

Table S1. The GenBank accession numbers .**Title 1**

NP_000094.2 aromatase [*Homo sapiens*]
 NP_001335100.1 aromatase [*Mus musculus*]
 XP_046780576.1 aromatase [*Gallus gallus*]
 NP_001090630.1 CYP19A1 [*Xenopus tropicalis*]
 XP_043533302.1 aromatase [*Chiloscyllium plagiosum*]
 XP_048418626.1 aromatase [*Stegostoma fasciatum*]
 XP_020386362.2 aromatase [*Rhincodon typus*]
 XP_038669275.1 aromatase [*Scyliorhinus canicula*]
 XP_041030878.1 aromatase [*Carcharodon carcharias*]
 XP_032906075.1 aromatase [*Amblyraja radiata*]
 XP_042199999.1 aromatase [*Callorhinchus milii*]
 XP_038850963.1 aromatase-like [*Salvelinus namaycush*]
 XP_014030724.1 aromatase [*Salmo salar*]
 XP_026865672.2 aromatase [*Electrophorus electricus*]
 XP_026877222.2 brain aromatase [*Electrophorus electricus*]
 XP_042608630.1 brain aromatase [*Cyprinus carpio*]
 XP_042599607.1 ovarian aromatase-like [*Cyprinus carpio*]
 XP_026031446.1 brain aromatase-like [*Astatotilapia calliptera*]
 XP_026019473.1 aromatase [*Astatotilapia calliptera*]
 XP_005450866.1 brain aromatase [*Oreochromis niloticus*]
 NP_571229.3 aromatase [*Danio rerio*]
 XP_021326198.1 CYP19A1b [*Danio rerio*]
 NP_001265808.1 aromatase [*Oryzias latipes*]
 XP_011474159.1 CYP19A1b [*Oryzias latipes*]
 XP_035672840.1 aromatase-like [*Branchiostoma floridae*]
 XP_035669280.1 aromatase-like [*Branchiostoma floridae*]
 XP_019626033.1 aromatase-like [*Branchiostoma belcheri*]
 XP_019639573.1 aromatase-like [*Branchiostoma belcheri*]
 XP_032801472.1 aromatase [*Petromyzon marinus*]
 XP_033105836.1 aromatase-like [*Anneissia japonica*]
 XP_057290659.1 aromatase-like [*Hydractinia symbiolongicarpus*]
 NP_001189784.1 cytochrome P450 3A4 isoform 2 [*Homo sapiens*]
 BAB20498.1 cytochrome P450, CYP3A [*Mus musculus*]
 NP_001001751.2 cytochrome P450 family 3 subfamily A member 5 [*Gallus gallus*]
 NP_997838.1 cytochrome P450, family 3, subfamily c, polypeptide 1 [*Danio rerio*]
 NP_001292334.1 cytochrome P450, family 3, subfamily A [*Oryzias latipes*]
 AGO32790.1 Cyp3A [*Azumapecten farreri*]
 CAB4069313.1 CYP3A [*Lepeophtheirus salmonis*]
 CAG2198897.1 CYP3A [*Mytilus edulis*]
 CAE1256603.1 CYP3A [*Sepia pharaonis*]
 AAA52140.1 CYP17A [*Homo sapiens*]
 AAT01928.1 CYP17A [*Mus musculus*]
 AUD11671.1 steroid 17-alpha-hydroxylase/17,20 lyase [*Anser cygnoides*]
 AAT01120.1 cytochrome P450c17 [*Chelydra serpentina*]
 NP_001090540.2 cytochrome P450 family 17 subfamily A member 1 [*Xenopus laevis*]
 AAP41821.1 ovarian cytochrome P450c17 [*Danio rerio*]
 AAR88432.1 P450c17 [*Anguilla japonica*]
 NP_001118219.1 steroid 17-alpha-hydroxylase/17,20 lyase [*Oncorhynchus mykiss*]

WLF94733.1 steroid 17-alpha-hydroxylase/17,20 -like protein [*Apostichopus japonicus*]
NP_001187242.1 steroid 17-alpha-hydroxylase/17,20 [*Ictalurus punctatus*]
NP_001266694.1 steroid 17-alpha-hydroxylase/17,20 -like [*Oreochromis niloticus*]
XP_020555398.1 steroid 17-alpha-hydroxylase/17,20 isoform X1 [*Oryzias latipes*]
BAF61104.1 cytochrome P450 17alpha-hydroxylase/17, 20- [*Branchiostoma belcheri*]
AAA52140.1 CYP17A [*Homo sapiens*]
AAT01928.1 CYP17A [*Mus musculus*]
AUD11671.1 steroid 17-alpha-hydroxylase/17,20 lyase [*Anser cygnoides*]
AAT01120.1 cytochrome P450c17 [*Chelydra serpentina*]
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AAR88432.1 P450c17 [*Anguilla japonica*]
NP_001118219.1 steroid 17-alpha-hydroxylase/17,20 lyase [*Oncorhynchus mykiss*]
WLF94733.1 steroid 17-alpha-hydroxylase/17,20-like protein [*Apostichopus japonicus*]
NP_001187242.1 steroid 17-alpha-hydroxylase/17,20 lyase [*Ictalurus punctatus*]
NP_001266694.1 steroid 17-alpha-hydroxylase/17,20 lyase-like [*Oreochromis niloticus*]
XP_020555398.1 steroid 17-alpha-hydroxylase/17,20 lyase isoform X1 [*Oryzias latipes*]
AAB59440.1 steroid 21-hydroxylase [*Homo sapiens*]
BAA31153.1 steroid 21-hydroxylase [*Mus musculus*]
AFN53625.1 CYP21 [*Chrysolophus pictus*]
BAF63009.1 steroid 21-hydroxylase [*Gallus gallus*]
NP_001087443.1 cytochrome P450 family 21 subfamily A member 2, 1 L [*Xenopus laevis*]
BAC76051.1 cytochrome P450 21-hydroxylase [*Anguilla japonica*]
KAB7505058.1 Steroid 21-hydroxylase [*Armadillidium nasatum*]
