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Genome-wide identification, characterization and expression analyses of *TLRs* in Yesso scallop (*Patinopecten yessoensis*) provide insight into the disparity of responses to acidifying exposure in bivalves

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identification, Genome-wide characterization and expression 1 analyses of TLRs in Yesso scallop (Patinopecten yessoensis) provide 2 insight into the disparity of responses to acidifying exposure in 3 bivalves 4 5 Qiang Xing¹, Huan Liao¹, Xiaogang Xun¹, Jing Wang¹, Zhengrui Zhang¹, 6 Zujing Yang¹, Xiaoting Huang^{1*}, Zhenmin Bao^{1,2} 7 8 1 Ministry of Education Key Laboratory of Marine Genetics and Breeding, College of 9 Marine Life Sciences, Ocean University of China, 5 Yushan Road, Qingdao 266003, 10 China 11 2 Laboratory for Marine Fisheries Science and Food Production Processes, Qingdao 12 National Laboratory for Marine Science and Technology, Qingdao, China 13 14 15 16 17 *Corresponding author: 18 Xiaoting Huang 19 E-mail address: xthuang@ouc.edu.cn; 20 21 Tel.: +86-532-82031969; fax: +86-532-82031969.

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