

Supplementary Table 2

**Identification of Two Subgroups of Type I IFNs in Perciforme Fish
Large Yellow Croaker *Larimichthys crocea* Provides Novel Insights into
Function and Regulation of Fish Type I IFNs**

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Supplementary Table 2 | Comparison of identities (top right) and similarities (bottom left) of large yellow croaker IFNd and IFNh with other teleost type I IFNs.

	IFNd														IFNh					IFNa										IFNe							IFNb							IFNc							IFNf					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
1.LclIFNd		85.8	82.3	73	86.3	86.1	86	58.6	55.7	54.5	54.1	45.7	45.2	34	27.7	26.3	25.8	25	23.1	31.1	31.1	26.7	31.7	29.2	23.9	27.9	30.6	31.2	31.7	23.7	23.2	22.7	24.6	25.1	25.1	25.1	28.6	28.6	28.6	28.6	28.6	27.2	27.2	27.2	24	25.4	25.3	23.8	24	23.5	24	23.1	21.9	20.6	17.7	17.3
2.DlIFN1	81.3		86.8	75.8	73	87.3	85.8	58.8	58.4	58.1	56.2	41.7	40.6	33	29.1	24.9	25.3	22.4	21.9	31.4	31.4	28.9	31.2	29	26.3	28.2	31.6	35.5	37.1	24.7	24.1	24.6	26.1	23.9	23.9	25.5	29	28.5	29	29	29	29	29	29	24.6	24.6	24.6	23.9	24.1	25	24.6	23.9	22.7	18.5	21.2	22.7
3.SaIFN1	86.8	85.2		71.5	88.3	86.1	87.2	57.2	55.4	57.1	55.4	41.5	40.4	33.3	30.9	25.7	26.1	23.3	22.6	31.4	31.4	28.6	31.2	30.2	25.3	28.2	31.8	31.6	33.2	26.3	25.6	26.1	28.1	25.4	25.4	27	26.8	26.3	26.8	26.8	26.8	25.9	25.9	25.9	24	24	23.5	23.3	23.5	24.4	24	22.7	20.9	19.4	21.1	21.8
4.EclIFN1	83.9	85.8	84.9		89.3	85.8	87.1	54.3	50.8	48.9	50	39.9	41	28.4	27.5	24.9	25.4	23.1	22.5	33.3	33.3	27.6	32.1	28.8	24.4	29.4	31.4	34.4	35	24.2	23.6	24.1	24.6	21.9	21.9	21.9	24.9	24.3	24.9	24.7	24.7	24.9	24.9	24.9	22.6	22.6	22.6	23.4	22.1	22.1	22.1	21.2	21.1	22.6	19.8	20.2
5.PolIFN1	83.3	83.3	81.7	82.8		81.8	87.2	52.7	51.6	48.7	51.1	39.9	39.4	35.5	27.9	27	27.9	24.4	22.3	28.4	28.4	26.2	28.4	25.5	23.9	29.4	29.2	33	35.1	27.8	27.1	26.1	26.1	25.9	25.9	24.9	27.6	27.6	27.6	27.6	27.6	27.1	27.1	27.1	26	26	27	27	25.6	25.5	26.5	23.5	20.8	21	23	21.2
6.GalIFN1	82.7	81.6	81.2	82	78.3		83.9	53.4	48.6	46.8	46.2	39	39	32.2	30.8	26.1	26.2	25	22.4	28.9	28.9	27.9	29.6	25.3	26.4	26.9	28	30.4	32.4	23.3	21.3	21.3	23.3	23.3	23.3	23.3	24.9	24.9	24.9	24.3	24.3	23.8	24.3	24.3	21.7	23.1	21.2	23.6	22.7	22.2	22.2	19.7	21.1	19.5	21.9	22
7.OnlIFN3	86.8	78.7	82.8	75.4	73.9	74.8		56.5	45.2	59.4	44.7	41.1	42.1	28	28.9	27	27.4	25.1	25.1	31.1	31.1	27.4	31.8	28.9	23.2	29.8	28.9	33.5	32.4	26	26	25	25.5	25.6	25.6	26.2	28.2	27.7	28.7	27.8	27.8	27.5	27.5	27.5	28.6	28.1	28.4	26.7	28.6	27.6	27.6	24	23.4	19.2	20.2	21.9
8.OlIFN	73.1	74.7	72.6	71.5	71	75.8	74.9		44.6	49.5	42.5	38.7	39.8	30.7	31.9	28.3	29.2	26.8	24.3	32.5	32.5	32.1	31.1	32.1	23.2	27.2	32.5	31.9	33	30.5	30.4	29.9	30.9	23.2	23.2	23.2	26.2	25.1	26.2	26.2	26.2	26.2	25.1	25.1	23.1	23.1	22.6	23	23.2	23.7	23.7	23.9	23	17.6	20.7	20.6
9.TrIFN1	72.4	76.8	73.7	70	75	72.8	67.4	65.6		43.5	66.7	40.1	38.9	26.2	25.5	26	25.9	25.1	23.1	29.1	29.1	29.5	28.6	30.9	22.6	25.1	28	31.7	31	25.1	24.3	24.3	24.3	25.1	25.1	24.1	28.6	28	28.6	28.6	28.6	29.1	28	28	25.9	23.8	25.9	23.8	25.4	25.9	25.9	21.2	19.6	22.7	19.3	20.4
10.OnlIFN1	70.5	72.1	72.6	69.5	65.8	66.8	75.3	67.9	60		41.4	31.6	31.6	28.1	30.1	23.6	24.1	22.9	21.4	28.6	28.6	30.9	28.8	28.6	24.5	28.1	32.3	32.5	33	25.8	24.3	23.3	24.8	25.9	25.8	24.7	24.5	24	24.5	24.5	24.5	25.5	24.5	24.5	24	22	22.9	24.4	24.3	23.2	23.8	24.1	21.8	19.5	16.7	17.8
11.TnlIFN	70.8	75.1	74.2	68.5	70.7	71.3	67.4	64	83.3	59.5		36.8	36.2	32.6	26.5	23.6	24.1	22.6	20.1	28.2	28.2	31.3	28.2	27.6	22.1	25.6	28.7	31.7	34.3	25.1	24.2	23.7	23.7	24.2	23.4	23.7	28.6	28.6	28.6	28.6	28.6	28.6	28.6	26.2	26.2	26.6	25.9	25.6	25.1	25.1	24.2	22.6	22.5	20.8	20.9	
12.OmlIFNd1	64.9	62.2	61.3	65.7	64.1	63.5	62.6	59.7	61.7	51.6	61.2		91.6	30.2	27.4	27.3	26.3	23.8	23.1	33.7	33.7	33	34	31.9	22.3	26.8	33.9	36.5	38.7	32.5	30.7	31.2	31.7	32.6	33.2	32.6	32.1	31.6	32.6	32.6	32.6	32.6	32.1	31.6	27.6	27.4	27.4	27.3	26.4	27.9	27.4	21.2	26.5	20.6	22.8	21.9
13.SslIFN4	65.9	61.6	61.3	63.5	63	61.8	63.1	61.8	61.7	52.1	59.6	97.8		30.9	27.3	25.8	27.4	23.3	22.7	34.4	34.4	31.9	34	32.3	22.3	25.8	31.2	34.8	36.3	31.4	29.8	30.2	30.7	32.1	31.6	31.6	33	32.8	33.5	32.5	32.5	32.5	33	32.5	27	26.9	28.1	25.9	25.9	27.4	26.9	21.6	24.9	22.1	23.2	20.9
14.DrlIFN4	55.1	50.8	50.5	49.4	54.3	52.8	50.8	47.8	53.3	44.7	52.8	52.8	56.2		27.3	23.3	24.3	20.4	19.9	22.7	22.7	23.5	22.6	22.3	23.2	23.2	24.5	28.2	30	22.9	22.1	22.1	21.4	22.9	24.7	23.4	25.3	25.3	25.8	25.3	25.3	24.2	24.7	24.2	22.3	20.8	21.9	22.3	20.8	21.9	21.4	20.1	22.6	19.9	19.3	19.5
15.LclIFNh	48.4	49.5	51.1	46.3	50.5	50.5	52.1	52.6	45.3	52.1	43.2	47.4	47.4	43.7		55.2	53.1	52.2	48.4	30.5	30.5	30	28.7	29.4	21.2	29	28.4	33	35.1	25.1	24.8	24.8	24.3	25	25.5	25.1	23.4	22.9	23.9	23.4	23.4	23.9	23.8	23.3	25.2	25.2	24.8	24.5	23.3	22.8	23.3	21.4	23.1	17.2	20.7	22.8
16.HblIFNa3	46.5	45	45	44.6	48.5	44.6	48	47.5	43.1	45	39.6	43.1	44.6	42.1	67.3		92.2	90.6	80.9	26.9	26.9	23.1	26.3	23.1	17.1	19.8	23	27.7	28.6	22.4	22.6	22.6	20.5	21.4	21.4	22.2	23.3	23.7	23.7	23.3	23.3	24.2	23.7	23.3	21.3	20.8	21.8	22	19	19.9	19.4	23.4	20.5	18.3	20.2	19.7
17.OnlIFNa3	46.6	44.7	45.1	43.2	48.5	42.7	48.1	45.6	42.2	44.2	38.8	41.7	44.2	40.8	66																																									

Supplementary Table 2 | Comparison of identities (top right) and similarities (bottom left) of large yellow croaker IFNd and IFNh with other teleost type I IFNs. The sequence identities/similarities of IFNs between Perciforme species are highlighted in yellow and bold. *Lc*, *Larimichthys crocea*; *Dl*, *Dicentrarchus labrax*; *Sa*, *Sparus aurata*; *Ec*, *Epinephelus coioides*; *Po*, *Paralichthys olivaceus*; *Ga*, *Gasterosteus aculeatus*; *On*, *Oreochromis niloticus*; *Ol*, *Oryzias latipes*; *Tr*, *Takifugu rubripes*; *Tn*, *Tetraodon nigroviridis*; *Om*, *Oncorhynchus mykiss*; *Ss*, *Salmo salar*; *Hb*, *Haplochromis burtoni*; *Mz*, *Maylandia zebra*; *Pn*, *Pundamilia nyererei*; *Ca*, *Carassius auratus*; *Ci*, *Ctenopharyngodon idella*; *Cc*, *Cyprinus carpio*; *Mp*, *Mylopharyngodon piceus*; *Cm*, *Cirrhinus molitorella*; *Ip*, *Ictalurus punctatus*; *Dr*, *Danio rerio*.