

Supplementary Table S2: The teleost *cbx3* genes

		CBX3
Dre	Zebrafish (<i>Danio rerio</i>)	cbx3a (Gene ID: 751689) cbx3b (Gene ID: 567497)
Cca	Common carp (<i>Cyprinus carpio</i>)	LOC109108755 LOC109110995 LOC109072345* LOC109111778 LOC109049867
Cau	Goldfish (<i>Carassius auratus</i>)	LOC113116259 LOC113060165 LOC113120071 LOC113062284
Sgr	Golden-line barbel (<i>Sinocyclocheilus grahami</i>)	LOC107602402 LOC107550827 LOC107596654 LOC107592008
Srh	犀角金线鲃 (<i>Sinocyclocheilus rhinoceros</i>)	LOC107744695 LOC107710359 LOC107748667 LOC107743152
San	安水金线鲃 (<i>Sinocyclocheilus anshuiensis</i>)	LOC107688340 LOC107684532 LOC107685582 LOC107656668
Cva	Sheepshead minnow (<i>Cyprinodon variegatus</i>)	LOC107101725 LOC107084325
Xma	Platyfish (<i>Xiphophorus maculatus</i>)	LOC106699776 LOC102224488
Pfo	Amazon molly (<i>Poecilia formosa</i>)	LOC103145272 LOC103150371
Gaf	Western mosquitofish (<i>Gambusia affinis</i>)	cbx3a (ENSGAFG00000017896) cbx3b (ENSGAFG00000005602)
Pre	Guppy (<i>Poecilia reticulata</i>)	LOC103472202 LOC103478581
Xco	Monterrey platyfish (<i>Xiphophorus couchianus</i>)	LOC114141930 LOC114156510
Pla	Sailfin molly (<i>Poecilia latipinna</i>)	LOC106945372 LOC106950175
Pme	Shortfin molly (<i>Poecilia mexicana</i>)	LOC106923566 LOC106928233
Nfu	Turquoise killifish (<i>Nothobranchius furzeri</i>)	cbx3 (Gene ID: 107383357) LOC107395330
Fhe	Mummichog (<i>Fundulus heteroclitus</i>)	LOC105926367 LOC105934310
Kma	Mangrove rivulus (<i>Kryptolebias marmoratus</i>)	cbx3 (Gene ID: 108238543) LOC108241914
Mze	Zebra mbuna (<i>Maylandia zebra</i>)	cbx3 (Gene ID: 101470889) LOC101483327
Oni	Tilapia (<i>Oreochromis niloticus</i>)	LOC100694541 LOC100694248
Hbu	Burton's mouthbrooder (<i>Haplochromis burtoni</i>)	cbx3 (Gene ID: 102307347) LOC102308912
Nbr	Princess of Burundi (<i>Neolamprologus brichardi</i>)	LOC102791258 LOC102789869
Pny	Makobe Island cichlid (<i>Pundamilia nyererei</i>)	cbx3 (Gene ID: 102213635) LOC102197024
Aca	Eastern happy (<i>Astatotilapia calliptera</i>)	LOC113032446 LOC113014873 LOC113014635*
Aci	Midas cichlid (<i>Amphilophus citrinellus</i>)	cbx3a (ENSACIG00000002111) cbx3b (ENSACIG00000016058)
Tru	Japanese puffer (<i>Takifugu rubripes</i>)	LOC101067559 LOC101061787
Tni	Tetraodon (<i>Tetraodon nigroviridis</i>)	ENSTNIG00000001200 ENSTNIG00000018425
Mmo	Ocean sunfish (<i>Mola mola</i>)	cbx3a (ENSMMOG00000000435) cbx3b (ENSMMOG00000001662)
Lcr	Large yellow croaker (<i>Larimichthys crocea</i>)	LOC104940580 LOC104927770
Pfl	Yellow perch (<i>Perca flavescens</i>)	cbx3 (Gene ID: 114567991) LOC114557836
Sdu	Greater amberjack (<i>Seriola dumerili</i>)	LOC111223223 LOC111238784
Sla	Yellowtail amberjack (<i>Seriola lalandi dorsalis</i>)	LOC111673325 LOC111652798
Lbe	Ballan wrasse (<i>Labrus bergylta</i>)	cbx3 (Gene ID: 109994620) LOC109986704
Cgo	Channel bull blenny (<i>Cottoperca gobio</i>)	LOC115021151 LOC115016275
Ena	Live sharksucker (<i>Echeneis naucrates</i>)	LOC115051003 LOC115045440

Pra	Indian glassy fish (<i>Parambassis ranga</i>)	cbx3 (Gene ID: 114450982) LOC114448349
Lca	Barramundi perch (<i>Lates calcarifer</i>)	LOC108891497 LOC108877463
Spa	Bicolor damselfish (<i>Stegastes partitus</i>)	cbx3 (Gene ID: 103364037) LOC103364624
Apo	Spiny chromis (<i>Acanthochromis polyacanthus</i>)	LOC110955790 LOC110951430
Aoc	Clown anemonefish (<i>Amphiprion ocellaris</i>)	LOC111579711 LOC111588833
Ape	Orange clownfish (<i>Amphiprion percula</i>)	cbx3a (ENSAPEG00000019335) cbx3b (ENSAPEG00000010544)
Nco	Black rockcod (<i>Notothenia coriiceps</i>)	cbx3 (Gene ID: 104949902) LOC104966666
Cse	Tongue sole (<i>Cynoglossus semilaevis</i>)	LOC103394257 LOC103388431
Sma	Turbot (<i>Scophthalmus maximus</i>)	cbx3a (ENSSMAG00000014860) cbx3b (ENSSMAG00000020282)
Ame	Mexican cavefish (<i>Astyanax mexicanus</i>)	LOC103046426
Pna	Red-bellied piranha (<i>Pygocentrus nattereri</i>)	LOC108425284 LOC108441518
Mar	Zig-zag eel (<i>Mastacembelus armatus</i>)	LOC113122625 LOC113125891
Mal	Swamp eel (<i>Monopterus albus</i>)	LOC109968149 LOC109967352
Ate	Climbing perch (<i>Anabas testudineus</i>)	LOC113170961 LOC113153869
Bsp	Siamese fighting fish (<i>Betta splendens</i>)	LOC114865848 LOC114843466
Gwi	Blunt-snouted clingfish (<i>Gouania willdenowi</i>)	LOC114472522 LOC114478298
Pma	<i>Periophthalmus magnuspinnatus</i>	cbx3a (ENSPMGG00000006267) cbx3b (ENSPMGG00000011799)
Sfa	Jewelled blenny (<i>Salarias fasciatus</i>)	LOC115396622 LOC115381000
Ola	Medaka (<i>Oryzias latipes</i>)	LOC101159942 LOC100049459
Gac	Stickleback (<i>Gasterosteus aculeatus</i>)	cbx3a (ENSGACG00000007069) cbx3b (ENSGACG00000008334)
Hco	Tiger tail seahorse (<i>Hippocampus comes</i>)	LOC109522111 LOC109525650
Pki	Elephantfish (<i>Paramormyrops kingsleyae</i>)	LOC111846950 LOC111838987
Sfo	Asian bonytongue (<i>Scleropages formosus</i>)	LOC108933414 LOC108933440 LOC108927377
Gmo	Cod (<i>Gadus morhua</i>)	cbx3 (Gene ID: 115535606) LOC115554036
Ipu	Channel catfish (<i>Ictalurus punctatus</i>)	cbx3 (Gene ID: 108271872) cbx3-like (Gene ID: 100528511)
Eel	Electric eel (<i>Electrophorus electricus</i>)	LOC113571151 LOC113580431
Cha	Atlantic herring (<i>Clupea harengus</i>)	cbx3 (Gene ID: 105907686) LOC105911400
Dcl	Denticle herring (<i>Denticeps clupeoides</i>)	LOC114797297 LOC114790202 LOC114796795*
Elu	Northern pike (<i>Esox lucius</i>)	LOC105023664 LOC105018804
Ssa	Atlantic salmon (<i>Salmo salar</i>)	cbx3 (Gene ID: 100195583) LOC106588845 LOC106573104
Omy	Rainbow trout (<i>Oncorhynchus mykiss</i>)	LOC110506239 LOC110496562 LOC110487945
Oki	Coho salmon (<i>Oncorhynchus kisutch</i>)	LOC109878229 LOC109907267 LOC109903322
Sal	Arctic char (<i>Salvelinus alpinus</i>)	LOC111955440 LOC112070715 LOC112079746*
Hhu	Huchen (<i>Hucho hucho</i>)	ENSHHUG00000039337 cbx3a (ENSHHUG00000011830) ENSHHUG00000050410

NCBI gene symbols in black or Ensembl entries in blue are indicated for 151 genes coding for CBX3 orthologues identified in 68 teleost species

° indicates a pseudogene

* indicates that gene predictions generate an incomplete cDNA