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Jie Yin[1,2], Wenkai Ren[3,4], Xingguo Huang[5], Tiejun Li[1,*], Yulong Yin[1,*]

(1) Key Laboratory of Agro-ecological Processes in Subtropical Region, Institute of Subtropical Agriculture, Chinese Academy of Sciences; Scientific Observing and Experimental Station of Animal Nutrition and Feed Science in South-Central, Ministry of Agriculture; Hunan Provincial Engineering Research Center for Healthy Livestock and Poultry Production, Changsha, P.R. China
(2) University of Chinese Academy of Sciences, Beijing, P.R. China
(3) Guangdong Provincial Key Laboratory of Animal Nutrition Control, Institute of Subtropical Animal Nutrition and Feed, College of Animal Science, South China Agricultural University, Guangzhou, P.R. China
(4) Jiangsu Co-Innovation Center for Important Animal Infectious Diseases and Zoonoses, Joint International Research Laboratory of Agriculture and Agri-Product Safety of Ministry of Education of China, College of Veterinary Medicine, Yangzhou University, Yangzhou, P.R. China
(5) Department of Animal science, Hunan Agriculture University, Changsha, P.R. China

*Corresponding authors at: Institute of Subtropical Agriculture, Chinese Academy of Sciences, Changsha, 410125, *P.R. China*

E-mail addresses: yinjie2014@126.com (J. Yin), renwenkai19@126.com (W.K. Ren), 2510702848@qq.com (X.G. Huang), tjli@isa.ac.cn (T.J. Li), yinyulong@isa.ac.cn (Y.L. Yin)

Abbreviations: PI3K, phosphoinositide 3-kinase; MAPK, mitogen activated protein kinase; mTORC1, mTOR complex 1; GCN2, general control nonderepressible 2; ULK, UNC-5 like autophagy activating kinase; ATG, autophagy related gene; GPCR, G protein coupled receptor; UCPs, uncoupling proteins; FGF21, fibroblast growth factor 21; Akt, protein kinase B; IGF-1R, insulin-like growth factor 1 receptor; IGF-1, insulin-like growth factor 1; mTOR, mammalian target of rapamycin; ATF4, targeting the activating transcription factor 4.