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Expression of Shiga toxin 2 (Stx2) in highly virulent Stx-producing *Escherichia coli* (STEC) carrying different anti-terminator (q) genes

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## ACCEPTED MANUSCRIPT

Expression of Shiga toxin 2 (Stx2) in highly virulent Stx-producing Escherichia coli

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2 (STEC) carrying different anti-terminator (q) genes Kristoffer K. Olavesen<sup>a</sup>, Bjørn-Arne Lindstedt<sup>b</sup>, Inger Løbersli<sup>a</sup>, Lin T. Brandal<sup>a\*</sup> 3 <sup>a</sup>Department of Foodborne Infections, Norwegian Institute of Public Health, Oslo, Norway. 4 <sup>b</sup>Department of Chemistry, Biotechnology and Food Science, Norwegian University of Life 5 6 Sciences, Aas, Norway. 7 \*Corresponding Author: Lin Thorstensen Brandal, Norwegian Institute of Public Health, 8 9 Infection Control and Environmental Health, Department of Foodborne Infections. P.O. Box 10 4404 Nydalen, N-0403 Oslo, Norway. Tel.: +47 21076652; Fax: +47 21076518, E-mail address: lin.thorstensen.brandal@fhi.no 11 12 Keywords: Shiga toxin 2; expression of stx2; q gene; anti-terminator Q; STEC; mitomycin C; 13 14 bacteriophage induction. 15 16 Running title: Stx2 expression in Shiga toxin-producing *E. coli* (STEC). 17 18 Abbreviations: HAS; HUS associated serotype, HUS; haemolytic uremic syndrome, LB; 19 Luria-Bertani broth, STEC; Shiga toxin-producing E. coli, Stx; Shiga toxin, q; anti-terminator 20 gene. 21 22

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