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

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| **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*]NP\_001090540.2 cytochrome P450 family 17 subfamily A member 1 L [*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 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*] |