

Gender-specific differences in gene expression profiles in gynogenetic Pengze crucian carp

Yao Zheng^{1,2}, Jiazhang Chen¹, Xuwen Bing¹, Yanping Yang^{1,2}, Hongwei Liang³ and Zaizhao Wang²

¹ Freshwater Fisheries Research Center, Key Open Laboratory of Ecological Environment and Resources of Inland Fisheries, Chinese Academy of Fishery Sciences; Key Laboratory of Genetic Breeding and Aquaculture Biology of Freshwater Fishes, Scientific Observing and Experimental Station of Fishery Resources and Environment in the Lower Reaches of the Changjiang River, Ministry of Agriculture; Wuxi Fisheries College, Nanjing Agricultural University, Wuxi 214081, China

² College of Animal Science and Technology, Northwest A&F University, Shaanxi Key Laboratory of Molecular Biology for Agriculture, Yangling, Shaanxi 712100 China

³ Yangtze River Fisheries Research Institute, Chinese Academy of Fishery Sciences, Wuhan, Hubei 430223 China

Supplementary Table S1. Quantitative real-time PCR primers.

Gene	Gene description	Primer	Sequence (5' to 3')
<i>Pcc-amh</i>	Anti-Müllerian hormone	<i>Pcc-amh</i> -QRT-F <i>Pcc-amh</i> -QRT-R	CTCGCAGAGTGGAGGTGACA AACAGCAAACCGGATCGGTA
<i>Pcc-cyp19a1a</i>	P450aromase A	<i>Pcc-cyp19a1a</i> -QRT-F <i>Pcc-cyp19a1a</i> -QRT-R	AGACTGGCCTGGTGGTTGC AGTGCTCAGCTCCCCGTG
<i>Pcc-nr0b1</i>	Dosage-sensitive sex reversal, adrenal hypoplasia congenital critical region on the X-chromosome, gene 1	<i>Pcc-nr0b1</i> -QRT-F <i>Pcc-nr0b1</i> -QRT-R	ACTTCGGAGACACAAGAAACCA TTCAGGTGTGACAGTGTACCAAGT
<i>Pcc-dmrt1a</i>	Double sex and mab-3 related transcription factor 1 a	<i>Pcc-dmrt1a</i> -QRT-F <i>Pcc-dmrt1a</i> -QRT-R	ACCTGCCCTGAACCCAAAG TCTCACACTCCAGCCTGTTCTC
<i>Pcc-foxl2</i>	Forkhead box L2	<i>Pcc-foxl2</i> -QRT-F <i>Pcc-foxl2</i> -QRT-R	TTTATTTTCAGTCAAAGTCTCGTC CAAAGCCATTGCGTCATC
<i>Pcc-nr5a1b</i>	Steroidogenic factor-1 homolog b	<i>Pcc-nr5a1b</i> -QRT-F <i>Pcc-nr5a1b</i> -QRT-R	GATAAAACCCAGAGGAAACGCT GCTGGAAGGATGCGAGGA
<i>Pcc-sox9a</i>	SRY-box containing gene 9a	<i>Pcc-sox9a</i> -QRT-F <i>Pcc-sox9a</i> -QRT-R	CTGAGGACGGCAGTGAGCA GCTCTTGCTCTCCAGGGCT
<i>Pcc-vtg b</i>	Vitellogenin B	<i>Pcc-vtg b</i> -QRT-F <i>Pcc-vtg b</i> -QRT-R	AGCGCACCCCTGAGAGCACTC AGCCGCCTTCAACATTTACGCT
<i>Pcc-zp2</i>	Zona pellucida protein 2	<i>Pcc-zp2</i> -QRT-F <i>Pcc-zp2</i> -QRT-R	TTCTCTGCACTTAACCTTAC CTGCTCACCATCACGCT
<i>Pcc-tuba1</i>	Tubulin α -1	<i>Pcc-tuba1</i> -QRT-F <i>Pcc-tuba1</i> -QRT-R	CCAGGGCTGTGTTTGTAGACC CAATAGTGTAGTGTCCACGGGC