

Supplementary Table 8. MHC Sequence Accession Identifiers.

Common name	Species	Gene	Identifier ¹
MHC class I			
Bowfin	<i>Amia calva</i>	mhc1laa	scaf14:2543267-2542998
		mhc1lba	scaf14:2559143-2558874
		mhc1lca	scaf14:2592504-2592800
		mhc1pba	scaf14:981819-982079
		mhc1pda 1 st α3	scaf12:9735185-9734913
		mhc1pda 2 nd α3	scaf12:9727061-9726718
		mhc1pfa 1 st α3	scaf12:9769801-9769529
		mhc1pfa 2 nd α3	scaf12:9764651-9764379
		mhc1pha	scaf2:38353296-38353027
		mhc1pia	scaf18:1532938-1532678
		mhc1saa	scaf12:4112206-4111919
		mhc1sca	scaf8:39209994-39209707
		mhc1sda	scaf49:35352-35639
		mhc1uaa	scaf14:221868-222125
		mhc1uba	scaf14:236600-236325
		mhc1uha	scaf14:301161-301445
		mhc1uia	scaf14:348583-348317
		mhc1zaa	scaf14:1094724-1095008
		mhc1zba	scaf14:1101842-1102132
		mhc1zca	scaf14:1107427-1107717
Coelacanth (West Indian Ocean coelacanth)	<i>Latimeria chalumnae</i>	MHCI	Ensembl:JH129212.1:170218-170496
Frog (western clawed frog)	<i>Xenopus tropicalis</i>	MHCI	Genbank:NP_001106536.1
Human	<i>Homo sapiens</i>	HLA-B	Genbank:NP_005505.2
Pufferfish	<i>Takifugu rubripes</i>	MHCI P lineage	Ensembl:5:4045381-4045641
		MHCI U lineage	Genbank:XP_029701365.1
		MHCI Z lineage	Genbank:XP_029700821.1
Salmon (sockeye salmon)	<i>Oncorhynchus nerka</i>	MHC1ZAA	Genbank:XP_029514089.1
Salmon (Atlantic salmon)	<i>Salmo salar</i>	MHC1LBA	Genbank:XP_014031973.1
		MHC1SAA	Genbank:ACY30362.1
		MHC1UHA2	Genbank:ACY30368.1
Shark (horn shark)	<i>Heterodontus francisci</i>	MHCI	Genbank:AAF66110.1
Zebrafish	<i>Danio rerio</i>	mhc1lca	Genbank:XP_001340413.4
		mhc1uma	Genbank:XP_005161940.1
		mhc1zaa	Genbank:NP_919406.1
MHC class II			
Bowfin	<i>Amia calva</i>	mhc2dea	scaf_14:558022-558303
		mhc2deb	scaf_14:574282-574563
		mhc2dga	scaf_14:620850-621131
		mhc2dgb	scaf_14:647043-647324
		mhc2dha1	scaf_14:539950-539669
		mhc2dha2	BF13_DN42323_c0_g1_i3 (functional allele of scaf_14:680327-680045)
		mhc2dhb1	scaf_14:529355-529077
		mhc2dhb2	scaf_14:670611-670333
		mhc2dia	scaf_14:509758-509477
		mhc2dib	scaf_14:490631-490909
		mhc2dkb	scaf_14:429867-430148
Chicken	<i>Gallus gallus</i>	BLA	Genbank:NP_001231990.1
		BLB1	Genbank:NC_006103.5:2566242-2565964
		BLB2	Genbank:NC_006103.5:2573022-2573300
		BLB3	Genbank:NC_006103.5:1907016-1906738
		DMA	Genbank:NC_006103.5:2586006-2586284
		DMB1	Genbank:NC_006103.5:2588156-2588428

¹ GenBank (<https://www.ncbi.nlm.nih.gov/genbank/>); IMGT (<http://www.imgt.org/>); ENSEMBL (<http://www.ensembl.org/>); Detailed information on spotted gar sequences provided in Supplementary Table 7.

		DMB2	Genbank:NC_006103.5:2591338-2591619
		LOC101748499	Genbank:NC_006103.5:1868137-1868415
Coelacanth	<i>Latimeria chalumnae</i>	MHCIIA(JH128941)	ENSEMBL:JH128941.1:74163-74441
		MHCIIA(JH131877)	ENSEMBL:JH131877.1:41961-42239
		MHCIIA(JH133334)	ENSEMBL:JH133334.1:8992-9270
		MHCIIA(JH133683)	ENSEMBL:JH133683.1:4279-4001
		MHCIIA(JH134128)	ENSEMBL:JH134128.1:3918-4196
		MHCIIIB(JH127214)	ENSEMBL:JH127214.1:310506-310225
		MHCIIIB(JH128941.1)	ENSEMBL:JH128941.1:29825-30103
		MHCIIIB(JH128941.2)	ENSEMBL:JH128941.1:109709-109987
		MHCIIIB(JH128941.3)	ENSEMBL:JH128941.1:190181-190459
		MHCIIIB(JH128941.4)	ENSEMBL:JH128941.1:293249-292974
		MHCIIIB(JH128993)	ENSEMBL:JH128993.1:41705-41430
		MHCIIIB(JH131877)	ENSEMBL:JH131877.1:6264-5989
		MHCIIIB(JH132855)	ENSEMBL:JH132855.1:2701-2976
		MHCIIIB(JH134411)	ENSEMBL:JH134411.1:6862-6584
		MHCIIIB(JH135383)	ENSEMBL:JH135383.1:5211-5489
Catfish (channel catfish)	<i>Ictalurus punctatus</i>	A3	Genbank:NC_030420.1:1604764-1605039
		LOC108264923	Genbank:XP_017322421
		LOC108264927:H2-Aa	Genbank:NC_030420.1:291922-292203
		LOC108264928	Genbank:NC_030420.1:245396-245115
		LOC108265442	Genbank:NC_030420.1:1627735-1628013
		LOC108265443	Genbank:NC_030420.1:1610021-1610299
		LOC108265444:lcpu-DBA	Genbank:NC_030420.1:1621123-1621401
Frog	<i>Xenopus tropicalis</i>	hla-dqa1	Genbank:NC_030684.2:72955184-72955462
		LOC100495183	Genbank:NC_030684.2:73113484-73113759
		mhc2a	Genbank:NC_030684.2:73085973-73086251
		XB5827395	Genbank:NC_030684.2:72529318-72529596
Human	<i>Homo sapiens</i>	HLA-DMA	ENSEMBL:ENST00000374843.9
		HLA-DMB	ENSEMBL:ENST00000418107.3
		HLA-DOA	ENSEMBL:ENST00000229829.7
		HLA-DOB	ENSEMBL:ENST00000438763.7
		HLA-DPA1	ENSEMBL:ENST00000419277.5
		HLA-DPB1	ENSEMBL:ENST00000418931.7
		HLA-DQA1	ENSEMBL:ENST00000343139.11
		HLA-DQB1	ENSEMBL:ENST00000434651.6
		HLA-DRA	ENSEMBL:ENST00000395388.7
		HLA-DRB1	ENSEMBL:ENST00000360004.5
Pufferfish	<i>Takifugu rubripes</i>	LOC101070107	Genbank:NC_042292.1:19317179-19317460
		LOC101070334	Genbank:NC_042292.1:19563891-19564102,19564182-19564248
		LOC101077981	Genbank:NC_042292.1:19320297-19320508,19320588-19320654
		LOC115250655	Genbank:NC_042292.1:19560183-19560464
Salmon(Atlantic salmon)	<i>Salmo salar</i>	DEB	Genbank:NC_027301.1:25252968-25253246
		DDB (LOC106564356)	Genbank:NC_027311.1:9240124-9240402
		DDA (LOC106564360)	Genbank:NC_027311.1:9216766-9217044
		DAA (LOC106565699)	Genbank:NC_027311.1:61702892-61702614
		DBB (LOC106567570)	Genbank:NC_027312.1:60427248-60426979
		DBA (LOC106567571)	Genbank:NC_027312.1:60437979-60437707
		DCB1 (LOC106574261)	Genbank:NC_027301.1:5089419-5089141
		DCA (LOC106574265)	Genbank:NC_027301.1:5094162-5093884
		DEA (LOC106584517)	Genbank:NC_027301.1:25250980-25251261
		DCB2 (LOC106586334)	Genbank:NC_027301.1:40322575-40322853
		DAB (LOC106600246)	Genbank:NW_012562982.1:452-174

Shark (nurse shark)	<i>Ginglymostoma cirratum</i>	MHCIIA.1	Genbank:AAF66123.1
		MHCIIA.2	Genbank:AAA49310.1
		MHCIIIB.1	Genbank:AAF82682.1
		MHCIIIB.2	Genbank:AAF82681.1
Zebrafish	<i>Danio rerio</i>	mhc2b: D8.35B3	Genbank:NC_007119.7:36288993-36289271
		mhc2bl: D8.37B1	Genbank:NC_007119.7:36368933-36368655
		mhc2dab: D8.37B3	Genbank:NC_007119.7:36468164-36467886
		mhc2dbb: D18B	Genbank:NC_007129.7:29924258-29923980
		mhc2dcB: D8.45B2	Genbank:NC_007119.7:44362928-44362650
		LOC100332267: D8.45A1	Genbank:NC_007119.7:44368115-44368393
		si:busm1-160c18.6: D8.37A2	Genbank:NC_007119.7:36381550-36381269
		si:busm1-194e12.8	Genbank:NC_007119.7:36420175-36420456
		si:busm1-228j01.6: D8.45B1	Genbank:NC_007119.7:44376459-44376181
		si:busm1-266f07.2: D8.37A3	Genbank:NC_007119.7:36474494-36474213
		si:busm1-48c11.3: D8.35A2	Genbank:NC_007119.7:36284301-36284020
		si:ch73-211i2.3: D8.46A	Genbank:NC_007119.7:44479525-44479803
		si:ch73-158p21.3: D4B	Genbank:NC_007115.7:76366144-76365869
		si:dkey-33b17.1: D8.35A1	Genbank:NC_007119.7:36132535-36132254
		si:dkey-33b17.3: D8.35B2	Genbank:NC_007119.7:36145381-36145659
		si:zf0s-2070c2.3: D8.37B2	Genbank:NC_007119.7:36399715-36399437
		si:zf0s-367g9.1: D8.37A1	Genbank:NC_007119.7:36359814-36360095
		zgc:123107: D4A	Genbank:NC_007115.7:76379132-76378851
		zmp:0000000884: D8.45A2	Genbank:NC_007119.7:44358401-44358679

Supplementary Table 9. Immunoglobulin heavy chain (IgH) sequence accession identifiers.

Common name	Species	Gene	Identifier ²
IgH C1-C4			
Bowfin	<i>Amia calva</i>	IgH mu	scaf18: 10343672-10343987,10345829-10346149,10346443-10346787,10347164-10347555
		IgH tau	scaf18:9774041-9773729, 9773373- 9773074, 9771333-9771019, 9770672- 9770323
Duck	<i>Anas platyrhynchos</i>	IgH alpha	GenBank:AAA68606.1
		IgH mu	GenBank:AAA68605.1
		IgH epsilon	GenBank:CAA46322.1
Flounder (Japanese flounder)	<i>Paralichthys olivaceus</i>	IgH mu	GenBank:BAB60868.1
		IgH tau	GenBank:ANS12795.1
Frog	<i>Xenopus tropicalis</i>	IgH chi	GenBank:AAI57651.1
		IgH mu	GenBank:NP001107683.1
		IgH epsilon	ENSEMBL:GL173564.1:19562-19263 18927-18604 18198-17881 16505-16186
Gar (spotted gar)	<i>Lepisosteus oculatus</i>	IgH mu	ENSEMBL:LG5:573208-573507 576086-576406 576696-577010 577724-578118
		IgH tau	ENSEMBL:JH591552.1:13998-13705 13359-13042 11392-11096 10459-10080
Human	<i>Homo sapiens</i>	IgH epsilon	IMGT:J00222
		IgH mu	IMGT:X14940
Shark (horn shark)	<i>Heterodontus francisci</i>	IgH mu	GenBank:CAA30613.1
Skate (little skate)	<i>Leucoraja erinacea</i>	IgH mu	PIR:S12838
Trout (rainbow trout)	<i>Oncorhynchus mykiss</i>	IgH mu	GenBank:AAW66975.1
		IgH tau	GenBank:AAW66978.1
Zebrafish	<i>Danio rerio</i>	IgH mu	GenBank:AAK69167.1
		IgH zeta	GenBank:AAT67446.1
IgH C1			
Bowfin	<i>Amia calva</i>	IgH mu	scaf 18:10343672-10343986
		IgH tau	scaf 18:9774041-9773730
Coelacanth	<i>Latimeria chalumnae</i>	IgH omega	ENSEMBL:JH128711.1:133661-133359
Duck	<i>Anas platyrhynchos</i>	IgH alpha	GenBank:AAA68606.1
		IgH mu	GenBank:AAA68605.1
		IgH epsilon	GenBank:CAA46322.1
Gar (spotted gar)	<i>Lepisosteus oculatus</i>	IgH mu	ENSEMBL:LG5:573208-573507
		IgH tau	ENSEMBL:JH591552.1:13998-13705
Flounder (Japanese flounder)	<i>Paralichthys olivaceus</i>	IgH mu	GenBank:BAB60868.1
		IgH tau	GenBank:ANS12795.1
Frog	<i>Xenopus tropicalis</i>	IgH mu	GenBank:NP001107683.1
		IgH epsilon	ENSEMBL:GL173564.1:19562-19263
		IgH phi	ENSEMBL:GL173608.1:9935-10234
		IgH chi	GenBank:AAI57651.1
Human	<i>Homo sapiens</i>	IgH alpha	IMGT:J00220
		IgH delta	IMGT:K02875
		IgH epsilon	IMGT:J00222
		IgH gamma	IMGT:D78345
		IgH mu	IMGT:X14940
Lungfish (marbled lungfish)	<i>Protopterus aethiopicus</i>	IgH omega	GenBank:AAO52810.1
Shark (horn shark)	<i>Heterodontus francisci</i>	IgL kappa (type III)	GenBank:AAA59373.1
		IgL lambda (type II)	GenBank:L25559.1
		IgH mu	GenBank:CAA30613.1
		IgL sigma	GenBank:ABO64185.1
		IgL sigma-2 (type I)	GenBank:AAA62808.1
Shark (sandbar shark)	<i>Carcharhinus plumbeus</i>	IgH omega	GenBank:AAB03680.1
Skate (little skate)	<i>Leucoraja erinacea</i>	IgH mu	PIR:S12838
Trout (rainbow trout)	<i>Oncorhynchus mykiss</i>	IgH mu	GenBank:AAW66975.1
		IgH tau	GenBank:AAW66978.1
Zebrafish	<i>Danio rerio</i>	IgH mu	GenBank:AAK69167.1
		IgH zeta	GenBank:AAT67446.1
IgH carboxyl-terminal C			
Bowfin	<i>Amia calva</i>	IgH delta	scaf 18:10369108-10368818
		IgH mu	scaf 18:10347166-10347555
		IgH tau	scaf 18:9770670-9770347
Coelacanth	<i>Latimeria chalumnae</i>	IgH omega	ENSEMBL:JH128255.1:281219-280834
Duck	<i>Anas platyrhynchos</i>	IgH alpha	GenBank:AAA68606.1
		IgH mu	GenBank:AAA68605.1

² GenBank (<https://www.ncbi.nlm.nih.gov/genbank/>); IMGT (<http://www.imgt.org/>); ENSEMBL (www.ensembl.org)

		IgH epsilon	GenBank:CAA46322.1
Gar (spotted gar)	<i>Lepisosteus oculatus</i>	IgH delta	ENSEMBL:LG5:605554-605846
		IgH mu	ENSEMBL:LG5:577724-578118
		IgH tau	ENSEMBL:JH591552.1:10459-10113
Flounder (Japanese flounder)	<i>Paralichthys olivaceus</i>	IgH delta	GenBank:BAB41204.1
		IgH mu	GenBank:BAB60868.1
		IgH tau	GenBank:ANS12795.1
Frog	<i>Xenopus tropicalis</i>	IgH mu	GenBank:NP001107683.1
		IgH epsilon	ENSEMBL:GL173564.1:16505-16186
		IgH phi	ENSEMBL:GL173608.1:12618-12967
		IgH chi	GenBank:AAI57651.1
Human	<i>Homo sapiens</i>	IgH alpha	IMGT:J00220
		IgH delta	IMGT:K02879K02880
		IgH epsilon	IMGT:J00222
		IgH gamma	IMGT:D78345
		IgH mu	IMGT:X14940
Lungfish (marbled lungfish)	<i>Protopterus aethiopicus</i>	IgH omega	GenBank:AAO52811.1
Shark (horn shark)	<i>Heterodontus francisci</i>	IgL kappa (type III)	GenBank:AAA59373.1
		IgL lambda (type II)	GenBank:L25559.1
		IgH mu	GenBank:CAA30613.1
		IgL sigma	GenBank:ABO64185.1
		IgL sigma-2 (type I)	GenBank:AAA62808.1
Shark (sandbar shark)	<i>Carcharhinus plumbeus</i>	IgH omega	GenBank:AAB03680.1
Skate (little skate)	<i>Leucoraja erinacea</i>	IgH mu	PIR:S12838
Trout (rainbow trout)	<i>Oncorhynchus mykiss</i>	IgH delta	GenBank:AAY41237.1
		IgH mu	GenBank:AAW66975.1
		IgH tau	GenBank:AAW66978.1
Zebrafish	<i>Danio rerio</i>	IgH delta	ENSEMBL:3:33950443-33950156
		IgH mu	GenBank:AAK69167.1
		IgH zeta	GenBank:AAT67446.1

Supplementary Table 10. Immunoglobulin light chain (IgL) sequence accession identifiers

Common name	Species	Gene	Identifier ³
IgL V			
Bowfin	<i>Amia calva</i>	IgL kappa	scaf 11:7157819-7158124
		IgL lambda	scaf 15:25080932-25080621
		IgL sigma (V1)	scaf 22:14401162-14400854
		IgL sigma (V4)	scaf 22:16955388-16955074
		IgL sigma (V5)	scaf 22:16963635-16963330
		IgL sigma-2	scaf 18:10098702-10099013
Catfish (channel catfish)	<i>Ictalurus punctatus</i>	IgL F class	GenBank:AAA82596.1
		IgL kappa (G class)	GenBank:AAA16654.1
		IgL lambda-2	GenBank:ACG70845.1
		IgL sigma	GenBank:NP_001316183.1
Frog	<i>Xenopus laevis</i>	IgL kappa (rho)	GenBank:L15570.1
		IgL lambda	GenBank:AAL40100.1
		IgL sigma	GenBank:XP_018110417.1
Gar (spotted gar)	<i>Lepisosteus oculatus</i>	IgL kappa	ENSEMBL:LG28:4969665-4969970
		IgL lambda-2	ENSEMBL:LG1:57447469-57447179
		IgL sigma (3550327)	ENSEMBL:LG19:3550327-3550025
		IgL sigma (4946676)	ENSEMBL:LG19:4946676-4946364
		IgL sigma-2 (180477)	ENSEMBL:LG5:180477-180166
		IgL sigma-2 (775740)	ENSEMBL:LG5:775740-776051
Human	<i>Homo sapiens</i>	IgL kappa	IMGT:Z00023
		IgL lambda (V1-40)	IMGT:M94116
		IgL lambda (V3-1)	IMGT:X57826
		IgL lambda (V4-60)	IMGT:Z73667
		IgL lambda (V5-37)	IMGT:Z73672
		IgL lambda (V7-43)	IMGT:X14614
Shark (horn shark)	<i>Heterodontus francisci</i>	IgL sigma	GenBank:ABO64185.1
		IgL kappa (type III)	GenBank:AAA59373.1
		IgL lambda (type II)	GenBank:L25558.1
		IgL sigma-2 (type I)	GenBank:AAA62808.1
Sterlet	<i>Acipenser ruthenus</i>	IgL kappa	Genbank:CAB37327.1
		IgL lambda	Genbank:AWO67300.1
		IgL sigma	Genbank:XP_034767602
IgL C			
Bowfin	<i>Amia calva</i>	IgL kappa (C1)	scaf 11:7184183-7184494
		IgL kappa (C2)	scaf 11:7188073-7188390
		IgL lambda	scaf 15:25075915-25075580
		IgL lambda-2	scaf 1:30306306-30306635
		IgL sigma (C1)	scaf 22:14393774-14393454
		IgL sigma (C2)	scaf 22:14487709-14488032
		IgL sigma (C3)	scaf 22:16924185-16923871
		IgL sigma (C4)	scaf 22:16948603-16948271
		IgL sigma-2	scaf 18:10099642-10099968
Catfish (channel catfish)	<i>Ictalurus punctatus</i>	IgL F class	GenBank:AAA82596.1
		IgL kappa (G class)	GenBank:AAA16654.1
		IgL lambda-2	GenBank:ACG70845.1
		IgL sigma	GenBank:NP_001316183.1
Frog	<i>Xenopus laevis</i>	IgL kappa (rho)	GenBank:AAA49880.1
		IgL lambda	GenBank:AAL40100.1
		IgL sigma	GenBank:XP_018110417.1
Gar (spotted gar)	<i>Lepisosteus oculatus</i>	IgL kappa (121406)	ENSEMBL:JH591462:121406-121083
		IgL kappa (127048)	ENSEMBL:JH591462:127048-127359
		IgL lambda-2	ENSEMBL:LG1:57443371-57443036
		IgL sigma (3544755)	ENSEMBL:LG19:3544755-3544441
		IgL sigma (5035420)	ENSEMBL:LG19:5035420-5035740
		IgL sigma-2 (777221)	ENSEMBL:LG5:777221-777553
		IgL sigma-2 (184742)	ENSEMBL:LG5:184742-185074
Human	<i>Homo sapiens</i>	IgL kappa	IMGT:J00241
		IgL lambda (C1)	IMGT:J00252
		IgL lambda (C2)	IMGT:J00253
		IgL lambda (C3)	IMGT:J00254
		IgL lambda (C7)	IMGT:X51755
Shark (horn shark)	<i>Heterodontus francisci</i>	IgL kappa (type III)	GenBank:AAA59373.1
		IgL lambda (type II)	GenBank:L25559.1
		IgL sigma	GenBank:ABO64185.1
		IgL sigma-2 (type I)	GenBank:AAA62808.1
Sterlet	<i>Acipenser ruthenus</i>	IgL kappa	Genbank:AAD22489.1

³ GenBank (<https://www.ncbi.nlm.nih.gov/genbank/>); IMGT (<http://www.imgt.org/>); ENSEMBL (www.ensembl.org)

		IgL lambda	Genbank:AWO67300.1
		IgL sigma	Genbank:AWO67302.1

Supplementary Table 11. T cell receptor (TCR) sequence accession identifiers

Common name	Species	Gene	Identifier ⁴
Bowfin	<i>Amia calva</i>	TCR alpha	scaf 18:23840692-23840925, 23841148-23841198, 23841450-23841553
		TCR beta (C1)	scaf 21:242404-242730, 243063-243080, 244665-244771, 246073-246096
		TCR gamma (C2)	scaf 4:38838675-38838953, 38839343-38839432, 38840229-38840377
		TCR delta	scaf 18:23762505-23762762, 23763112-23763180, 23763646-23763752
Catfish (channel catfish)	<i>Ictalurus punctatus</i>	TCR alpha	GenBank:AER30066.1
		TCR beta 1	GenBank:AAL07366.1
		TCR beta 2	GenBank:AAL58477.1
		TCR gamma (C3)	GenBank:AER30039.1
		TCR delta	GenBank:AEL12161.1
Frog	<i>Xenopus laevis</i>	TCR alpha	GenBank:AAM21529.1
		TCR beta	GenBank:NP_001085312.1
		TCR gamma	GenBank:AAM21533.1
		TCR delta	GenBank:OCU01483.1
Human	<i>Homo sapiens</i>	TCR alpha	IMGT:X02883
		TCR beta (C1)	IMGT:M12887
		TCR beta (C2)	IMGT:M12888
		TCR gamma (C1)	IMGT:M14996M14997M14998
		TCR gamma (C2)	IMGT:M13231
		TCR delta	IMGT:M22148M22149M22150
Skate (clearnose skate)	<i>Raja eglanteria</i>	TCR alpha	GenBank:AAB51495.1
		TCR beta	GenBank:AAB51496.1
		TCR gamma	GenBank:AAB51498.1
		TCR delta	GenBank:AAB51497.1

⁴ GenBank (<https://www.ncbi.nlm.nih.gov/genbank/>); IMGT (<http://www.imgt.org/>)

Table S12. Bowfin Toll-like Receptor (TLRs).

Group	Gene	Genome Location ⁵	<i>Ab Initio</i> Annotation	PhyloFish ⁶	Genome Guided ⁷
TLR1	TLR1	11:24041582	-	-	-
	TLR2	12:32589744	AMCP00015993	AAC TLR2.1.2	GIOP01073763.1
	TLR18	18:19483028	AMCP00012484	AAC LOC100705953.1.1	-
	TLR25a	14:12990848	-	-	GIOP01078713.1
	TLR25b	14:21101612	AMCP00006815	-	-
TLR3	TLR3	12:25847054	AMCP00015860	-	-
TLR4	TLR4a	7:1132104	-	-	-
	TLR4b	7:1146287	-	-	-
TLR5	TLR5	1:40062824	-	AAC TLR5M.1.1	-
TLR7	TLR7	8:4108821	AMCP00014197	-	-
	TLR8	8:4113483	-	-	GIOP01039362.1
	TLR9a	2:52398711	AMCP00017268	-	GIOP01005964.1
	TLR9b	2:52760013	AMCP00017279	-	-
	TLR-HS	7:32746770	AMCP00020785	-	-
TLR11	TLR13	4:46843647	AMCP00019814	-	-
	TLR19	18:17679092	AMCP00012402	-	-
	TLR20a	14:7058327	-	-	-
	TLR20b	14:7065485	-	-	-
	TLR21a	13:26807425	-	-	-
	TLR21b	13:26813380	-	-	-

⁵ Scaffold:basepair

⁶ Pasquier J, Cabau C, Nguyen T, Jouanno E, Severac D, Braasch I, Journot L *et al.* 2016. Gene evolution and gene expression after whole genome duplication in fish: the PhyloFish database. *BMC Genomics*. 17:368.

⁷ GenBank Accession #s for RNAseq from immune tissues of a single bowfin (individual 0039). See Supplemental Text.