

Additional files 1

Supplementary Figures

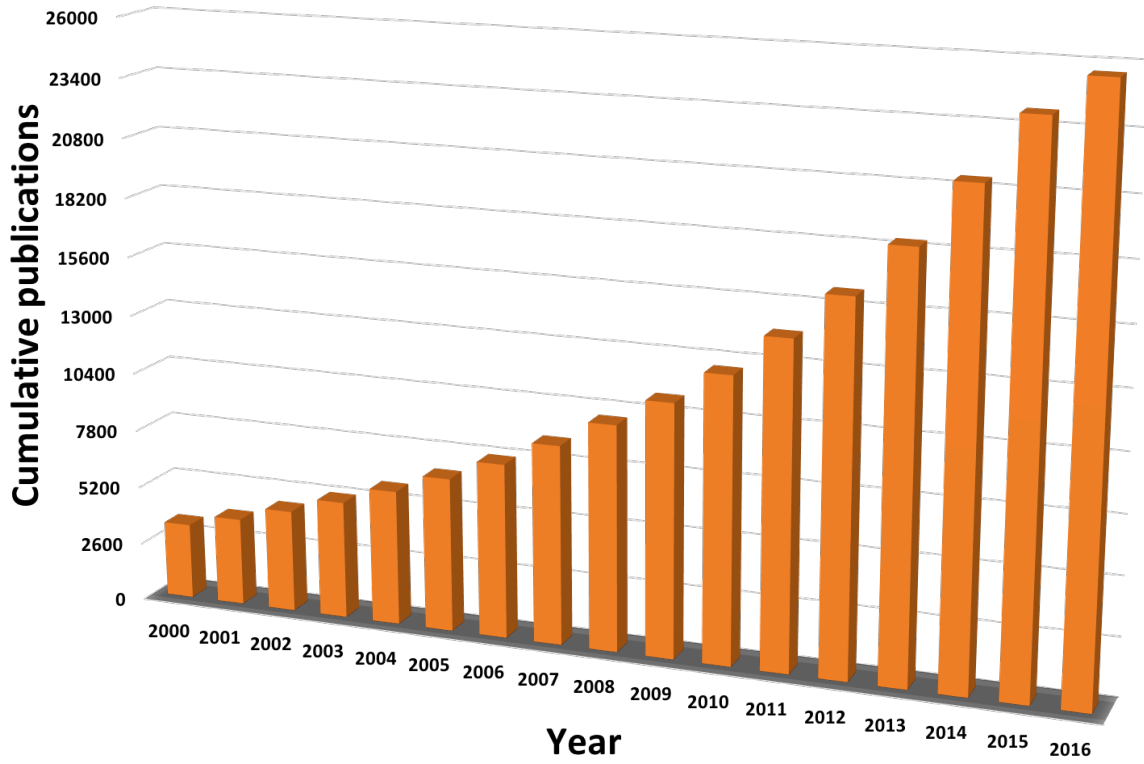


Figure S1. The cumulative publications of related articles of aquatic animal in PubMed.

Supplementary Tables

Table S1. RNA-seq datasets from twenty-two aquatic animals were analyzed in dbATM.

Species	No. of Bases (Gbps)	Platform	Read length	Source
^a <i>Anguilla japonica</i>	8.61 G	Illumina HiSeq 2000	PE, 2x101	SRR1185326
<i>Astyanax mexicanus</i>	8.88 G	Illumina HiSeq 2000	PE, 2x100	SRR688577
<i>Clupea harengus</i>	11.72 G	Illumina HiSeq 2000	PE, 2x101	SRR611605
<i>Crassostrea gigas</i>	2.86 G	Illumina HiSeq 2000	PE, 2x93	SRR497890
<i>Fundulus grandis</i>	5.00G	Illumina Genome Analyzer IIx	PE, 2x60	SRR504405
<i>Gasterosteus aculeatus</i>	3.20 G	Illumina HiSeq 2000	PE, 2x101	SRR528545
<i>Ictalurus punctatus</i>	4.96 G	Illumina HiSeq 2000	PE, 2x101	SRR392743
<i>Lateolabrax japonicas</i>	2.59 G	Illumina Genome Analyzer II	PE, 2x75	SRR536341
^a <i>Microphysogobio brevirostris</i>	4.84G	Illumina HiSeq 2000	PE, 2x90	SRR1185341
<i>Mytilus galloprovincialis</i>	1.37G	Illumina Genome Analyzer II	PE, 2x100	SRR442035
^a <i>Neocaridina denticulate</i>	6.06G	Illumina HiSeq 2000	PE, 2x101	SRR118532
<i>Pandalus latirostris</i>	4.74G	Illumina Genome Analyzer II	PE, 2x76	DRR001119
<i>Penaeus monodon</i>	5.60G	Illumina Genome Analyzer II	PE, 2x72	SRR388221
^a <i>Planorbarius corneus</i>	5.66G	Illumina HiSeq 2000	PE, 2x101	SRR1185333
<i>Plecoglossus altivelis</i>	4.48G	Illumina HiSeq 2000	PE, 2x90	SRR363084
<i>Poecilia formosa</i>	5.72G	Illumina HiSeq 2000	PE, 2x100	SRR629501
<i>Poecilia mexicana</i>	1.63G	Illumina HiSeq 2000	PE, 2x101	SRR534470
<i>Protopterus annectens</i>	1.94G	Illumina HiSeq 2000	PE, 2x76	SRR505724
<i>Pundamilia nyererei</i>	2.10G	Illumina HiSeq 2000	PE, 2x76	SRR445779
<i>Sinocyclocheilus angustiporus</i>	1.10G	Illumina Genome Analyzer II	PE, 2x74	SRR788094
<i>Sinocyclocheilus anophthalmus</i>	2.06G	Illumina Genome Analyzer II	PE, 2x74	SRR788095
<i>Tetraodon nigroviridis</i>	11.43G	Illumina HiSeq 2000	PE, 2x76	SRR579565
22 Species	106.55 G			

^a The RNA sequencing data sets generated in this study.

Table S2. Statistics of homologous genes in each clade and their gene lists.

Clade (No. of Genes)	Gene Lists
Mollusca (27)	<i>arhgap17b, as3mt, wdr21, zgc:175171, ttil12, fam102bb, plekhm3, mplkip, nme6, klhl38a, reep3l, loc101077359, slc25a47a, loc101078827, blvra, foxo3b, loc100703121, pkn3, loc101067704, ptgdsa, loc101163770, mab211l, phum_phum086910, loc101066367, loc101064786, dhrrs11b, loc100706188</i>
	<i>cars, acsbg2, ddost, ascc3, aplp2, nup205, dlat, acadm, kansl3, gcn11l, wipi2, ascc2, usp25, bsdc1, nsfl1c, cnot1, snrnp70, prpf39, ralgap1a, ranbp9, mkln1, pccb, aqr, snrnp200, copb2, dhx16, wdr11, aup1, nkrf, patl1, rufy2, rint1, smg5, nfatc3, vps33b, zgc:85858, bckdha, neo1, spp13, psmd4a, osbpl9, fahd2a, dmgdh, pmpca, xrn2, rps15a, apc, atrx, kif16b, tcf7l2, ubap2l, ube4b, nckap1, smap1, ndrg2, mef2d, bms1l, kpnb1, fkbp8, loc101167943, nmt1a, smurf2, znf259, cyc1, zmat2, loc101167297, tusc3, iars, anxa6, samm50, tubgcp2, fkbp1b, gstcd, mesdc2, tbc1d23, fbxl4, abcc9, mfg8b, clasp1a, letm1, dlga5a, arl5a, sumo1, acadl, crebl2, emc10, moes, farsa, fnbp1, heg, loc100700623, loc101158698, clstn1, ptpn13, tbc1d16, cct8, s41a2, crot, npat, disp1, ankrd44, slc25a37, edem2, slc43a1b, trmt11, cpox, gtf3c1, 2a5e, si:ch211-225b11.4, gtf2a2, dohh, prrg4, ndrg3b, cn37, gnal, nosip, msmo1, nadka, ict1, ythdc1, tnfaip2a, thas, tipin, akap17a, nfasca, pcdh19, si:ch211-191j22.3, spen, hk2, loc566587, slc13a5a, loc101165302, ncoa3, ppp1cab, btd, mrto4, ldhba, reep3l, prick1b, mis18a, pold1, dpy19l3, arhgdia, si:ch73-381f5.3, zgc:112962, tada2b, cmklr1, cygb2, loc100708444, cmss1, loc101167287, vir, loc100694931, mrp1, loc100709525, knct1, smcr8, loc101165712, exo1, loc100693412, stard10, nek8, loc101169719, im:7140390, rayl, nudc1, bmf2, loc100135972, pax7b, tmem106a, snx22, loc100689736, loc101172479, sh2d3cb, loc100692541, si:ch1073-228b5.2, loc100701920, sias, wdr90, cacna1i, loc101170264, loc101162834, zgc:92598, cnpy1, fam49bb, pddc1, ccdc120, loc101169363, loc101174617, loc100695023, zgc:113425, rbpja, loc100712113, tcf7l1b, slc37a4, phum_phum349810, loc101067921, loc101079580, loc100697359, loc100004299, dnm1b, loc100691791, syt1a, gls, psmb1, kiaa1324, loc100694401, loc101172999, loc100150849, loc100534505, stxbp3, si:dkey-78l4.14, nemvedraft_v1g93294, ntrk3b, loc101067217, loc101170479, chrne, loc566697, mkrn4, cx32.2, vrk2, loc101173447, loc101175430, loc100702159, loc100707227, hs3st3b1a, loc100538228, loc101166998, phum_phum551470, loc562425, loc100014518, loc100694330, il1rap1b, zgc:153049, wdr47b, chd6, dvirgi20269, f101b, gcdhl, rnf144ab, loc101062834, loc100691107, loc101074613, loc553528, loc565380, ldb3b, loc102092046, pdzd1, loc797545, loc101065804, si:ch211-260b17.8, thex1, loc101079666, loc100691626, ccdc149b, loc100701076, mmp16, loc101158432, nhlh2, gli2a, jmj5, si:dkey-260c8.8, drd2b, slc2a11b, tph1a, loc101168203, loc101173830, pla2g12b, mgp, kif3c, lcorl, phospho1, gdf10b, zgc:194993, loc100697193, loc101079588, svil, loc101160300, loc100703466, loc101070223, syn2a, loc101167898, hs3st4, pitpnb1, loc100708771, mda5, loc101062051, trpm5, loc100695565, sh24a, aael_aael010795, rfxk, si:dkey-10c21.1, loc101069285, loc100693512, zgc:171459, aael_aael001936, loc100330817, loc101155516, phum_phum369800, rhof, loc101159255, loc101064440, loc799320, arhgef18a, loc100333406, cl043, loc101065367, filip1, kif5a, c1qt4, 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Arthropoda (582)	

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**Ostariophysi
(3027)**

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yars, cars, trip12, rab3gap2, herc2, vwa8, nup98, nfyc, dync1h1, ddx54, skiv2l, thoc2, parp3, ankhdl1, snx14, csnk1a1, zw10, usp34, aktip, rtf1, exosc1, xpo4, atrn, si:ch211-233a24.2, clk2a, ogt.1, narfl, acadvl, ap4m1, eif4g2a, nxf1, ahcy, slc25a42, pus7, abcc4, clip1, tufm, spag1a, alg11, bcl9l, ik, clasp2, ube2z, thoc5, rab10, usp36, phf8, pld3, sptbn1, srekl1, chd8, zc3h14, nt5dc2, plp2, ap3s2, usp38, usp40, extl3, cwf19l1, pdcd7, nupl2, gpatch1, sfpq, mbnl1, med13b, ero1lb, cccl174, si:ch211-93f2.1, if2b, cables1, loc101071127, cpsf3, mett125, zgc:172112, pkp2, mrps34, im:7151068, gas8, march5l, si:dkeyp-110c7.1, zcchc9, dnmt3a, unc5c, stx17, ppp3ca

Actinopterygii (19) yars, cars, trip12, rab3gap2, herc2, nup98, nfyc, dync1h1, ddx54, skiv2l, thoc2, snx14, csnk1a1, zw10, xpo4, atrn, si:ch211-233a24.2, ogt.1, narfl

Chordate (8) yars, trip12, nfyc, ddx54, skiv2l, thoc2, snx14, zw10