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Molecular characterization and expression analysis of a novel *r-spondin* member (*rspo2l*) in Chinese tongue sole (*Cynoglossus semilaevis*)

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## ACCEPTED MANUSCRIPT

Molecular characterization and expression analysis of a novel 1 r-spondin member (rspo2l) in Chinese tongue sole (Cynoglossus 2 semilaevis) 3 Min Wei<sup>abc1</sup>, Wen-teng Xu<sup>bc1</sup>, Hai-long Li<sup>d</sup>, Lei Wang<sup>bc</sup>, Yun-ji Xiu<sup>bc</sup>, 4 Ying-ming Yangbc, Yang-zhen Libc, Fa-zhen Zhaoabc\*, Song-lin 5 Chen<sup>abc\*</sup> 6 <sup>a</sup>Wuxi Fisheries College, Nanjing Agricultural University, Wuxi 214081, China 7 <sup>b</sup>Yellow Sea Fisheries Research Institute, Chinese Academy of Fishery Sciences 8 (CAFS), Key Laboratory for Sustainable Development of Marine Fisheries, Ministry 9 of Agriculture, Qingdao 266071, China 10 <sup>c</sup>Laboratory for Marine Fisheries Science and Food Production Processes, Qingdao 11 National Laboratory for Marine Science and Technology, Qingdao 266237, China 12 <sup>d</sup>Research Institute of Metabolic Disease, Qingdao University, Qingdao, 266003, 13 China 14 15 16 17 18 19 Abbreviations: rspo2l, r-spondin2-like gene; rspo2, r-spondin2 gene.

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