

Supplementary Table S1: Abbreviation of gene symbols used in synteny analysis

Sl	Gene symbol	Abbreviation
1	ADRA2DA	Alpha-2Da adrenergic receptor
2	CGNA	Cingulin A
3	CHRNA9	Neuronal acetylcholine receptor subunit alpha-9
4	CHRNB2	Neuronal acetylcholine receptor subunit beta-2
5	FLAD1	FAD synthase
6	FRMPD1	FERM and PDZ domain-containing protein 1
7	INTS10	Integrator complex subunit 10
8	KLB	Beta-klotho
9	LENEP	Lens epithelial cell protein LEP503
10	PBXIP1B	Pre-B-cell leukemia transcription factor-interacting protein 1
11	S100-A1	Protein S100-A1
12	S100-A11	Protein S100-A11
13	S100-A16	Protein S100-A16
14	S100t	Protein S100
15	SHC1	SHC-transforming protein 1
16	SHE	SH2 domain-containing adapter protein E
17	SLC25A51	Solute carrier family 25 member 51
18	TLR1	Toll-like receptor 1
19	TLR19	Toll-like receptor 19
20	TRIM 35-27	Tripartite motif-containing 35-27
21	UBE2K	Ubiquitin-conjugating enzyme E2 K

Supplementary Table S2. NCBI accession numbers of TLR amino acid sequences used for the construction of phylogenetic tree

Sl	NCBI accession number	Name
1	XP_005262719.1	TLR1 <i>Homo sapiens</i>
2	XP_006503914.1	TLR1 <i>Mus musculus</i>
3	TWW55543.1	TLR1 <i>Takifugu flavidus</i>
4	ACT68332.1	TLR1 <i>Ctenopharyngodon idella</i>
5	ACV92063.1	TLR1 <i>Oncorhynchus mykiss</i>
6	XP_010895755.1	TLR1 <i>Esox lucius</i>
7	XP_032384491.1	TLR1 <i>Etheostoma spectabile</i>
8	XP_028445178.1	TLR1 <i>Perca flavescens</i>
9	XP_026213132.1	TLR1 <i>Anabas testudineus</i>
10	XP_031175177.1	TLR1 <i>Sander lucioperca</i>
11	APM84340.1	TLR1 <i>Dicentrarchus labrax</i>
12	XP_028271716.1	TLR1 <i>Parambassis ranga</i>
13	XP_022607278.1	TLR1 <i>Seriola dumerili</i>
14	AYM26735.1	TLR1 <i>Trachinotus ovatus</i>
15	XP_026186162.1	TLR1 <i>Mastacembelus armatus</i>
16	XP_031600531.1	TLR1 <i>Oreochromis aureus</i>
17	AKJ66261.1	TLR1 <i>Miichthys miuiy</i>

18	XP_027865028.1	TLR1 <i>Xiphophorus couchianus</i>
19	XP_019221940.1	TLR1 <i>Oreochromis niloticus</i>
20	XP_030252175.1	TLR1 <i>Sparus aurata</i>
21	XP_011478513.1	TLR1 <i>Oryzias latipes</i>
22	XP_026772609.1	TLR1 <i>Pangasianodon hypophthalmus</i>
23	AEI59662.1	TLR1 <i>Ictalurus punctatus</i>
24	AAI63271.1	TLR1 <i>Danio rerio</i>
25	XP_029587338.1 (TLR6)	TLR1 <i>Salmo trutta</i>
26	AUF71965.1	TLR19 <i>Ctenopharyngodon idella</i>
27	AEI59675.1	TLR19 <i>Ictalurus punctatus</i>
28	CDH93609.2	TLR19 <i>Salmo salar</i>
29	BAU98390.1	TLR19 <i>Cyprinus carpio</i>
30	APT35508.1	TLR19 <i>Megalobrama amblycephala</i>
31	NP_001352353.1	TLR19 <i>Danio rerio</i>
32	XP_029602002.1 (TLR12)	TLR19 <i>Salmo trutta</i>
33	XP_021414698.1	TLR13 Chr13 <i>Oncorhynchus mykiss</i>
34	XP_014049954.1	TLR13 Chrssa03 <i>Salmo salar</i>
35	XP_018974763.1	TLR13 Chr32 <i>Cyprinus carpio</i>
36	XP_026073895.1	TLR13 <i>Carassius auratus</i>

37	XP_009303038.2	TLR13 <i>Danio rerio</i>
38	KAA0715757.1	TLR13 <i>Triplophysa tibetana</i>
39	XP_015464101.2	TLR13 Chr19 <i>Astyanax mexicanus</i>
40	XP_024261195.1	TLR13 <i>Oncorhynchus tshawytscha</i>
41	XP_029513396.1	TLR13 <i>Oncorhynchus nerka</i>
42	XP_026654751.1	TLR13 <i>Zonotrichia albicollis</i>
43	XP_030825523.1	TLR13 <i>Camarhynchus parvulus</i>
44	XP_029631730.1	TLR13 Chr1 <i>Salmo trutta</i>
45	XP_030237431.1	TLR13 <i>Gadus morhua</i>
46	XP_030630757.1	TLR13 Chr5 <i>Chanos chanos</i>
47	AUO16779.1	TLR13 <i>Epinephelus coioides</i>
48	XP_026203040.1	TLR13 <i>Anabas testudineus</i>
49	XP_023250866.1	TLR13 <i>Seriolalalandi dorsalis</i>
50	XP_018939858.1	TLR13 Chr7 <i>Cyprinus carpio</i>
51	RXN21033.1	TLR13 <i>Labeo rohita</i>
52	XP_026155776.1	TLR13 <i>Mastacembelus armatus</i>
53	XP_031652369.1	TLR13 <i>Oncorhynchus kisutch</i>
54	XP_021264186.1	TLR13 <i>Numida meleagris</i>
55	XP_029547005.1	TLR13 Chr2 <i>Salmo trutta</i>

56	XP_015463807.2	TLR13 Chr12 <i>Astyanax mexicanus</i>
57	XP_019897826.1	TLR13 <i>Esox lucius</i>
58	XP_014005963.1	TLR13 Chrssa16 <i>Salmo salar</i>
59	XP_029612585.1	TLR13 Chr6 <i>Salmo trutta</i>
60	XP_018534808.1	TLR13 <i>Lates calcarifer</i>
61	XP_017579129.1	TLR13 <i>Pygocentrus nattereri</i>
62	XP_030634775.1	TLR13 Chr7 <i>Chanos chanos</i>
63	XP_026794334.1	TLR13 <i>Pangasianodon hypophthalmus</i>
64	ROI81776.1	TLR13 <i>Anabarrilius grahami</i>
65	XP_029573484.1	TLR13 Chr27 <i>Salmo trutta</i>
66	XP_023844565.1	TLR13 <i>Salvelinus alpinus</i>
67	XP_021461145.1	TLR13 Chr6 <i>Oncorhynchus mykiss</i>
68	XP_031438389.1	TLR13 <i>Clupea harengus</i>
69	XP_007235237.2	TLR13 Chr8 <i>Astyanax mexicanus</i>