Table S7: Summary of genome assembly of seven sequenced teleost species

Species	Total length of scaffolds	Total length of contigs	Percentage of	N50 of scaffolds	N50 of contigs	Number of	Number of
	(bp)	(bp)	gaps	(bp)	(bp)	scaffolds	contigs
Larimichthys crocea	678,964,076	661,327,267	2.60%	1,034,540	63,110	6,019	27,015
Gadus morhua	832,114,588	607,869,276	26.95%	136,353	2,310	398,859	555,245
Takifugu rubripes	393,312,790	351,017,437	10.75%	858,115	49,304	7,214	33,204
Oryzias latipes	869,000,216	700,384,697	19.40%	29,908,082	9,628	7,189	134,399
Tetraodon nigroviridis	358,618,246	302,293,082	15.71%	13,390,619	30,260	27	33,235
Gasterosteus aculeatus	461,533,321	446,627,734	3.23%	18,115,788	83,204	1,842	16,966
Danio rerio	1,412,464,843	1,409,741,015	0.19%	54,093,808	1,073,451	1,133	28,972

Assemblies of six other teleost species are downloaded from Ensemble74. Since *Oryzias latipes*, *Tetraodon nigroviridis*, *Gasterosteus aculeatus*, and *Danio rerio* were anchored to chromosomes (Shadowed background), their scaffold N50 is larger than 10 Mb.