Spiny Dogfish:

>sp|Q9ZZ52|COX1\_SQUAC Cytochrome c oxidase subunit 1 OS=Squalus acanthias GN=MT-CO1 PE=3 SV=1
MAINRWFFSTNHKDIGTLYLIFGAWAGMVGTALSLLIRAELSQPGTLLGDDQIYNVIVTA
HAFVMIFFMVMPVMIGGFGNWLVPLMIGAPDMAFPRMNNMSFWLLPPSLLLLLASAGVEA
GAGTGWTVYPPLAGNMAHAGASVDLAIFSLHLAGISSILASINFITTIINMKPPAISQYQ
TPLFVWSILVTTILLLLSLPVLAAAITMLLTDRNLNTTFFDPAGGGDPILYQHLFWFFGH
PEVYILILPGFGMISHVVAYYSGKKEPFGYMGMVWAMMAIGLLGFIVWAHHMFTVGMDVD
TRAYFTSATMIIAIPTGVKVFSWLATLHGGSIKWETPLLWALGFIFLFTVGGLTGIVLAN
SSLDIVLHDTYYVVAHFHYVLSMGAVFAIMAGFIHWFPLFSGYTLHSTWTKTQFLVMFIG
VNLTFFPQHFLGLAGMPRRYSDYPDAYALWNTVSSIGSLISLVAVIMFLFIIWEAFAPSG
KVLSVELPHTNVEWLHGCPPPYHTYEEPAFVQVQRTYF

Sea Lamprey

>sp|Q35536|COX1\_PETMA Cytochrome c oxidase subunit 1 OS=Petromyzon marinus GN=MT-CO1 PE=3 SV=1
MTHIRWLFSTNHKDIGTLYLIFGAWAGMVGTALSILIRAELSQPGTLLGDDQIFNVIVTA
HAFVMIFFMVMPIMIGGFGNWLVPLMLGAPDMAFPRMNNMSFWLLPPSLLLLLASAGVEA
GAGTGWTVYPPLAGNLAHTGASVDLTIFSLHLAGVSSILGAVNFITTIFNMKPPTMTQYQ
TPLFVWSVLITAVLLLLSLPVLAAAITMLLTDRNLNTSFFDPAGGGDPILYQHLFWFFGH
PEVYILILPGFGIISHVVAYYAGKKEPFGYMGMVWAMMAIGLLGFIVWAHHMFTVGMDVD
TRAYFTSATMIIAIPTGVKVFSWLATLHGGKIVWHTPMLWALGFIFLFTVGGLTGIVLSN
SSLDIILHDTYYVVAHFHYVLSMGAVFAIMAGFVHWFPLFTGYTLNETWAKAHFIIMFAG
VNLTFFPQHFLGLAGMPRRYSDYPDAYTTWNIISSIGSTVSLIAVMLFMFILWEAFSAKR
KAIATDLLNTNLEWLHGCPPPYHTYEEPAFVQTNFKK

Saddled Bichir:

>tr|F2W4F6|F2W4F6\_9ACTI Cytochrome c oxidase subunit 1 OS=Polypterus endlicherii congicus GN=COX1 PE=3 SV=1
MTITRWLFSTNHKDIGTLYLIFGAWAGMVGTALSLLIRAELGQPGALMGDDQIYNVIVTA
HAFVMIFFMVMPIMIGGFGNWLVPLMIGAPDMAFPRMNNMSFWLLPPSLLLLLTSSAVEA
GVGTGWTVYPPLAGNLAHAGASVDLAIFSLHLAGVSSILGAINFITTIINMKSPSTSQYQ
TPLFVWSVLVTAILLLLSLPVLAAGITMLLTDRNLNTTFFDPAGGGDPILYQHLFWFFGH
PEVYILILPGFGMISHIVAYYSGKNEPFGYMGMVWAMMAIGLLGFIVWAHHMFTVGMDVD
TRAYFTSATMIIAIPTGVKVFSWLATLHGGAIKWETPMLWALGFIFLFTVGGLTGIILAN
SSLDIMLHDTYYVVAHFHYVLSMGAVFAIMGGFVHWFPLFSGYTLHPTWTKIHFGIMFIG
VNLTFFPQHFLGLAGMPRRYSDYPDAYTLWNSLSSIGSMISLTAVIMFLFILWEAFAAKR
EVQMVNLTYTNVEWLHGCPPPYHTYEEPAFVQSPQARE

Paddlefish:

>tr|Q8HMQ8|Q8HMQ8\_POLSP Cytochrome c oxidase subunit 1 OS=Polyodon spathula GN=COI PE=3 SV=1
MAITRWFFSTNHKDIGTLYLVFGAWAGMVGTALSLLIRAELSQPGALLGDDQIYNVIVTA
HAFVMIFFMVMPIMIGGFGNWLVPLMIGAPDMAFPRMNNMSFWLLPPSFLLLLASSGVEA
GAGTGWTVYPPLAGNLAHAGASVDLTIFSLHLAGVSSILGAINFITTIINMKPPAVFQYQ
TPLFVWSVLVTAVLLLLSLPVLAAGITMLLTDRNLNTTFFDPAGGGDPILYQHLFWFFGH
PEVYILILPGFGMISHIVAYYAGKKEPFGYMGMVWAMMAIGLLGFIVWAHHMFTVGMDVD
TRAYFTSATMIIAIPTGVKVFSWLATLHGGSIKWDTPLLWALGFIFLFTVGGLTGIVLAN
SSLDIVLHDTYYVVAHFHYVLSMGAVFAIMGAFVHWFPLFTGYTLHSTWSKIHFAVMFVG
VNLTFFPQHFLGLAGMPRRYSDYPDAYALWNTVSSVGSLISLIAVIMFLFILWEAFAAKR
EVLSVELTATNVEWLHGCPPPYHTYEEPAFVQVQSTN

Ghost Shark:

>tr|D7RWS9|D7RWS9\_CALMI Cytochrome c oxidase subunit 1 OS=Callorhinchus milii GN=COX1 PE=3 SV=1
MTINRWLFSTNHKDIGTLYLLFGAWAGMVGTALSLLIRAELSQPGALMGDDQIYNVIVTA
HAFVMIFFMVMPIMIGGFGNWLIPLMIGAPDMAFPRMNNMSFWLLPPSFLLLLASAGVEA
GAGTGWTVYPPLAGNLAHAGASVDLTIFSLHLAGISSILASINFITTIINMKPPSITQYQ
TPLFVWSILITTILLLLSLPVLAAGITMLLTDRNLNTTFFDPAGGGDPILYQHLFWFFGH
PEVYILILPGFGMISHVVTYYSGKKEPFGYMGMVWAMMAIGLLGFIVWAHHMFTVGMDVD
TRAYFTSATMIIAIPTGVKVFSWLATLHGGNIKWDTPMLWALGFIFLFTVGGLTGIVLAN
SSLDIVLHDTYYVVAHFHYVLSMGAVFAIMAGLVHWFPLFTGYTLHETWTKIHFGLMFIG
VNLTFFPQHFLGLAGMPRRYSDYPDAYTLWNSVSSIGSLMSLLAVILFLFILWEAFASKR
TLSHVMMSSTNNEWLHGCPPPHHTFEEPAFVQIQVNKKG

Coelacanth:

>sp|O03167|COX1\_LATCH Cytochrome c oxidase subunit 1 OS=Latimeria chalumnae GN=MT-CO1 PE=3 SV=1
MMITRWLFSTNHKDIGTLYMIFGAWAGMVGTALSLLIRAELSQPGALLGDDQIYNVVVTA
HAFVMIFFMVMPIMIGGFGNWLIPLMIGAPDMAFPRMNNMSFWLLPPSLLLLLASSGVEA
GAGTGWTVYPPLAGNLAHAGASVDLTIFSLHLAGVSSILGAINFITTVINMKPPTMTQYQ
TPLFIWSVLVTAVLLLLSLPVLAAGITMLLTDRNLNTTFFDPAGGGDPILYQHLFWFFGH
PEVYILILPGFGMISHIVAYYSGKKEPFGYMGMVWAMMAIGLLGFIVWAHHMFTVGMDVD
TRAYFTSATMIIAIPTGVKVFSWLATLHGGVTKWDTPLLWALGFIFLFTVGGLTGIVLAN
SSLDIILHDTYYVVAHFHYVLSMGAVFAIMGGLVHWFPLMTGYTLHNTWTKIHFGVMFTG
VNLTFFPQHFLGLAGMPRRYSDYPDAYTLWNTVSSIGSLISLIAVIMFMFILWEAFSAKR
EVLIVEMTTTNVEWLHGCPPPHHTYEEPAFVQAPR

Bowfin:

>tr|Q8HQL9|Q8HQL9\_AMICA Cytochrome c oxidase subunit 1 OS=Amia calva GN=COI PE=3 SV=1
MTITRWFFSTNHKDIGTLYLVFGAWAGMVGTALSLLIRAELSQPGALLGDDQIYNVIVTA
HAFVMIFFMVMPVMIGGFGNWLVPLMIGAPDMAFPRMNNMSFWLLPPSFLLLLASSGVEA
GAGTGWTVYPPLASNLAHAGASVDLTIFSLHLAGVSSILGAINFITTIINMKPPAASQYQ
TPLFVWSVLITAVLLLLSLPVLAAGITMLLTDRNLNTTFFDPAGGGDPILYQHLFWFFGH
PEVYILILPGFGMVSHIVAYYAGKKEPFGYMGMVWAMMAIGLLGFIVWAHHMFTVGMDVD
TRAYFTSATMVIAIPTGVKVFSWLATLHGGAIKWETPLLWALGFIFLFTVGGLTGIVLAN
SSLDIVLHDTYYVVAHFHYVLSMGAVFAIMGGFVHWFPLFSGYTLHPTWSKIHFGVMFVG
VNLTFFPQHFLGLAGMPRRYSDYPDAYTLWNTVSSIGSLVSLIAVVMFLFMLWEAFAAKR
EVLAVEYAATNVEWLHGCPPPYHTYEEPAYVQAHRA

Pollen`s Cichlid:

>tr|B5DCF6|B5DCF6\_9CICH Cytochrome c oxidase subunit 1 OS=Paratilapia polleni GN=CO1 PE=3 SV=1
MAITRWFFSTNHKDIGTLYLVFGAWAGMVGTALSLLIRAELSQPGSLLGDDQIYNVIVTA
HAFVMIFFMVMPIMIGGFGNWLIPLMIGAPDMAFPRMNNMSFWLLPPSFLLLLASSGVEA
GAGTGWTVYPPLAGNLAHAGPSVDLTIFSLHLAGVSSILGAINFITTIINMKPPAISQYQ
TPLFVWSVLITAVLLLLSLPVLAAGITMLLTDRNLNTTFFDPAGGGDPILYQHLFWFFGH
PEVYILILPGFGMISHIVAYYSGKKEPFGYMGMVWAMMAIGLLGFIVWAHHMFTVGMDVD
TRAYFTSATMIIAIPTGVKVFSWLATLHGGAIKWDTPLLWALGFIFLFTVGGLTGIVLAN
SSLDIMLHDTYYVVAHFHYVLSMGAVFAIVGGFVHWFPLFSGYTLHSTWTKIHFGVMFIG
VNLTFFPQHFLGLAGMPRRYSDYPDAYTLWNTVSSIGSMISLVAVIMFLFIIWEAFAAKR
EVLSAELTTTNAEWLHGCPPPYHTFEEPAFVQVQQA

Ropefish:

>tr|Q8HMU1|Q8HMU1\_ERPCA Cytochrome c oxidase subunit 1 OS=Erpetoichthys calabaricus GN=COI PE=3 SV=1
MTITRWLFSTNHKDIGTLYLIFGAWAGMVGTALSLLIRAELGQPGALMGDDQIYNVIVTA
HAFVMIFFMVMPIMIGGFGNWLVPLMIGAPDMAFPRMNNMSFWLLPPSFLLLLTSSAVEA
GVGTGWTVYPPLAGNLAHAGASVDLAIFSLHLAGVSSILGAINFITTIINMKPPATSQYQ
TPLFVWSVLVTAVLLLLSLPVLAAGITMLLTDRNLNTTFFDPAGGGDPILYQHLFWFFGH
PEVYILILPGFGMISHIVAYYSGKNEPFGYMGMVWAMMAIGLLGFIVWAHHMFTVGMDVD
TRAYFTSATMIIAIPTGVKVFSWLATLHGGAIKWETPMLWALGFIFLFTVGGLTGIILAN
SSLDIMLHDTYYVVAHFHYVLSMGAVFAIMGGFVHWFPLFSGYTLHPTWTKIHFGVMFIG
VNLTFFPQHFLGLAGMPRRYSDYPDAYTLWNSLSSIGSMISLTAVIMFLFILWEAFAAKR
EVQTVNLTYTNVEWLHGCPPPYHTYEEPAFVQSPNSRE

Great White Shark:

>tr|I1U3D7|I1U3D7\_CARCH Cytochrome c oxidase subunit 1 OS=Carcharodon carcharias PE=3 SV=1
MAINRWLFSTNHKDIGTLYLIFGAWAGMVGTALSLLIRAELGQPGSLLGDDQIYNVIVTA
HAFVMIFFMVMPIMIGGFGNWLVPLMIGAPDMAFPRMNNMSFWLLPPSFLLLLASAGVEA
GAGTGWTVYPPLASNLAHAGPSVDLAIFSLHLAGISSILASINFITTIINMKPPAISQYQ
TPLFVWSILVTTILLLPALPVLAAGITMLLTDRNLNTTFFDPAGGGDPILYQHLFWFFGH
PEVYILILPGFGMISHVVAYYSGKKEPFGYMGMVWAMMAIGLLGFIVWAHHMFTVGMDVD
TRAYFTSATMIIAIPTGVKVFSWLATLHGGTIKWDTPLLWALGFIFLFTVGGLTGIVLAN
SSLDIVLHDTYYVVAHFHYVLSMGAVFAIMAGFIHWFPLMSGFTLHQTWTKIQFTVMFIG
VNLTFFPQHFLGLAGMPRRYSDYPDAYTLWNAISSIGSLISLVAVIMLLFIIWEAFASKR
EVLSIELPHTNVEWLHGCPPPYHTYEEPAFVQIQRPSF

Axolotl:

>tr|Q70EE6|Q70EE6\_AMBME Cytochrome c oxidase subunit 1 OS=Ambystoma mexicanum GN=COI PE=3 SV=1
MMITRWLFSTNHKDIGTLYLVFGAWAGMVGTALSLLIRAELSQPGALLGDDQIYNVIVTA
HAFVMIFFMVMPVMIGGFGNWLVPLMIGAPDMAFPRMNNMSFWLLPPSFLLLLASSGVEA
GAGTGWTVYPPLAGNLAHAGASVDLTIFSLHLAGVSSILGAINFITTSINMKPASMSQYQ
TPLFVWSVLITAVLLLLSLPVLAAGITMLLTDRNLNTTFFDPAGGGDPVLYQHLFWFFGH
PEVYILILPGFGMISHIVTYYSAKKEPFGYMGMVWAMMSIGLLGFIVWAHHMFTVDLNVD
TRAYFTSATMIIAIPTGVKVFSWLATMHGGAIKWDAAMLWALGFIFLFTVGGLTGIVLAN
SSLDIVLHDTYYVVAHFHYVLSMGAVFAIMGGFVHWFPLFSGYTLHSTWSKIHFGVMFIG
VNLTFFPQHFLGLAGMPRRYSDYPDAYTLWNTVSSIGSLISLVAVIMMMFIIWEAFASKR
EVLSTELTSTNIEWLHNCPPPYHTFEEPSFVQSRI

Cuvier's Bichir:

>tr|Q8HMS1|Q8HMS1\_POLSE Cytochrome c oxidase subunit 1 OS=Polypterus senegalus senegalus GN=COI PE=3 SV=1
MTITRWLFSTNHKDIGTLYLIFGAWAGMVGTALSLLIRAELGQPGALMGDDQIYNVIVTA
HAFVMIFFMVMPIMIGGFGNWLVPLMIGAPDMAFPRMNNMSFWLLPPSLLLLLTSSAVEA
GVGTGWTVYPPLAGNLAHAGASVDLAIFSLHLAGVSSILGAINFITTIINMKPPSTSQYQ
TPLFVWSVLITAVLLLLSLPVLAAGITMLLTDRNLNTTFFDPAGGGDPILYQHLFWFFGH
PEVYILILPGFGMISHIVAYYSGKNEPFGYMGMVWAMMAIGLLGFIVWAHHMFTVGMDVD
TRAYFTSATMIIAIPTGVKVFSWLATLHGGAIKWETPMLWALGFIFLFTVGGLTGIILAN
SSLDIMLHDTYYVVAHFHYVLSMGAVFAIMGGFVHWFPLFSGYTLHSTWTKIHFGVMFIG
VNLTFFPQHFLGLAGMPRRYSDYPDAYTLWNSLSSIGSMISLTAVIMFLFILWEAFAAKR
EVQTVELTYTNVEWLHGCPPPYHTYEEPAFVQSPQARE

Russian Sturgeon:

>tr|C1J916|C1J916\_ACIGU Cytochrome c oxidase subunit 1 OS=Acipenser gueldenstaedtii GN=cox1 PE=3 SV=1
MAITRWFFSTNHKDIGTLYLVFGAWAGMVGTALSLLIRAELSQPGALLGDDQIYNVIVTA
HAFVMIFFMVMPIMIGGFGNWLVPLMIGAPDMAFPRMNNMSFWLLPPSFLLLLASSGVEA
GAGTGWTVYPPLAGNLAHAGASVDLTIFSLHLAGVSSILGAINFITTIINMKPPAVSQYQ
TPLFVWSVLITAVLLLLSLPVLAAGITMLLTDRNLNTTFFDPAGGGDPILYQHLFWFFGH
PEVYILILPGFGMISHIVAYYAGKKEPFGYMGMVWAMMAIGLLGFIVWAHHMFTVGMDVD
TRAYFTSATMIIAIPTGVKVFSWLATLHGGSIKWDTPLLWALGFIFLFTVGGLTGIVLAN
SSLDIVLHDTYYVVAHFHYVLSMGAVFAIMGAFVHWFPLFTGYTLHGTWSKIHFAVMFVG
VNLTFFPQHFLGLAGMPRRYSDYPDAYALWNTVSSIGSLISLVAVIMFLFILWEAFAAKR
EVMSVELTTTNVEWLHGCPPPYHTYEEPAFVQVQSTS

Australian Lungfish:

>tr|Q94XJ5|Q94XJ5\_NEOFS Cytochrome c oxidase subunit 1 OS=Neoceratodus forsteri GN=COX1 PE=3 SV=1
MTITRWFFSTNHKDIGTLYMIFGAWAGMVGTALSLLIRAELSQPGALLGDDQIYNVLVTA
HAFVMIFFMVMPIMIGGFGNWLIPLMIGAPDMAFPRMNNMSFWLLPPSFLLLLASSGVEA
GAGTGWTVYPPLAGNLAHAGASVDLTIFSLHLAGVSSILGSINFITTIINMKPPAISQYQ
TPLFIWSVMITTILLLLSLPVLAAGITMLLTDRNLNTTFFDPAGGGDPILYQHLFWFFGH
PEVYILILPGYGMISHIVAYYSGKKEPFGYMGMVWAMMAIGLLGFIVWAHHMFTVGMDVD
TRAYFTSATMIIAIPTGVKVFSWLATLHGGSIKWETPLLWALGFIFLFTVGGLTGIVLAN
SSLDIVLHDTYYVVAHFHYVLSMGAVFAIMGGFVHWFPLMTGYTLHNTWTKIHFGVMFIG
VNLTFFPQHFLGLAGMPRRYSDYPDAYTLWNTVSSIGSLISLVAVIMLLFIIWEAFAAKR
EVMSIELSPTNVEWLHGCPPPHHTFEEPAFVQVQTSQR

Goldfish:

>sp|O78681|COX1\_CARAU Cytochrome c oxidase subunit 1 OS=Carassius auratus GN=mt-co1 PE=3 SV=1
MAITRWFFSTNHKDIGTLYLVFGAWAGMVGTALSLLIRAELSQPGSLLGDDQIYNVIVTA
HAFVMIFFMVMPILIGGFGNWLVPLMIGAPDMAFPRMNNMSFWLLPPSFLLLLASSGVEA
GAGTGWTVYPPLAGNLAHAGASVDLTIFSLHLAGVSSILGAINFITTTINMKPPAISQYQ
TPLFVWSVLVTAVLLLLSLPVLAAGITMLLTDRNLNTTFFDPAGGGDPILYQHLFWFFGH
PEVYILILPGFGIISHVVAYYSGKKEPFGYMGMVWAMMAIGLLGFIVWAHHMFTVGMDVD
TRAYFTSATMIIAIPTGVKVFSWLATLHGGSIKWETPMLWALGFIFLFTVGGLTGIVLSN
SSLDIVLHDTYYVVAHFHYVLSMGAVFAIMAAFVHWFPLLTGYTLHSAWTKIHFGVMFIG
VNLTFFPQHFLGLAGMPRRYSDYPDAYALWNTVSSIGSLISLVAVIMFLFILWEAFAAKR
EVLSVELTMTNVEWLHGCPPPYHTYEEPAFVQIQSN