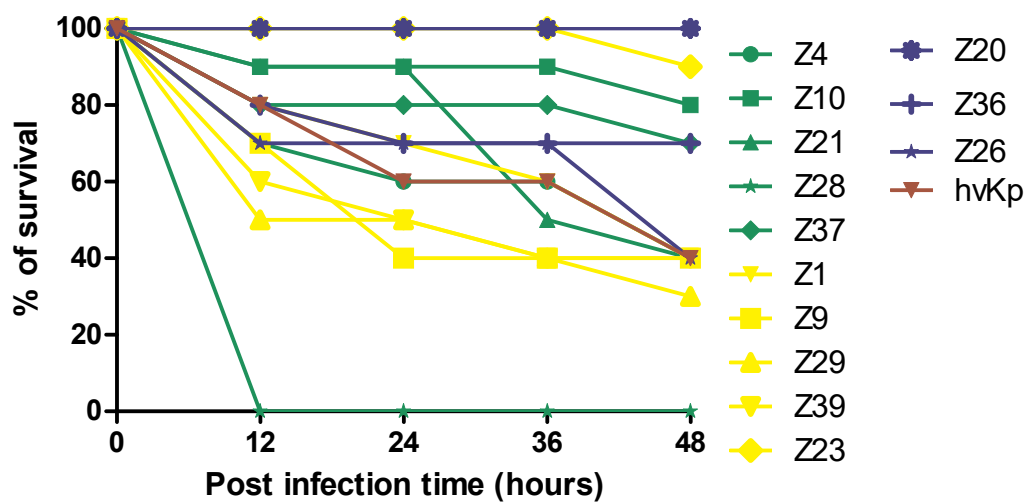
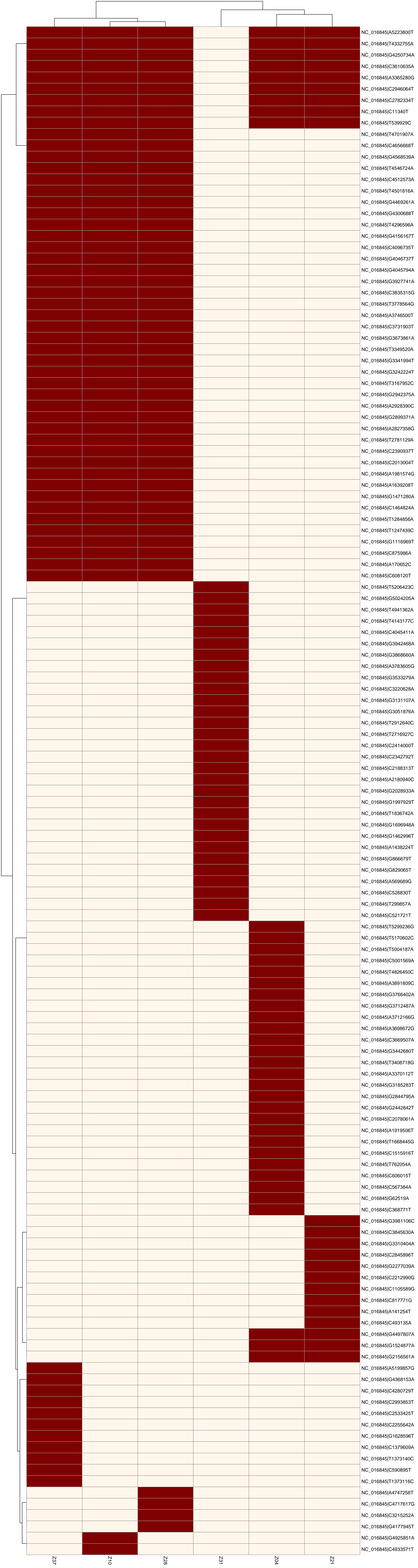
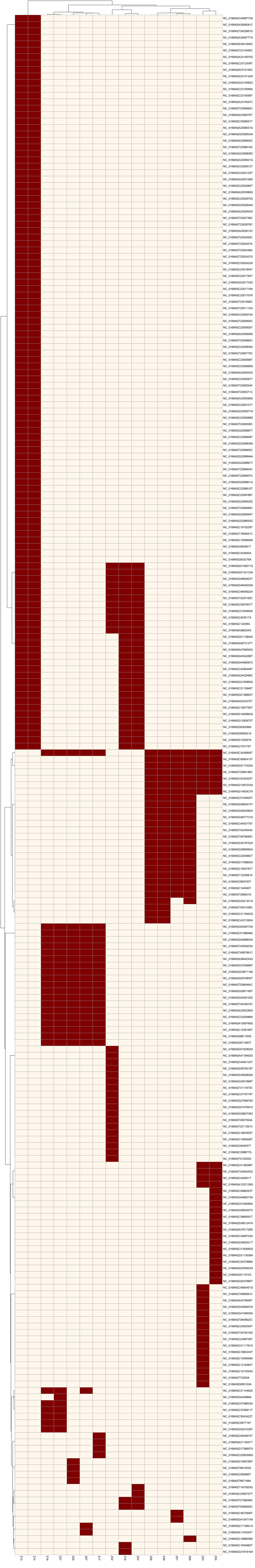


Survival proportions of the hvKp strains







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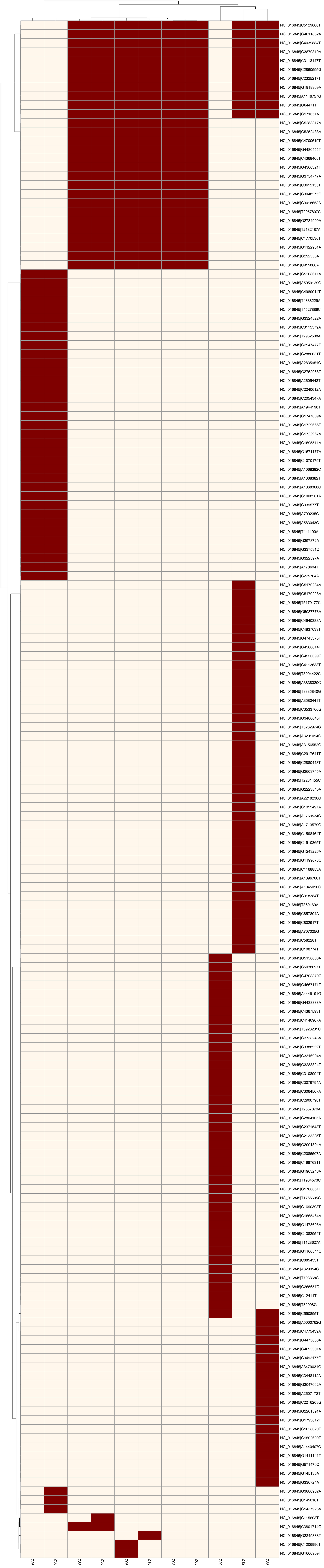
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Z26

Z33

Z38

Z06

Z18

Z03

Z05

Z20

Z12

Z35

Supplementary Table 1. Primers used in the study

Items	Sequence
<i>rmpA</i>	
Forward	5-ACTGGGCTACCTCTGCTTCA-3
Reverse	5-CTTGCATGAGCCATCTTTCA-3
<i>rmpA2</i>	
Forward	5-CTTTATGTGCAATAAG-GATGTT-3
Reverse	5-CCTCCTGGAGAGTAAGCATT-3
<i>rmpA</i>	
Forward	5-GTAATAGAGATATAAATATCATATTGA-3
Reverse	5-GCAATGGCCATTGCGTTAG-3
<i>iroB</i>	
Forward	5-ATCTCATCATCTACCTCCGCTC-3
Reverse	5-GGTTGCGCCGTCGTTTTCAA-3
<i>iucA</i>	
Forward	5-AATCAATGGCTATCCCGCTG-3
Reverse	5-CGCTTCACTTCTTCACTGACAGG-3
<i>peg344</i>	
Forward	5-CTTGAAACAGACCCTCCAGTC-3
Reverse	5-CCAGCGAATATAATAACCC-3
<i>peg589</i>	
Forward	5-TGAACCCCATGAGGTCTATC-3
Reverse	5-GTGATGAATACCACTGCGGC-3
<i>K1</i>	
Forward	5-GTAGGTATTGCAAGCCATGC-3
Reverse	5-GCCCAGGTTAATGAATCCGT-3
<i>K2</i>	
Forward	5-GGAGCCATTGAATTCGGTG-3
Reverse	5-TCCCTAGCACTGGCTTAAGT-3
<i>K5</i>	
Forward	5-GCCACCTCTAAGCATATAGC-3
Reverse	5-CGCACCAGTAATCCAACAG-3
<i>K20</i>	
Forward	5-CCGATTCGGTCAACTAGCTT-3
Reverse	5-GCACCTCTATGAACTTTCAG-3
<i>K54</i>	
Forward	5-CATTAGCTCAGTGGTTGGCT-3
Reverse	5-GCTTGACAAACACCATAGCAG-3
<i>K57</i>	
Forward	5-CGACAAATCTCTCTGACGA-3
Reverse	5-CGCGACAAACATAACACTCG-3
<i>rpoB</i>	
Forward	5-GGCGAAATGGCWGAGAACCA-3
Reverse	5-GAGTCTTCGAAGTTGTAACC-3

gapA

Forward 5-TGAAATATGACTCCACTCACGG-3
Reverse 5-CTTCAGAAGCGGCTTTGATGGCTT-3

mdh

Forward 5-TGAAATATGACTCCACTCACGG-3
Reverse 5-CTTCAGAAGCGGCTTTGATGGCTT-3

pgi

Forward 5-GAGAAAAACCTGCCTGTACTGCTGGC-3
Reverse 5-CGCGCCACGCTTTATAGCGGTTAAT-3

phoE

Forward 5-ACCTACCGCAACACCGACTTCTTCGG-3
Reverse 5-TGATCAGAAGTGGTAGGTGAT-3

infB

Forward 5-CTCGCTGCTGGACTATATTCG-3
Reverse 5-CGCTTTCAGCTCAAGAACTTC-3

tonB

Forward 5-CTTTATACCTCGGTACATCAGTT-3
Reverse 5-ATTCGCCGGCTGRGCRGAGAG-3

Supplementary table 2. The number of different SNP among all the ST11 *Klebsiella pneumoniae* strains was shown referenced by HS11286.

Item	Z01	Z09	Z29	Z24	Z23	Z07	Z17	Z25	Z19	Z27	Z32	Z15	Z22	Z03	Z33	Z18	Z06	Z38	Z35	Z26	Z36	Z20	Z12	Z13	Z21	Z31	Z04	Z10	Z28	Z37
Z01	0	4	6	37	38	46	47	47	49	50	54	58	58	73	74	74	75	75	76	80	83	86	98	139	816	824	832	845	847	854
Z09	4	0	4	37	38	46	47	47	49	50	54	58	58	73	74	74	75	75	76	80	83	86	98	139	816	824	832	845	847	854
Z29	6	4	0	39	40	48	49	49	51	52	56	60	60	75	76	76	77	77	78	82	85	88	100	141	818	826	834	847	849	856
Z24	37	37	39	0	31	47	48	48	50	51	55	59	59	74	75	75	76	76	77	81	84	87	99	140	817	825	833	846	848	855
Z23	38	38	40	31	0	48	49	49	51	52	56	60	60	75	76	76	77	77	78	82	85	88	100	141	818	826	834	847	849	856
Z07	46	46	48	47	48	0	7	7	7	8	52	56	56	71	72	72	73	73	74	78	81	84	96	137	814	822	830	843	845	852
Z17	47	47	49	48	49	7	0	8	10	11	53	57	57	72	73	73	74	74	75	79	82	85	97	138	815	823	831	844	846	853
Z25	47	47	49	48	49	7	8	0	10	11	53	57	57	72	73	73	74	74	73	79	82	83	97	138	815	823	831	844	846	851
Z19	49	49	51	50	51	7	10	10	0	1	55	59	59	74	75	75	76	76	77	81	84	87	99	140	817	825	833	846	848	855
Z27	50	50	52	51	52	8	11	11	1	0	56	60	60	75	76	76	77	77	78	82	85	88	100	141	818	826	834	847	849	856
Z32	54	54	56	55	56	52	53	53	55	56	0	40	40	77	78	78	79	79	80	84	87	90	102	121	820	828	836	849	851	858
Z15	58	58	60	59	60	56	57	57	59	60	40	0	4	81	82	82	83	83	84	88	91	94	106	89	824	832	840	853	855	862
Z22	58	58	60	59	60	56	57	57	59	60	40	4	0	81	82	82	83	83	84	88	91	94	106	89	824	832	840	853	855	862
Z03	73	73	75	74	75	71	72	72	74	75	77	81	81	0	1	1	2	2	37	63	66	69	59	162	799	807	815	828	830	837
Z33	74	74	76	75	76	72	73	73	75	76	78	82	82	1	0	2	3	1	38	64	67	70	60	163	800	808	816	829	831	838
Z18	74	74	76	75	76	72	73	73	75	76	78	82	82	1	2	0	3	3	38	64	67	70	60	163	800	808	816	829	831	838
Z06	75	75	77	76	77	73	74	74	76	77	79	83	83	2	3	3	0	4	39	65	68	71	61	164	801	809	817	830	832	839
Z38	75	75	77	76	77	73	74	74	76	77	79	83	83	2	1	3	4	0	39	65	68	71	61	164	801	809	817	830	832	839
Z35	76	76	78	77	78	74	75	73	77	78	80	84	84	37	38	38	39	39	0	66	69	70	62	165	802	810	818	831	833	838
Z26	80	80	82	81	82	78	79	79	81	82	84	88	88	63	64	64	65	65	66	0	3	76	88	169	804	812	820	833	835	842
Z36	83	83	85	84	85	81	82	82	84	85	87	91	91	66	67	67	68	68	69	3	0	79	91	172	807	815	823	836	838	845
Z20	86	86	88	87	88	84	85	83	87	88	90	94	94	69	70	70	71	71	70	76	79	0	94	175	812	820	828	841	843	848
Z12	98	98	100	99	100	96	97	97	99	100	102	106	106	59	60	60	61	61	62	88	91	94	0	187	824	832	840	853	855	862

Z13	139	139	141	140	141	137	138	138	140	141	121	89	89	162	163	163	164	164	165	169	172	175	187	0	905	913	921	934	936	943
Z21	816	816	818	817	818	814	815	815	817	818	820	824	824	799	800	800	801	801	802	804	807	812	824	905	0	52	36	55	57	64
Z31	824	824	826	825	826	822	823	823	825	826	828	832	832	807	808	808	809	809	810	812	815	820	832	913	52	0	68	81	83	90
Z04	832	832	834	833	834	830	831	831	833	834	836	840	840	815	816	816	817	817	818	820	823	828	840	921	36	68	0	71	73	80
Z10	845	845	847	846	847	843	844	844	846	847	849	853	853	828	829	829	830	830	831	833	836	841	853	934	55	81	71	0	6	13
Z28	847	847	849	848	849	845	846	846	848	849	851	855	855	830	831	831	832	832	833	835	838	843	855	936	57	83	73	6	0	15
Z37	854	854	856	855	856	852	853	851	855	856	858	862	862	837	838	838	839	839	838	842	845	848	862	943	64	90	80	13	15	0

The SNP of the core genome was the same between Z3 and Z5, Z13 and Z14, Z29 and Z39, respectively.

Supplementary table 3. Antimicrobial resistance profile of these MDR-Kp strains.

No.	SAM	ATM	CIP	MEM	TZP	GEN	FEP	CRO	CAZ	CTT	CZO	TOB	IPM	LVX	AMK	CSL*	MNO*	TGC*
Z1	≥32	≥64	≥4	≥16	≥128	≥16	≥64	≥64	≥64	≥64	≥64	≥16	≥16	≥8	≥64	6	12	16
Z3	≥32	≥64	≥4	≥16	≥128	≥16	≥64	≥64	≥64	≥64	≥64	≥16	≥16	≥8	≥64	6	12	16
Z4	≥32	≥64	≥4	≥16	≥128	≥16	≥64	≥64	≥64	≥64	≥64	≥16	≥16	≥8	≥64	6	19	21
Z5	≥32	≥64	≥4	≥16	≥128	≥16	≥64	≥64	≥64	≥64	≥64	≥16	≥16	≥8	≥64	7	12	16
Z6	≥32	≥64	≥4	≥16	≥128	≥16	≥64	≥64	≥64	≥64	≥64	≥16	≥16	≥8	≥64	6	18	20
Z7	≥32	≥64	≥4	≥16	≥128	≥16	≥64	≥64	16	≥64	≥64	≥16	≥16	≥8	≤2	10	15	19
Z9	≥32	≥64	≥4	≥16	≥128	≥16	≥64	≥64	≥64	≥64	≥64	≥16	≥16	≥8	≥64	6	16	23
Z10	≥32	≥64	≥4	≥16	≥128	≤1	≥64	≥64	≥64	≥64	≥64	≤1	≥16	≥8	≤2	6	17	19
Z12	≥32	≥64	≥4	≥16	≥128	≤1	≥64	16	16	16	16	≤1	≥16	≥8	≤2	6	17	19
Z13	≥32	≥64	≥4	≥16	≥128	≥16	≥64	≥64	≥64	≥64	≥64	4	≥16	≥8	≤2	8	11	19
Z14	≥32	≥64	≥4	≥16	≥128	≥16	≥64	≥64	≥64	≥64	≥64	4	≥16	≥8	≤2	6	14	16
Z15	≥32	≥64	≥4	≥16	≥128	≥16	≥64	≥64	≥64	≥64	≥64	8	≥16	≥8	≤2	6	14	20
Z17	≥32	≥64	≥4	≥16	≥128	≥16	≥64	≥64	≥64	≥64	≥64	≥16	≥16	≥8	≥64	6	8	19
Z18	≥32	≥64	≥4	≥16	≥128	≥16	≥64	≥64	16	≥64	≥64	≥16	≥16	≥8	≥64	8	20	21
Z19	≥32	≥64	≥4	≥16	≥128	≥16	≥64	≥64	≥64	≥64	≥64	≥16	8	≥8	≥64	6	15	15
Z20	≥32	≥64	≥4	≥16	≥128	≤1	≥64	≥64	≥64	≥64	≥64	≤1	≥16	≥8	≤2	6	18	20
Z21	≥32	≥64	≥4	≥16	≥128	≤1	≥64	≥64	≥64	≥64	≥64	≤1	≥16	≥8	≤2	6	18	20
Z22	≥32	≥64	≥4	≥16	≥128	≥16	≥64	≥64	≥64	≥64	≥64	4	≥16	≥8	≤2	6	6	13
Z23	≥32	≥64	≥4	≥16	≥128	≥16	≥64	≥64	≥64	≥64	≥64	≥16	≥16	≥8	≥64	6	18	21
Z24	≥32	≥64	≥4	≥16	≥128	≥16	≥64	≥64	16	≥64	≥64	≥16	≥16	≥8	≤2	11	16	19
Z25	≥32	≥64	≥4	≥16	≥128	≥16	≥64	≥64	≥64	≥64	≥64	≥16	≥16	≥8	≥64	7	16	20
Z26	≥32	≥64	≥4	≥16	≥128	≥16	≥64	≥64	≥64	≥64	≥64	≥16	≥16	≥8	≥64	6	20	22
Z27	≥32	≥64	≥4	≥16	≥128	≥16	≥64	≥64	≥64	≥64	≥64	≥16	≥16	≥8	≥64	7	16	22
Z28	≥32	≥64	≥4	≥16	≥128	≤1	≥64	≥64	≥64	≥64	≥64	≤1	≥16	≥8	≤2	6	20	20
Z29	≥32	≥64	≥4	≥16	≥128	≥16	≥64	≥64	≥64	≥64	≥64	≥16	≥16	≥8	≥64	6	17	19
Z31	≥32	≥64	≥4	≥16	≥128	≥16	≥64	≥64	≥64	≥64	≥64	≥16	≥16	≥8	≥64	6	16	19
Z32	≥32	16	≥4	≤0.25	≤4	≤1	≤1	16	16	≤4	≥64	4	≤1	≥8	≤2	22	7	20
Z33	≥32	≥64	≥4	≥16	≥128	≥16	32	≥64	16	≥64	≥64	≥16	≥16	≥8	≥64	8	16	19
Z35	≥32	≥64	≥4	≥16	≥128	≥16	≥64	≥64	≥64	≥64	≥64	≥16	≥16	≥8	≥64	6	8	13
Z36	≥32	≥64	≥4	≥16	≥128	≥16	≥64	≥64	≥64	≥64	≥64	≥16	≥16	≥8	≥64	6	20	22
Z37	≥32	≥64	≥4	≥16	≥128	≤1	≥64	≥64	≥64	≥64	≥64	≤1	≥16	≥8	≤2	6	21	21
Z38	≥32	≥64	≥4	≥16	≥128	≥16	32	≥64	16	≥64	≥64	≥16	≥16	≥8	≥64	9	16	20
Z39	≥32	≥64	≥4	≥16	≥128	≥16	≥64	≥64	≥64	≥64	≥64	≥16	≥16	≥8	≥64	6	13	28

*: Antimicrobial resistance was detected by KB test.

