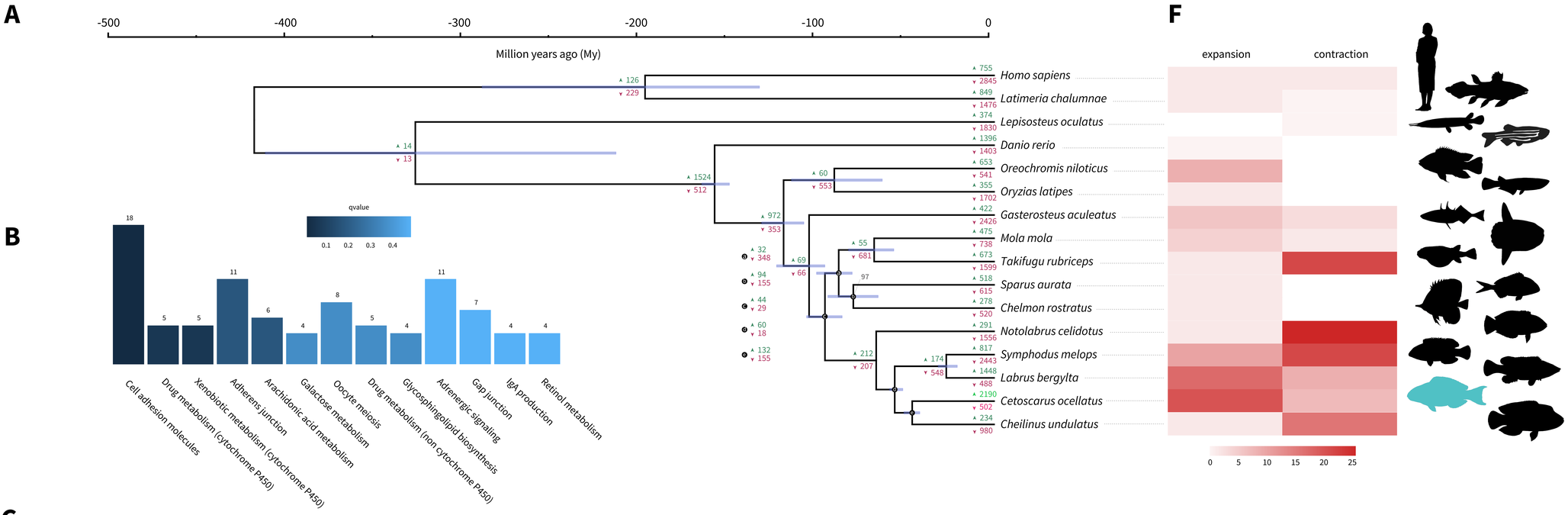
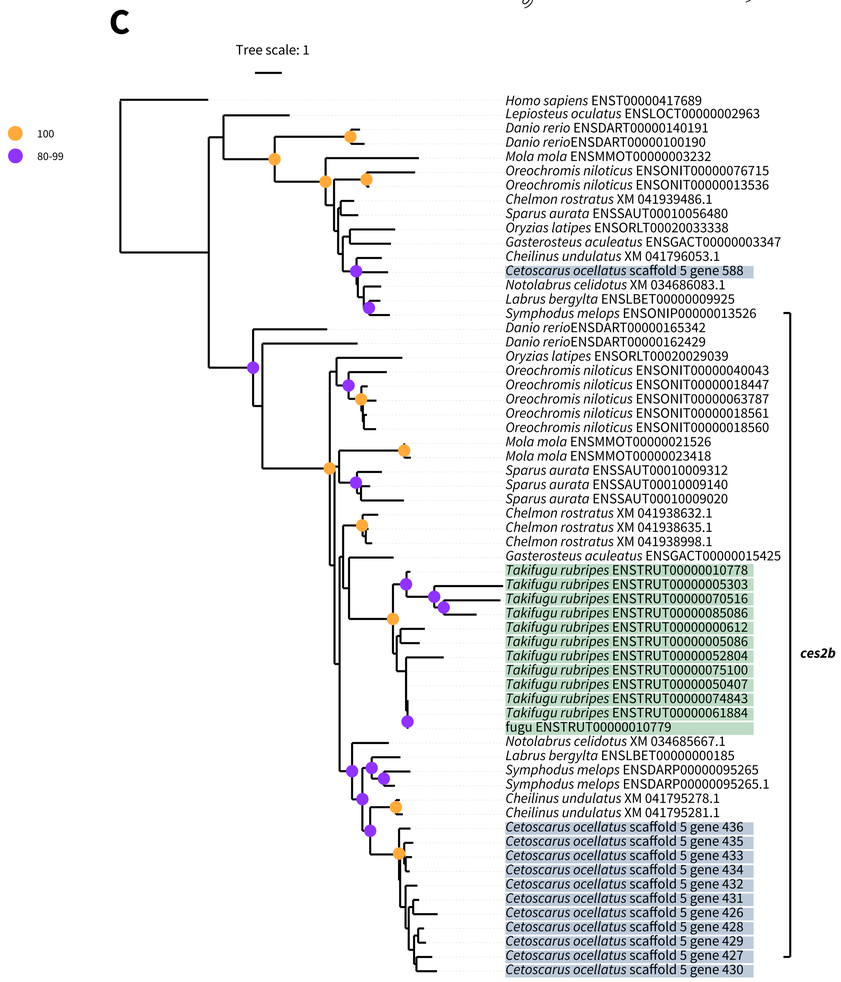

A
-500
-400
-300
-200
-100
0
Million years ago (My)
Homo sapiens
Latimeria chalumnae
Lepisosteus oculatus
Danio rerio
Oreochromis niloticus
Oryzias latipes
Gasterosteus aculeatus
Mola mola
Takifugu rubriceps
Sparus aurata
Chelmon rostratus
Notolabrus celidotus
Symphodus melops
Labrus bergylta
Cetoscarus ocellatus
Cheilinus undulatus
B
qvalue
0.1
0.2
0.3
0.4
Cell adhesion molecules
Drug metabolism (cytochrome P450)
Xenobiotic metabolism (cytochrome P450)
Adherens junction
Arachidonic acid metabolism
Galactose metabolism
Oocyte meiosis
Drug metabolism (non cytochrome P450)
Glycosphingolipid biosynthesis
Adrenergic signaling
Gap junction
IgA production
Retinol metabolism
F
expansion
contraction
0
5
10
15
20
25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80-99
Homo sapiens ENST00000417689
Lepiosteus oculatus ENSLOCT00000002963
Danio rerio ENSDART00000140191
Danio rerioENSDART00000100190
Mola mola ENSMMOT00000003232
Oreochromis niloticus ENSONIT00000076715
Oreochromis niloticus ENSONIT00000013536
Chelmon rostratus XM 041939486.1
Sparus aurata ENSSAUT00010056480
Oryzias latipes ENSORLT00020033338
Gasterosteus aculeatus ENSGACT00000003347
Cheilinus undulatus XM 041796053.1
Cetoscarus ocellatus scaffold 5 gene 588
Notolabrus celidotus XM 034686083.1
Labrus bergylta ENSLBET00000009925
Symphodus melops ENSONIP00000013526
Danio rerioENSDART00000165342
Danio rerioENSDART00000162429
Oryzias latipes ENSORLT00020029039
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Oreochromis niloticus ENSONIT00000018561
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Mola mola ENSMMOT00000021526
Mola mola ENSMMOT00000023418
Sparus aurata ENSSAUT00010009312
Sparus aurata ENSSAUT00010009140
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Chelmon rostratus XM 041938632.1
Chelmon rostratus XM 041938635.1
Chelmon rostratus XM 041938998.1
Gasterosteus aculeatus ENSGACT00000015425
Takifugu rubripes ENSTRUT00000010778
Takifugu rubripes ENSTRUT00000005303
Takifugu rubripes ENSTRUT00000070516
Takifugu rubripes ENSTRUT00000085086
Takifugu rubripes ENSTRUT00000000612
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Takifugu rubripes ENSTRUT00000050407
Takifugu rubripes ENSTRUT00000074843
Takifugu rubripes ENSTRUT00000061884
fugu ENSTRUT00000010779
Notolabrus celidotus XM 034685667.1
Labrus bergylta ENSLBET00000000185
Symphodus melops ENSDARP00000095265
Symphodus melops ENSDARP00000095265.1
Cheilinus undulatus XM 041795278.1
Cheilinus undulatus XM 041795281.1
Cetoscarus ocellatus scaffold 5 gene 436
Cetoscarus ocellatus scaffold 5 gene 435
Cetoscarus ocellatus scaffold 5 gene 433
Cetoscarus ocellatus scaffold 5 gene 434
Cetoscarus ocellatus scaffold 5 gene 432
Cetoscarus ocellatus scaffold 5 gene 431
Cetoscarus ocellatus scaffold 5 gene 426
Cetoscarus ocellatus scaffold 5 gene 428
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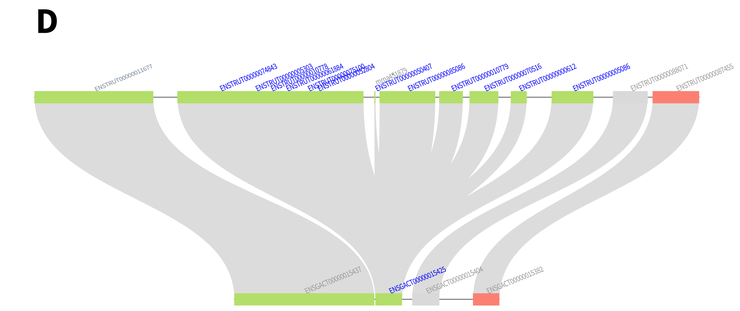
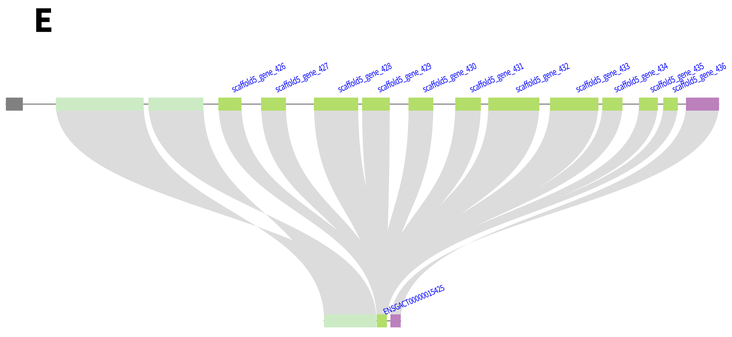
Cetoscarus ocellatus scaffold 5 gene 427
Cetoscarus ocellatus scaffold 5 gene 430
ces2b


D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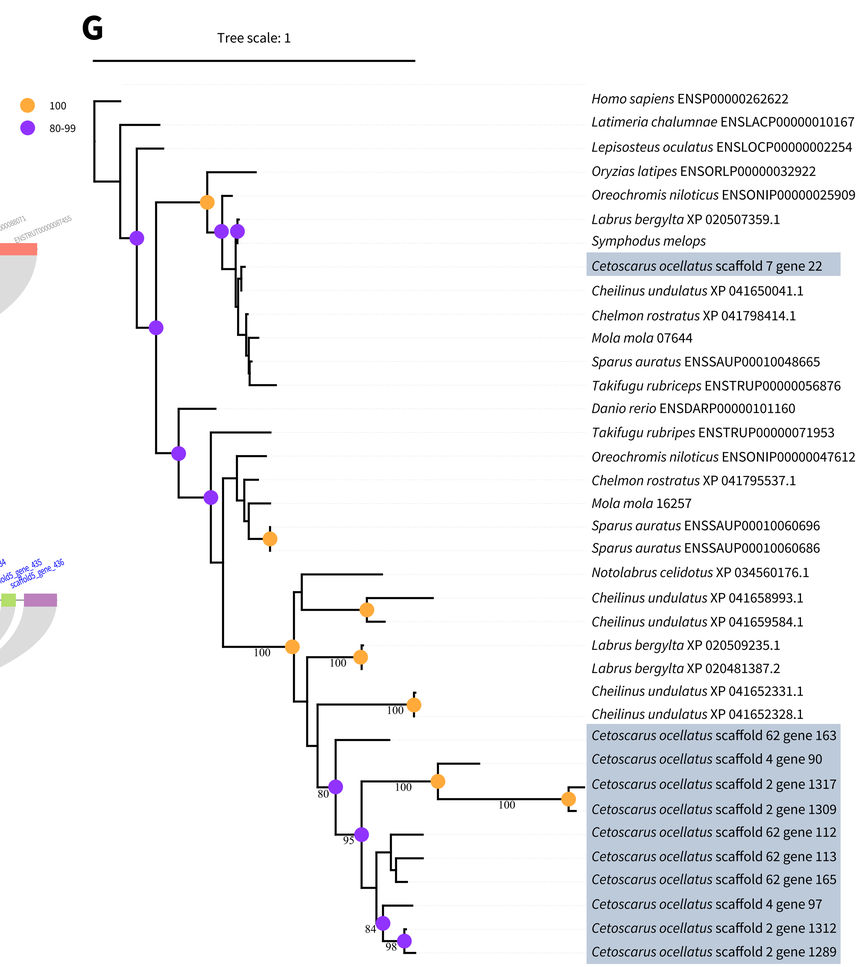
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Lepisosteus oculatus ENSLOCP00000002254
Oryzias latipes ENSORLP00000032922
Oreochromis niloticus ENSONIP00000025909
Labrus bergylta XP 020507359.1
Symphodus melops
Cetoscarus ocellatus scaffold 7 gene 22
Cheilinus undulatus XP 041650041.1
Chelmon rostratus XP 041798414.1
Mola mola 07644
Sparus auratus ENSSAUP00010048665
Takifugu rubriceps ENSTRUP00000056876
Danio rerio ENSDARP00000101160
Takifugu rubripes ENSTRUP00000071953
Oreochromis niloticus ENSONIP00000047612
Chelmon rostratus XP 041795537.1
Mola mola 16257
Sparus auratus ENSSAUP00010060696
Sparus auratus ENSSAUP00010060686
Notolabrus celidotus XP 034560176.1
Cheilinus undulatus XP 041658993.1
Cheilinus undulatus XP 041659584.1
Labrus bergylta XP 020509235.1
Labrus bergylta XP 020481387.2
Cheilinus undulatus XP 041652331.1
Cheilinus undulatus XP 041652328.1
Cetoscarus ocellatus scaffold 62 gene 163
Cetoscarus ocellatus scaffold 4 gene 90
Cetoscarus ocellatus scaffold 2 gene 1317
Cetoscarus ocellatus scaffold 2 gene 1309
Cetoscarus ocellatus scaffold 62 gene 112
Cetoscarus ocellatus scaffold 62 gene 113
Cetoscarus ocellatus scaffold 62 gene 165
Cetoscarus ocellatus scaffold 4 gene 97
Cetoscarus ocellatus scaffold 2 gene 1312
Cetoscarus ocellatus scaffold 2 gene 1289