Pakistan J. Zool., vol. 54(2), pp 835-843, 2022 **DOI**: https://dx.doi.org/10.17582/journal.pjz/20200828090859

Supplementary Material

Characterization of *CLCN5* and Expression Profile under Low-Salinity Stress in *Takifugu rubripes*

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Supplementary Table I. The genetic distance and genetic similarity of the CLCN5 from *Takifugu rubripes* and other species.

Percent Identity

	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	
1		88.9	77.2	78.9	78.6	78.9	79.1	77.7	78.2	78.3	78.3	77.2	78.6	79.1	78.7	75.9	78.9	78.0	78.4	77.1	74.5	77.2	77.8	79.1	78.3	76.0	75.4	74.9	76.6	73.9	74.4	78.2	75.0	1	*Cyprinus carpio*
2	11.6		77.2	77.7	79.9	79.2	79.4	77.9	77.2	77.4	77.9	75.8	77.9	79.8	78.2	75.4	78.2	77.3	77.8	76.7	75.3	77.4	77.3	78.3	77.3	75.3	74.5	74.7	76.1	74.9	75.6	77.1	76.4	2	*Danio rerio*
3	25.3	25.9		91.3	80.2	92.6	80.7	93.3	95.2	94.4	90.8	90.2	94.9	80.8	92.2	76.9	91.9	90.4	91.0	89.2	76.2	94.3	92.2	95.4	93.6	88.2	87.5	86.1	77.8	75.5	75.7	91.9	77.9	3	*Epinephelus lanceolatus*
4	24.2	25.4	9.0		81.0	91.8	82.2	91.8	93.0	92.1	91.2	89.2	92.7	82.3	89.9	77.2	93.0	90.6	91.1	89.2	77.9	90.8	90.6	94.0	90.6	86.7	86.3	85.0	78.6	76.2	77.0	91.1	77.9	4	*Fundulus heteroclitus*
5	25.3	23.3	22.9	22.0		80.5	89.4	79.8	80.1	79.9	80.5	78.2	80.2	89.0	80.3	88.7	81.2	79.8	80.3	80.1	88.7	79.9	80.2	80.3	79.4	78.6	75.5	77.8	89.2	87.9	88.2	79.7	100.0	5	*Gallus gallus*
6	23.8	23.4	7.5	8.6	22.4		80.8	92.1	93.6	93.5	89.9	90.7	93.0	81.0	91.5	76.5	92.1	89.4	89.9	89.7	76.8	92.6	92.9	94.1	93.0	86.1	85.7	86.5	78.1	76.4	76.4	93.1	78.1	6	*Hippoglossus hippoglossus*
7	24.6	23.5	22.4	20.4	11.1	22.0		80.6	80.6	80.8	81.2	79.4	80.8	98.0	80.6	84.7	82.0	80.8	81.4	80.7	100.0	81.1	81.2	81.2	80.4	79.0	75.9	78.0	85.9	84.7	85.1	81.0	89.5	7	*Homo sapiens*
8	25.4	25.0	6.9	8.6	23.2	7.6	22.6		95.2	93.7	90.4	90.0	96.1	80.4	92.5	77.0	90.8	89.9	90.4	89.0	76.3	91.7	91.3	95.7	94.2	88.7	88.0	86.7	78.0	75.1	76.2	91.9	77.8	8	*Larimichthys crocea*
9	25.0	26.1	4.9	7.2	23.1	6.7	22.6	4.9		96.6	93.5	93.0	96.1	80.7	94.0	77.4	93.7	92.9	93.4	91.1	76.1	94.4	94.1	98.2	95.8	88.3	87.8	87.9	78.2	75.2	75.7	95.4	77.9	9	*Lates calcarifer*
10	24.6	24.9	5.8	8.2	23.1	6.8	22.2	6.5	3.3		92.3	91.5	95.4	80.7	93.3	77.1	92.2	91.4	92.0	89.7	76.2	93.8	92.2	96.8	93.7	87.0	86.3	85.6	78.2	75.4	75.7	93.1	78.0	10	*Mastacembelus armatus*
11	24.7	25.0	9.7	9.4	22.5	10.3	21.7	9.5	6.5	8.3		88.9	92.4	81.1	90.4	77.2	90.1	98.3	98.9	89.8	77.1	91.1	90.1	93.8	91.2	86.7	86.1	85.4	78.0	75.2	75.9	91.0	78.3	11	*Maylandia zebra*
12	25.8	27.1	10.4	11.3	25.5	9.9	24.2	10.4	7.1	9.0	12.0		91.3	79.2	89.0	76.0	88.5	88.2	88.8	87.3	75.5	90.8	89.7	93.2	90.2	86.4	85.8	84.5	76.6	74.8	75.2	89.9	76.3	12	*Monopterus albus*
13	24.7	25.4	5.3	7.4	22.9	7.4	22.2	3.9	3.9	4.8	8.1	9.1		80.7	92.6	77.6	92.1	91.5	92.1	90.1	76.5	93.7	91.7	96.1	95.5	88.4	87.8	87.4	78.2	75.2	76.5	93.1	78.3	13	*Morone saxatilis*
14	24.6	23.0	22.2	20.2	11.6	21.9	2.0	22.7	22.4	22.2	21.8	24.6	22.4		80.6	84.9	82.0	80.7	81.2	80.4	98.0	81.0	81.4	81.2	80.3	79.5	76.4	78.6	85.9	84.6	84.9	81.0	89.1	14	*Mus musculus*
15	23.9	24.5	8.3	10.5	22.5	8.9	22.6	8.0	6.3	6.7	10.3	11.6	7.8	22.6		77.2	90.5	90.0	90.5	89.3	76.7	91.3	90.7	94.5	91.5	87.0	86.4	85.5	78.4	75.5	76.2	90.7	78.5	15	*Myripristis murdjan*
16	28.7	29.0	27.6	27.8	12.0	27.3	17.0	27.4	27.2	27.8	27.2	29.6	27.1	16.8	27.4		77.7	76.7	77.1	76.6	82.3	77.4	77.4	77.4	77.0	76.4	75.8	75.5	97.0	82.1	82.7	76.9	87.6	16	*Notechis scutatus*
17	24.1	24.9	8.2	6.9	21.5	8.2	20.6	8.8	6.5	7.8	10.0	11.0	7.4	20.6	10.0	27.1		89.4	89.9	89.1	77.7	91.2	91.0	93.8	90.8	87.5	87.0	85.9	78.6	76.5	77.1	92.8	78.9	17	*Nothobranchius furzier*
18	25.3	25.9	10.3	10.1	23.4	10.8	22.2	10.1	7.2	9.3	1.7	12.9	9.0	22.4	10.9	28.3	10.7		99.4	89.1	76.6	90.0	90.0	92.9	90.6	86.3	85.7	85.3	77.1	74.3	75.6	90.4	77.6	18	*Oreochromis mossambicus*
19	24.6	25.2	9.7	9.5	22.7	10.3	21.5	9.5	6.7	8.6	1.1	12.2	8.3	21.7	10.3	27.8	10.1	0.6		89.6	77.1	90.6	90.5	93.4	91.1	86.7	86.1	85.6	77.5	74.6	76.0	91.0	78.1	19	*Oreochromis niloticus*
20	26.4	25.9	11.4	11.4	22.9	10.9	22.4	11.0	8.6	10.8	10.4	13.7	10.6	22.8	10.7	27.7	10.8	11.2	10.7		76.1	88.4	88.2	92.0	89.8	86.0	85.4	84.1	77.5	74.6	75.2	89.5	77.9	20	*Oryzias melastigma*
21	29.0	27.7	28.3	26.6	12.1	27.2	0.0	28.5	27.9	28.7	27.3	30.3	28.1	2.0	28.6	19.7	26.4	28.0	27.3	28.8		76.7	77.0	76.7	76.1	75.1	74.7	73.5	83.2	82.2	82.8	77.0	87.0	21	*Pan troglodytes*
22	25.5	24.9	5.8	9.7	23.2	7.8	21.8	8.7	5.5	6.5	9.4	9.8	6.6	22.0	9.3	27.5	9.1	10.6	10.0	12.2	27.8		92.3	94.2	92.4	86.9	86.2	85.6	78.5	75.4	76.0	91.8	77.9	22	*Perca fluviatilis*
23	25.8	26.1	6.9	8.9	22.9	7.2	21.7	8.0	6.0	6.7	9.0	9.4	7.3	21.5	8.7	27.4	8.4	9.1	8.6	10.7	26.8	6.5		94.0	92.0	87.4	86.8	86.4	78.2	75.0	75.7	92.0	77.9	23	*Scophthalmus maximus*
24	24.1	25.0	4.5	6.0	22.7	6.2	21.7	4.3	1.9	2.7	6.0	6.7	3.6	21.7	5.7	27.2	6.0	6.9	6.4	7.5	27.0	5.5	6.1		95.9	88.8	88.2	87.8	78.6	75.7	76.2	95.5	78.3	24	*Seriola dumerili*
25	25.1	25.7	6.7	9.7	24.0	7.4	22.7	6.2	4.4	6.6	9.5	10.4	4.7	22.9	9.1	27.8	8.8	10.2	9.7	10.8	28.7	7.8	7.4	4.3		88.8	88.2	87.1	78.4	75.2	75.6	92.7	76.8	25	*Sparus aurata*
26	28.4	28.0	12.7	13.3	25.1	14.2	24.8	12.1	12.6	13.5	14.6	14.8	11.7	24.0	13.5	27.7	13.7	15.0	14.6	14.9	29.0	13.4	12.9	12.0	12.0		99.6	96.2	77.3	74.2	74.6	86.9	75.5	26	*Takifugu bimaculatus*
27	28.9	28.8	13.3	13.4	25.3	14.4	24.7	12.6	12.9	14.1	15.0	15.2	12.2	24.0	13.9	28.2	14.0	15.5	15.0	15.4	29.2	13.9	13.3	12.5	12.5	0.1		96.1	76.6	74.1	74.2	86.2	74.9	27	*Takifugu flavidus*
28	29.2	29.1	14.5	15.1	25.9	13.5	25.7	13.4	11.9	15.1	15.9	16.1	12.6	25.0	15.0	29.0	15.2	16.1	15.6	16.8	31.5	14.9	12.3	11.6	13.2	3.3	3.2		76.1	73.0	73.5	85.9	75.2	28	*Takifugu rubripes*
29	28.0	28.2	25.8	25.8	11.5	25.5	15.6	25.8	25.8	26.0	26.5	28.3	25.6	15.6	25.8	3.0	25.7	27.2	26.7	26.6	18.7	25.7	25.6	25.3	26.0	26.8	27.2	28.1		82.7	83.5	77.5	87.7	29	*Thamnophis elegans*
30	31.3	29.8	29.7	28.8	13.0	28.9	16.2	30.3	30.1	30.1	30.4	31.6	29.5	16.3	29.9	19.9	28.5	31.2	30.6	31.1	20.3	29.9	30.8	29.7	30.4	31.0	30.6	32.7	19.0		96.9	74.8	86.6	30	*Xenopus laevis*
31	30.0	28.6	29.2	28.1	12.6	28.5	15.7	29.3	29.5	29.3	29.3	30.4	29.0	16.0	29.3	19.1	27.4	29.7	29.2	30.0	19.6	28.8	29.9	29.2	29.9	30.4	30.4	31.9	17.9	3.2		75.2	87.0	31	*Xenopus tropicalis*
32	25.0	26.1	7.8	8.5	23.6	7.4	22.0	8.0	4.9	6.1	8.5	9.8	6.3	22.0	9.2	27.8	7.1	8.9	8.4	10.1	27.3	7.5	7.3	4.9	7.4	13.7	14.0	14.5	26.5	30.6	29.9		77.8	32	*Amphiprion ocellaris*
33	29.7	27.8	26.3	26.1	0.0	26.2	11.1	27.0	27.0	27.0	26.3	29.3	26.6	11.6	26.1	13.5	25.4	27.3	26.6	26.7	14.4	26.5	26.6	26.6	27.7	28.9	29.2	29.5	13.3	14.7	14.1	27.5		33	*Coturnix japonica*
	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	

Divergence

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0030-9923/2021/0001-0835 $ 9.00/0
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