

Table S2. Relative abundance of *bla*_{NDM} on animal farms (n=106).

Province	Farm	Animal	Relative abundance of <i>mcr-1</i> (per 16s)
Shaanxi	SSSZC1	pig	2.35E-05
Shaanxi	SSSZC2	pig	3.49E-05
Shaanxi	SSSZC3	pig	1.82E-05
Shaanxi	SSSZC4	pig	6.30E-06
Shaanxi	SSSZC5	pig	5.29E-06
Shaanxi	SSSZC6	pig	7.97E-05
Shaanxi	SSSZC7	pig	1.43E-05
Shaanxi	SSSZC8	pig	2.21E-05
Shaanxi	SSSZC9	pig	0.000147873
Shaanxi	SSSZC10	pig	4.46E-05
Shaanxi	SSSZC11	pig	7.31E-05
Shaanxi	SSSZC12	pig	1.04E-05
Shaanxi	SSSZC13	pig	1.90E-05
Shaanxi	SSSZC14	pig	0.000152095
Shaanxi	SSSZC15	pig	1.00E-07
Shaanxi	SSSZC16	pig	1.00E-07
Shaanxi	SSSZC17	pig	1.00E-07
Shaanxi	SSSZC18	pig	1.00E-07
Shaanxi	SSSZC19	pig	1.00E-07
Shaanxi	SSSZC20	pig	1.00E-07
Shaanxi	SSJC1	chicken	2.96E-05
Shaanxi	SSJC2	chicken	0.034485685
Shaanxi	SSJC3	chicken	6.53E-05
Shaanxi	SSJC4	chicken	0.001086135
Shaanxi	SSJC5	chicken	0.000313777
Shaanxi	SSJC6	chicken	1.00E-07
Shaanxi	SSJC7	chicken	1.00E-07
Shaanxi	SSJC8	chicken	1.00E-07
Shaanxi	SSJC9	chicken	1.00E-07
Shaanxi	SSJC10	chicken	1.00E-07
Shaanxi	SSJC11	chicken	1.00E-07
Shaanxi	SSJC12	chicken	1.00E-07
Shaanxi	SSJC13	chicken	1.00E-07
Shaanxi	SSJC14	chicken	1.00E-07
Liaoning	LNSZC1	pig	1.26E-05
Liaoning	LNSZC2	pig	7.90E-05
Liaoning	LNSZC3	pig	1.89E-05
Liaoning	LNSZC4	pig	9.04E-05
Liaoning	LNSZC5	pig	0.000128328
Liaoning	LNSZC6	pig	8.55E-06

Liaoning	LNSZC7	pig	0.000783282
Liaoning	LNSZC8	pig	5.45E-06
Liaoning	LNSZC9	pig	3.44E-05
Liaoning	LNSZC10	pig	3.62E-06
Liaoning	LNSZC11	pig	3.77E-06
Liaoning	LNSZC12	pig	6.20E-06
Liaoning	LNSZC13	pig	8.56E-06
Liaoning	LNSZC14	pig	2.57E-05
Liaoning	LNSZC15	pig	4.29E-05
Liaoning	LNSZC16	pig	0.000191169
Liaoning	LNSZC17	pig	2.51E-05
Liaoning	LNSZC18	pig	0.000887425
Liaoning	LNSZC19	pig	0.000123609
Liaoning	LNSZC20	pig	1.64E-05
Liaoning	LNSZC21	pig	1.00E-07
Liaoning	LNJC1	chicken	0.00010783
Liaoning	LNJC2	chicken	5.11E-05
Liaoning	LNJC3	chicken	1.62E-05
Liaoning	LNJC4	chicken	0.001780075
Liaoning	LNJC5	chicken	0.000237029
Liaoning	LNJC6	chicken	0.004740441
Liaoning	LNJC7	chicken	4.51E-05
Liaoning	LNJC8	chicken	0.001973518
Liaoning	LNJC9	chicken	0.009802092
Liaoning	LNJC10	chicken	0.246517721
Liaoning	LNJC11	chicken	0.053012081
Liaoning	LNJC12	chicken	0.002311409
Liaoning	LNJC13	chicken	0.025154263
Liaoning	LNJC14	chicken	1.00E-07
Liaoning	LNJC15	chicken	1.00E-07
Liaoning	LNJC16	chicken	1.00E-07
Hunan	HNSZC1	pig	0.000162325
Hunan	HNSZC2	pig	9.56E-05
Hunan	HNSZC3	pig	0.000136728
Hunan	HNSZC4	pig	3.71E-05
Hunan	HNSZC5	pig	5.88E-05
Hunan	HNSZC6	pig	5.42E-05
Hunan	HNSZC7	pig	4.46E-05
Hunan	HNSZC8	pig	0.246652523
Hunan	HNSZC9	pig	4.49E-05
Hunan	HNSZC10	pig	9.36E-05
Hunan	HNSZC11	pig	2.60E-06
Hunan	HNSZC12	pig	1.00E-07

Hunan	HNSZC13	pig	1.00E-07
Hunan	HNSZC14	pig	1.00E-07
Hunan	HNSZC15	pig	1.00E-07
Hunan	HNSZC16	pig	1.00E-07
Hunan	HNSZC17	pig	1.00E-07
Hunan	HNSZC18	pig	1.00E-07
Hunan	HNSZC19	pig	1.00E-07
Hunan	HNSZC20	pig	1.00E-07
Hunan	HNJC1	chicken	0.000667834
Hunan	HNJC2	chicken	0.002170573
Hunan	HNJC3	chicken	3.59E-05
Hunan	HNJC4	chicken	0.001435924
Hunan	HNJC5	chicken	0.005497205
Hunan	HNJC6	chicken	0.001561152
Hunan	HNJC7	chicken	0.00014068
Hunan	HNJC8	chicken	0.001109439
Hunan	HNJC9	chicken	0.002464578
Hunan	HNJC10	chicken	0.005694301
Hunan	HNJC11	chicken	1.00E-07
Hunan	HNJC12	chicken	1.00E-07
Hunan	HNJC13	chicken	1.00E-07
Hunan	HNJC14	chicken	1.00E-07
Hunan	HNJC15	chicken	1.00E-07

Note: All samples were negative for *bla_{KPC}*. Owing to an excess of abundance values below the limit of detection (LOD), a pseudo-count of 10^{-7} (one order of magnitude lower than the lowest abundance) was defined as the abundance before the $\log_{10}$ scale for those values below the LOD.

Table S3: Testing set table of DAPC model.

	Chicken	Fly	Human	Swine
Chicken	80	1	40	15
Human	47	9	120	41
Swine	21	2	27	60

Rows represent predictable source and columns represent reported source, respectively.

Table S4: Prediction set table of DAPC model.

	Chicken	Fly	Human	Swine
Chicken	87	2	24	10
Fly	22	0	5	19
Human	105	1	60	29
Swine	29	0	27	43

Rows represent predictable source and columns represent reported source, respectively.