

Feb_3-4078481188					
VFclass	Virulence factors	Related genes	R. ornithinolytica B1645-1B(Prediction)	K.oxytoca E718	K.oxytoca KCTC 1686
			CP132041.1 (CP132041.1)	chromosome (NC_018106)	chromosome (NC_016612)
Adherence	Type 3 fimbriae	mrkA	orf01158	A225_4839	KOX_01865
		mrkB	orf01159	A225_4838	KOX_01860
		mrkC	orf01160	A225_4837	KOX_01855
		mrkD	orf01161	A225_4836	KOX_01850
		mrkF	orf01162	A225_4835	KOX_01845
		mrkH	orf01165	A225_4832	KOX_01825
		mrkI	orf01164	A225_4833	KOX_01830
		mrkJ	orf01163	A225_4834	-
	Type I fimbriae	fimA	orf01134	A225_3798	KOX_24735
		fimB	orf01136	A225_3345	KOX_22330
		fimC	orf01132	A225_3800	KOX_24745
		fimD	orf00996;	A225_3801	KOX_24750
		fimE	orf01135	-	-
		fimF	orf01130	A225_3802	KOX_24755
		fimG	orf01129	A225_3803	KOX_24760
		fimH	orf01128	A225_3804	KOX_24765
		fimI	orf01133	A225_3799	KOX_24740
		fimK	orf01127	A225_3805	KOX_24770
	Hemorrhagi	hofC	orf04767	-	-
	The tad	tadA	orf02846	-	-
Antiphagocytosis	Capsule	-	orf01956; orf01957; orf01958; orf01959; orf01960; orf01961; orf01962; orf01970; orf01971; orf01972; orf01973; orf01974; orf01975	A225_3877; A225_3878; A225_3879; A225_3880; A225_3881; A225_3882; A225_3883; A225_3885; A225_3887; A225_3888; A225_3890; A225_3891; A225_3892; A225_3893; A225_3894; A225_3895;	KOX_25120; KOX_25125; KOX_25130; KOX_25135; KOX_25140; KOX_25145; KOX_25160; KOX_25165; KOX_25170; KOX_25180; KOX_25185; KOX_25190; KOX_25195; KOX_25200; KOX_25205; KOX_25210; KOX_25215; KOX_25220
Efflux pump	AcrAB	acrA	orf04414	A225_1327	KOX_12990
		acrB	orf04415	A225_1326	KOX_12985
	Aerobactin	iucA	-	-	-
		iucB	-	-	-
		iucC	-	-	-
		iucD	-	-	-
		iutA	orf03543	A225_2329	KOX_17385
		entA	orf04211	A225_1611	KOX_13965
		entB	orf04212	A225_1610	KOX_13960

Iron uptake	Ent siderophore	entC	orf04214	A225_1608	KOX_13950
		entD	orf04224	A225_1596	KOX_13885
		entE	orf04213	A225_1609	KOX_13955
		entF	orf04221	A225_1600	KOX_13905
		entS	orf04216	A225_1604	KOX_13925
		fepA	orf04223;	A225_1597	KOX_13890
		fepB	orf04215	A225_1607	KOX_13945
		fepC	orf04219	A225_1601	KOX_13910
		fepD	orf04217	A225_1603	KOX_13920
		fepG	orf04218	A225_1602	KOX_13915
		fes	orf04222	A225_1598	KOX_13895
	Salmochelins	lroB	-	-	-
		iroC	-	-	-
		iroD	-	-	-
		iroE	orf02041	A225_3752	KOX_24260
		iroN	orf03403	-	KOX_18265
	Yersiniabactins	fyuA	orf02048	A225_2997	KOX_20660
		irp1	orf02052	A225_2993	-
		irp2	orf02053	A225_2992	KOX_20630
		ybtA	orf02054	A225_2991	KOX_20625
		ybtE	orf02049	A225_2996	KOX_20655
		ybtP	orf02055	A225_2990	KOX_20620
		ybtQ	orf02056	A225_2989	KOX_20615
		ybtS	orf02058	A225_2987	KOX_20605
		ybtT	orf02050	A225_2995	KOX_20650
		ybtU	orf02051	A225_2994	KOX_20645
		ybtX	orf02057	A225_2988	KOX_20610
	Acinetobactins	basG	orf00238	-	-
Nutritional factor	Allantoin utilization	allA	-	-	-
		allB	-	-	-
		allC	-	-	-
		allD	-	-	-
		allR	-	-	-
		allS	orf05091	-	-
Regulation	RcsAB	rcaA	orf02118	A225_3729	KOX_24155
		rcaB	orf01794	A225_4123	KOX_26115
	RmpA	rmpA	-	-	-
T6SS-I	T6SS-I	-	-	-	-
		-	-	-	-
		-	-	-	-
		clpV/tss	orf01678	-	-
		dotU/tss	orf01675	A225_3377	KOX_22520
		hcr/tssD	orf00884;	A225_3375	KOX_22510
		icmF/tss	orf01686	A225_3362	KOX_22425
		impA/tss	orf01687	-	-
		ompA	orf01676	A225_3376	KOX_22515
		sciN/tssJ	orf01690	A225_3358	KOX_22400
		tli1	-	-	-
		tli1	-	-	-
		tssF	orf01688	A225_3360	KOX_22410
		tssG	orf01689	A225_3359	KOX_22405
		vasE/tss	orf01674	A225_3378	KOX_22525
		vgrG/tssI	orf01679	A225_3373	KOX_22495
		vipA/tss	orf01672	A225_3380	KOX_22535

Secretion system	T6SS-II	vipB/tss	orf01673	A225_3379	KOX_22530
		clpV	orf01502	A225_4443	KOX_00005
		dotU	-	A225_2629	-
		icmF	-	A225_2638	-
		impF	-	-	-
		impH	-	-	-
		impJ	-	-	-
		ompA	-	A225_2630	-
		sciN	-	-	-
		vasA/im	-	A225_2640	-
		vgrG	-	A225_2635	-
	T6SS-III	-	-	-	-
		-	-	-	-
		-	-	-	-
		-	-	-	-
		-	-	-	-
		-	-	-	-
		-	-	-	-
		dotU	-	A225_4107	KOX_26040
		icmF	-	A225_4098	KOX_25975
		impA	-	A225_2644	KOX_18875
		impF	orf01691	A225_2643	KOX_18870
		impG	-	A225_4094	KOX_25955
		impH	-	A225_4093	KOX_25950
		impJ	-	A225_4108	KOX_26045
		lysM	-	-	-
		ompA	-	A225_4106	KOX_26035
		sciN	-	A225_4092	KOX_25945
		vgrG	-	A225_4101	KOX_26005
Serum resistance	LPS rfb locus	-	orf01977; orf01978; orf01979; orf01980; orf01981; orf01982; orf01983; orf04601	A225_3866; A225_3867; A225_3868; A225_3869; A225_3870; A225_3871; A225_3872; A225_3875	KOX_25070; KOX_25075; KOX_25080; KOX_25085; KOX_25090; KOX_25095; KOX_25100; KOX_25105
Toxin	Colibactin	clbA	-	-	-
		clbB	-	-	-
		clbC	-	-	-
		clbD	-	-	-
		clbE	-	-	-
		clbF	-	-	-
		clbG	-	-	-
		clbH	-	-	-
		clbI	-	-	-
		clbJ	-	-	-
		clbK	-	-	-
		clbL	-	-	-
		clbM	-	-	-
		clbN	-	-	-
		clbO	-	-	-
		clbP	-	-	-
		clbQ	-	-	-

		clbS	-	-	-
Autotran	EhaB	ehaB	orf04557	-	-
Fimbrial	Stf(Salmone	stfD	orf01004	-	-
Immune	LPS	gtrB	orf00763	-	-
Table saved from VFDB (http://www.mgc.ac.cn/VFs/) [Sun Feb 4 12:56:10 2024]					

K.pneumoniae 342	K.pneumoniae JM45	K.pneumoniae KCTC 2242	K.pneumoniae subsp. pneumoniae 1084	K.pneumoniae subsp. pneumoniae HS11286
chromosome (NC_011283)	chromosome (NC_022082)	chromosome (NC_017540)	chromosome (NC_018522)	chromosome (NC_016845)
KPK_0832	N559_0956	KPN2242_19355	A79E_0826	KPHS_43470
KPK_0833	N559_0957	KPN2242_19350	A79E_0827	KPHS_43460
KPK_0834	N559_0958	KPN2242_19345	A79E_0828	KPHS_43450
KPK_0835	N559_0959	KPN2242_19340	A79E_0829	KPHS_43440
KPK_0836	N559_0960	KPN2242_19335	A79E_0830	KPHS_43430
KPK_0839	N559_0963	KPN2242_19320	A79E_0833	KPHS_43400
KPK_0838	N559_0962	KPN2242_19325	A79E_0832	KPHS_43410
KPK_0837	N559_0961	KPN2242_19330	A79E_0831	KPHS_43420
KPK_0817	N559_0948	KPN2242_19395	A79E_0819	KPHS_43550
KPK_0820	N559_0951	KPN2242_19385	A79E_0821	KPHS_43520
KPK_0815	N559_0946	KPN2242_19405	A79E_0817	KPHS_43570
KPK_0814	N559_0945	KPN2242_19410	A79E_0816	KPHS_43580
KPK_0818	N559_0950	KPN2242_19390	A79E_0820	KPHS_43530
KPK_0813	N559_0944	KPN2242_19415	A79E_0815	KPHS_43590
KPK_0812	N559_0943	KPN2242_19420	A79E_0814	KPHS_43600
KPK_0811	N559_0942	KPN2242_19425	A79E_0813	KPHS_43610
KPK_0816	N559_0947	KPN2242_19400	A79E_0818	KPHS_43560
KPK_0810	N559_0941	KPN2242_19430	A79E_0812	KPHS_43620
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KPK_1657;	N559_1754;	KPN2242_15585;	A79E_1599;	KPHS_35600;
KPK_1658;	N559_1755;	KPN2242_15590;	A79E_1600;	KPHS_35610;
KPK_1659;	N559_1756;	KPN2242_15595;	A79E_1601;	KPHS_35620;
KPK_1660;	N559_1757;	KPN2242_15600;	A79E_1602;	KPHS_35630;
KPK_1661;	N559_1758;	KPN2242_15605;	A79E_1603;	KPHS_35640;
KPK_1662;	N559_1759;	KPN2242_15610;	A79E_1604;	KPHS_35650;
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KPK_1664;	N559_1761;	KPN2242_15620;	A79E_1607;	KPHS_35670;
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KPK_3967	N559_3716	KPN2242_05915	A79E_3629	KPHS_14460
KPK_3977	N559_3725	KPN2242_05865	A79E_3639	KPHS_14360
KPK_3966	N559_3715	KPN2242_05920	A79E_3628	KPHS_14470
KPK_3973	N559_3721	KPN2242_05885	A79E_3635	KPHS_14400
KPK_3969	N559_3718	KPN2242_05905	A79E_3631	KPHS_14440
KPK_3976	N559_3724	KPN2242_05870	A79E_3638	KPHS_14370
KPK_3968	N559_3717	KPN2242_05910	A79E_3630	KPHS_14450
KPK_3972	N559_3720	KPN2242_05890	A79E_3634	KPHS_14410
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KPK_3975	N559_3723	KPN2242_05875	A79E_3637	KPHS_14380
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KPK_2690	N559_2629	KPN2242_11295	A79E_2547	KPHS_26150
KPK_3197	N559_3036	KPN2242_09340	A79E_2942	KPHS_21440
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-	-	-	A79E_1705	KPHS_34670
-	-	-	A79E_1706	KPHS_34660
-	-	-	A79E_1707	KPHS_34650
-	-	-	A79E_1702	KPHS_34700
-	-	-	A79E_1708	KPHS_34640
-	-	-	A79E_1709	KPHS_34630
-	-	-	A79E_1711	KPHS_34610
-	-	-	A79E_1703	KPHS_34690
-	-	-	A79E_1704	KPHS_34680
-	-	-	A79E_1710	KPHS_34620
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-	-	-	A79E_3803	-
-	-	-	A79E_3795	-
-	-	-	A79E_3791	-
-	-	-	A79E_3790	-
-	-	-	A79E_3802	-
-	-	-	A79E_3804	-
KPK_1859	N559_1838	KPN2242_15070	A79E_1810	KPHS_34420
KPK_1513	N559_1616	KPN2242_16255	A79E_1465	KPHS_37040
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KPK_3061	N559_2923	KPN2242_09790	-	KPHS_23050
-	N559_2917	KPN2242_09815	-	KPHS_23120
-	N559_2916	KPN2242_09820	-	KPHS_23130
KPK_3063	N559_2925	KPN2242_09780	A79E_2833	KPHS_23030
KPK_3066	N559_2928	KPN2242_09765	A79E_2837	KPHS_23000
KPK_3064	N559_2926	KPN2242_09775	A79E_2835	KPHS_23020
-	N559_2915	KPN2242_09825	A79E_2824	KPHS_23140
-	N559_2914	KPN2242_09830	A79E_2823	KPHS_23150
KPK_3065	N559_2927	KPN2242_09770	A79E_2836	KPHS_23010
-	N559_2910	KPN2242_09845	A79E_2819	KPHS_23190
KPK_3057	N559_2918	KPN2242_09810	-	KPHS_23105
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-	N559_2912	KPN2242_09835	A79E_2821	KPHS_23170
-	N559_2911	KPN2242_09840	A79E_2820	KPHS_23180
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KPK_3069	N559_2931	KPN2242_09750	A79E_2840	KPHS_22970

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KPK_0939	-	-	-	-
KPK_0935	-	-	-	-
KPK_0937	-	-	-	-
KPK_0947	-	-	-	-
KPK_0945	-	-	-	-
KPK_0936	-	-	-	-
KPK_0938	-	-	-	-
KPK_0944	-	-	-	-
KPK_2040	N559_1999	-	A79E_1964	KPHS_32780
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KPK_2050	-	-	-	-
KPK_2051	-	KPN2242_14270	-	-
KPK_2058	N559_2032	KPN2242_14235	A79E_1989	KPHS_32440
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KPK_2042	N559_2001	KPN2242_14315	A79E_1966	KPHS_32760
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KPK_2056	N559_2030	KPN2242_14245	A79E_1987	KPHS_32460
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KPK_2043	N559_2002	KPN2242_14310	A79E_1967	KPHS_32750
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-	-	-	A79E_1663	-
-	-	-	A79E_1664	-
-	-	-	A79E_1665	-
-	-	-	A79E_1666	-
-	-	-	A79E_1667	-
-	-	-	A79E_1668	-
-	-	-	A79E_1669	-
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-	-	-	A79E_1677	-
-	-	-	A79E_1678	-

-	-	-	A79E 1679	-
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-	-	-	-	-
-	-	-	-	-

K.pneumoniae subsp. pneumoniae MGH 78578	K.pneumoniae subsp. pneumoniae NTUH-K2044	K.pneumoniae subsp. rhinoscleromatis SB3432	K.variicola At-22
chromosome (NC_009648)	chromosome (NC_012731)	chromosome (NC_021232)	chromosome (NC_013850)
KPN_03279	KP1_4561	KPR_1749	Kvar_0790
KPN_03278	KP1_4560	KPR_1750	Kvar_0791
KPN_03277	KP1_4558	KPR_1751	Kvar_0792
KPN_03276	KP1_4557	KPR_1753	Kvar_0793
KPN_03275	KP1_4555	KPR_1754	Kvar_0794
-	KP1_4551	KPR_1757	Kvar_0797
KPN_03273	KP1_4552	KPR_1756	Kvar_0796
KPN_03274	KP1_4554	KPR_1755	Kvar_0795
KPN_03287	KP1_4571	KPR_1742	Kvar_0778
KPN_03285	KP1_4567	KPR_1744	Kvar_0780
KPN_03289	KP1_4573	KPR_1740	Kvar_0776
KPN_03290	KP1_4574	KPR_1739	Kvar_0775
KPN_03286	KP1_4569	KPR_1743	Kvar_0779
KPN_03291	KP1_4575	KPR_1738	Kvar_0774
KPN_03292	KP1_4576	KPR_1737	Kvar_0773
KPN_03293	KP1_4577	KPR_1736	Kvar_0772
KPN_03288	KP1_4572	KPR_1741	Kvar_0777
KPN_03294	KP1_4578	KPR_1735	Kvar_0771
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KPN_02493;	KP1_3701;	KPR_1584;	Kvar_1548;
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KPN_02495;	KP1_3703;	KPR_1586;	Kvar_1550;
KPN_02496;	KP1_3704;	KPR_1587;	Kvar_1551;
KPN_02497;	KP1_3705;	KPR_1588;	Kvar_1552;
KPN_02499;	KP1_3706;	KPR_1589;	Kvar_1553;
KPN_02500;	KP1_3708;	KPR_1590;	Kvar_1554;
KPN_02501;	KP1_3709;	KPR_1591;	Kvar_1555;
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KPN_02503;	KP1_3712;	KPR_1593;	Kvar_1557;
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KPN_02507;	KP1_3716;	KPR_1597;	Kvar_1561;
KPN_02508;	KP1_3718;	KPR_1599;	Kvar_1562;
KPN_02509;	KP1_3719;	KPR_1600;	Kvar_1563
KPN_00444	KP1_1320	KPR_4198	Kvar_3937
KPN_00443	KP1_1319	KPR_4195	Kvar_3938
-	-	KPR_4897	-
-	-	KPR_4896	-
-	-	KPR_4895	-
-	-	KPR_4894	-
KPN_01108	KP1_2101	KPR_4893	Kvar_3272
KPN_00614	KP1_1560	-	Kvar_3754
KPN_00613	KP1_1559	-	Kvar_3755

KPN_00611	KP1_1557	-	Kvar_3757
KPN_00601	KP1_1546	-	Kvar_3767
KPN_00612	KP1_1558	-	Kvar_3756
KPN_00605	KP1_1550	-	Kvar_3763
KPN_00609	KP1_1555	-	Kvar_3759
KPN_00602	KP1_1547	-	Kvar_3766
KPN_00610	KP1_1556	-	Kvar_3758
KPN_00606	KP1_1551	-	Kvar_3762
KPN_00608	KP1_1553	-	Kvar_3760
KPN_00607	KP1_1552	-	Kvar_3761
KPN_00603	KP1_1548	-	Kvar_3765
-	KP1_3611	-	-
-	KP1_3612	KPR_1714	-
-	KP1_3613	KPR_1713	-
KPN_01678	KP1_2725	KPR_2579	Kvar_2645
KPN_01244	KP1_3609	KPR_2293	-
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-	KP1_3589	-	-
-	KP1_3588	-	-
-	KP1_3587	-	-
-	KP1_3592	-	-
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-	KP1_1359	-	-
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-	KP1_1372	-	-
-	KP1_1373	-	-
-	KP1_1360	-	-
-	KP1_1357	-	-
KPN_02421	KP1_3552	KPR_3371	Kvar_1686
KPN_02638	KP1_3872	KPR_2075	Kvar_1415
-	KP1_3619	KPR_1710*	-
-	-	KPR_2386	Kvar_2967
-	-	-	Kvar_2960
-	-	-	Kvar_2959
KPN_01328	KP1_2399	KPR_2384	Kvar_2969
KPN_01325	KP1_2396	KPR_2381	Kvar_2972
KPN_01327	KP1_2398	KPR_2383	Kvar_2970
KPN_01342	KP1_2413	-	Kvar_2958
KPN_01343	KP1_2414	-	Kvar_2957
KPN_01326	KP1_2397	KPR_2382	Kvar_2971
-	KP1_2421	-	Kvar_2954
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KPN_01347	KP1_2419	-	Kvar_2956
-	KP1_2420	-	Kvar_2955
KPN_01324	KP1_2395	KPR_2380	Kvar_2973
KPN_01329	KP1_2400	KPR_2385	Kvar_2968
KPN_01322	KP1_2392	KPR_2378	Kvar_2975

[illegible]

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-	-	-	-