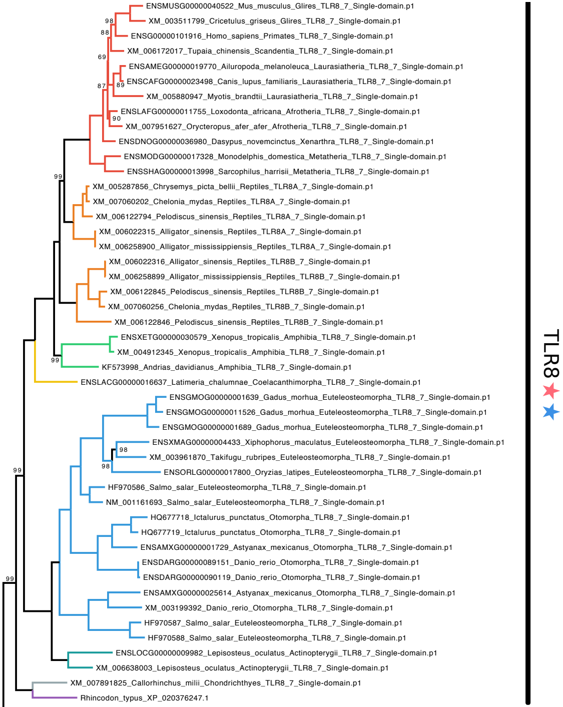
TLR Tree Legend

- 🟥 Mammals
- 🟧 Reptiles (including birds)
- 🟩 Amphibians
- 🟨 Coelacanth
- 🟦 Teleosts
- ■ Spotted gar
- ■ Lampreys
- ■ Elephant shark
- 🟪 Whale shark
- ★ Present in whale shark genome
- ★ Present in jawed vertebrate ancestor
- ★ Present in vertebrate ancestor
- ★ Newly identified TLR family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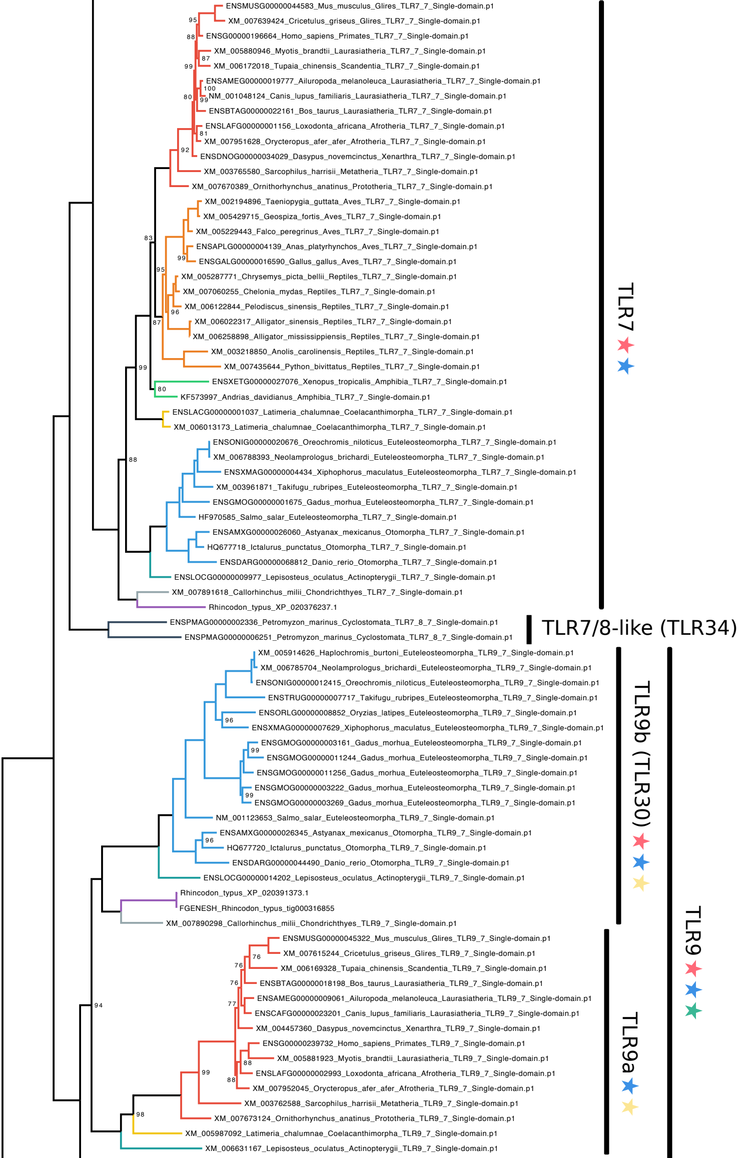
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TLR9
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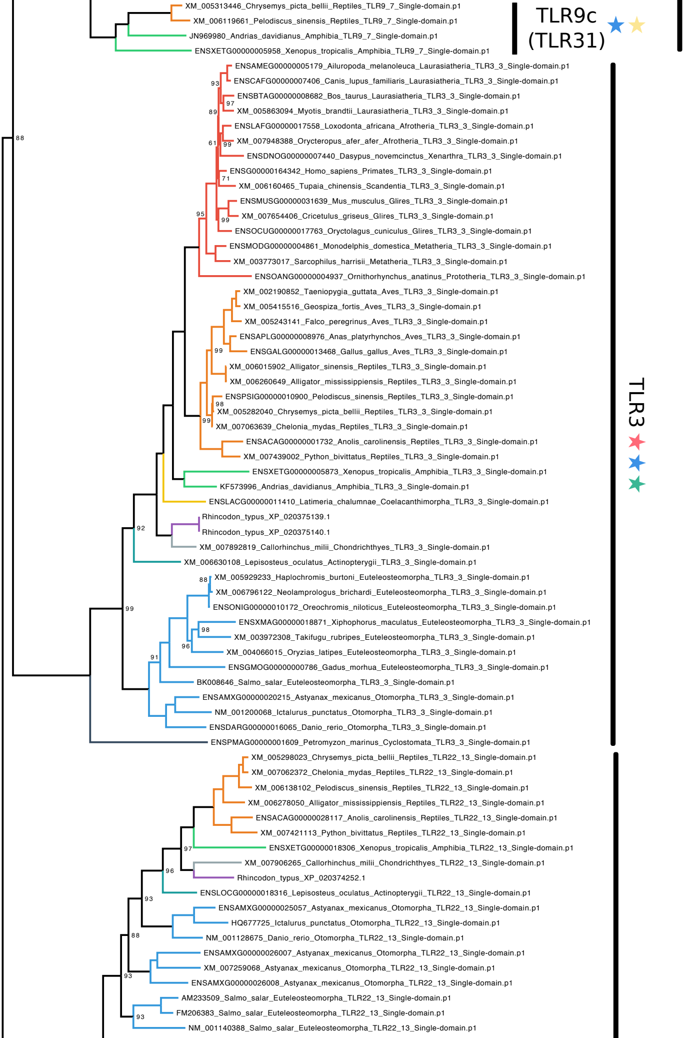
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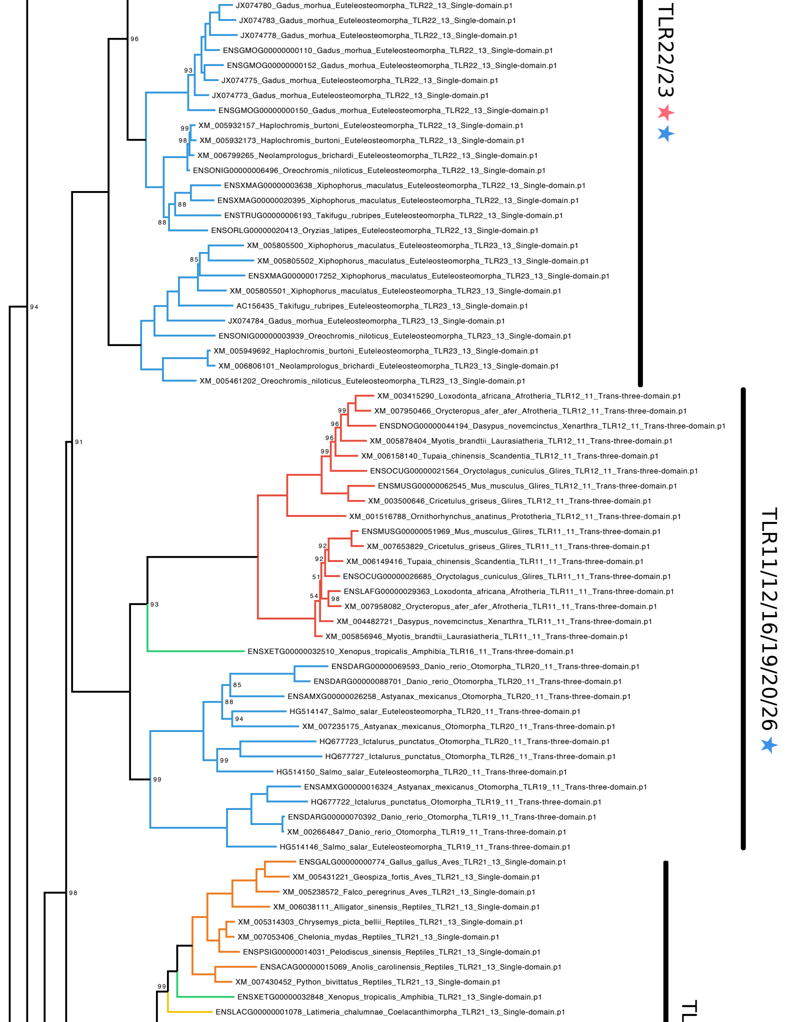
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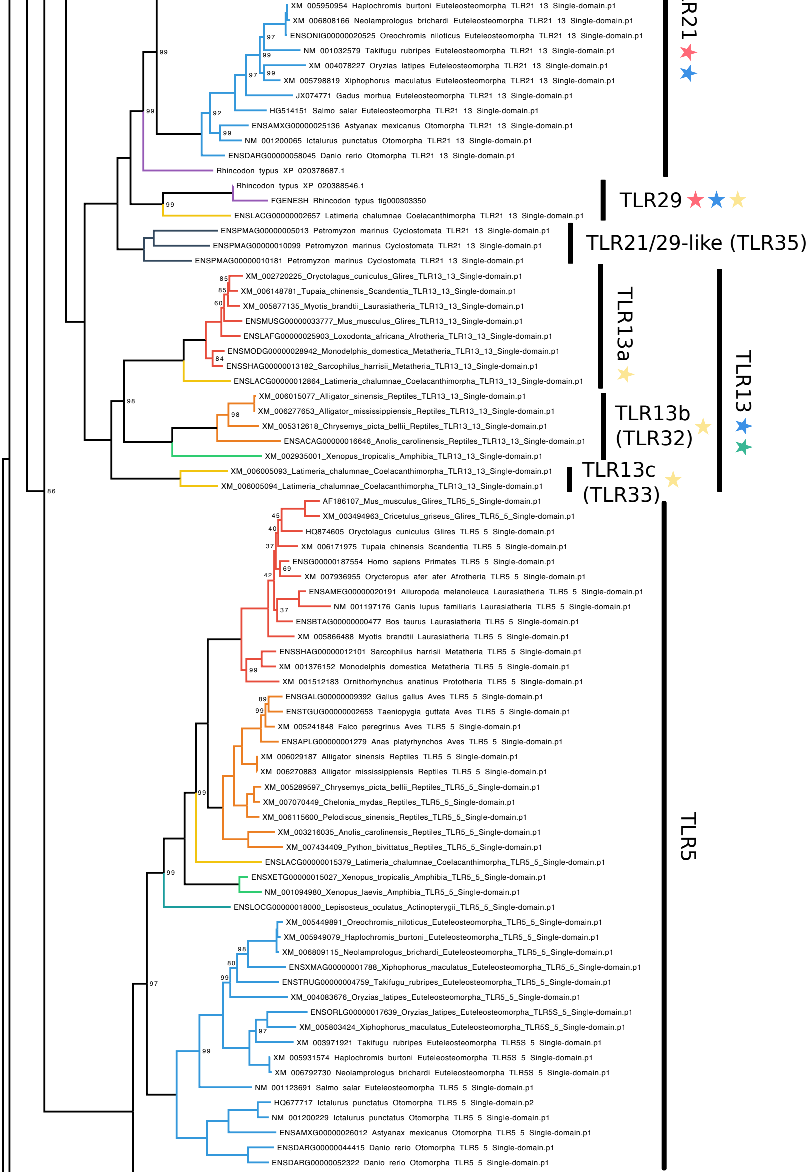
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86
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42
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TLR29 ★ ★ ★
TLR21/29-like (TLR35)
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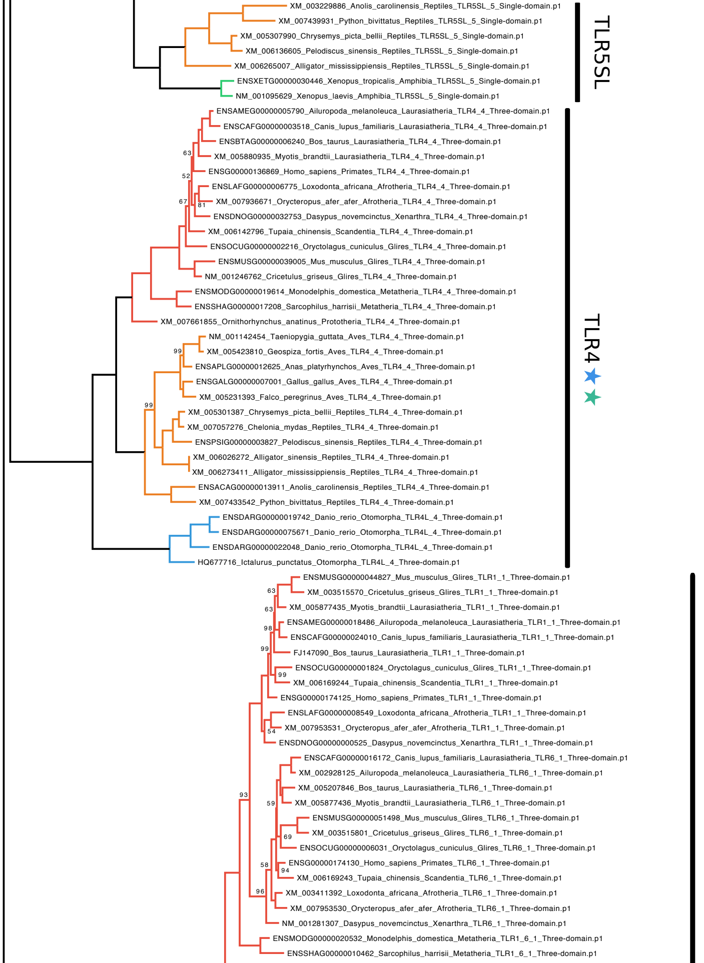
TLR5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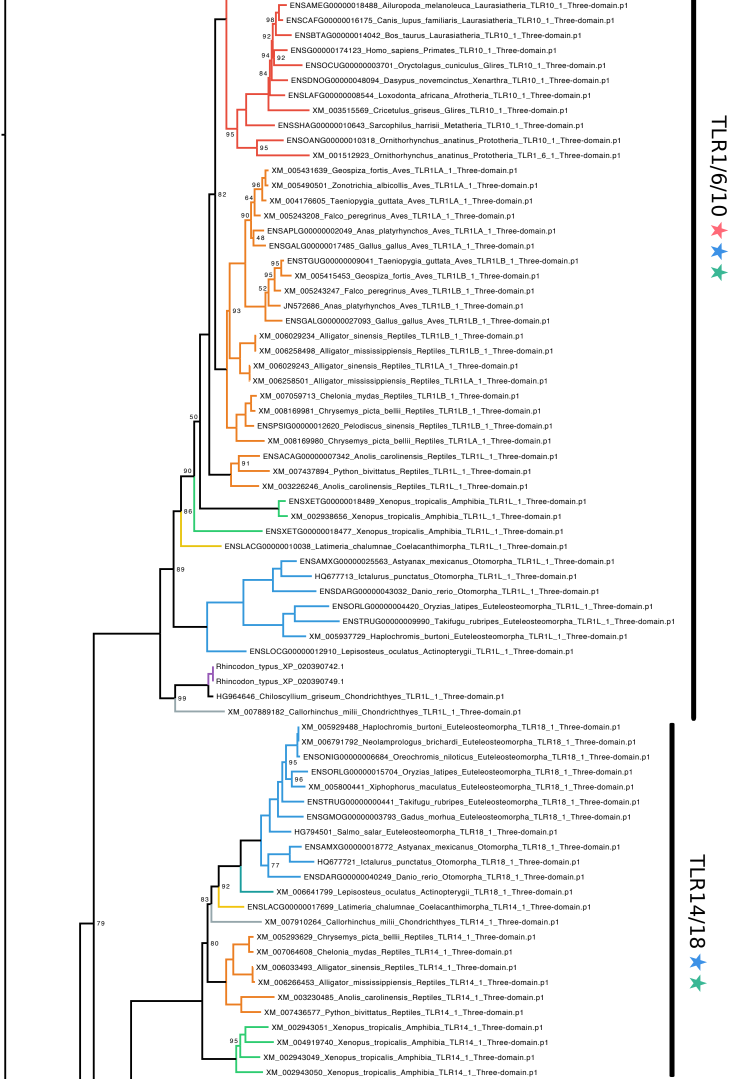

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92
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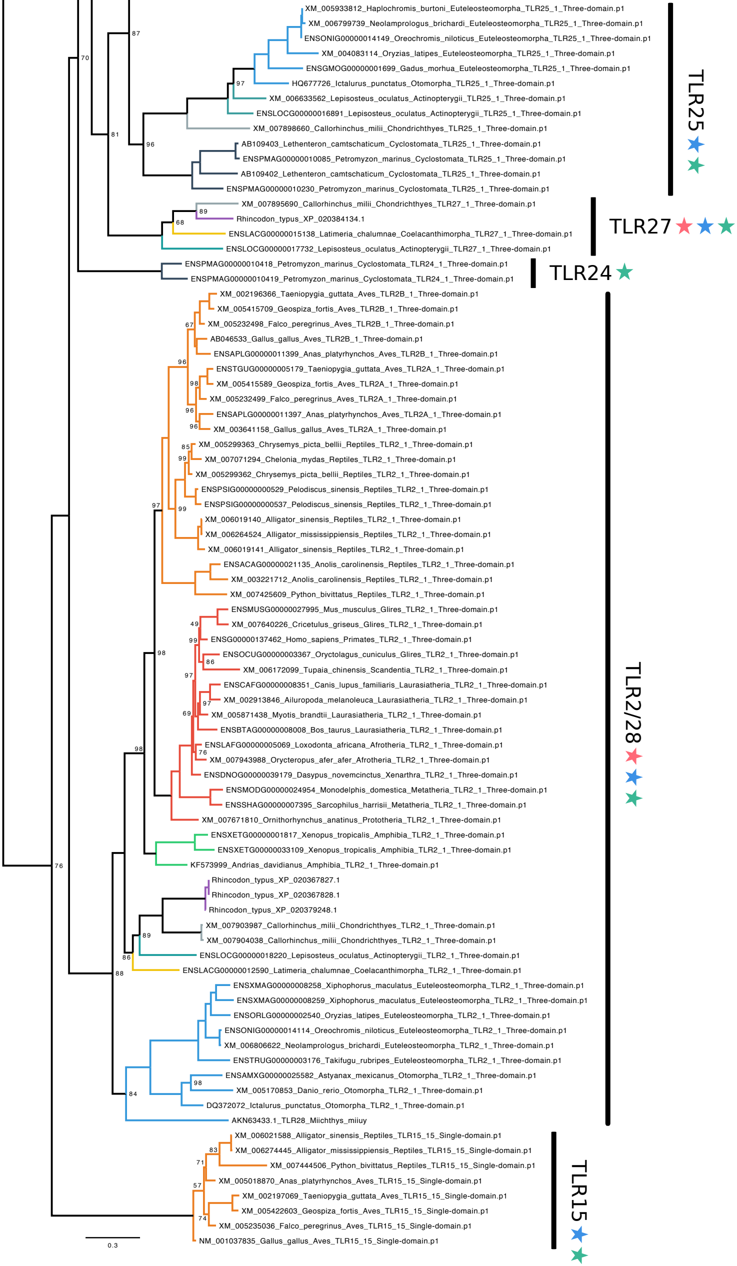
XM_006029243_Alligator_sinensis_Reptiles_TLR1LA_1_Three-domain.p1
XM_006258501_Alligator_mississippiensis_Reptiles_TLR1LA_1_Three-domain.p1
XM_007059713_Chelonia_mydas_Reptiles_TLR1LB_1_Three-domain.p1
XM_008169981_Chrysemys_picta_bellii_Reptiles_TLR1LB_1_Three-domain.p1
50
ENSPSIG00000012620_Pelodiscus_sinensis_Reptiles_TLR1LB_1_Three-domain.p1
XM_008169980_Chrysemys_picta_bellii_Reptiles_TLR1LA_1_Three-domain.p1
ENSACAG00000007342_Anolis_carolinensis_Reptiles_TLR1L_1_Three-domain.p1
91
90
XM_007437894_Python_bivittatus_Reptiles_TLR1L_1_Three-domain.p1
XM_003226246_Anolis_carolinensis_Reptiles_TLR1L_1_Three-domain.p1
ENSXETG00000018489_Xenopus_tropicalis_Amphibia_TLR1L_1_Three-domain.p1
86
XM_002938656_Xenopus_tropicalis_Amphibia_TLR1L_1_Three-domain.p1
ENSXETG00000018477_Xenopus_tropicalis_Amphibia_TLR1L_1_Three-domain.p1
ENSLACG00000010038_Latimeria_chalumnae_Coelacanthimorpha_TLR1L_1_Three-domain.p1
ENSAMXG00000025563_Astyanax_mexicanus_Otomorpha_TLR1L_1_Three-domain.p1
89
HQ677713_Ictalurus_punctatus_Otomorpha_TLR1L_1_Three-domain.p1
ENSDARG00000043032_Danio_rerio_Otomorpha_TLR1L_1_Three-domain.p1
ENSORLG00000004420_Oryzias_latipes_Euteleosteomorpha_TLR1L_1_Three-domain.p1
ENSTRUG00000009990_Takifugu_rubripes_Euteleosteomorpha_TLR1L_1_Three-domain.p1
XM_005937729_Haplochromis_burtoni_Euteleosteomorpha_TLR1L_1_Three-domain.p1
ENSLOCG00000012910_Lepisosteus_oculatus_Actinopterygii_TLR1L_1_Three-domain.p1
Rhincodon_typus_XP_020390742.1
Rhincodon_typus_XP_020390749.1
HG964646_Chiloscyllium_griseum_Chondrichthyes_TLR1L_1_Three-domain.p1
99
XM_007889182_Callorhinchus_milii_Chondrichthyes_TLR1L_1_Three-domain.p1
TLR1/6/10 ★ ★ ★
XM_005929488_Haplochromis_burtoni_Euteleosteomorpha_TLR18_1_Three-domain.p1
XM_006791792_Neolamprologus_brichardi_Euteleosteomorpha_TLR18_1_Three-domain.p1
ENSONIG00000006684_Oreochromis_niloticus_Euteleosteomorpha_TLR18_1_Three-domain.p1
95
ENSORLG00000015704_Oryzias_latipes_Euteleosteomorpha_TLR18_1_Three-domain.p1
96
XM_005800441_Xiphophorus_maculatus_Euteleosteomorpha_TLR18_1_Three-domain.p1
ENSTRUG00000000441_Takifugu_rubripes_Euteleosteomorpha_TLR18_1_Three-domain.p1
ENSGMOG00000003793_Gadus_morhua_Euteleosteomorpha_TLR18_1_Three-domain.p1
HG794501_Salmo_salar_Euteleosteomorpha_TLR18_1_Three-domain.p1
ENSAMXG00000018772_Astyanax_mexicanus_Otomorpha_TLR18_1_Three-domain.p1
77
HQ677721_Ictalurus_punctatus_Otomorpha_TLR18_1_Three-domain.p1
ENSDARG00000040249_Danio_rerio_Otomorpha_TLR18_1_Three-domain.p1
92
XM_006641799_Lepisosteus_oculatus_Actinopterygii_TLR18_1_Three-domain.p1
83
ENSLACG00000017699_Latimeria_chalumnae_Coelacanthimorpha_TLR14_1_Three-domain.p1
79
XM_007910264_Callorhinchus_milii_Chondrichthyes_TLR14_1_Three-domain.p1
XM_005293629_Chrysemys_picta_bellii_Reptiles_TLR14_1_Three-domain.p1
80
XM_007064608_Chelonia_mydas_Reptiles_TLR14_1_Three-domain.p1
XM_006033493_Alligator_sinensis_Reptiles_TLR14_1_Three-domain.p1
XM_006266453_Alligator_mississippiensis_Reptiles_TLR14_1_Three-domain.p1
XM_003230485_Anolis_carolinensis_Reptiles_TLR14_1_Three-domain.p1
XM_007436577_Python_bivittatus_Reptiles_TLR14_1_Three-domain.p1
XM_002943051_Xenopus_tropicalis_Amphibia_TLR14_1_Three-domain.p1
95
XM_004919740_Xenopus_tropicalis_Amphibia_TLR14_1_Three-domain.p1
XM_002943049_Xenopus_tropicalis_Amphibia_TLR14_1_Three-domain.p1
XM_002943050_Xenopus_tropicalis_Amphibia_TLR14_1_Three-domain.p1
TLR14/18 ★ ★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XM_006799739_Neolamprologus_brichardi_Euteleosteomorpha_TLR25_1_Three-domain.p1
87
ENSONIG00000014149_Oreochromis_niloticus_Euteleosteomorpha_TLR25_1_Three-domain.p1
XM_004083114_Oryzias_latipes_Euteleosteomorpha_TLR25_1_Three-domain.p1
70
ENSGMOG00000001699_Gadus_morhua_Euteleosteomorpha_TLR25_1_Three-domain.p1
97
HQ677726_Ictalurus_punctatus_Otomorpha_TLR25_1_Three-domain.p1
XM_006633562_Lepisosteus_oculatus_Actinopterygii_TLR25_1_Three-domain.p1
ENSLOCG00000016891_Lepisosteus_oculatus_Actinopterygii_TLR25_1_Three-domain.p1
XM_007898660_Callorhinchus_milii_Chondrichthyes_TLR25_1_Three-domain.p1
81
96
AB109403_Lethenteron_camtschaticum_Cyclostomata_TLR25_1_Three-domain.p1
ENSPMAG00000010085_Petromyzon_marinus_Cyclostomata_TLR25_1_Three-domain.p1
AB109402_Lethenteron_camtschaticum_Cyclostomata_TLR25_1_Three-domain.p1
ENSPMAG00000010230_Petromyzon_marinus_Cyclostomata_TLR25_1_Three-domain.p1
TLR25 ★ ★
XM_007895690_Callorhinchus_milii_Chondrichthyes_TLR27_1_Three-domain.p1
89
Rhincodon_typus_XP_020384134.1
68
ENSLACG00000015138_Latimeria_chalumnae_Coelacanthimorpha_TLR27_1_Three-domain.p1
ENSLOCG00000017732_Lepisosteus_oculatus_Actinopterygii_TLR27_1_Three-domain.p1
TLR27 ★ ★ ★
ENSPMAG00000010418_Petromyzon_marinus_Cyclostomata_TLR24_1_Three-domain.p1
ENSPMAG00000010419_Petromyzon_marinus_Cyclostomata_TLR24_1_Three-domain.p1
TLR24 ★
XM_002196366_Taeniopygia_guttata_Aves_TLR2B_1_Three-domain.p1
XM_005415709_Geospiza_fortis_Aves_TLR2B_1_Three-domain.p1
67
XM_005232498_Falco_peregrinus_Aves_TLR2B_1_Three-domain.p1
AB046533_Gallus_gallus_Aves_TLR2B_1_Three-domain.p1
ENSAPLG00000011399_Anas_platyrhynchos_Aves_TLR2B_1_Three-domain.p1
96
ENSTGUG00000005179_Taeniopygia_guttata_Aves_TLR2A_1_Three-domain.p1
98
XM_005415589_Geospiza_fortis_Aves_TLR2A_1_Three-domain.p1
XM_005232499_Falco_peregrinus_Aves_TLR2A_1_Three-domain.p1
96
ENSAPLG00000011397_Anas_platyrhynchos_Aves_TLR2A_1_Three-domain.p1
96
XM_003641158_Gallus_gallus_Aves_TLR2A_1_Three-domain.p1
85
XM_005299363_Chrysemys_picta_bellii_Reptiles_TLR2_1_Three-domain.p1
99
XM_007071294_Chelonia_mydas_Reptiles_TLR2_1_Three-domain.p1
XM_005299362_Chrysemys_picta_bellii_Reptiles_TLR2_1_Three-domain.p1
ENSPSIG00000000529_Pelodiscus_sinensis_Reptiles_TLR2_1_Three-domain.p1
97
ENSPSIG00000000537_Pelodiscus_sinensis_Reptiles_TLR2_1_Three-domain.p1
99
XM_006019140_Alligator_sinensis_Reptiles_TLR2_1_Three-domain.p1
XM_006264524_Alligator_mississippiensis_Reptiles_TLR2_1_Three-domain.p1
XM_006019141_Alligator_sinensis_Reptiles_TLR2_1_Three-domain.p1
ENSACAG00000021135_Anolis_carolinensis_Reptiles_TLR2_1_Three-domain.p1
XM_003221712_Anolis_carolinensis_Reptiles_TLR2_1_Three-domain.p1
XM_007425609_Python_bivittatus_Reptiles_TLR2_1_Three-domain.p1
ENSMUSG00000027995_Mus_musculus_Glires_TLR2_1_Three-domain.p1
49
XM_007640226_Cricetulus_griseus_Glires_TLR2_1_Three-domain.p1
99
ENSG00000137462_Homo_sapiens_Primates_TLR2_1_Three-domain.p1
98
ENSOCUG00000003367_Oryctolagus_cuniculus_Glires_TLR2_1_Three-domain.p1
86
XM_006172099_Tupaia_chinensis_Scandentia_TLR2_1_Three-domain.p1
97
ENSCAFG00000008351_Canis_lupus_familiaris_Laurasiatheria_TLR2_1_Three-domain.p1
XM_002913846_Ailuropoda_melanoleuca_Laurasiatheria_TLR2_1_Three-domain.p1
97
69
XM_005871438_Myotis_brandtii_Laurasiatheria_TLR2_1_Three-domain.p1
ENSBTAG00000008008_Bos_taurus_Laurasiatheria_TLR2_1_Three-domain.p1
ENSLAFG00000005069_Loxodonta_africana_Afrotheria_TLR2_1_Three-domain.p1
98
76
XM_007943988_Orycteropus_afer_afer_Afrotheria_TLR2_1_Three-domain.p1
ENSDNOG00000039179_Dasypus_novemcinctus_Xenarthra_TLR2_1_Three-domain.p1
ENSMODG00000024954_Monodelphis_domestica_Metatheria_TLR2_1_Three-domain.p1
ENSSHAG00000007395_Sarcophilus_harrisii_Metatheria_TLR2_1_Three-domain.p1
XM_007671810_Ornithorhynchus_anatinus_Prototheria_TLR2_1_Three-domain.p1
ENSXETG00000001817_Xenopus_tropicalis_Amphibia_TLR2_1_Three-domain.p1
ENSXETG00000033109_Xenopus_tropicalis_Amphibia_TLR2_1_Three-domain.p1
76
KF573999_Andrias_davidianus_Amphibia_TLR2_1_Three-domain.p1
Rhincodon_typus_XP_020367827.1
Rhincodon_typus_XP_020367828.1
Rhincodon_typus_XP_020379248.1
XM_007903987_Callorhinchus_milii_Chondrichthyes_TLR2_1_Three-domain.p1
89
XM_007904038_Callorhinchus_milii_Chondrichthyes_TLR2_1_Three-domain.p1
ENSLOCG00000018220_Lepisosteus_oculatus_Actinopterygii_TLR2_1_Three-domain.p1
86
ENSLACG00000012590_Latimeria_chalumnae_Coelacanthimorpha_TLR2_1_Three-domain.p1
88
ENSXMAG00000008258_Xiphophorus_maculatus_Euteleosteomorpha_TLR2_1_Three-domain.p1
ENSXMAG00000008259_Xiphophorus_maculatus_Euteleosteomorpha_TLR2_1_Three-domain.p1
ENSORLG00000002540_Oryzias_latipes_Euteleosteomorpha_TLR2_1_Three-domain.p1
ENSONIG00000014114_Oreochromis_niloticus_Euteleosteomorpha_TLR2_1_Three-domain.p1
XM_006806622_Neolamprologus_brichardi_Euteleosteomorpha_TLR2_1_Three-domain.p1
ENSTRUG00000003176_Takifugu_rubripes_Euteleosteomorpha_TLR2_1_Three-domain.p1
ENSAMXG00000025582_Astyanax_mexicanus_Otomorpha_TLR2_1_Three-domain.p1
98
XM_005170853_Danio_rerio_Otomorpha_TLR2_1_Three-domain.p1
84
DQ372072_Ictalurus_punctatus_Otomorpha_TLR2_1_Three-domain.p1
AKN63433.1_TLR28_Miichthys_miiuy
TLR2/28 ★ ★ ★
XM_006021588_Alligator_sinensis_Reptiles_TLR15_15_Single-domain.p1
83
XM_006274445_Alligator_mississippiensis_Reptiles_TLR15_15_Single-domain.p1
71
XM_007444506_Python_bivittatus_Reptiles_TLR15_15_Single-domain.p1
XM_005018870_Anas_platyrhynchos_Aves_TLR15_15_Single-domain.p1
57
XM_002197069_Taeniopygia_guttata_Aves_TLR15_15_Single-domain.p1
XM_005422603_Geospiza_fortis_Aves_TLR15_15_Single-domain.p1
74
XM_005235036_Falco_peregrinus_Aves_TLR15_15_Single-domain.p1
NM_001037835_Gallus_gallus_Aves_TLR15_15_Single-domain.p1
TLR15 ★ ★
0.3