

1 Supplementary file

2

3 **Table S1.** Summary of culture results according to the source of the samples pigs

Province	No of farms	No of pigs sampled	No of farms with positive result	No of pigs with positive result
Fujian	1	1	0	0
Guangdong	88	440	3	3
Guangxi	5	10	0	0
Hainan	2	11	0	0
Henan	12	25	2	2
Hubei	9	23	0	0
Hunan	24	108	1	1
Jiangsu	5	21	0	0
Jiangxi	19	97	0	0
Zhejiang	3	6	0	0
Hong Kong	- ^a	114	0	0
Total	168	856	6	6

4 ^aInformation not available

5

6

7 **Table S2** Summary of the five IncX3 plasmids carrying *bla*_{NDM-5}

Strain	Plasmid name	Size (bp)	No of putative ORFs	Average depth of coverage	Accession no.
P744T	pP744-NDM5	45,546	46	177	MF547511
P768-11	pP768-NDM5	46,161	46	266	MF547510
P785	pP785-NDM5	46,161	46	384	MF547509
P788A-32	pP788A-NDM5	46,161	46	274	MF547507
P855	pP855-NDM5	46,161	46	235	MF547508

8

9

10 **Table S3.** Summary of 22 IncX3 pP768-NDM-5 like plasmids identified in the Genbank

	NDM allele	Geographical origin ^a	Species ^b	Accession	Plasmid size, bp (query coverage/identity) ^c	Host source	Year collected	Genetic load region, bp ^d
pCREC-A6-NDM	NDM-1	China	EC	KX960109	46,037 (100.0%/99.7%)	Human	-	16,002
pSCE516-2	NDM-1	China	EC	KX023261	46,254 (100.0%/99.9%)	Chicken	2015	16,071
pM213_X3	NDM-4	Myanmar	EC	AP018142	43,534 (100.0%/99.9%)	Human	2015	13,443
pM216_X3	NDM-4	Myanmar	EC	AP018146	46,161 (100.0%/99.9%)	Human	2015	16,070
pJEG027	NDM-4	Myanmar	KP	KM400601	46,253 (100.0%/99.8%)	Human	-	16,070
pNDM5_IncX3	NDM-5	China	KP	KU761328	46,161 (100.0%/99.9%)	Human	2015	16,070
pEc1929	NDM-5	China	EC	KT824791	46,164 (100.0%/99.9%)	Human	2014	16,071
pECNDM101	NDM-5	China	EC	KX507346	46,165 (100.0%/99.9%)	Pig	-	16,073
pZHDC40	NDM-5	China	EC	KY041843	45,346 (98.2%/100.0%)	Human	2015	15,255
pNDM5_WCHEC0215	NDM-5	China	EC	KY435936	47,337 (100.0%/97.4%)	Human	-	17,268
pK518_NDM5	NDM-5	China (ZJ)	KM	CP023188	46,146 (100.0%/99.9%)	Human	2017	16,070
pK516_NDM5	NDM-5	China (ZJ)	KM	CP022351	46,149 (100.0%/99.9%)	Human	2017	16,070
NUHL24835	NDM-5	China (JX)	KP	CP014006	46,161 (100.0%/99.9%)	Human	2014	16,070
pNDM-QD28	NDM-5	China (QD)	EC	KU167608	46,161 (100.0%/99.9%)	Human	2013	16,070
pNDM-QD29	NDM-5	China (QD)	EC	KU167609	46,161 (100.0%/99.9%)	Human	2013	16,070
pNDM-MGR194	NDM-5	India	KP	KF220657	46,253 (100.0%/99.9%)	Human	2011-13	16,070
pKpN01-NDM7	NDM-7	Canada	KP	CP012990	46,161 (100.0%/99.9%)	Human	2013	16,070
pEC50-NDM7	NDM-7	China	EC	KX470735	46,161 (100.0%/99.9%)	Human	-	16,070
pKW53TNDM	NDM-7	Kuwait	EC	KX214669	46,161 (100.0%/99.9%)	Human	2012	16,070
pM110_X3	NDM-7	Myanmar	EC	AP018141	45,122 (97.7%/99.9%)	Human	2015	15,031
pOM26-1	NDM-7	Oman	EC	KP776609	45,122 (97.7%/99.9%)	Human	-	15,031
pAD-19R	NDM-17	China (SD)	EC	KX833071	46,161 (100.0%/99.9%)	Chicken	2015	16,070

11 ^a GD, Guangdong; BJ, Beijing; HN, Henan; JS, Jiangsu; JX, Jiangxi; QD, Qingdao; SD, Shandong; ZJ, Zhejiang.

12 ^b EC, *Escherichia coli*; KP, *Klebsiella pneumoniae*; KM, *Klebsiella michiganensis*

13 ^c Percentages coverage and identity by using pP768-NDM-5 as a reference

14 ^d The genetic load region is between the resolvase gene and the *hms* gene. In pP768-NDM5, the genetic load region is 16,070 bp in length. In all
15 the plasmids, ISL3 and IS5 were inserted at the same positions and in the same orientations as in pP768-NDM5.