

Table S1. Primers, probes and gBlock used in TaqMan analysis of DNA extracts derived from manure, and bulk and rhizosphere soils.

Oligonucleotide/ Gblock *	Sequence 5' to 3'	Dye
<i>bla</i> CTX-M-55-Fw	GTACCGAGCCGACGTTAAA	-
<i>bla</i> CTX-M-55-Rv	TTTACCCAGCGTCAGATTCC	-
<i>bla</i> CTX-M-55-P	ATACCACTTCACCTCGGGCAATGG	FAM
<i>qnr</i> S1-Fw	TATCGAAGGCTGCCACTTTG	-
<i>qnr</i> S1-Rv	CACACGCACGGAACTCTATAC	-
<i>qnr</i> S1-P	TCCAACAATGCCAATTGCGATGG	FAM
<i>rec</i> A-Fw	GGATGTGGAAACCATCTCTACC	-
<i>rec</i> A-Rv	GTCCGTAGATTTTCGACGATACG	-
<i>rec</i> A-P	TCGCTTTCACTGGATATCGCGCTT	HEX
gBlock	CCATGGATGTGGAAACCATCTCTACCGGTTCGCTTTCACTGGATA TCGCGCTTGGGGCAGGTGGTCTGCCGATGGGC CGTATCGTCGAA ATCTACGGACCGGAGTGATATCGAAGGCTGCCACTTTGATGTGC CAGATCTTCGTGATGCAAGTTTCCAACAATGCCAATTGCGATG GCAAACCTTCAGTAATGCCAATTGCTACGGTATAGAGTTCCGTGC GTGTGATTTGACC GTACCGAGCCGACGTTAAA CACCGCCATTCC GGGCGATCCGCGTGATACCACTTCACCTCGGGCAATGGCGCAAA CTCTGC GGAATCTGACGCTGGGTAAA GCAT	

* Fw, forward primer; Rv, reverse primer; P, probe; FAM (5(6)-carboxyfluorescein), HEX (Hexachlorofluorescein), fluorescent dyes; DNA stretches in gBlock sequence marked in red are targeted by the *rec*A Taqman system, in blue by that of *qnr*S1 and in green by the one of *bla*CTX-M-55. Zen and Iowa Black (IDT, Coralville, Iowa) were used as double quenchers in TaqMan assays.

GBlock:

CCATGGATGTGGAAACCATCTCTACC GGTTCGCTTTCACTGGATATCGCGCTTGGGG
CAGGTGGTCTGCCGATGGGC CGTATCGTCGAAATCTACGGACCGGAGTGA TATCGAA
GGCTGCCACTTTG ATGTCGCAGATCTTCGTGATGCAAGTT TCCAACAATGCCAACTTG
CGATGGCAAACCTCAGTAATGCCAATTGCTACG GTATAGAGTTCCGTGCGTGTGATT
TGACC GTACCGAGCCGACGTAAA CACCGCCATTCCGGGCGATCCGCGTG ATACCAC
TTCACCTCGGGCAATGG CGCAAACCTCTGC GGAATCTGACGCTGGGTAAA GCAT

DNA stretches marked in red are targeted by the recA Taqman system, in blue by that of qnrS1 and in green by the one of blaCTX-M-55.