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Growth arrest and DNA damage inducible 45-beta activates pro-inflammatory cytokines and phagocytosis in the grass carp (*Ctenopharyngodon idella*) after *Aeromonas hydrophila* infection

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## ACCEPTED MANUSCRIPT

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2 cytokines and phagocytosis in the grass carp (Ctenopharyngodon idella) after 3 Aeromonas hydrophila infection Yulin Bai<sup>a</sup>, Yubang Shen<sup>abcd</sup>, Xiao-yan Xu<sup>acd</sup>, Yuqi Bai<sup>a</sup>, Yuan Fang<sup>a</sup>, Meng Zhang<sup>a</sup>, 4 Yiheng Miao<sup>a</sup>, Xueshu Zhang<sup>a</sup>, Jia-le Li <sup>abc</sup>\* 5 <sup>a</sup> Key Laboratory of Freshwater Aquatic Genetic Resources, Ministry of Agriculture, 6 7 Shanghai Ocean University, Shanghai, China <sup>b</sup> Key Laboratory of Freshwater Fisheries and Germplasm Resources Utilization, 8 Chinese Academy of Fishery Sciences, Wuxi, China 9 10 <sup>c</sup> Shanghai Engineering Research Center of Aquaculture, Shanghai Ocean University, Shanghai, China 11 <sup>d</sup> National Demonstration Center for Experimental Fisheries Science Education, 12 13 Shanghai Ocean University, Shanghai, China 14 15 \*Corresponding author: Jia-le Li, Ph.D., 16 17 College of Fisheries and Life Science, Shanghai Ocean University, Shanghai 201306, China. 18 E-mail: jlli2009@126.com 19 20 Tel.: +86 021 61900566 FAX: +86 021 61900566 21 22

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