Donor ID	Farm	Production stage	bla_{CTX-M} gene	ST-phylogroup	CC	Plasmid type							β-lactams	Phenicols			Tetracyclines		Quinolones	Aminoglycosides	Trimethoprims	
						IncFIB	IncI1	IncI2	IncX1	IncX4	IncN	IncFIA	bla_{TEM}	*catA*	*cfm*	*floR*	*tetA*	*tetB*	*qnrS*	*aac-3-II*	*dfrA*	*dfrX12*
ESBL/AmpC-A07	A	Growing pig	$bla_{CTX-M-55}$	ST5229-B1	CC101																	
ESBL/AmpC-A08	A	Growing pig	$bla_{CTX-M-55}$	ST23-A	CC23																	
ESBL/AmpC-A11	A	Growing pig	$bla_{CTX-M-14}$	ST7203-A																		
ESBL/AmpC-A13	A	Growing pig	$bla_{CTX-M-55}$	ST205-B1	CC205																a	
ESBL/AmpC-A15	A	Finishing pig	$bla_{CTX-M-55}$	ST3944-A																		
ESBL/AmpC-A16	A	Finishing pig	$bla_{CTX-M-55}$	ST3944-A																		
ESBL/AmpC-A17	A	Finishing pig	$bla_{CTX-M-55}$	ST5229-B1	CC101												a					
ESBL/AmpC-A18	A	Finishing pig	$bla_{CTX-M-55}$	STNT-B1																		
ESBL/AmpC-A20	A	Finishing pig	$bla_{CTX-M-65}$	ST215-A	CC10	a																
ESBL/AmpC-A21	A	Finishing pig	$bla_{CTX-M-65}$	ST215-A	CC10	a						a	a	a				a			a	
ESBL/AmpC-A23	A	Finishing pig	$bla_{CTX-M-55}$	ST2628-B1																		
ESBL/AmpC-A24	A	Finishing pig	$bla_{CTX-M-55}$	ST75-B1														a				
ESBL/AmpC-A25	A	Pregnant sow	$bla_{CTX-M-55}$	ST767-B1																		
ESBL/AmpC-A26	A	Pregnant sow	$bla_{CTX-M-55}$	ST75-B1														a				
ESBL/AmpC-A28	A	Pregnant sow	$bla_{CTX-M-55}$	STNT-A											a		a					
ESBL/AmpC-A29	A	Pregnant sow	$bla_{CTX-M-65}$	ST10-A	CC10																	
ESBL/AmpC-B01	B	Weaning piglet	$bla_{CTX-M-55}$	ST101-B1	CC101		a												a			
ESBL/AmpC-B02	B	Weaning piglet	$bla_{CTX-M-55}$	ST3076-B1			a															
ESBL/AmpC-B04	B	Weaning piglet	$bla_{CTX-M-55}$	ST101-B1	CC101																	
ESBL/AmpC-B06	B	Growing pig	$bla_{CTX-M-55}$	ST101-B1	CC101														a			
ESBL/AmpC-B07	B	Growing pig	$bla_{CTX-M-55}$	ST101-B1	CC101													a				
ESBL/AmpC-B08	B	Growing pig	$bla_{CTX-M-55}$	ST101-B1	CC101		a															
ESBL/AmpC-B09	B	Growing pig	$bla_{CTX-M-55}$	ST101-B1	CC101																	
ESBL/AmpC-B10	B	Growing pig	$bla_{CTX-M-55}$	ST101-B1	CC101		a															
ESBL/AmpC-B11	B	Growing pig	$bla_{CTX-M-55}$	ST641-B1	CC86																	
ESBL/AmpC-B13	B	Growing pig	$bla_{CTX-M-55}$	ST3076-B1																		
ESBL/AmpC-B16	B	Finishing pig	$bla_{CTX-M-55}$	ST641-B1	CC86														a			
ESBL/AmpC-B18	B	Finishing pig	$bla_{CTX-M-55}$	ST101-B1	CC101		a															
ESBL/AmpC-B19	B	Finishing pig	$bla_{CTX-M-55}$	ST101-B1	CC101		a															
ESBL/AmpC-B20	B	Finishing pig	$bla_{CTX-M-55}$	ST101-B1	CC101				a													
ESBL/AmpC-B23	B	Finishing pig	$bla_{CTX-M-55}$	ST101-B1	CC101																	
ESBL/AmpC-B27	B	Pregnant sow	$bla_{CTX-M-55}$	ST3944-A														a				
ESBL/AmpC-B29	B	Pregnant sow	$bla_{CTX-M-55}$	ST3076-B1			a															
ESBL/AmpC-B32	B	Growing pig	$bla_{CTX-M-55}$	ST101-B1	CC101		a															
ESBL/AmpC-B33	B	Finishing pig	$bla_{CTX-M-55}$	ST101-B1	CC101				a													
ESBL/AmpC-C01	C	Weaning piglet	$bla_{CTX-M-55}$	ST75-B1																		
ESBL/AmpC-C02	C	Weaning piglet	$bla_{CTX-M-55}$	ST75-B1																		
ESBL/AmpC-C04	C	Weaning piglet	$bla_{CTX-M-55}$	ST1642-B1									a			a						
ESBL/AmpC-C06	C	Growing pig	$bla_{CTX-M-55}$	ST75-B1																		
ESBL/AmpC-C07	C	Growing pig	$bla_{CTX-M-55}$	ST744-A									a	a				a				
ESBL/AmpC-C10	C	Growing pig	$bla_{CTX-M-55}$	ST2628-B1										a				a				
ESBL/AmpC-C13	C	Growing pig	$bla_{CTX-M-55}$	ST75-B1																		
ESBL/AmpC-C15	C	Growing pig	$bla_{CTX-M-55}$	ST75-B1																		
ESBL/AmpC-C17	C	Finishing pig	$bla_{CTX-M-55}$	ST2628-B1																		
ESBL/AmpC-C20	C	Finishing pig	$bla_{CTX-M-55}$	ST744-A										a				a				
ESBL/AmpC-C21	C	Finishing pig	$bla_{CTX-M-55}$	ST75-B1																		
ESBL/AmpC-C23	C	Finishing pig	$bla_{CTX-M-55}$	ST75-B1																		
ESBL/AmpC-C27	C	Pregnant sow	$bla_{CTX-M-55}$	ST2628-B1																		
ESBL/AmpC-C34	C	Pregnant sow	$bla_{CTX-M-55}$	ST2628-B1															a			
ESBL/AmpC-D01	D	Weaning piglet	$bla_{CTX-M-55}$	ST457-F																		
ESBL/AmpC-D04	D	Weaning piglet	$bla_{CTX-M-55}$	ST1642-B1														a				
ESBL/AmpC-D12	D	Growing pig	$bla_{CTX-M-55}$	ST457-F																		
ESBL/AmpC-D24	D	Pregnant sow	$bla_{CTX-M-55}$	ST101-B1	CC101	a						a										
ESBL/AmpC-D26	D	Pregnant sow	$bla_{CTX-M-55}$	ST75-B1																		
ESBL/AmpC-E01	E	Weaning piglet	$bla_{CTX-M-55}$	ST410-A	CC23		a	a								a						
ESBL/AmpC-E04	E	Weaning piglet	$bla_{CTX-M-55}$	ST101-B1	CC101			a														
ESBL/AmpC-E10	E	Growing pig	$bla_{CTX-M-55}$	ST75-B1																		
ESBL/AmpC-E30	E	Pregnant sow	$bla_{CTX-M-55}$	ST101-B1	CC101													a				
ESBL/AmpC-E34	E	Pregnant sow	$bla_{CTX-M-55}$	ST457-F																		
ESBL/AmpC-F02	F	Weaning piglet	$bla_{CTX-M-15}$	ST224-B1											a							a
ESBL/AmpC-F05	F	Weaning piglet	$bla_{CTX-M-146}$	ST1011-E										a		a				a		a
ESBL/AmpC-F25	F	Growing pig	$bla_{CTX-M-15}$	ST224-B1																		
ESBL/AmpC-G01	G	Weaning piglet	$bla_{CTX-M-55}$	ST75-B1																		
ESBL/AmpC-G02	G	Weaning piglet	$bla_{CTX-M-55}$	ST75-B1																		
ESBL/AmpC-G03	G	Weaning piglet	$bla_{CTX-M-55}$	ST75-B1																		
ESBL/AmpC-G10	G	Growing pig	$bla_{CTX-M-55}$	ST101-B1																		
ESBL/AmpC-G17	G	Finishing pig	$bla_{CTX-M-55}$	ST75-B1																		
ESBL/AmpC-G18	G	Finishing pig	$bla_{CTX-M-55}$	ST101-B1	CC101																	
ESBL/AmpC-G20	G	Finishing pig	$bla_{CTX-M-55}$	ST101-B1	CC101																	
ESBL/AmpC-G21	G	Finishing pig	$bla_{CTX-M-55}$	ST101-B1	CC101																	
ESBL/AmpC-G22	G	Finishing pig	$bla_{CTX-M-55}$	ST101-B1	CC101																	
ESBL/AmpC-G23	G	Finishing pig	$bla_{CTX-M-55}$	ST101-B1	CC101																	
ESBL/AmpC-G26	G	Pregnant sow	$bla_{CTX-M-55}$	ST101-B1	CC101																	
ESBL/AmpC-G27	G	Pregnant sow	$bla_{CTX-M-55}$	ST101-B1	CC101																	
ESBL/AmpC-G28	G	Pregnant sow	$bla_{CTX-M-55}$	ST101-B1	CC101																	
ESBL/AmpC-G31	G	Weaning piglet	$bla_{CTX-M-55}$	ST75-B1																		
ESBL/AmpC-G33	G	Finishing pig	$bla_{CTX-M-55}$	ST101-B1	CC101																	
					Prevalence	94.8% (73/77)	33.8% (26/77)	9.1% (7/77)	5.2% (4/77)	3.9% (3/77)	3.9% (3/77)	5.2% (4/77)	16.9% (13/77)	6.5% (5/77)	6.5% (5/77)	76.6% (59/77)	49.4% (38/77)	13.0% (10/77)	20.8% (16/77)	9.1% (7/77)	2.6% (2/77)	9.1% (7/77)
					Transferability	95.9% (70/73)	65.4% (17/26)	71.4% (5/7)	50.0% (2/4)	100.0% (3/3)	100.0% (3/3)	50.0% (2/4)	76.9% (10/13)	0.0% (0/5)	60.0% (3/5)	94.9% (56/59)	94.7% (36/38)	0.0% (0/10)	75.0% (12/16)	85.7% (6/7)	0.0% (0/2)	71.4% (5/7)

Supplementary Figure 1. Transferability of the β-lactamase gene, resistance genes, and replicon types in ESBL/AmpC-EC in the conjugation assay. Colored cells indicate the transfer of genes/plasmids represented by each column in the conjugation assay with *Escherichia coli* J53-Azi^{R} strain. The transferability of genes was confirmed by PCR. [a] detected in donor strains but did not transfer; Blank = plasmid replicon or antimicrobial resistance genes were not detected in donor strains