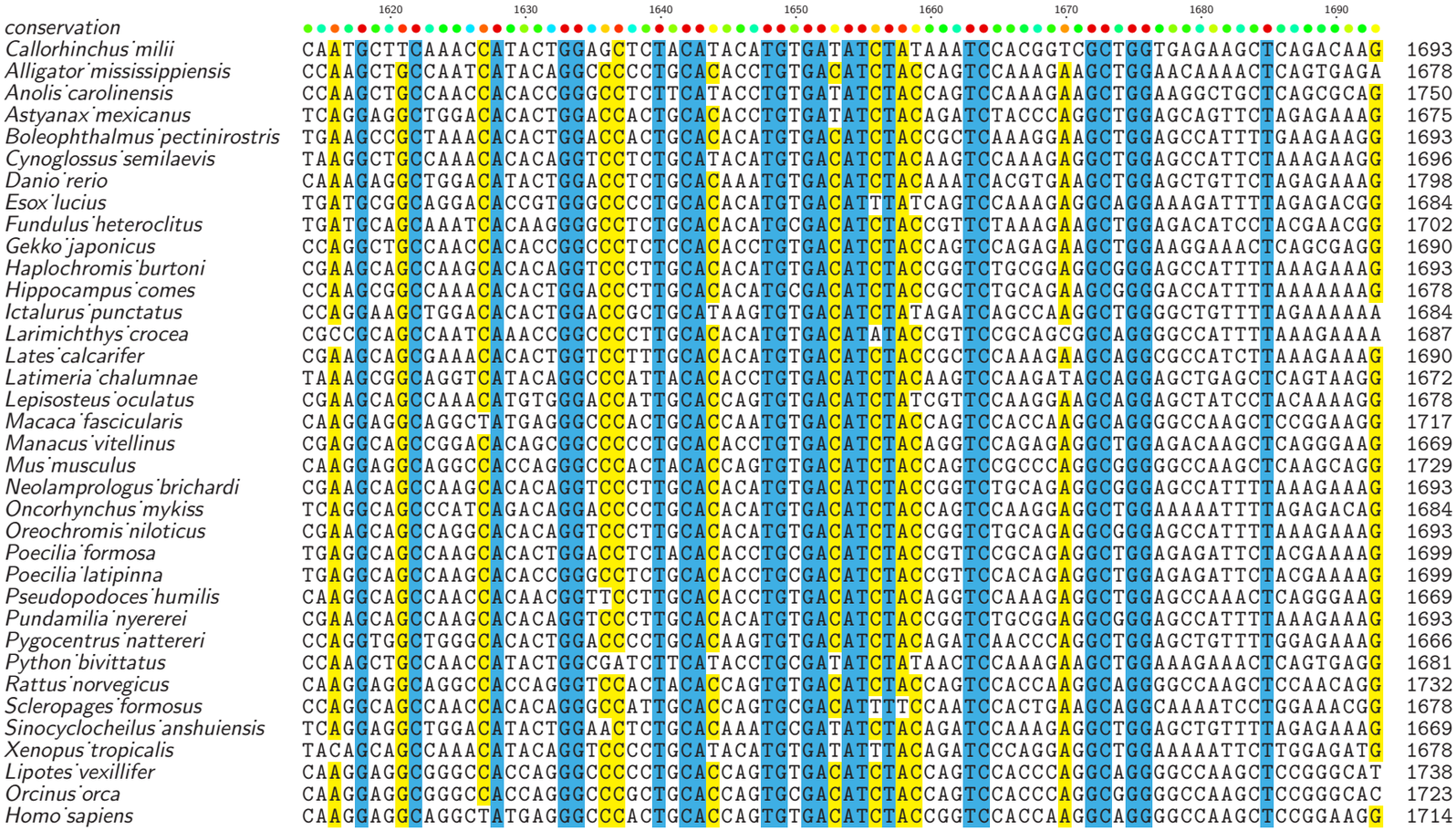
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Cynoglossus semilaevis TAAGGCTGCCAAACACACAGGTCCTCTGCATACATGTGACATCTACAAGTCCAAAGAGGCTGGAGCCATTCTAAAGAAGG 1696
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Hippocampus comes CCAAGCGGCCAAACACACTGGACCCTTGCACACATGCGACATCTACCGCTCTGCAGAAGGCGGGGACCATTTTAAAAAAAG 1678
Ictalurus punctatus CCAGGAAGCTGGACACACTGGACCGCTGCATAAGTGTGACATCTATAGATCAGCCAAGGCTGGGGCTGTTTTAGAAAAAA 1684
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Oreochromis niloticus CGAAGCAGCCAGGCACACAGGTCCCTTGCACACATGTGACATCTACCGGTCTGCAGAGGCGGGAGCCATTTTAAAGAAAG 1693
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Poecilia latipinna TGAGGCAGCCAAGCACACCGGGCCTCTGCACACCTGCGACATCTACCGTTCCACAGAGGCTGGAGAGATTCTACGAAAAG 1699
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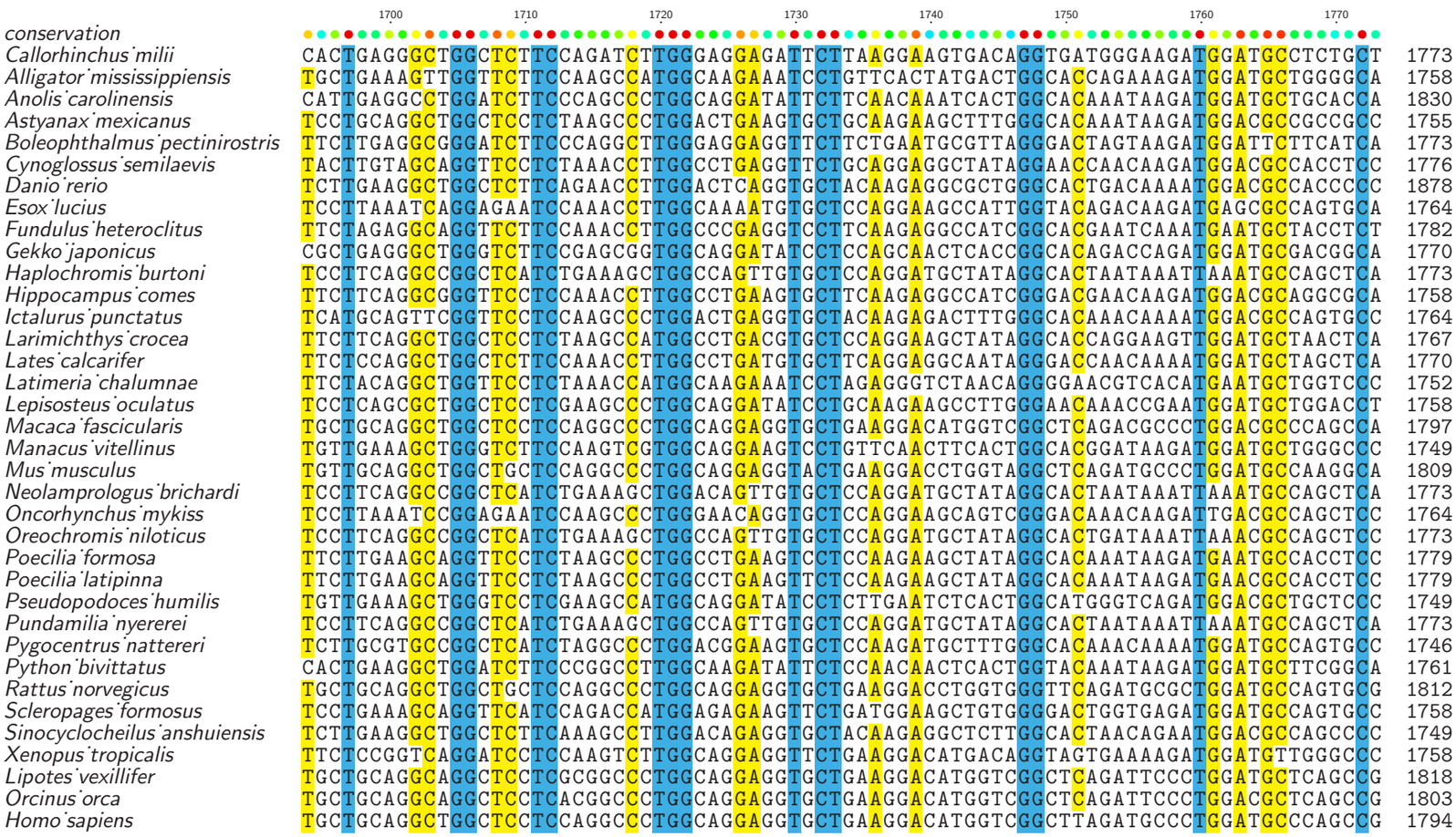
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Alligator mississippiensis TGCTGAAAGTTGGTTCTTCCAAGCCATGGCAAGAAATCCTGTTCACTATGACTGGCACCAGAAAGATGGATGCTGGGGCA 1758
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Pygocentrus nattereri TCTTGCGTGCCGGCTCATCTAGGCCCTGGACGGAAGTGCTCCAAGATGCTTTGGGCACAAACAAAATGGATGCCAGTGCC 1746
Python bivittatus CACTGAAGGCTGGATCTTCCCGGCCTTGGCAAGATATTCTCCAACAACTCACTGGTACAAATAAGATGGATGCTTCGGCA 1761
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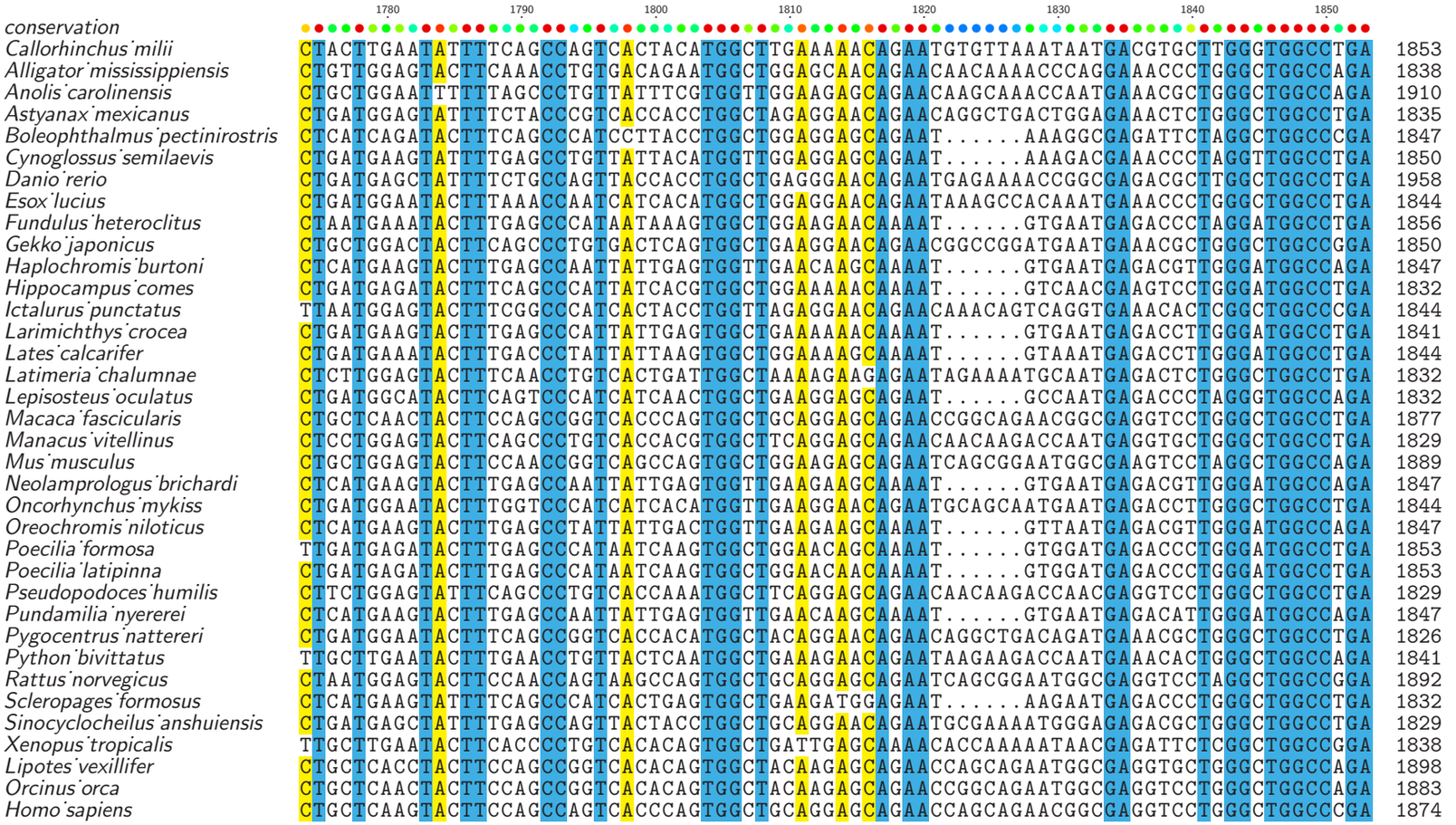
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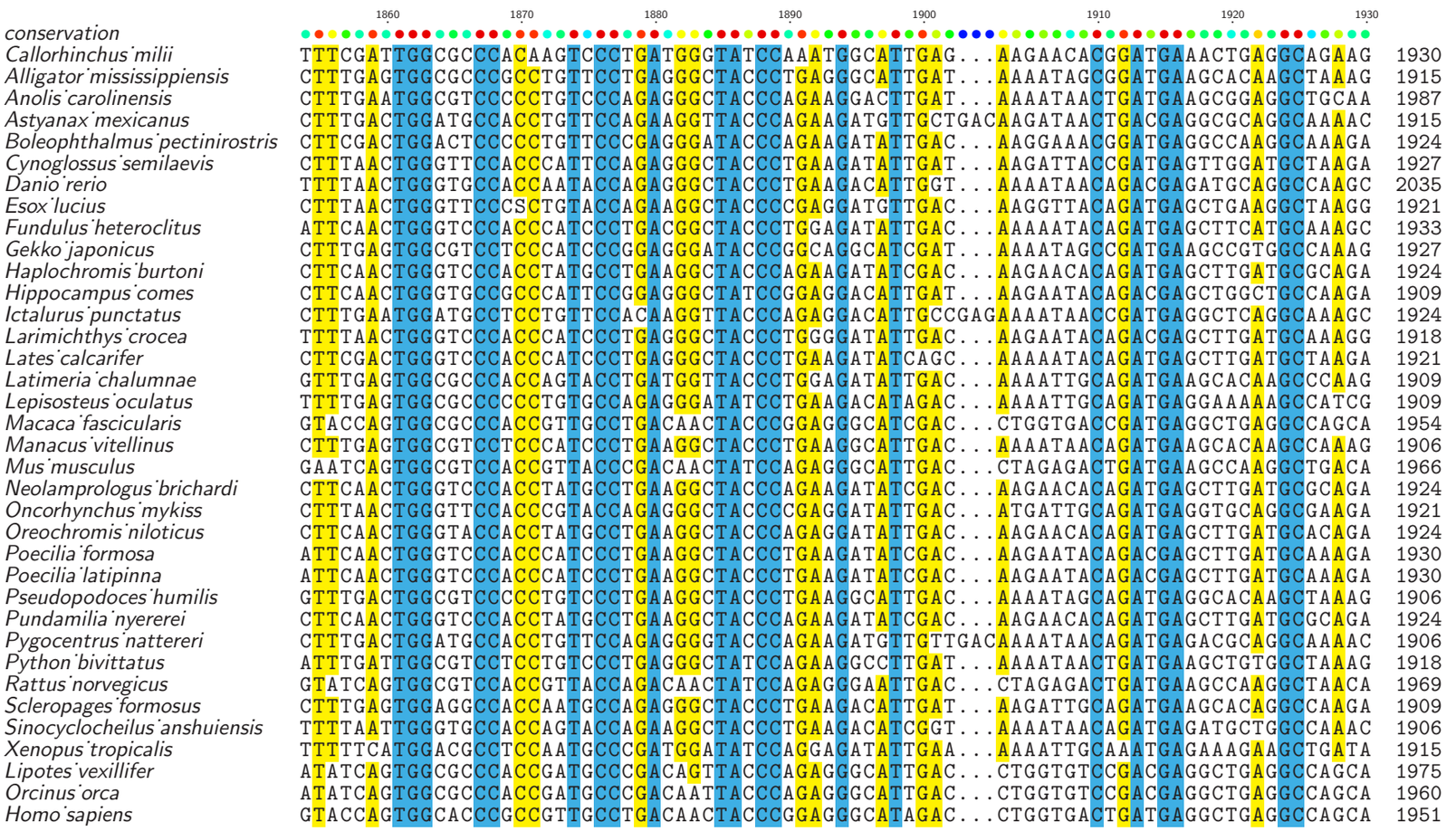
conservation
Callorhinchus milii 1853
Alligator mississippiensis 1838
Anolis carolinensis 1910
Astyanax mexicanus 1835
Boleophthalmus pectinirostris 1847
Cynoglossus semilaevis 1850
Danio rerio 1958
Esox lucius 1844
Fundulus heteroclitus 1856
Gekko japonicus 1850
Haplochromis burtoni 1847
Hippocampus comes 1832
Ictalurus punctatus 1844
Larimichthys crocea 1841
Lates calcarifer 1844
Latimeria chalumnae 1832
Lepisosteus oculatus 1832
Macaca fascicularis 1877
Manacus vitellinus 1829
Mus musculus 1889
Neolamprologus brichardi 1847
Oncorhynchus mykiss 1844
Oreochromis niloticus 1847
Poecilia formosa 1853
Poecilia latipinna 1853
Pseudopodoces humilis 1829
Pundamilia nyererei 1847
Pygocentrus nattereri 1826
Python bivittatus 1841
Rattus norvegicus 1892
Scleropages formosus 1832
Sinocyclocheilus anshuiensis 1829
Xenopus tropicalis 1838
Lipotes vexillifer 1898
Orcinus orca 1883
Homo sapiens 1874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Callorhinchus milii 1930
Alligator mississippiensis 1915
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Astyanax mexicanus 1915
Boleophthalmus pectinirostris 1924
Cynoglossus semilaevis 1927
Danio rerio 2035
Esox lucius 1921
Fundulus heteroclitus 1933
Gekko japonicus 1927
Haplochromis burtoni 1924
Hippocampus comes 1909
Ictalurus punctatus 1924
Larimichthys crocea 1918
Lates calcarifer 1921
Latimeria chalumnae 1909
Lepisosteus oculatus 1909
Macaca fascicularis 1954
Manacus vitellinus 1906
Mus musculus 1966
Neolamprologus brichardi 1924
Oncorhynchus mykiss 1921
Oreochromis niloticus 1924
Poecilia formosa 1930
Poecilia latipinna 1930
Pseudopodoces humilis 1906
Pundamilia nyererei 1924
Pygocentrus nattereri 1906
Python bivittatus 1918
Rattus norvegicus 1969
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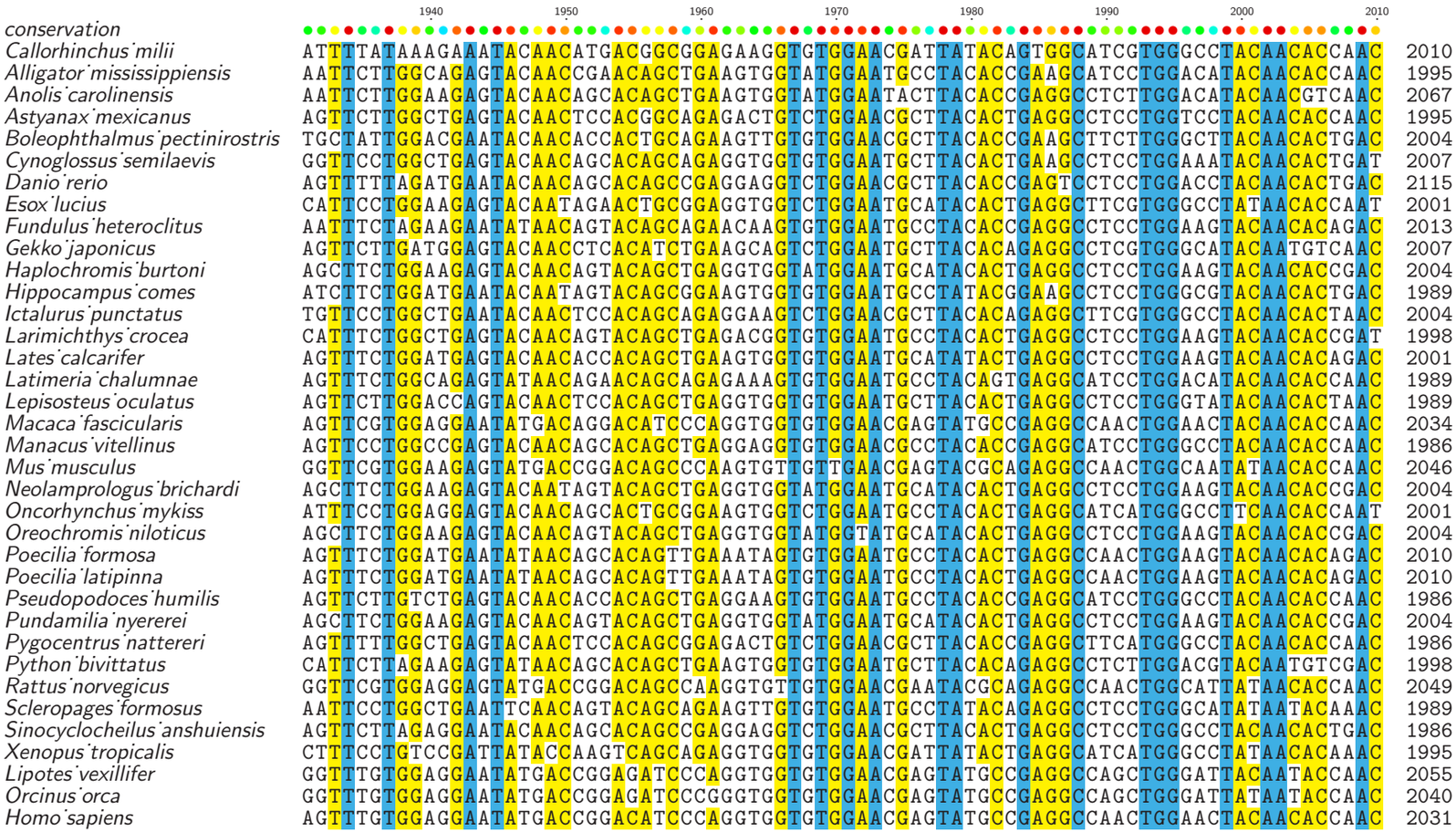
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Cynoglossus semilaevis GGTTCCTGGCTGAGTACAACAGCACAGCAGAGGTGGTGTGGAATGCTTACACTGAAGCCTCCTGGAAATACAACACTGAT 2007
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Fundulus heteroclitus AATTTCTAGAAGAATATAACAGTACAGCAGAACAAGTGTGGAATGCCTACACCGAGGCCTCCTGGAAGTACAACACAGAC 2013
Gekko japonicus AGTTCTTGATGGAGTACAACCTCACATCTGAAGCAGTCTGGAATGCTTACACAGAGGCCTCGTGGGCATACAATGTCAAC 2007
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Ictalurus punctatus TGTTCCTGGCTGAATACAACTCCACAGCAGAGGAAGTCTGGAACGCTTACACAGAGGCTTCGTGGGCCTACAACACTAAC 2004
Larimichthys crocea CATTTCTGGCTGAGTACAACAGTACAGCTGAGACGGTGTGGAATGCCTACACTGAGGCCTCCTGGAAGTACAACACCGAT 1998
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Rattus norvegicus GGTTCGTGGAGGAGTATGACCGGACAGCCAAGGTGTTGTGGAACGAATACGCAGAGGCCAACTGGCATTATAACACCAAC 2049
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Sinocyclocheilus anshuiensis AGTTCTTAGAGGAATACAACAGCACAGCCGAGGAGGTCTGGAACGCTTACACTGAGGCCTCCTGGGCCTACAACACTGAC 1986
Xenopus tropicalis CTTTCCTGTCCGATTATACCAAGTCAGCAGAGGTGGTGTGGAACGATTATACTGAGGCATCATGGGCCTATAACACAAAC 1995
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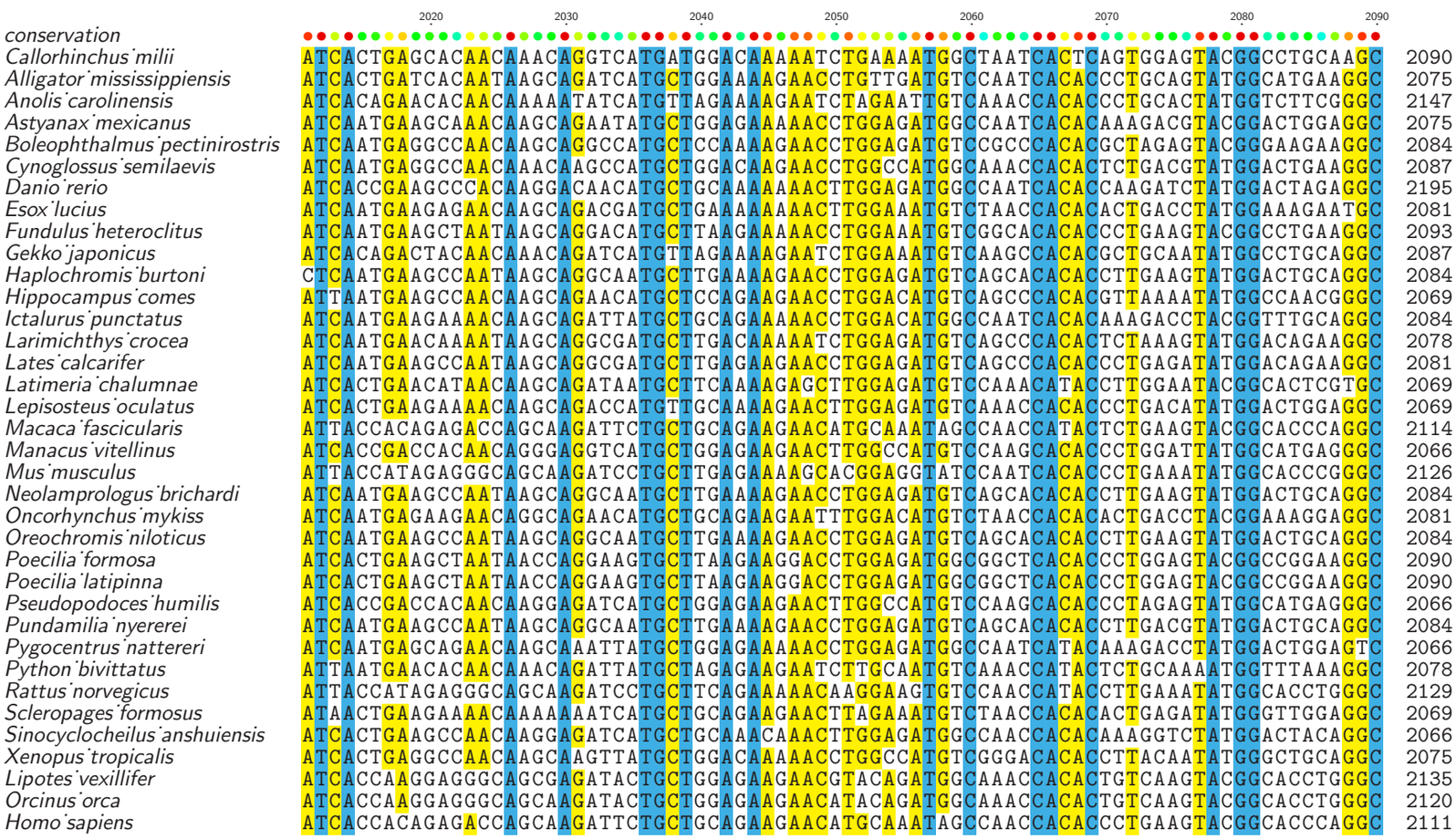
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Rattus norvegicus ATTACCATAGAGGGCAGCAAGATCCTGCTTCAGAAAAACAAGGAAGTGTCCAACCATACCTTGAAATATGGCACCTGGGC 2129
Scleropages formosus ATAACTGAAGAAAACAAAAAAATCATGCTGCAGAAGAACTTAGAAATGTCTAACCACACTGAGATATGGGTTGGAGGC 2069
Sinocyclocheilus anshuiensis ATCACTGAAGCCAACAAGGAGATCATGCTGCAAACAAACTTGGAGATGGCCAACCACACAAAGGTCTATGGACTGAGGC 2066
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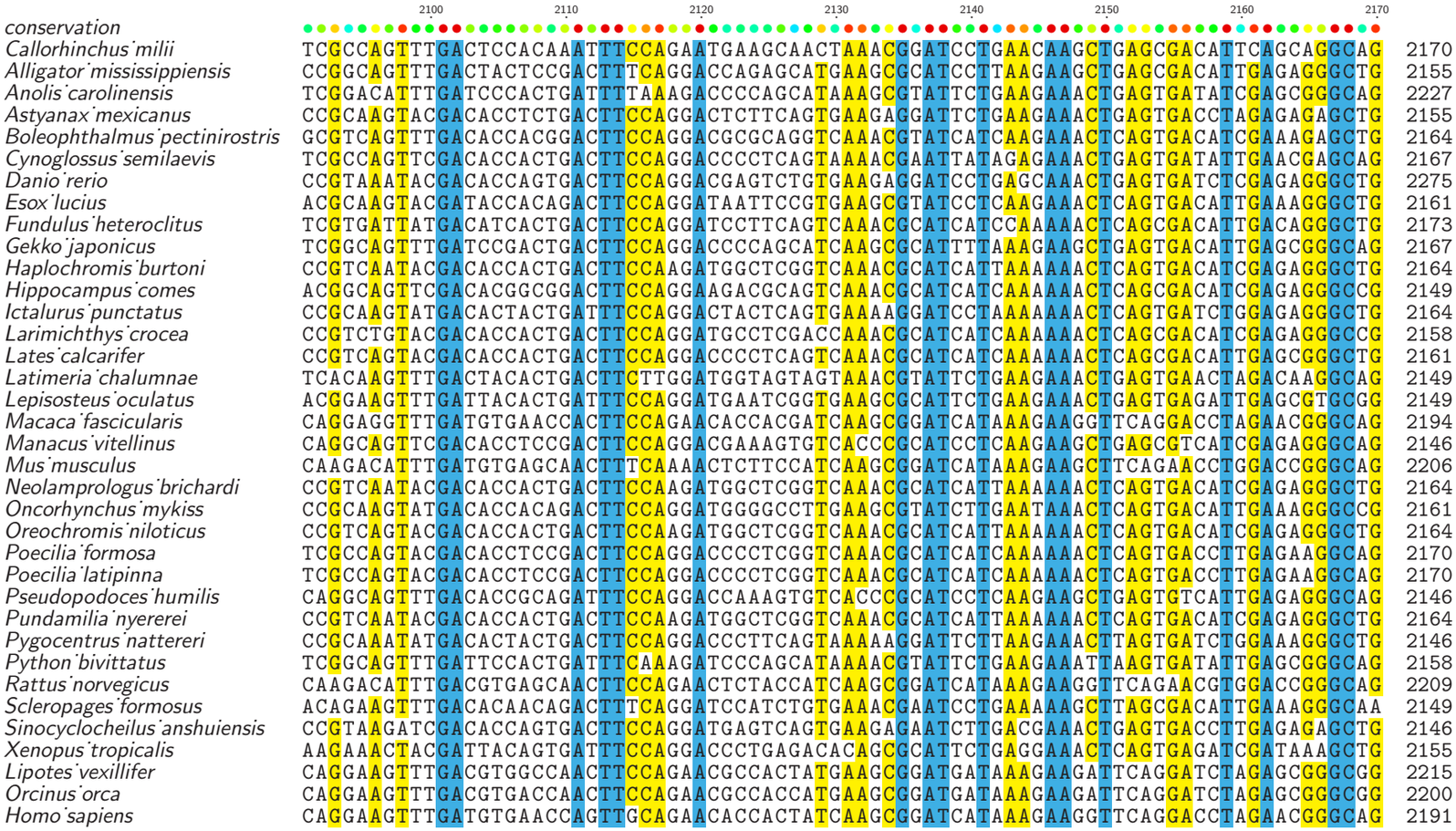
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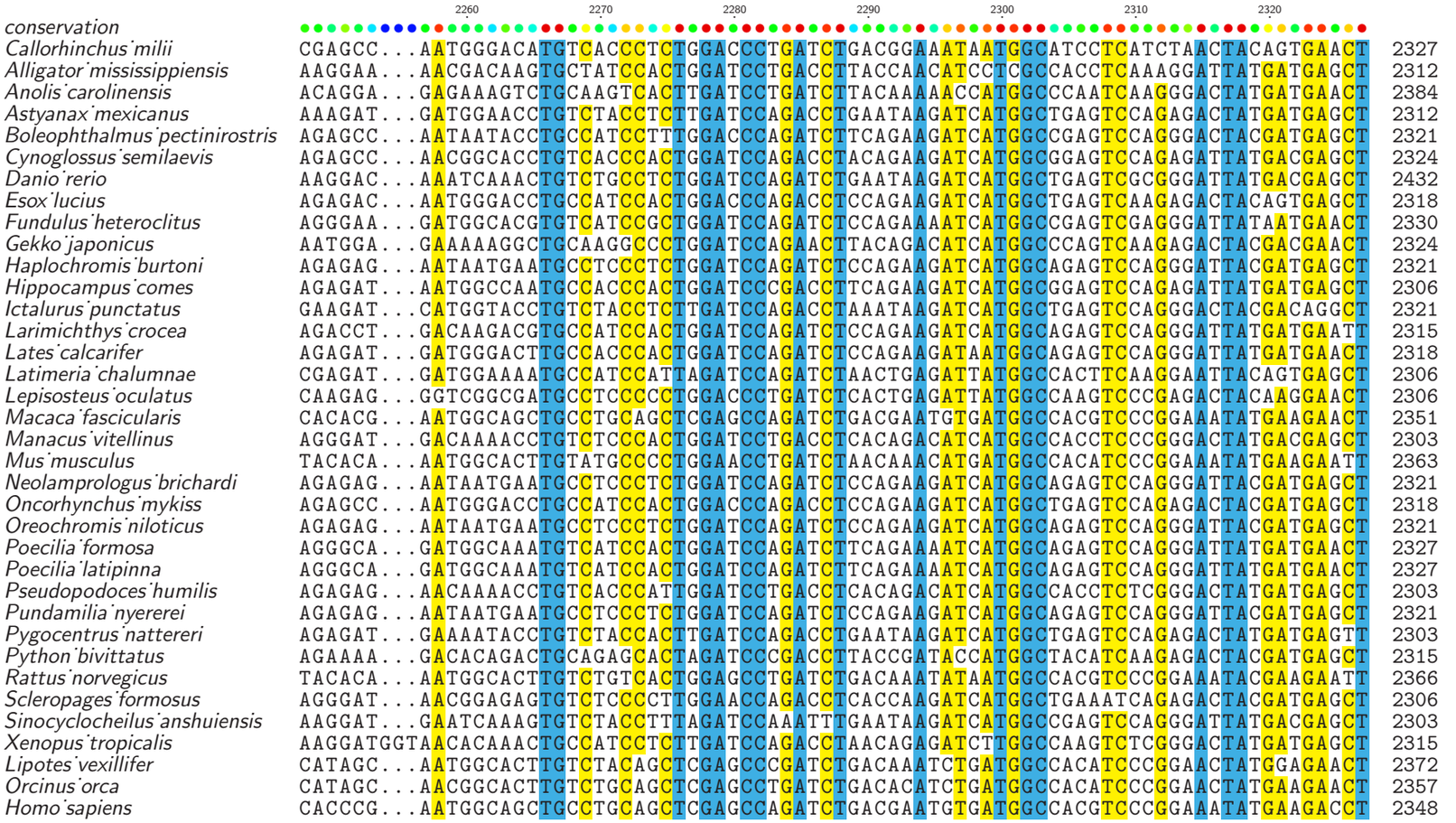
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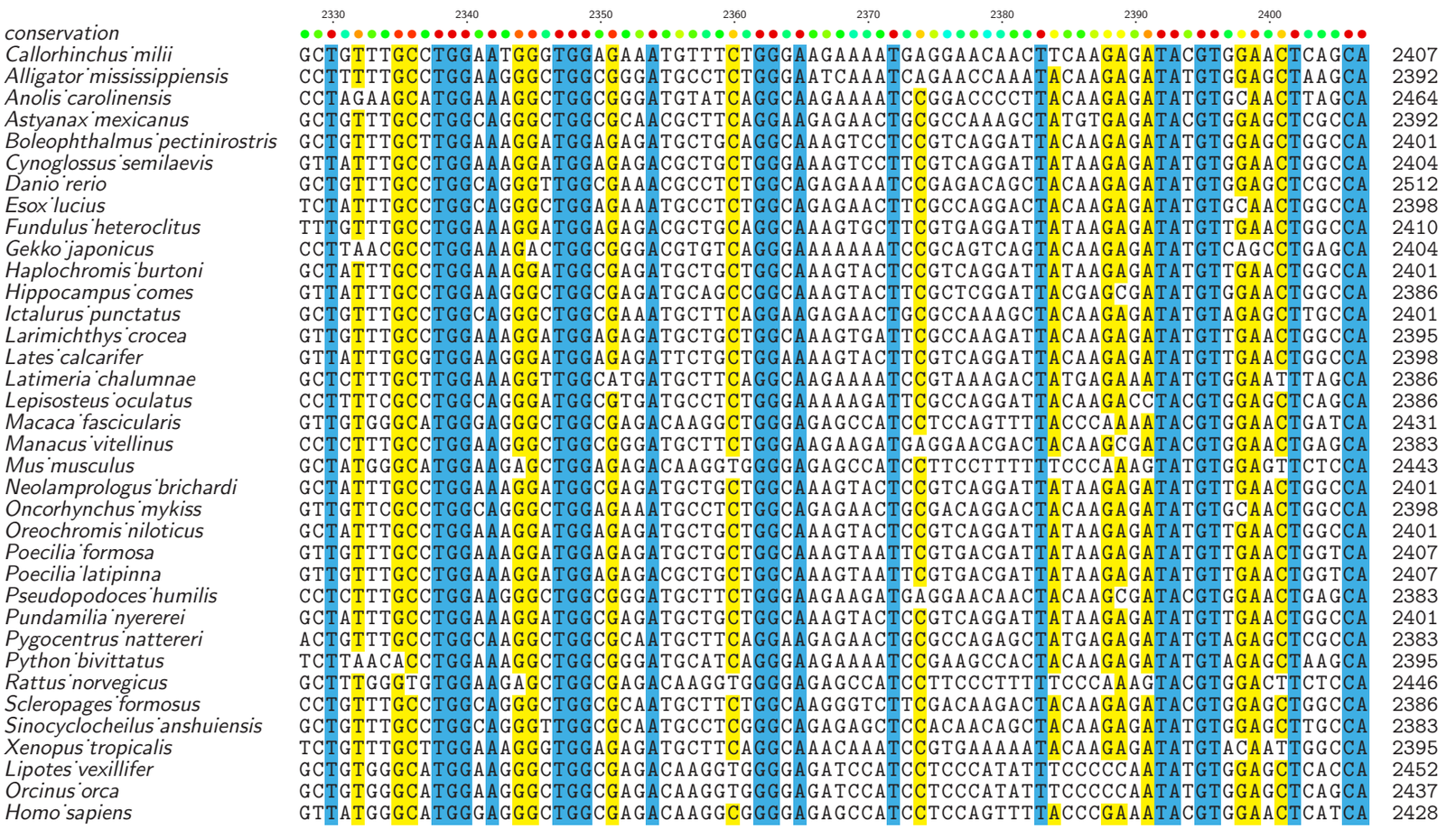
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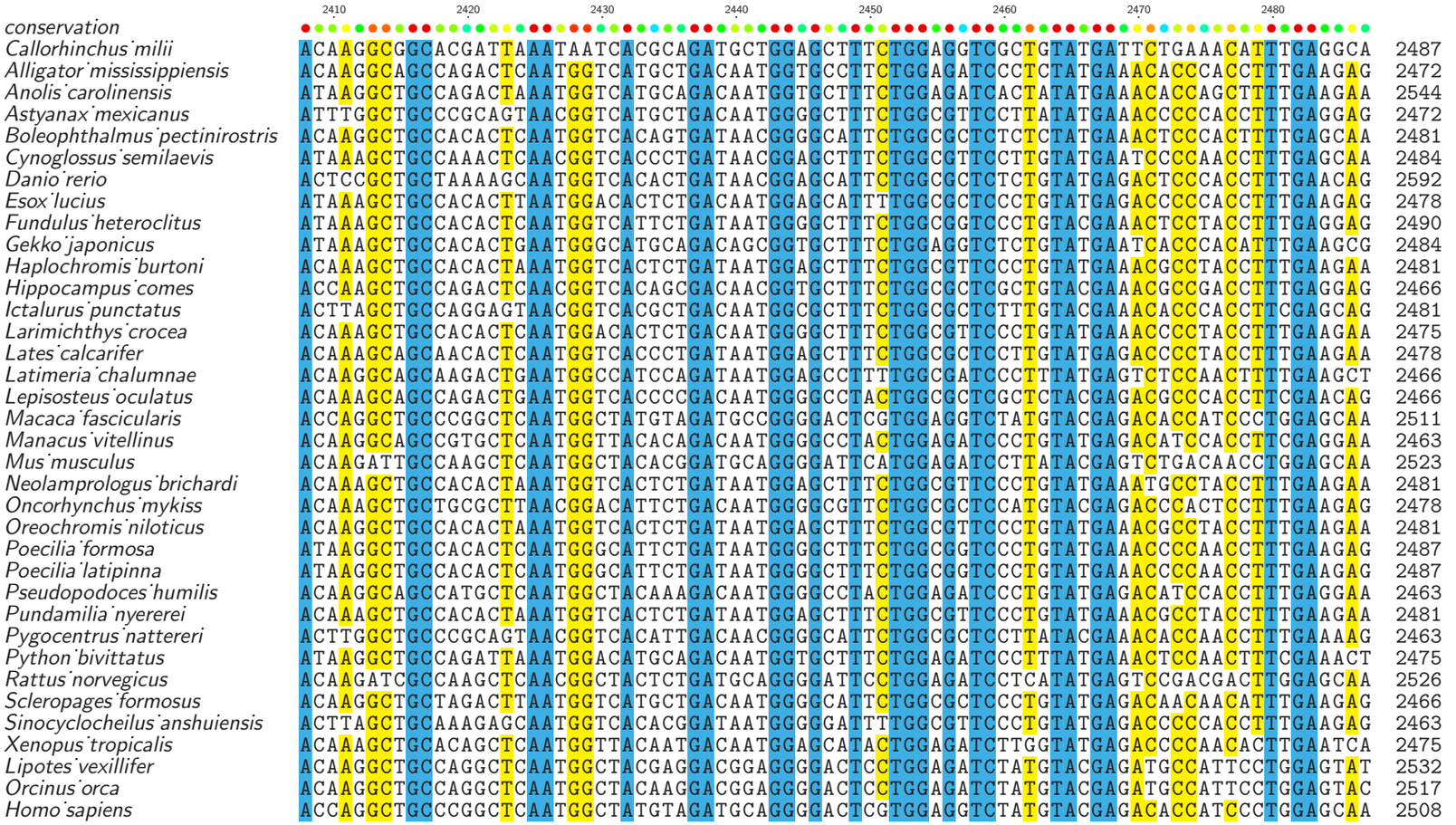
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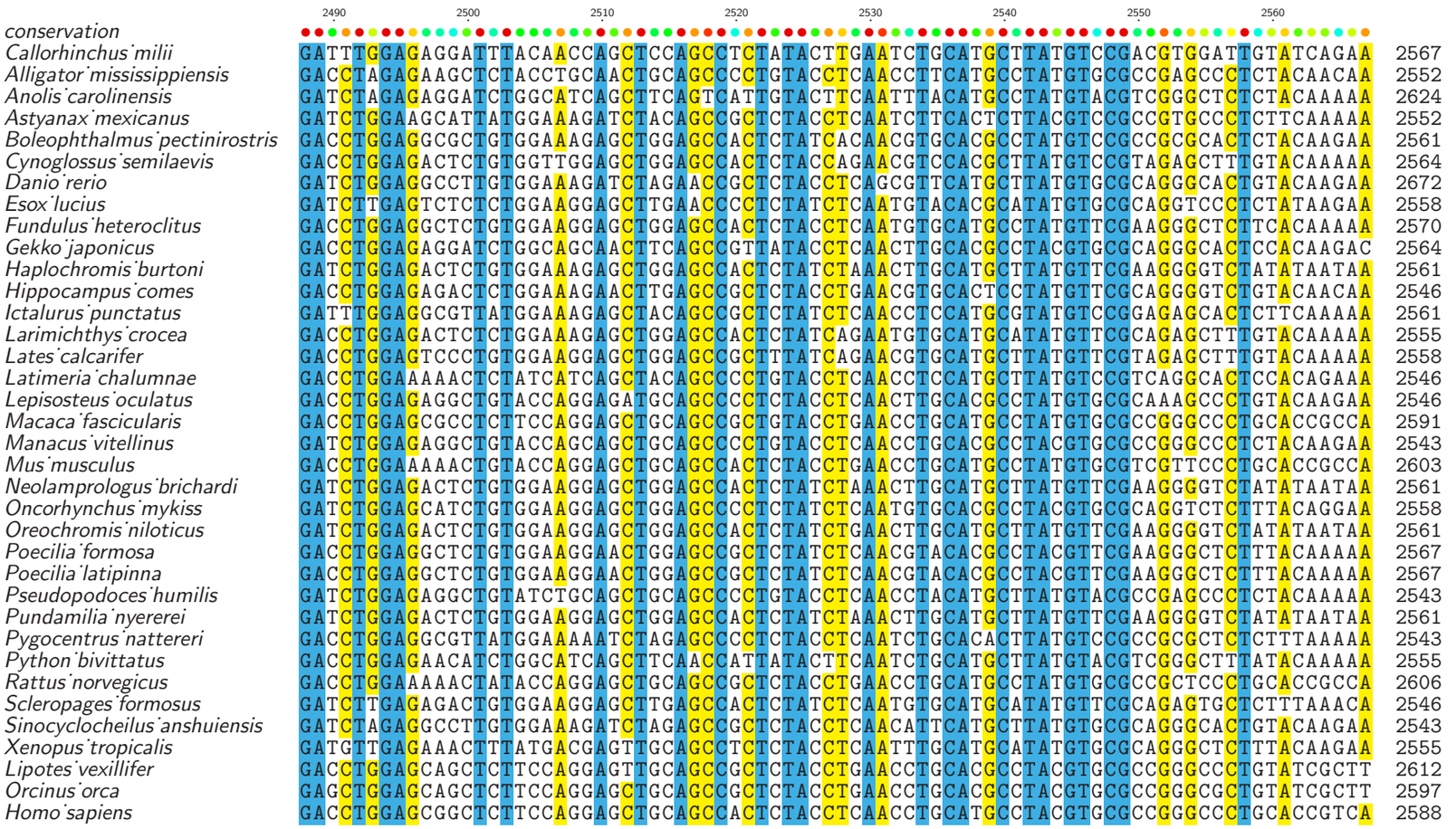
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Latimeria chalumnae 2546
Lepisosteus oculatus 2546
Macaca fascicularis 2591
Manacus vitellinus 2543
Mus musculus 2603
Neolamprologus brichardi 2561
Oncorhynchus mykiss 2558
Oreochromis niloticus 2561
Poecilia formosa 2567
Poecilia latipinna 2567
Pseudopodoces humilis 2543
Pundamilia nyererei 2561
Pygocentrus nattereri 2543
Python bivittatus 2555
Rattus norvegicus 2606
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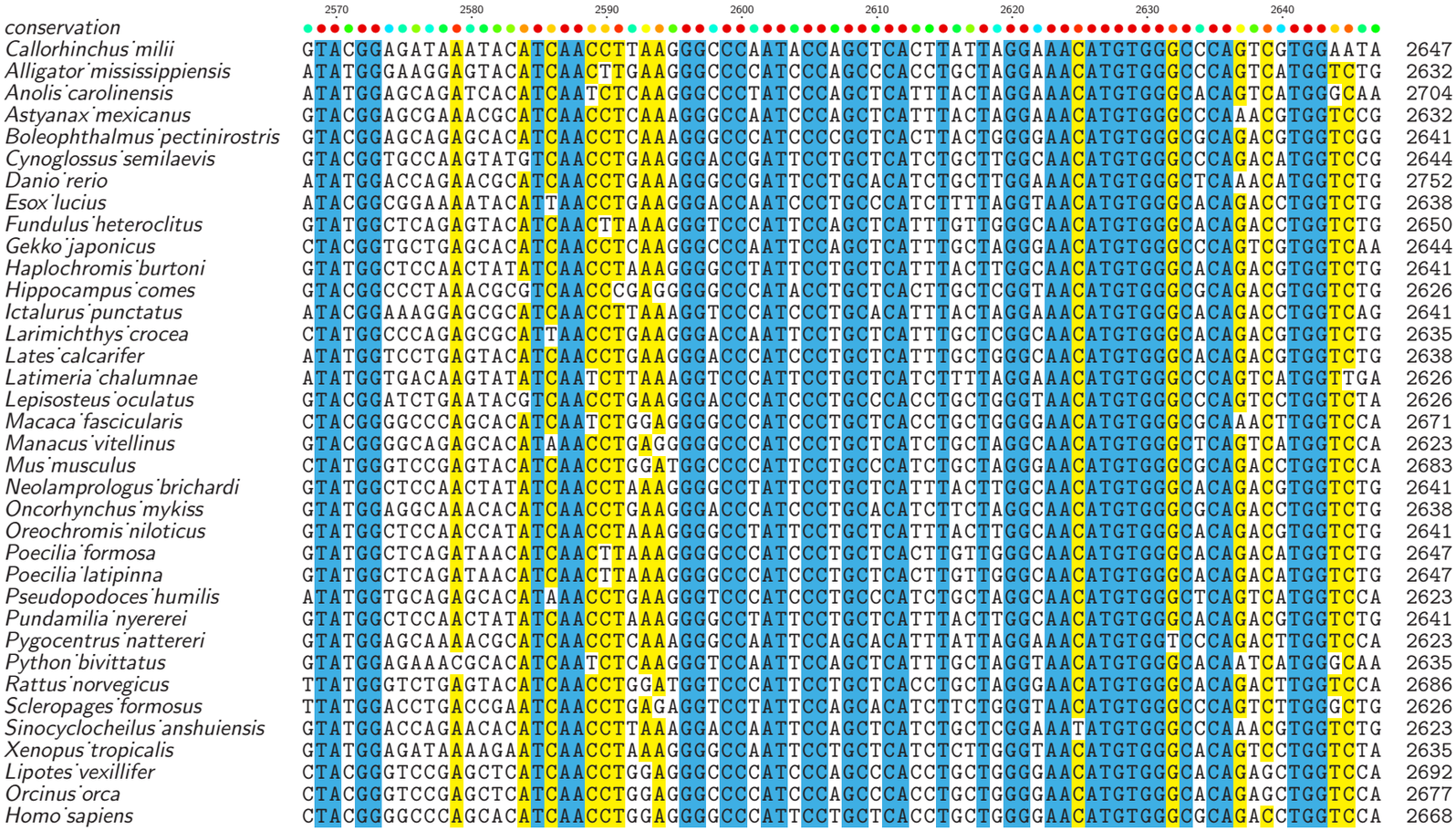
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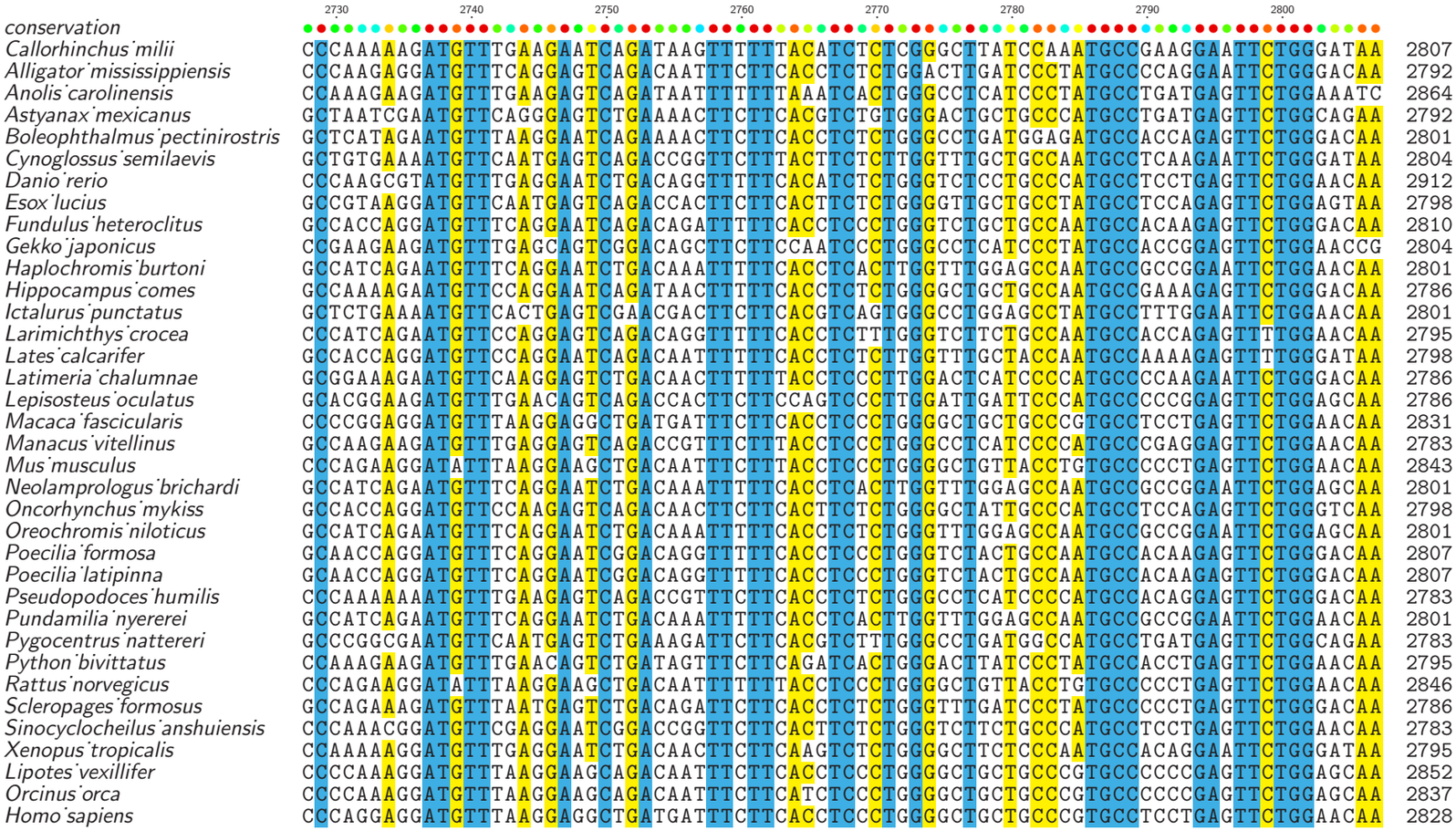
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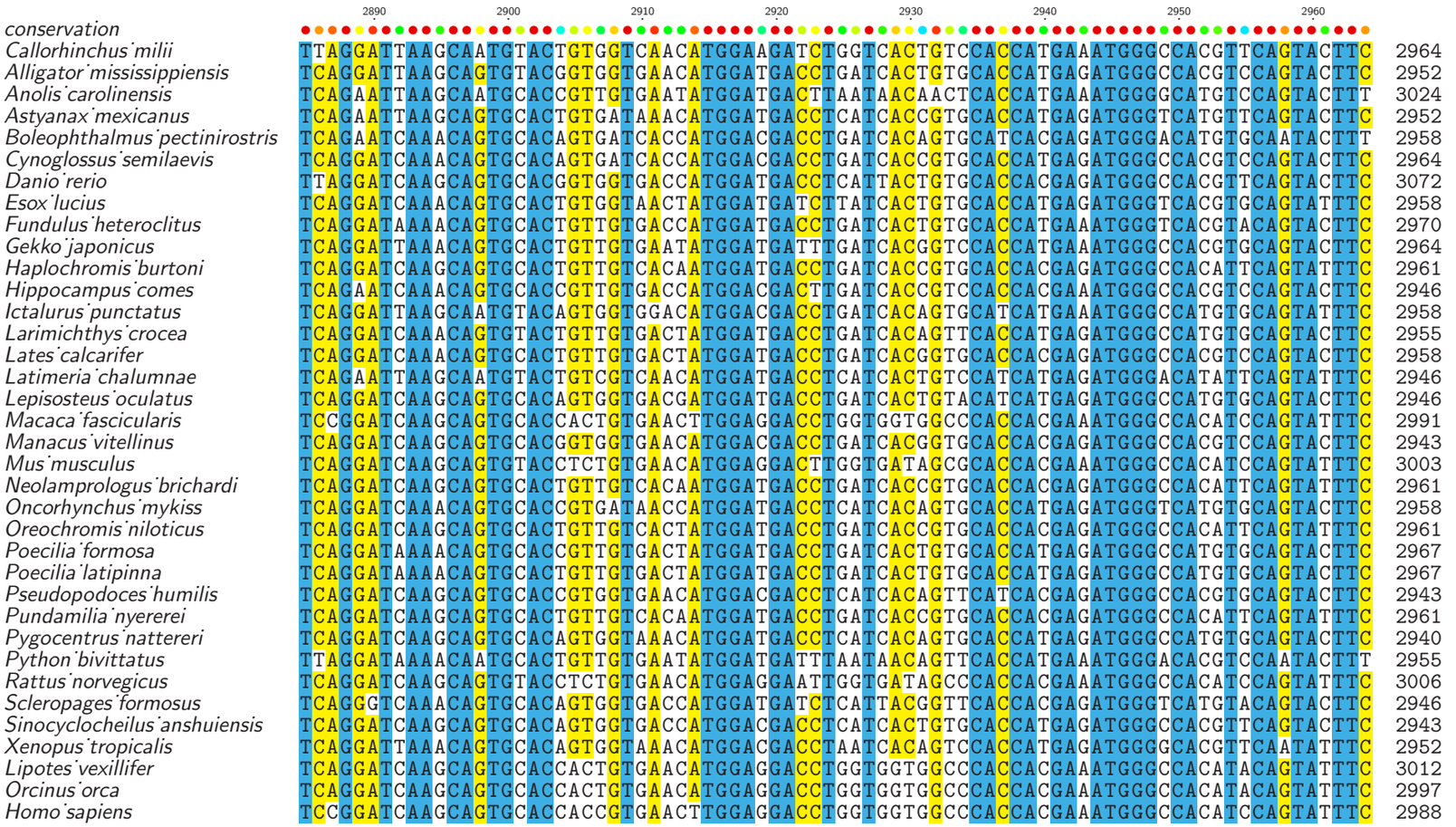
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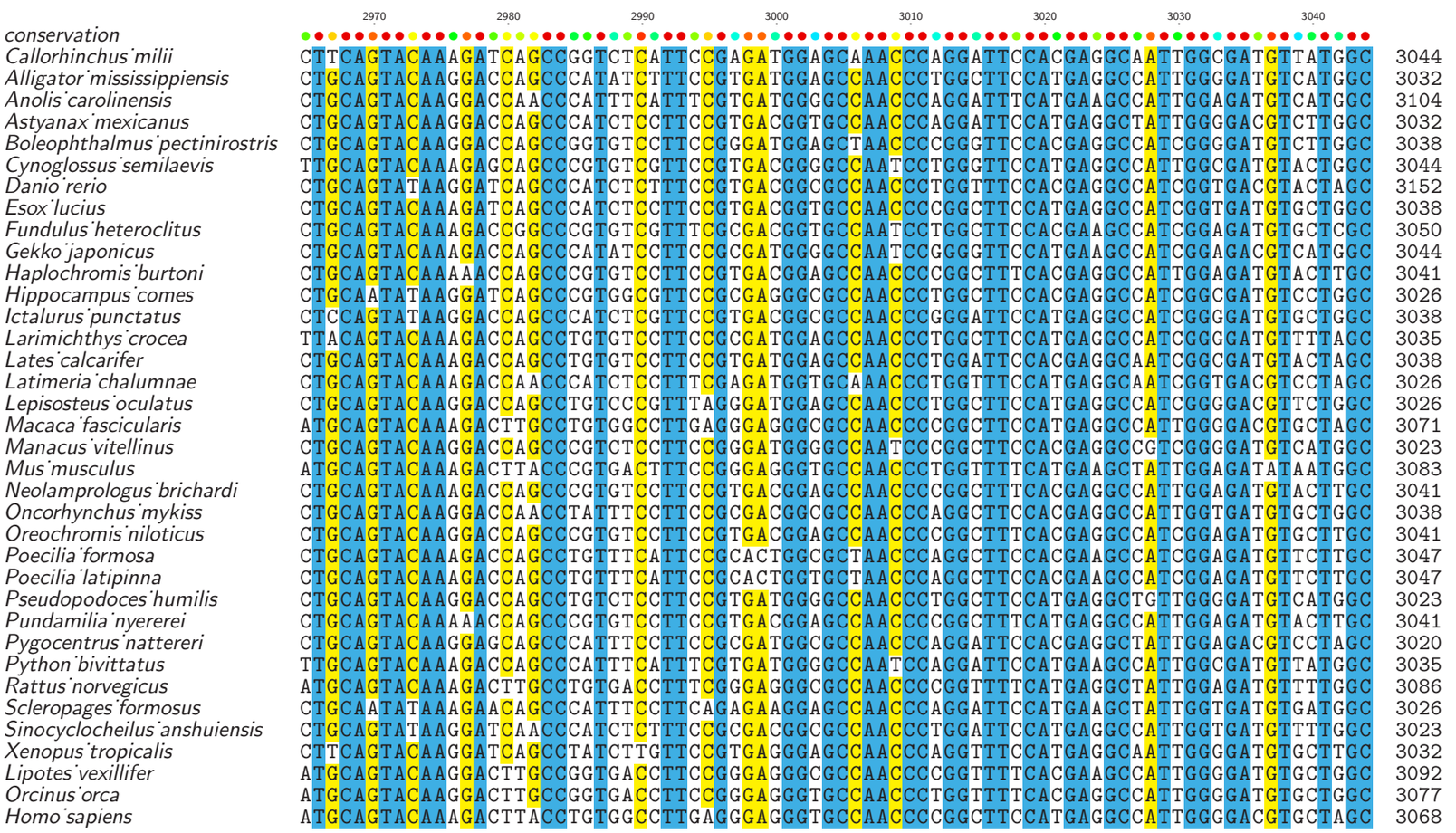
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Haplochromis burtoni
Hippocampus comes
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Lates calcarifer
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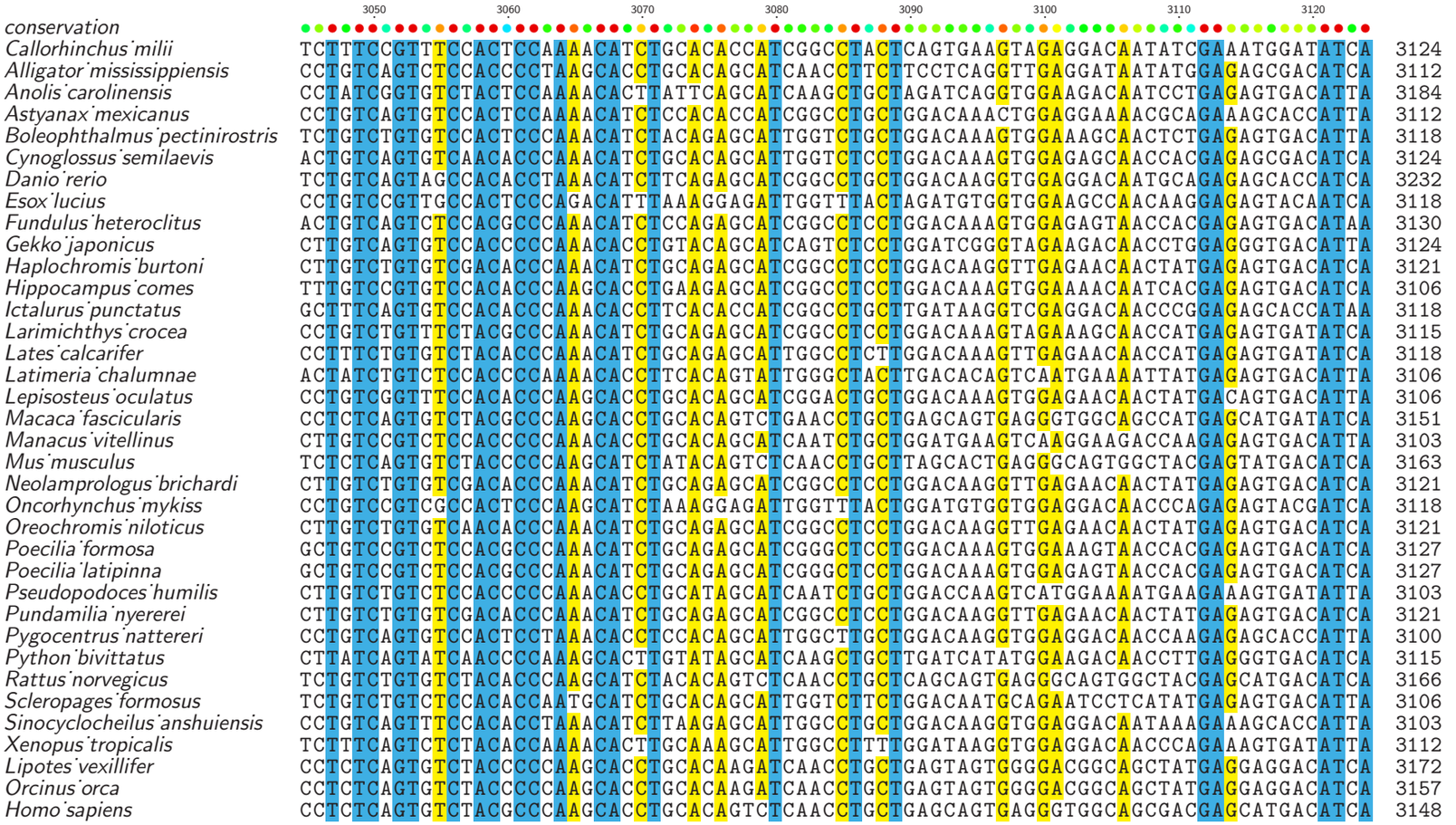
Scleropages formosus
Sinocyclocheilus anshuiensis
Xenopus tropicalis
Lipotes vexillifer
Orcinus orca
Homo sapiens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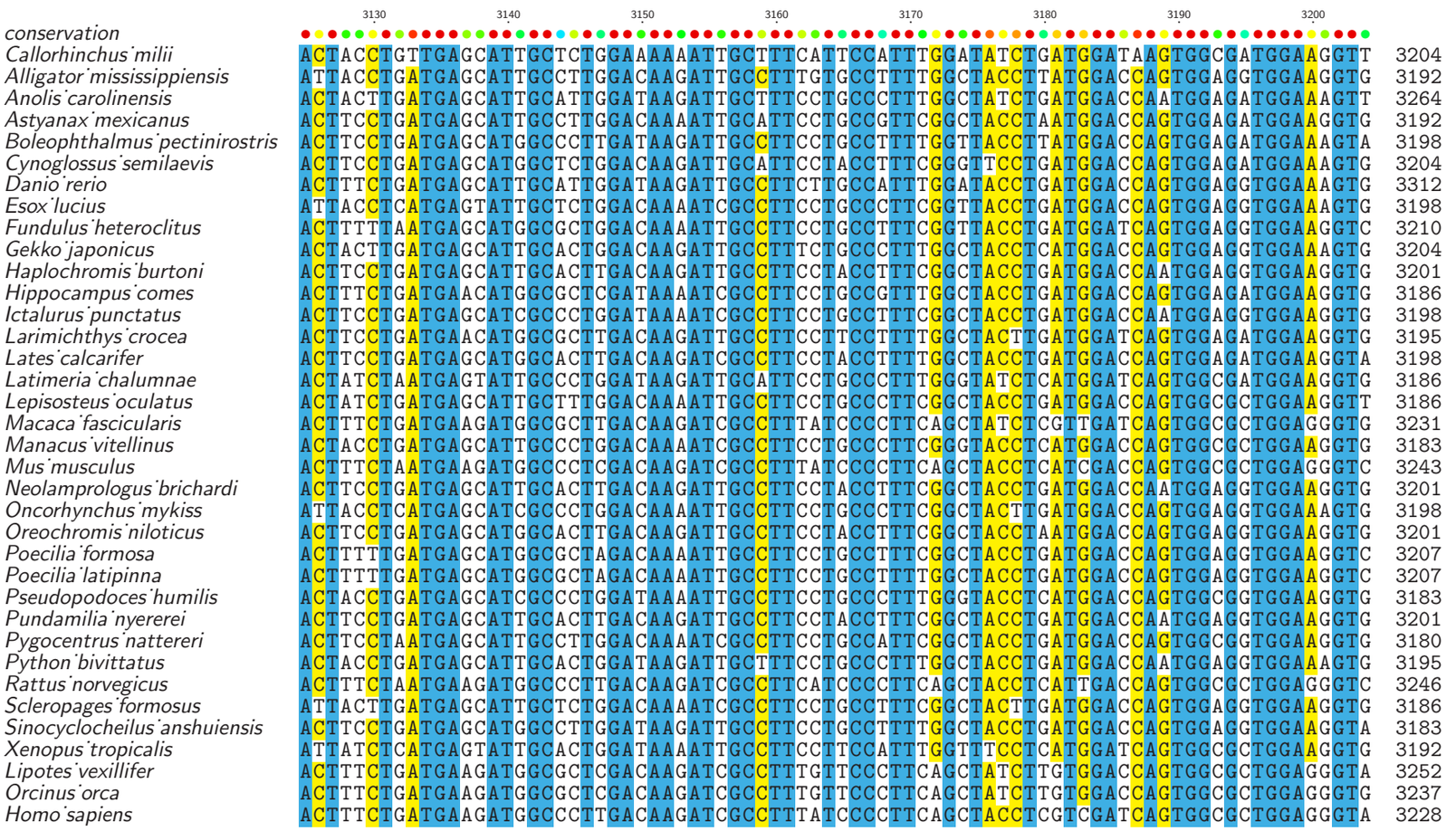
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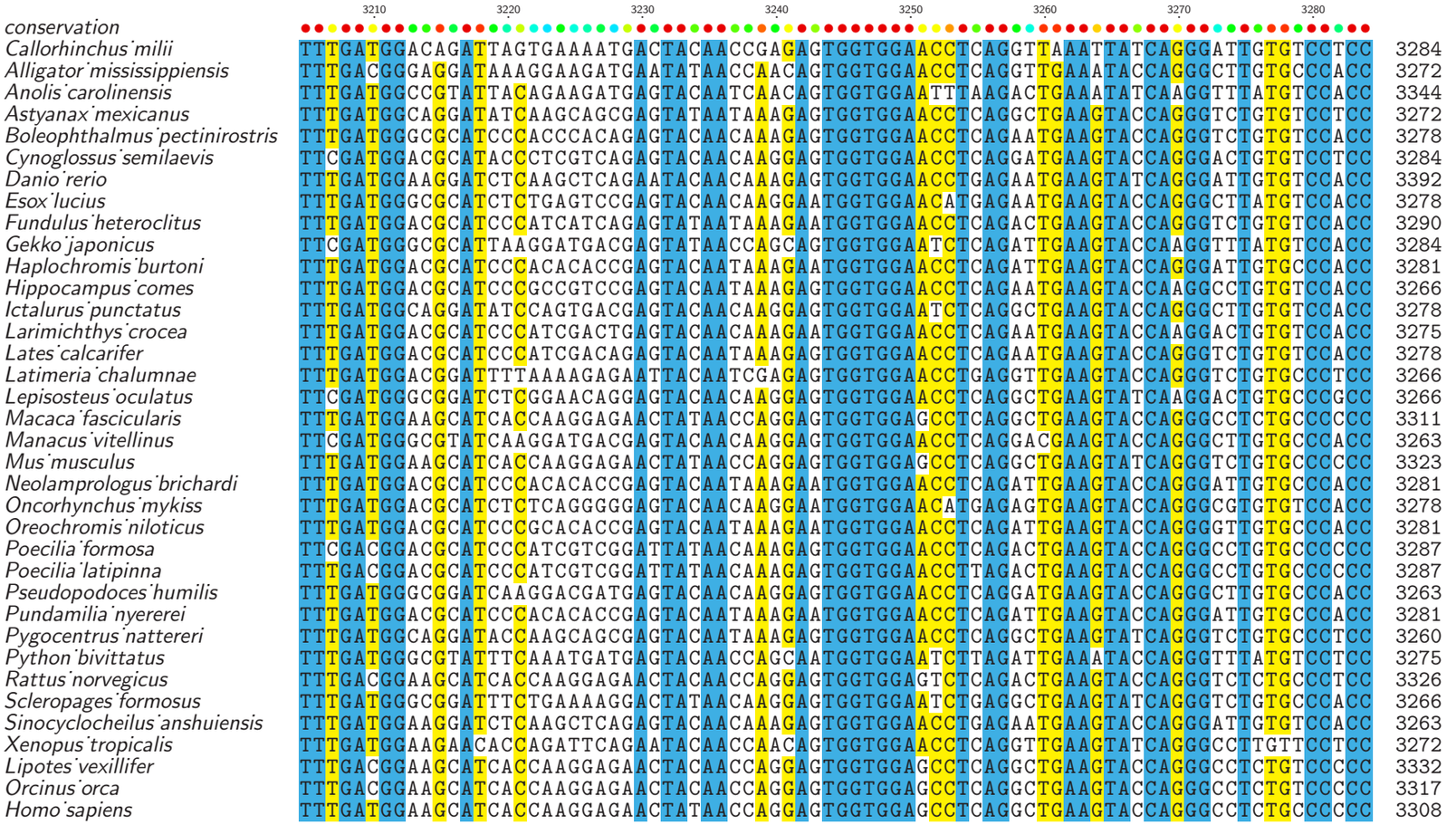
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Danio rerio 3392
Esox lucius 3278
Fundulus heteroclitus 3290
Gekko japonicus 3284
Haplochromis burtoni 3281
Hippocampus comes 3266
Ictalurus punctatus 3278
Larimichthys crocea 3275
Lates calcarifer 3278
Latimeria chalumnae 3266
Lepisosteus oculatus 3266
Macaca fascicularis 3311
Manacus vitellinus 3263
Mus musculus 3323
Neolamprologus brichardi 3281
Oncorhynchus mykiss 3278
Oreochromis niloticus 3281
Poecilia formosa 3287
Poecilia latipinna 3287
Pseudopodoces humilis 3263
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Python bivittatus 3275
Rattus norvegicus 3326
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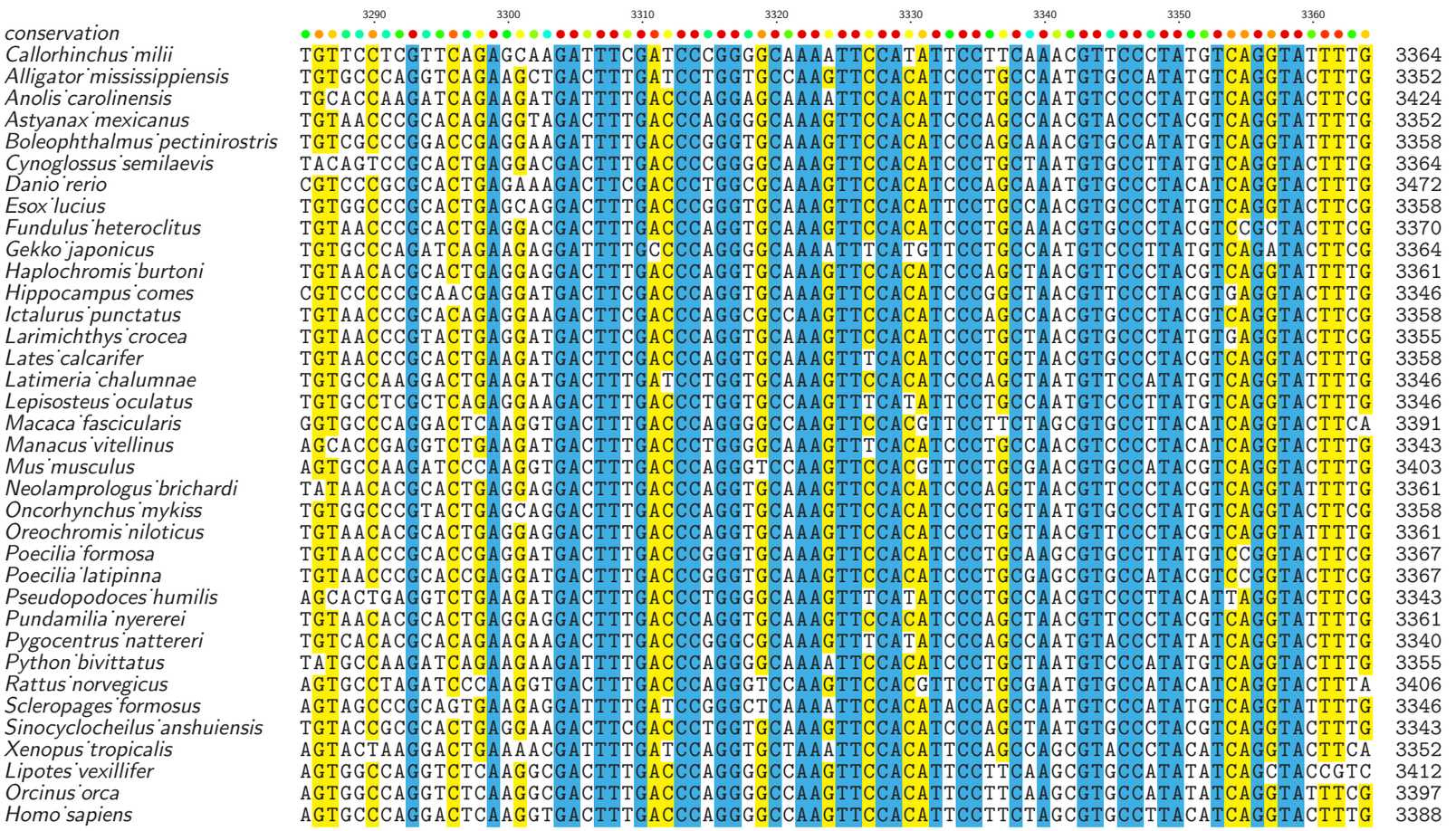
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Lates calcarifer 3358
Latimeria chalumnae 3346
Lepisosteus oculatus 3346
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Manacus vitellinus 3343
Mus musculus 3403
Neolamprologus brichardi 3361
Oncorhynchus mykiss 3358
Oreochromis niloticus 3361
Poecilia formosa 3367
Poecilia latipinna 3367
Pseudopodoces humilis 3343
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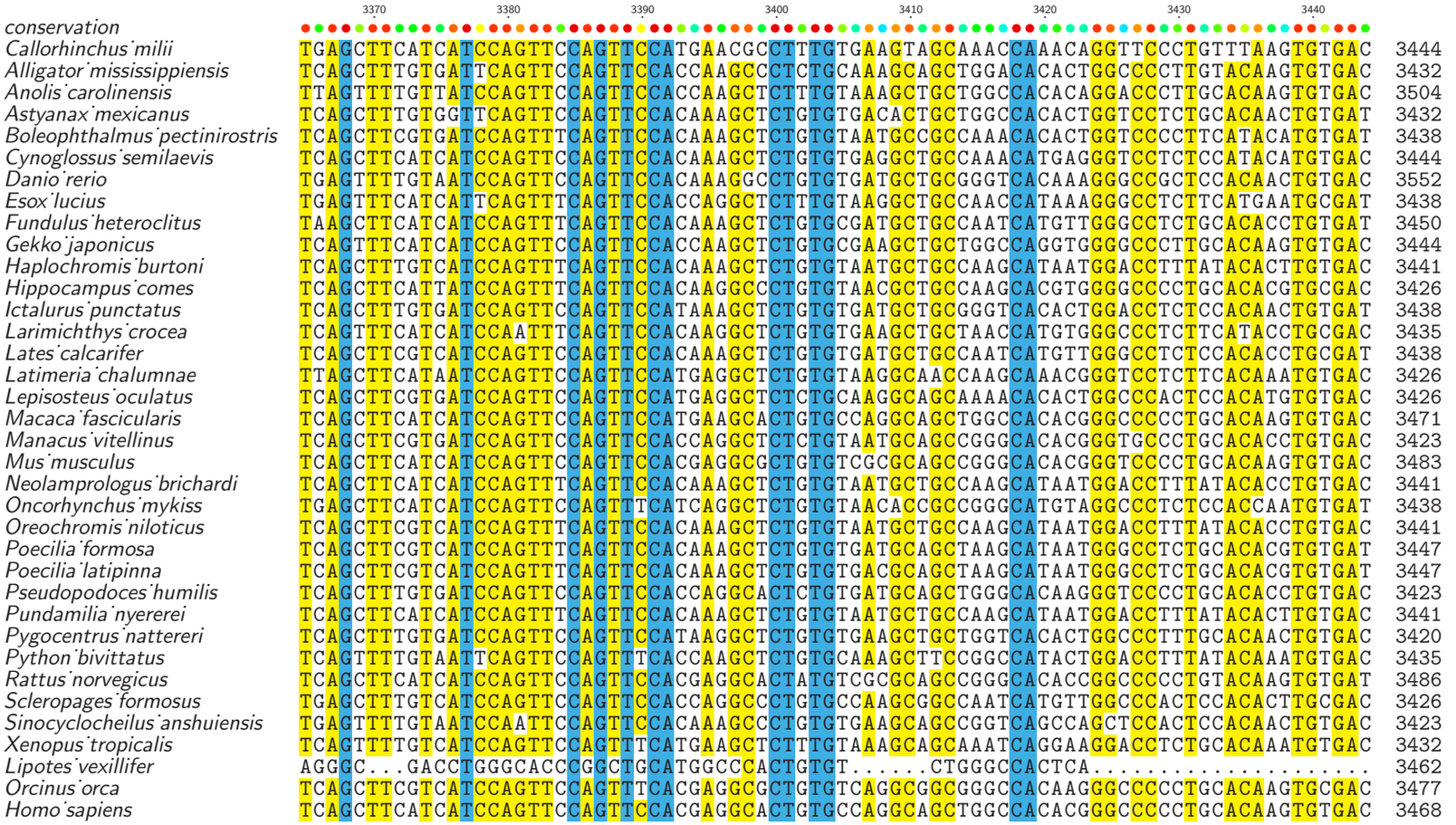
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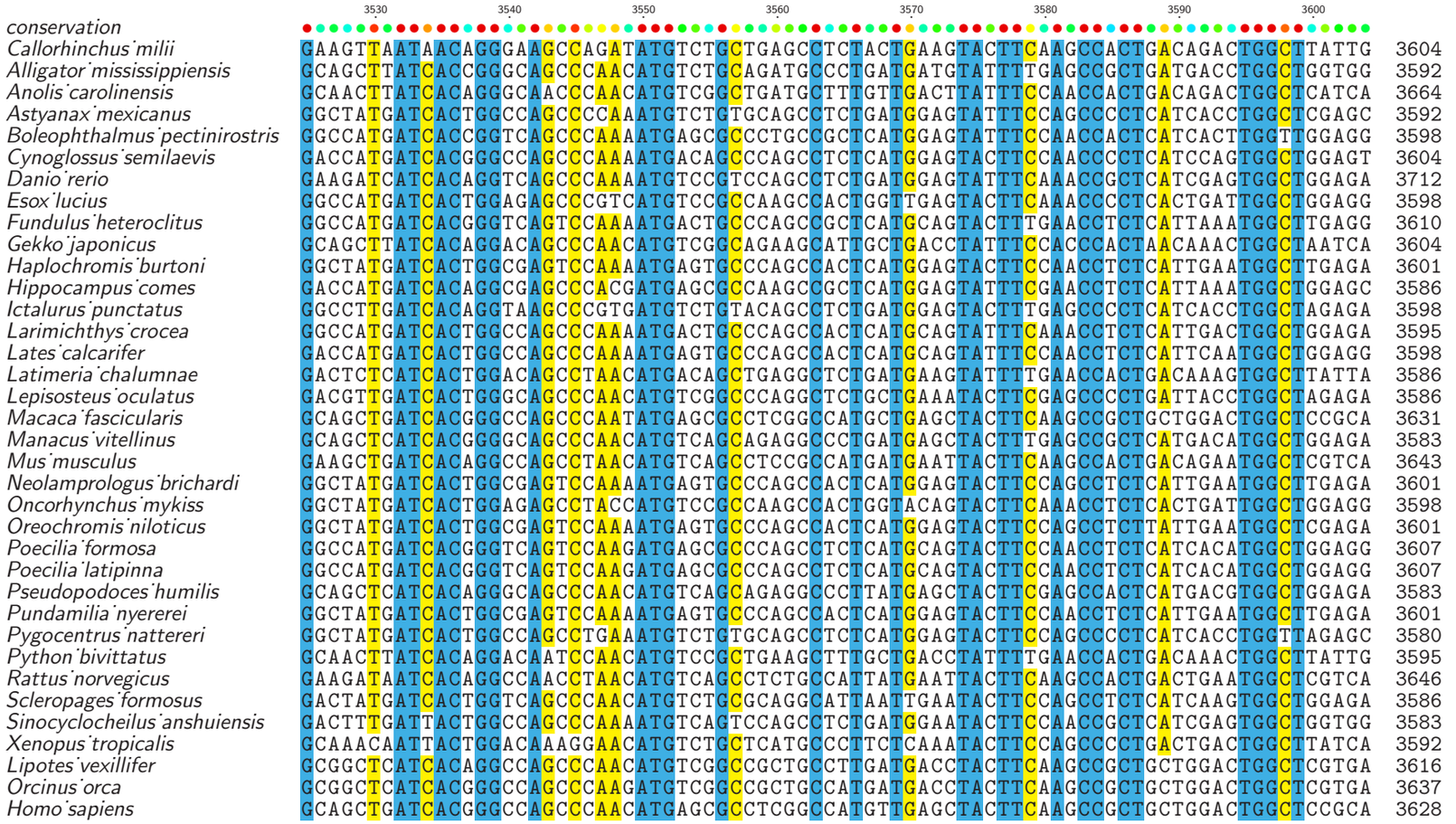
Sinocyclocheilus anshuiensis ATCTACCAGTCCAAAGAAGCAGGGAAACTCCTGGGTGATGTGATGAAGATGGGCTTCAGTAAACCCTGGCCCGAAGCCAT 3503
Xenopus tropicalis ATCTACCAATCCACGCAGGCTGGAAAACTGCTCGGAGATGCCATGAAGTTGGGAAACAGCAAACCTTGGCCAGAAGCTAT 3512
Lipotes vexillifer ......CCTTCCCAGGAGGCCGGGAAGCGCCTGGCCGACGCCATGAAGCTGGGCTTCAGTCGGCCGTGGCCCGAAGCCAT 3536
Orcinus orca ATCTACCAGTCCCAGGAGGCCGGGAAGCGCCTGGCCGACGCCATGAAGCTGGGCTTCAGTCGGCCGTGGCCCGAAGCCAT 3557
Homo sapiens ATCTACCAGTCCAAGGAGGCCGGGCAGCGCCTGGCGACCGCCATGAAGCTGGGCTTCAGTAGGCCGTGGCCGGAAGCCAT 3548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conservation
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Alligator mississippiensis 3592
Anolis carolinensis 3664
Astyanax mexicanus 3592
Boleophthalmus pectinirostris 3598
Cynoglossus semilaevis 3604
Danio rerio 3712
Esox lucius 3598
Fundulus heteroclitus 3610
Gekko japonicus 3604
Haplochromis burtoni 3601
Hippocampus comes 3586
Ictalurus punctatus 3598
Larimichthys crocea 3595
Lates calcarifer 3598
Latimeria chalumnae 3586
Lepisosteus oculatus 3586
Macaca fascicularis 3631
Manacus vitellinus 3583
Mus musculus 3643
Neolamprologus brichardi 3601
Oncorhynchus mykiss 3598
Oreochromis niloticus 3601
Poecilia formosa 3607
Poecilia latipinna 3607
Pseudopodoces humilis 3583
Pundamilia nyererei 3601
Pygocentrus nattereri 3580
Python bivittatus 3595
Rattus norvegicus 3646
Scleropages formosus 3586
Sinocyclocheilus anshuiensis 3583
Xenopus tropicalis 3592
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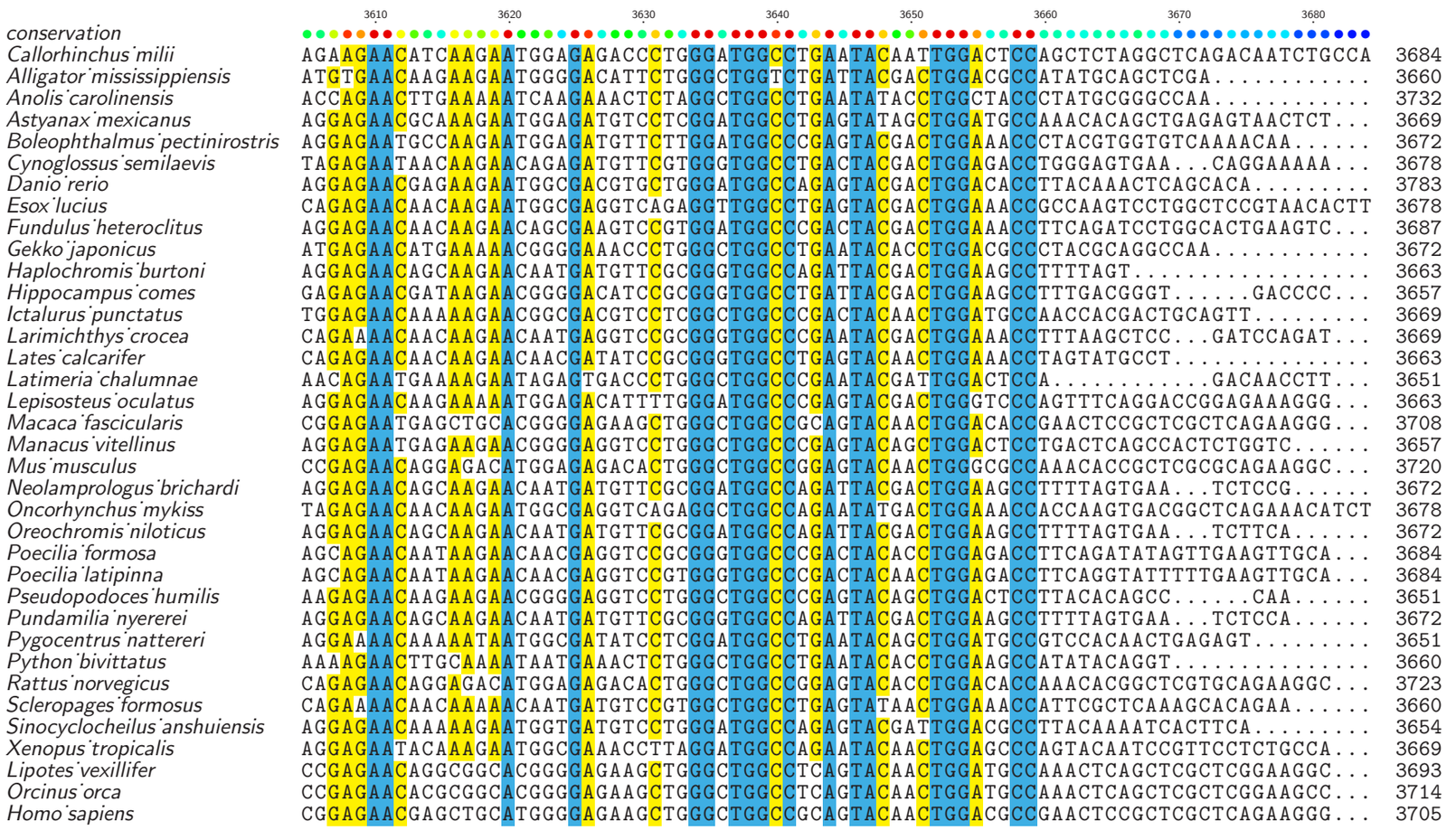
Homo sapiens 3628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Astyanax mexicanus 3669
Boleophthalmus pectinirostris 3672
Cynoglossus semilaevis 3678
Danio rerio 3783
Esox lucius 3678
Fundulus heteroclitus 3687
Gekko japonicus 3672
Haplochromis burtoni 3663
Hippocampus comes 3657
Ictalurus punctatus 3669
Larimichthys crocea 3669
Lates calcarifer 3663
Latimeria chalumnae 3651
Lepisosteus oculatus 3663
Macaca fascicularis 3708
Manacus vitellinus 3657
Mus musculus 3720
Neolamprologus brichardi 3672
Oncorhynchus mykiss 3678
Oreochromis niloticus 3672
Poecilia formosa 3684
Poecilia latipinna 3684
Pseudopodoces humilis 3651
Pundamilia nyererei 3672
Pygocentrus nattereri 3651
Python bivittatus 3660
Rattus norvegicus 3723
Scleropages formosus 3660
Sinocyclocheilus anshuiensis 3654
Xenopus tropicalis 3669
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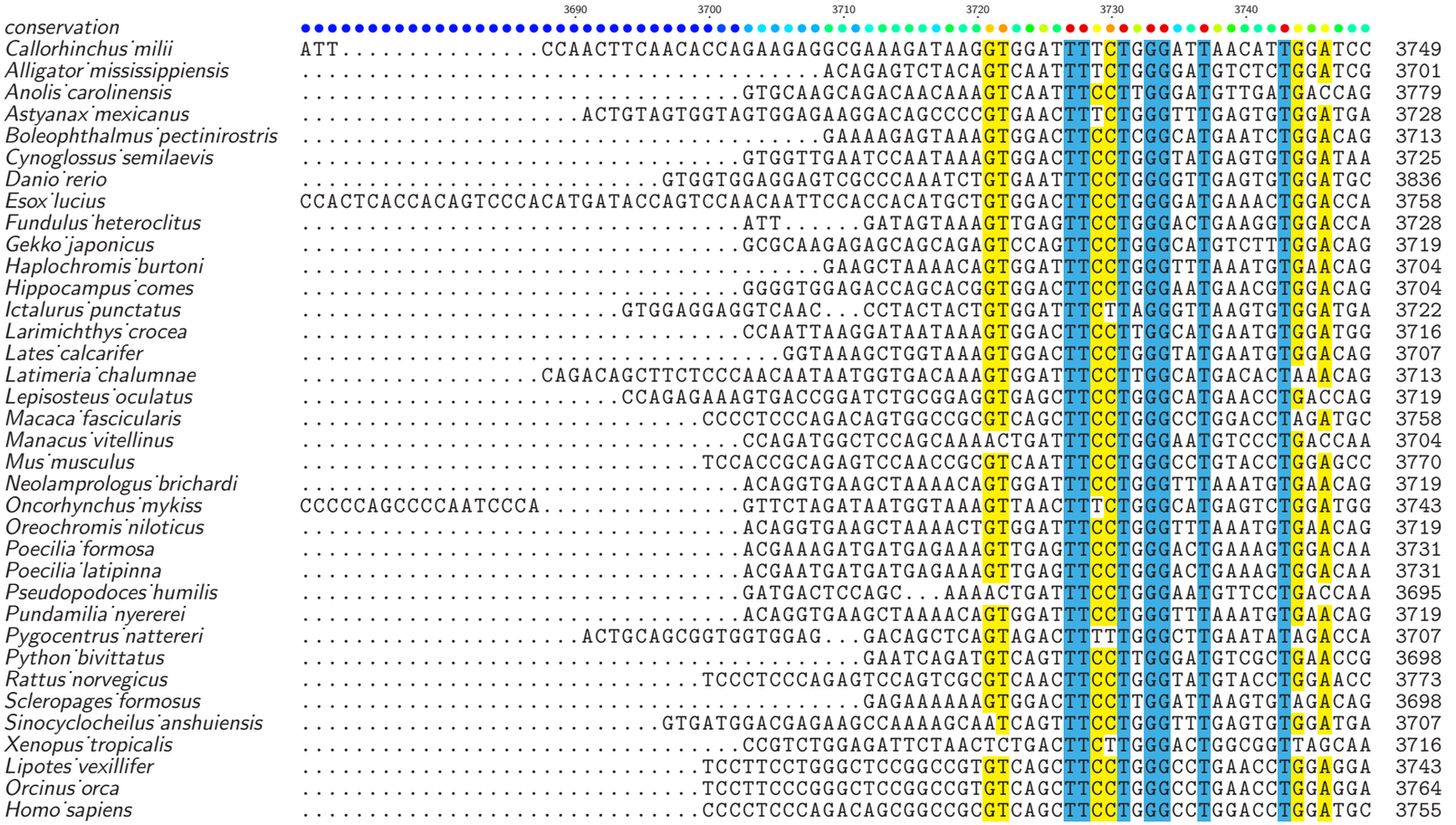
Homo sapiens 3705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conservation
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Alligator mississippiensis ..........................ACAGAGTCTACAGTCAATTTTCTGGGGATGTCTCTGGATCG 3701
Anolis carolinensis ..........................GTGCAAGCAGACAACAAAGTCAATTTCCTTGGGATGTTGATGACCAG 3779
Astyanax mexicanus .....................ACTGTAGTGGTAGTGGAGAAGGACAGCCCCGTGAACTTTCTGGGTTTGAGTGTGGATGA 3728
Boleophthalmus pectinirostris ..................................GAAAAGAGTAAAGTGGACTTCCTCGGCATGAATCTGGACAG 3713
Cynoglossus semilaevis ..........................GTGGTTGAATCCAATAAAGTGGACTTCCTGGGTATGAGTGTGGATAA 3725
Danio rerio ........................GTGGTGGAGGAGTCGCCCAAATCTGTGAATTCCTGGGGTTGAGTGTGGATGC 3836
Esox lucius CCACTCACCACAGTCCCACATGATACCAGTCCAACAATTCCACCACATGCTGTGGACTTCCTGGGGATGAAACTGGACCA 3758
Fundulus heteroclitus ....ATT......GATAGTAAAGTTGAGTTCCTGGGACTGAAGGTGGACCA 3728
Gekko japonicus ..........................GCGCAAGAGAGCAGCAGAGTCCAGTTCCTGGGCATGTCTTTGGACAG 3719
Haplochromis burtoni ..................................GAAGCTAAAACAGTGGATTTCCTGGGTTTAAATGTGAACAG 3704
Hippocampus comes ..........................GGGGTGGAGACCAGCACGGTGGACTTCCTGGGAATGAACGTGGACAG 3704
Ictalurus punctatus .....................GTGGAGGAGGTCAAC...CCTACTACTGTGGATTTCTTAGGGTTAAGTGTGGATGA 3722
Larimichthys crocea ..........................CCAATTAAGGATAATAAAGTGGACTTCCTTGGCATGAATGTGGATGG 3716
Lates calcarifer ..................................GGTAAAGCTGGTAAAGTGGACTTCCTGGGTATGAATGTGGACAG 3707
Latimeria chalumnae ..................CAGACAGCTTCTCCCAACAATAATGGTGACAAAGTGGATTTCCTTGGCATGACACTAAACAG 3713
Lepisosteus oculatus .....................CCAGAGAAAGTGACCGGATCTGCGGAGGTGAGCTTCCTGGGCATGAACCTGACCAG 3719
Macaca fascicularis ..........................CCCCTCCCAGACAGTGGCCGCGTCAGCTTCCTGGGCCTGGACCTAGATGC 3758
Manacus vitellinus ..........................CCAGATGGCTCCAGCAAAACTGATTTCCTGGGAATGTCCCTGACCAA 3704
Mus musculus ..........................TCCACCGCAGAGTCCAACCGCGTCAATTTCCTGGGCCTGTACCTGGAGCC 3770
Neolamprologus brichardi ..........................ACAGGTGAAGCTAAAACAGTGGATTTCCTGGGTTTAAATGTGAACAG 3719
Oncorhynchus mykiss CCCCCAGCCCCAATCCCA..............GTTCTAGATAATGGTAAAGTTAACTTTCTGGGCATGAGTCTGGATGG 3743
Oreochromis niloticus ..........................ACAGGTGAAGCTAAAACTGTGGATTTCCTGGGTTTAAATGTGAACAG 3719
Poecilia formosa ..........................ACGAAAGATGATGAGAAAGTTGAGTTCCTGGGACTGAAAGTGGACAA 3731
Poecilia latipinna ..........................ACGAATGATGATGAGAAAGTTGAGTTCCTGGGACTGAAAGTGGACAA 3731
Pseudopodoces humilis ..........................GATGACTCCAGC...AAAACTGATTTCCTGGGAATGTTCCTGACCAA 3695
Pundamilia nyererei ..........................ACAGGTGAAGCTAAAACAGTGGATTTCCTGGGTTTAAATGTGAACAG 3719
Pygocentrus nattereri .....................ACTGCAGCGGTGGTGGAG...GACAGCTCAGTAGACTTTTTGGGCTTGAATATAGACCA 3707
Python bivittatus ..................................GAATCAGATGTCAGTTCCTTGGGATGTCGCTGAACCG 3698
Rattus norvegicus ..........................TCCCTCCCAGAGTCCAGTCGCGTCAACTTCCTGGGTATGTACCTGGAACC 3773
Scleropages formosus ..................................GAGAAAAAAGTGGACTTCCTTGGATTAAGTGTAGACAG 3698
Sinocyclocheilus anshuiensis ..........................GTGATGGACGAGAAGCCAAAAGCAATCAGTTCCTGGGTTTGAGTGTGGATGA 3707
Xenopus tropicalis ..........................CCGTCTGGAGATTCTAACTCTGACTTCTTGGGACTGGCGGTTAGCAA 3716
Lipotes vexillifer ..........................TCCTTCCTGGGCTCCGGCCGTGTCAGCTTCCTGGGCCTGAACCTGGAGGA 3743
Orcinus orca ..........................TCCTTCCCGGGCTCCGGCCGTGTCAGCTTCCTGGGCCTGAACCTGGAGGA 3764
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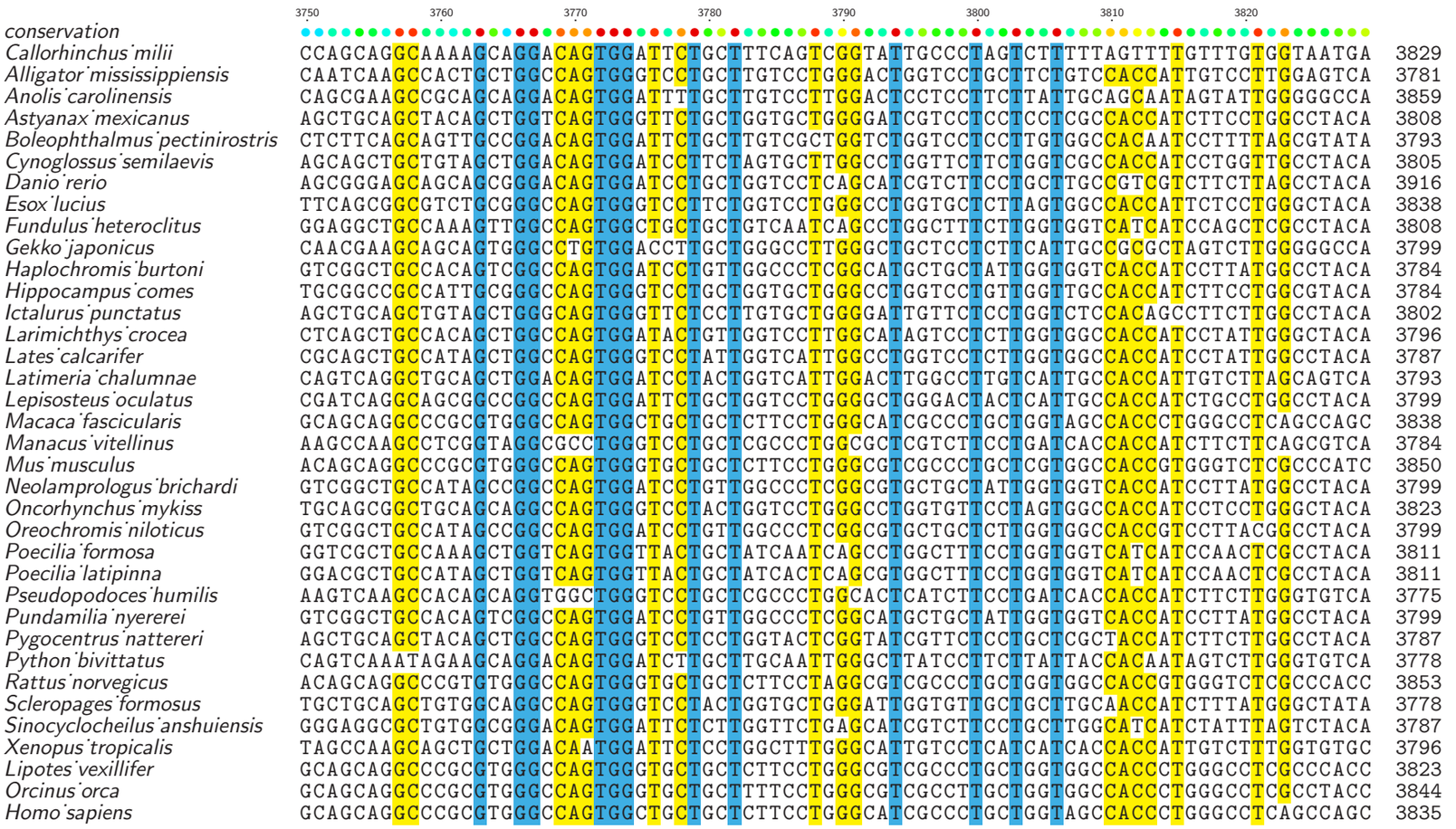
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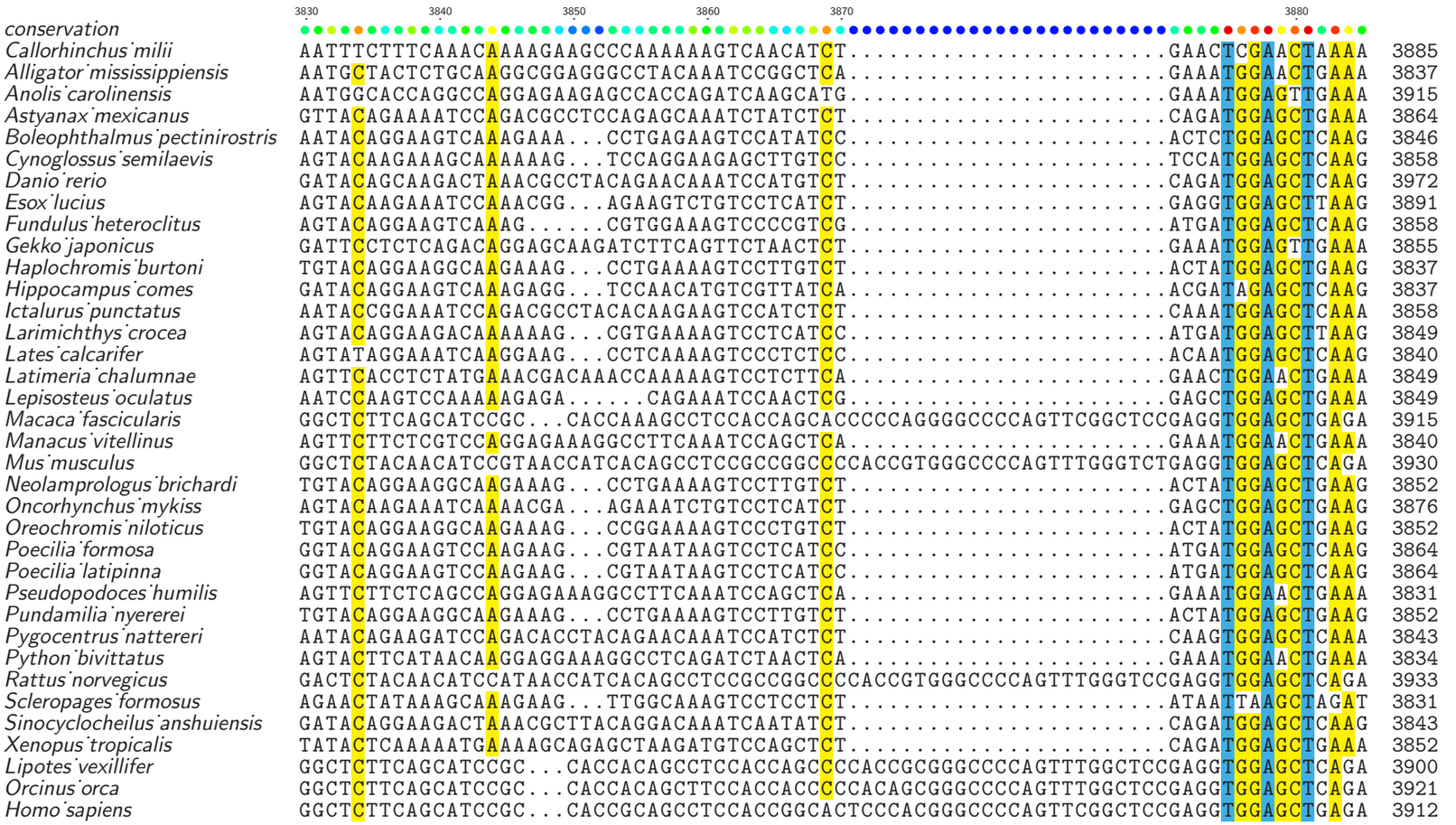
conservation
Callorhinchus milii CCAGCAGGCAAAAGCAGGACAGTGGATTCTGCTTTCAGTCGGTATTGCCCTAGTCTTTTTAGTTTTGTTTGTGGTAATGA 3829
Alligator mississippiensis CAATCAAGCCACTGCTGGCCAGTGGGTCCTGCTTGTCCTGGGACTGGTCCTGCTTCTGTCCACCATTGTCCTTGGAGTCA 3781
Anolis carolinensis CAGCGAAGCCGCAGCAGGACAGTGGATTTTGCTTGTCCTTGGACTCCTCCTTCTTATTGCAGCAATAGTATTGGGGCCA 3859
Astyanax mexicanus AGCTGCAGCTACAGCTGGTCAGTGGGTTCTGCTGGTGCTGGGGATCGTCCTCCTCCTCGCCACCATCTTCCTGGCCTACA 3808
Boleophthalmus pectinirostris CTCTTCAGCAGTTGCCGGACAGTGGATTCTGCTTGTCGCTGGTCTGGTCCTCCTTGTGGCCACAATCCTTTTAGCGTATA 3793
Cynoglossus semilaevis AGCAGCTGCTGTAGCTGGACAGTGGATCCTTCTAGTGCTTGGCCTGGTTCTTCTGGTCGCCACCATCCTGGTTGCCTACA 3805
Danio rerio AGCGGGAGCAGCAGCGGGACAGTGGATCCTGCTGGTCCTCAGCATCGTCTTCCTGCTTGCCGTCGTCTTCTTAGCCTACA 3916
Esox lucius TTCAGCGGCGTCTGCGGGCCAGTGGGTCCTTCTGGTCCTGGGCCTGGTGCTCTTAGTGGCCACCATTCTCCTGGGCTACA 3838
Fundulus heteroclitus GGAGGCTGCCAAAGTTGGCCAGTGGCTGCTGCTGTCAATCAGCCTGGCTTTCTTGGTGGTCATCATCCAGCTCGCCTACA 3808
Gekko japonicus CAACGAAGCAGCAGTGGGCCTGTGGACCTTGCTGGGCCTTGGGCTGCTCCTCTTCATTGCCGCGCTAGTCTTGGGGGCCA 3799
Haplochromis burtoni GTCGGCTGCCACAGTCGGCCAGTGGATCCTGTTGGCCCTCGGCATGCTGCTATTGGTGGTCACCATCCTTATGGCCTACA 3784
Hippocampus comes TGCGGCCGCCATTGCGGGCCAGTGGGTCCTGCTGGTGCTGGGCCTGGTCCTGTTGGTTGCCACCATCTTCCTGGCGTACA 3784
Ictalurus punctatus AGCTGCAGCTGTAGCTGGGCAGTGGGTTCTCCTTGTGCTGGGGATTGTTCTCCTGGTCTCCACAGCCTTCTTGGCCTACA 3802
Larimichthys crocea CTCAGCTGCCACAGCTGGCCAGTGGATACTGTTGGTCCTTGGCATAGTCCTCTTGGTGGCCACCATCCTATTGGGCTACA 3796
Lates calcarifer CGCAGCTGCCATAGCTGGCCAGTGGGTCCTATTGGTCATTGGCCTGGTCCTCTTGGTGGCCACCATCCTATTGGCCTACA 3787
Latimeria chalumnae CAGTCAGGCTGCAGCTGGACAGTGGATCCTACTGGTCATTGGACTTGGCCTTGTCATTGCCACCATTGTCTTAGCAGTCA 3793
Lepisosteus oculatus CGATCAGGCAGCGGCCGGCCAGTGGATTCTGCTGGTCCTGGGGCTGGGACTACTCATTGCCACCATCTGCCTGGCCTACA 3799
Macaca fascicularis GCAGCAGGCCCGCGTGGGCCAGTGGCTGCTGCTCTTCCTGGGCATCGCCCTGCTGGTAGCCACCCTGGGCCTCAGCCAGC 3838
Manacus vitellinus AAGCCAAGCCTCGGTAGGCGCCTGGGTCCTGCTCGCCCTGGCGCTCGTCTTCCTGATCACCACCATCTTCTTCAGCGTCA 3784
Mus musculus ACAGCAGGCCCGCGTGGGCCAGTGGGTGCTGCTCTTCCTGGGCGTCGCCCTGCTCGTGGCCACCGTGGGTCTCGCCCATC 3850
Neolamprologus brichardi GTCGGCTGCCATAGCCGGCCAGTGGATCCTGTTGGCCCTCGGCGTGCTGCTATTGGTGGTCACCATCCTTATGGCCTACA 3799
Oncorhynchus mykiss TGCAGCGGCTGCAGCAGGCCAGTGGGTCCTACTGGTCCTGGGCCTGGTGTTCCTAGTGGCCACCATCCTCCTGGGCTACA 3823
Oreochromis niloticus GTCGGCTGCCATAGCCGGCCAGTGGATCCTGTTGGCCCTCGGCGTGCTGCTCTTGGTGGCCACCGTCCTTACGGCCTACA 3799
Poecilia formosa GGTCGCTGCCAAAGCTGGTCAGTGGTTACTGCTATCAATCAGCCTGGCTTTCCTGGTGGTCATCATCCAACTCGCCTACA 3811
Poecilia latipinna GGACGCTGCCATAGCTGGTCAGTGGTTACTGCTATCACTCAGCGTGGCTTTCCTGGTGGTCATCATCCAACTCGCCTACA 3811
Pseudopodoces humilis AAGTCAAGCCACAGCAGGTGGCTGGGTCCTGCTCGCCCTGGCACTCATCTTCCTGATCACCACCATCTTCTTGGGTGTCA 3775
Pundamilia nyererei GTCGGCTGCCACAGTCGGCCAGTGGATCCTGTTGGCCCTCGGCATGCTGCTATTGGTGGTCACCATCCTTATGGCCTACA 3799
Pygocentrus nattereri AGCTGCAGCTACAGCTGGCCAGTGGGTCCTCCTGGTACTCGGTATCGTTCTCCTGCTCGCTACCATCTTCTTGGCCTACA 3787
Python bivittatus CAGTCAAATAGAAGCAGGACAGTGGATCTTGCTTGCAATTGGGCTTATCCTTCTTATTACCACAATAGTCTTGGGTGTCA 3778
Rattus norvegicus ACAGCAGGCCCGTGTGGGCCAGTGGGTGCTGCTCTTCCTAGGCGTCGCCCTGCTGGTGGCCACCGTGGGTCTCGCCCACC 3853
Scleropages formosus TGCTGCAGCTGTGGCAGGCCAGTGGGTCCTACTGGTGCTGGGATTGGTTGCTGCTTGCAACCATCTTCTTATGGGCTATA 3778
Sinocyclocheilus anshuiensis GGGAGGCGCTGTGGCGGACAGTGGATTCTCTTGGTTCTGAGCATCGTCTTCCTGCTTGGCATCATCTATTTAGTCTACA 3787
Xenopus tropicalis TAGCCAAGCAGCTGCTGGACAATGGATTCTCCTGGCTTTGGGCATTGTCCTCATCATCACCACCATTGTCTTTGGTGTGC 3796
Lipotes vexillifer GCAGCAGGCCCGCGTGGGCCAGTGGGTGCTGCTCTTCCTGGGCGTCGCCCTGCTGGTGGCCACCCTGGGCCTCGCCCACC 3823
Orcinus orca GCAGCAGGCCCGCGTGGGCCAGTGGGTGCTGCTTTTCCTGGGCGTCGCCTTGCTGGTGGCCACCCTGGGCCTCGCCTACC 3844
Homo sapiens GCAGCAGGCCCGCGTGGGCCAGTGGCTGCTGCTCTTCCTGGGCATCGCCCTGCTGGTAGCCACCCTGGGCCTCAGCCAGC 3835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Alligator mississippiensis AATGCTACTCTGCAAGGCGGAGGGCCTACAAATCCGGCTCA.....GAAATGGAACTGAAA 3837
Anolis carolinensis AATGGCACCAGGCCAGGAGAAGAGCCACCAGATCAAGCATG.....GAAATGGAGTTGAAA 3915
Astyanax mexicanus GTTACAGAAAATCCAGACGCCTCCAGAGCAAATCTATCTCT.....CAGATGGAGCTGAAA 3864
Boleophthalmus pectinirostris AATACAGGAAGTCAAAGAAA...CCTGAGAAGTCCATATCC.....ACTCTGGAGCTCAAG 3846
Cynoglossus semilaevis AGTACAAGAAAGCAAAAAAG...TCCAGGAAGAGCTTGTCC.....TCCATGGAGCTCAAG 3858
Danio rerio GATACAGCAAGACTAAACGCCTACAGAACAAATCCATGTCT.....CAGATGGAGCTCAAG 3972
Esox lucius AGTACAAGAAATCCAAACGG...AGAAGTCTGTCCTCATCT.....GAGGTGGAGCTTAAG 3891
Fundulus heteroclitus AGTACAGGAAGTCAAAG.....CGTGGAAAGTCCCCGTCG.....ATGATGGAGCTCAAG 3858
Gekko japonicus GATTCCTCTCAGACAGGAGCAAGATCTTCAGTTCTAACTCT.....GAAATGGAGTTGAAA 3855
Haplochromis burtoni TGTACAGGAAGGCAAGAAAG...CCTGAAAAGTCCTTGTCT.....ACTATGGAGCTGAAG 3837
Hippocampus comes GATACAGGAAGTCAAAGAGG...TCCAACATGTCGTTATCA.....ACGATAGAGCTCAAG 3837
Ictalurus punctatus AATACCGGAAATCCAGACGCCTACACAAGAAGTCCATCTCT.....CAAATGGAGCTCAAA 3858
Larimichthys crocea AGTACAGGAAGACAAAAAAG...CGTGAAAAGTCCTCATCC.....ATGATGGAGCTTAAG 3849
Lates calcarifer AGTATAGGAAATCAAGGAAG...CCTCAAAAGTCCCTCTCC.....ACAATGGAGCTCAAG 3840
Latimeria chalumnae AGTTCACCTCTATGAAACGACAAACCAAAAAGTCCTCTTCA.....GAACTGGAACTGAAA 3849
Lepisosteus oculatus AATCCAAGTCCAAAAAGAGA......CAGAAATCCAACTCG.....GAGCTGGAGCTGAAA 3849
Macaca fascicularis GGCTCTTCAGCATCCGC...CACCAAAGCCTCCACCAGCACCCCCAGGGGCCCCAGTTCGGCTCCGAGGTGGAGCTGAGA 3915
Manacus vitellinus AGTTCTTCTCGTCCAGGAGAAAGGCCTTCAAATCCAGCTCA.....GAAATGGAACTGAAA 3840
Mus musculus GGCTCTACAACATCCGTAACCATCACAGCCTCCGCCGGCCCCACCGTGGGCCCCAGTTTGGGTCTGAGGTGGAGCTCAGA 3930
Neolamprologus brichardi TGTACAGGAAGGCAAGAAAG...CCTGAAAAGTCCTTGTCT.....ACTATGGAGCTGAAG 3852
Oncorhynchus mykiss AGTACAAGAAATCAAAACGA...AGAAATCTGTCCTCATCT.....GAGCTGGAGCTGAAG 3876
Oreochromis niloticus TGTACAGGAAGGCAAGAAAG...CCGGAAAAGTCCCTGTCT.....ACTATGGAGCTGAAG 3852
Poecilia formosa GGTACAGGAAGTCCAAGAAG...CGTAATAAGTCCTCATCC.....ATGATGGAGCTCAAG 3864
Poecilia latipinna GGTACAGGAAGTCCAAGAAG...CGTAATAAGTCCTCATCC.....ATGATGGAGCTCAAG 3864
Pseudopodoces humilis AGTTCTTCTCAGCCAGGAGAAAGGCCTTCAAATCCAGCTCA.....GAAATGGAACTGAAA 3831
Pundamilia nyererei TGTACAGGAAGGCAAGAAAG...CCTGAAAAGTCCTTGTCT.....ACTATGGAGCTGAAG 3852
Pygocentrus nattereri AATACAGAAGATCCAGACACCTACAGAACAAATCCATCTCT.....CAAGTGGAGCTCAAA 3843
Python bivittatus AGTACTTCATAACAAGGAGGAAAGGCCTCAGATCTAACTCA.....GAAATGGAACTGAAA 3834
Rattus norvegicus GACTCTACAACATCCATAACCATCACAGCCTCCGCCGGCCCCACCGTGGGCCCCAGTTTGGGTCCGAGGTGGAGCTCAGA 3933
Scleropages formosus AGAACTATAAAGCAAAGAAG...TTGGCAAAGTCCTCCTCT.....ATAATTAAGCTAGAT 3831
Sinocyclocheilus anshuiensis GATACAGGAAGACTAAACGCTTACAGGACAAATCAATATCT.....CAGATGGAGCTCAAG 3843
Xenopus tropicalis TATACTCAAAAATGAAAAGCAGAGCTAAGATGTCCAGCTCT.....CAGATGGAGCTGAAA 3852
Lipotes vexillifer GGCTCTTCAGCATCCGC...CACCACAGCCTCCACCAGCCCCACCGCGGGGCCCCAGTTTGGCTCCGAGGTGGAGCTCAGA 3900
Orcinus orca GGCTCTTCAGCATCCGC...CACCACAGCTTCCACCACCCCCACAGCGGGGCCCCAGTTTGGCTCCGAGGTGGAGCTCAGA 3921
Homo sapiens GGCTCTTCAGCATCCGC...CACCGCAGCCTCCACCGGCACTCCCACGGGGCCCCAGTTCGGCTCCGAGGTGGAGCTGAGA 3912
conservation
Callorhinchus milii TAA 3888
Alligator mississippiensis TAA 3840
Anolis carolinensis TAA 3918
Astyanax mexicanus TAA 3867
Boleophthalmus pectinirostris TCC 3849
Cynoglossus semilaevis TAA 3861
Danio rerio TAA 3975
Esox lucius TAA 3894
Fundulus heteroclitus CAA 3861
Gekko japonicus TAG 3858
Haplochromis burtoni CAA 3840
Hippocampus comes CAA 3840
Ictalurus punctatus TAG 3861
Larimichthys crocea TAA 3852
Lates calcarifer CAA 3843
Latimeria chalumnae TAA 3852
Lepisosteus oculatus TAG 3852
Macaca fascicularis CAC 3918
Manacus vitellinus TGA 3843
Mus musculus CAC 3933
Neolamprologus brichardi CAA 3855
Oncorhynchus mykiss TAA 3879
Oreochromis niloticus CAA 3855
Poecilia formosa TAA 3867
Poecilia latipinna TAA 3867
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Pundamilia nyererei CAA 3855
Pygocentrus nattereri TAG 3846
Python bivittatus TGA 3837
Rattus norvegicus CAC 3936
Scleropages formosus TCC 3834
Sinocyclocheilus anshuiensis TAA 3846
Xenopus tropicalis TAG 3855
Lipotes vexillifer CAC 3903
Orcinus orca CAC 3924
Homo sapiens CAC 3915

X non conserved
X $\geq$60% conserved
X $\geq$85% conserved