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Bacterial communities related to 3-nitro-1-propionic acid degradation in the rumen of grazing ruminants in the Qinghai-Tibetan Plateau

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Bacterial communities related to 3-nitro-1-propionic acid degradation in the rumen of 1 grazing ruminants in the Qinghai-Tibetan Plateau 2 Wei Guo^a, Sisi Bi^b, Jingpeng Kang^a, Ying Zhang^{c,1}, Ruijun Long^{a,b}, Xiaodan Huang^{c,d}, 3 Shan M.N^b, Robin C. Anderson^e 4 ^aCollege of Pastoral Agriculture Science and Technology, State Key Laboratory of 5 Grassland Agro-ecosystems, Lanzhou University, Lanzhou City 730020, China 6 ^bSchool of Life Sciences, Lanzhou University, Lanzhou City 730020, China 7 ^cSchool of public health, Lanzhou University, Lanzhou City 730020, China 8 ^dKey Laboratory of Plateau Grazing Animal Nutrition and Feed Science of Qinghai 9 Province, Qinghai Plateau Yak Research Center, Xining City 810000, China 10 ^eUSDA/ARS, Southern Plains Agricultural Research Center, Food and Feed Safety 11 Research Unit, 2881 F&B Road, College Station, TX 77845, USA 12 13 The authors declare that the research was conducted in the absence of any commercial 14 or financial relationships that could be construed as a potential conflict of interest. 15 16 17 18 19

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