Table S1. Primers used in this study for detection of *gadA/B*, *bla*$_{CTX-M}$, *bla*$_{TEM}$, *bla*$_{SHV}$, *bla*$_{OXA-1}$, *ampC* and *mcr-1* to *-10* genes

Primer name	Sequence (5′-3′)	Target gene	Amplicon size (bp)	Reference
gadA/B_fw	ACCTGCGTTGCGTAAATA	*gadA* and *gadB*	670	[15]
gadA/B_rv	GGGCGGGAGAAGTTGATG			
CTX-M_fw	TTTGCGATGTGCAGTACCAGTAA	*bla*$_{CTX-M}$ genes	544	[20]
CTX-M_rv	CGATATCGTTGGTGGTGCCATA			
TEM_fw	TTCCTGTTTTTGCTCACCCA	*bla*$_{TEM}$	716	[21]
TEM_rv	TACGATACGGGAGGGCTTAC			
SHV_fw	TCAGCGAAAAACACCTTG	*bla*$_{SHV}$	471	
SHV_rv	TCCCGCAGATAAATCACCA			
OXA-1_fw	TATCTACAGCAGCGCCAGTG	*bla*$_{OXA-1}$	199	
OXA-1_rv	CGCATCAAATGCCATAAGTG			
ampC_fw	CCCCGCTTATAGAGCAACAA	*ampC*	634	
ampC_rv	TCAATGGTCGACTTCACACC			
mcr1_320bp_fw	AGTCCGTTTGTTCTTGTGGC	*mcr-1*	320	[22]
mcr1_320bp_rev	AGATCCTTGGTCTCGGCTTG			
mcr2_700bp_fw	CAAGTGTGTTGGTCGCAGTT	*mcr-2*	715	
mcr2_700bp_rev	TCTAGCCCGACAAGCATACC			
mcr3_900bp_fw	AAATAAAAATTGTTCCGCTTATG	*mcr-3*	929	
mcr3_900bp_rev	AATGGAGATCCCCGTTTTT			
mcr4_1100bp_fw	TCACTTTCATCACTGCGTTG	*mcr-4*	1,116	
mcr4_1100bp_rev	TTGGTCCATGACTACCAATG			
MCR5_fw	ATGCGGTTGTCTGCATTTATC	*mcr-5*	1,644	
MCR5_rev	TCATTGTGGTTGTCCTTTTCTG			
mcr-6_mp_fw	AGCTATGTCAATCCCGTGAT	*mcr-6*	252	[23]
mcr-6_mp_rev	ATTGGCTAGGTTGTCAATC			
mcr-7_mp_fw	GCCCTTCTTTTCGTTGTT	*mcr-7*	551	
mcr-7_mp_rev	GGTTGGTCTCTTTCTCGT			
mcr-8_mp_fw	TCAACAATTCTACAAAGCGTG	*mcr-8*	856	
mcr-8_mp_rev	AATGCTGCGCGAATGAAG			
mcr-9_mp_fw	TTCCCTTTGTTCTGGTTG	*mcr-9*	1011	
mcr-9_mp_rev	GCAGGTAATAAGTCGGTC			
mcr-10_fw	ATTCCGTTTGTGCTGGTTGC	*mcr-10*	707	This study
mcr-10_rev	AACATACAGGGCACCGAGAC			
Mcr-4 ext FW	ATCTGTTAAGTTTGTTGGTGAC	complete *mcr-4*	1,820	[24]
Mcr-4 ext RV	TGAGAGCTAAATGTAACAATAG A			

Table S2. Nucleotide/amino acid changes in *mcr-4*/MCR-4 alleles.

Allele	Nucleotide Mutation						Amino acid changes	Accession no.
	329	**536**	**613**	**706**	**992**	**1453**		
4.1	C	T	C	G	A	G	—	MF543359
4.2	C	T	C	G	**G**	G	Gln331Arg	MG822663
4.3	C	**G**	C	**T**	A	G	Val179Gly, Val236Phe	MG026621
4.4	C	T	**A**	G	**G**	G	His205Asn, Gln331Arg	MG822665
4.5	**T**	T	C	G	**G**	G	Pro110Leu, Gln331Arg	MG822664
4.6	C	T	C	**T**	A	G	Val236Phe	MH423812
4.7	C	T	C	**T**	**G**	**A**	Val236Phe, Gln331Arg, Val485Ile	ON586856

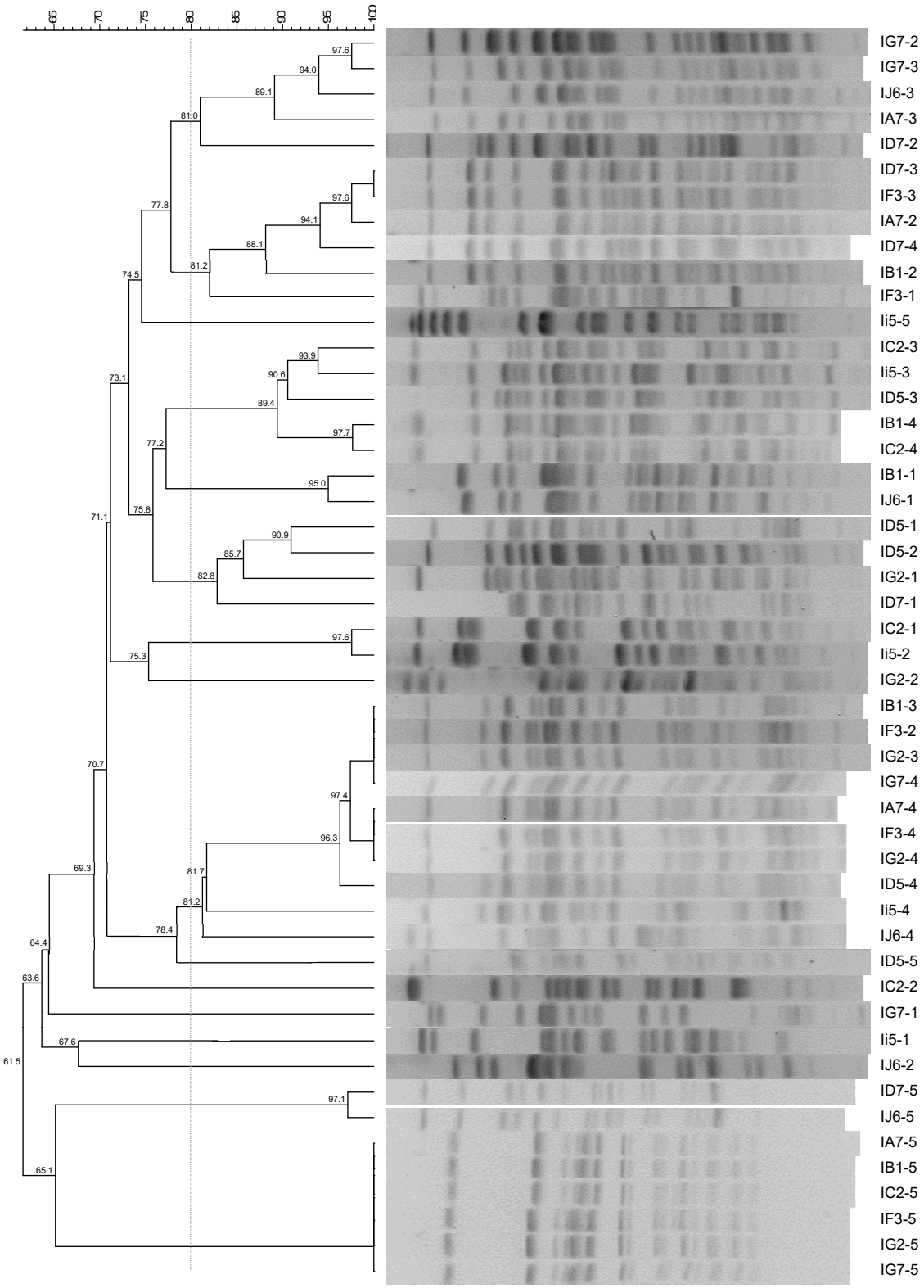

Figure S1. Dendrogram of clonal relationship of *E. coli* isolates from piglets over the five sampling moments.