

Supplementary Table 4: A list of all examined isolates included in our study with results of the toxigenic *tlf* cluster. Included are the respective Sample ID used also in figures, the species assignment from the blaOXY gene and the association. The number of missing alleles of the tilvalline cluster gives the number of missing numbers for the 12 genes in the following columns and was used to assign "yes", "no" or "yes (xxx missing)" in the column od toxicity based on genetic results. The cutoff for confirmed toxicity was more than 3 missing alleles.

No.	Species blaOXY	Sample ID	Association	ST	toxicity based on genetic results	Number of missing alleles of tilvalline cluster	Number of missing alleles of tilvalline cluster											
							NDX50_24820	NDX50_24830	NDX50_24835	NDX50_24840	NDX50_24845	NDX50_24850	NDX50_24855	NDX50_24865	NDX50_24870	NDX50_24810	NDX50_24815	NDX50_24825
0	<i>Klebsiella oxytoca</i>	Reference - AHC-6	Reference <i>tlf</i> gene cluster		yes	0	7	7	8	6	7	8	1	11	11	6	6	4
1	<i>Klebsiella michiganensis</i>	#306_neg	Graz strain collection	27	no	12	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)
2	<i>Klebsiella michiganensis</i>	#75_neg	Graz strain collection	11	no	12	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)
3	<i>Klebsiella michiganensis</i>	#15_neg	Graz strain collection	82	no	12	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)
4	<i>Klebsiella grimmontii</i>	25_pos	Graz strain collection	377	yes (hmoX missing)	1	11	11	12	8	10	12	13	15	13	9	9	1
5	<i>Klebsiella michiganensis</i>	#119_pos	Graz strain collection	35	yes (Small gene + hmoX missing)	2	4	3	4	4	4	4	6	7	4	4	3	3
6	<i>Klebsiella michiganensis</i>	#21_neg	Graz strain collection	40	no	12	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)
7	<i>Klebsiella oxytoca</i>	#19_neg	Graz strain collection	78	no	8	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)
8	<i>Klebsiella grimmontii</i>	#311_pos	Graz strain collection	216	yes (hmoX missing)	1	1	1	1	1	1	1	3	3	3	3	3	1
9	<i>Klebsiella pasteurii</i>	#335_pos	Graz strain collection	7	yes (Small gene + hmoX missing)	2	12	12	13	9	11	13	16	14	9	9	(not found)	5
10	<i>Klebsiella michiganensis</i>	#21_neg	Graz strain collection	80	no	12	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)
11	<i>Klebsiella oxytoca</i>	#118_pos	Graz strain collection	19	yes	0	2	2	2	2	2	2	3	4	2	1	1	2
12	<i>Klebsiella oxytoca</i>	#218_neg	Graz strain collection	58	no	8	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	2	4	2	4	(not found)
13	<i>Klebsiella oxytoca</i>	S10_Klebs	Norway Outbreak (30)	179	yes	0	3	2	3	3	3	3	2	5	6	1	1	2
14	<i>Klebsiella oxytoca</i>	S11_Klebs	Norway Outbreak (30)	179	yes	0	3	2	3	3	3	3	2	5	6	1	1	2
15	<i>Klebsiella oxytoca</i>	S12_Klebs	Norway Outbreak (30)	179	yes	0	3	2	3	3	3	3	2	5	6	1	1	2
16	<i>Klebsiella oxytoca</i>	S13_Klebs	Norway Outbreak (30)	179	yes	0	3	2	3	3	3	3	2	5	6	1	1	2
17	<i>Klebsiella oxytoca</i>	S14_Klebs	Norway Outbreak (30)	179	yes	0	3	2	3	3	3	3	2	5	6	1	1	2
18	<i>Klebsiella oxytoca</i>	S15_Klebs	Norway Outbreak (30)	179	yes	0	3	2	3	3	3	3	2	5	6	1	1	2
19	<i>Klebsiella oxytoca</i>	S16_Klebs	Norway Outbreak (30)	179	yes	0	3	2	3	3	3	3	2	5	6	1	1	2
20	<i>Klebsiella oxytoca</i>	S17_Klebs	Norway Outbreak (30)	179	yes	0	3	2	3	3	3	3	2	5	6	1	1	2
21	<i>Klebsiella oxytoca</i>	S18_Klebs	Norway Outbreak (30)	179	yes	0	3	2	3	3	3	3	2	5	6	1	1	2
22	<i>Klebsiella oxytoca</i>	S19_Klebs	Norway Outbreak (30)	179	yes	0	3	2	3	3	3	3	2	5	6	1	1	2
23	<i>Klebsiella oxytoca</i>	S1_S12_Klebs	Norway Outbreak (30)	179	yes	0	3	2	3	3	3	3	2	5	6	1	1	2
24	<i>Klebsiella oxytoca</i>	S2_S11_Klebs	Norway Outbreak (30)	179	yes	0	3	2	3	3	3	3	2	5	6	1	1	2
25	<i>Klebsiella oxytoca</i>	S6_Klebs	Norway Outbreak (30)	179	yes	0	3	2	3	3	3	3	2	5	6	1	1	2
26	<i>Klebsiella oxytoca</i>	S7_Klebs	Norway Outbreak (30)	179	yes	0	3	2	3	3	3	3	2	5	6	1	1	2
27	<i>Klebsiella oxytoca</i>	S8_Klebs	Norway Outbreak (30)	179	yes	0	3	2	3	3	3	3	2	5	6	1	1	2
28	<i>Klebsiella oxytoca</i>	S9_Klebs	Norway Outbreak (30)	179	yes	0	3	2	3	3	3	3	2	5	6	1	1	2
29	<i>Klebsiella oxytoca</i>	H4_S7_Klebs	Norway Outbreak (30)	179	yes	0	3	2	3	3	3	3	2	5	6	1	1	2
30	<i>Klebsiella oxytoca</i>	H4_S8_Klebs	Norway Outbreak (30)	179	yes	0	3	2	3	3	3	3	2	5	6	1	1	2
31	<i>Klebsiella oxytoca</i>	H4_S9_Klebs	Norway Outbreak (30)	179	yes	0	3	2	3	3	3	3	2	5	6	1	1	2
32	<i>Klebsiella oxytoca</i>	I7_Klebs	Norway Outbreak (30)	179	yes	0	3	2	3	3	3	3	2	5	6	1	1	2
33	<i>Klebsiella michiganensis</i>	NICU-1_S10_Klebs	Norway Outbreak (30)	missing	no	12	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)
34	<i>Klebsiella oxytoca</i>	NICU-2_Klebs	Norway Outbreak (30)	178	yes	0	5	5	6	3	3	6	4	9	9	6	5	2
35	<i>Klebsiella grimmontii</i>	NICU-3_Klebs	Norway Outbreak (30)	215	yes (hmoX missing)	1	8	8	9	7	1	9	(not found)	12	12	8	7	1
36	<i>Klebsiella grimmontii</i>	NICU-4_Klebs	Norway Outbreak (30)	467	yes (hmoX missing)	1	10	10	11	1	9	11	(not found)	14	12	7	8	1
37	<i>Klebsiella grimmontii</i>	NICU-5_Klebs	Norway Outbreak (30)	168	yes (hmoX missing)	1	9	9	10	1	8	10	(not found)	13	3	3	3	1
38	<i>Klebsiella michiganensis</i>	E1a_S4_Klebs	Norway Outbreak (30)	202	no	12	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)
39	<i>Klebsiella michiganensis</i>	E1b_S18_Klebs	Norway Outbreak (30)	202	no	12	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)
40	<i>Klebsiella grimmontii</i>	NZ_AP014951	Norway Outbreak Reference	263	yes (hmoX missing)	1	6	6	7	5	6	7	(not found)	10	10	7	3	1
41	<i>Klebsiella oxytoca</i>	O1-S10-66_Patient2	Graz Outbreak 2010 (4)	199	no	8	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	1	1	1	1	(not found)
42	<i>Klebsiella oxytoca</i>	O1-S10-67_Patient1	Graz Outbreak 2010 (4)	199	no	8	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	1	1	1	1	(not found)
43	<i>Klebsiella oxytoca</i>	O1-S10-68_Patient3	Graz Outbreak 2010 (4)	199	no	8	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	1	1	1	1	(not found)
44	<i>Klebsiella oxytoca</i>	O1-S10-74_Patient4	Graz Outbreak 2010 (4)	199	no	8	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	1	1	1	1	(not found)
45	<i>Klebsiella oxytoca</i>	O1-S11-17_Patient5	Graz Outbreak 2010 (4)	199	no	8	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	1	1	1	1	(not found)
46	<i>Klebsiella oxytoca</i>	O1-33_Control1	Graz Outbreak 2010 (4)	199	no	8	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	1	1	1	1	(not found)
47	<i>Klebsiella oxytoca</i>	O1-S11-55_Control2	Graz Outbreak 2010 (4)	199	no	8	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	7	1	1	1	(not found)
48	<i>Klebsiella oxytoca</i>	O2_Patient10_K10	Graz Outbreak 2013 (7)	199	no	8	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	1	1	1	1	(not found)
49	<i>Klebsiella oxytoca</i>	O2_Patient11_K11	Graz Outbreak 2013 (7)	199	no	8	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	1	1	1	1	(not found)
50	<i>Klebsiella oxytoca</i>	O2_Patient12_K12	Graz Outbreak 2013 (7)	199	no	8	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	1	1	1	1	(not found)
51	<i>Klebsiella oxytoca</i>	O2_Patient1_K1	Graz Outbreak 2013 (7)	199	no	8	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	1	1	1	1	(not found)
52	<i>Klebsiella oxytoca</i>	O2_Patient3_K3	Graz Outbreak 2013 (7)	199	no	8	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	1	1	1	1	(not found)
53	<i>Klebsiella oxytoca</i>	O2_Patient5_K5	Graz Outbreak 2013 (7)	199	no	8	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	1	1	1	1	(not found)
54	<i>Klebsiella oxytoca</i>	O2_Patient9_K9	Graz Outbreak 2013 (7)	199	no	8	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	1	1	1	1	(not found)
55	<i>Klebsiella oxytoca</i>	O2_Sinks19_Kow13	Graz Outbreak 2013 (7)	199	no	8	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	1	1	1	1	(not found)
56	<i>Klebsiella oxytoca</i>	O2_Sinks27_Kow14	Graz Outbreak 2013 (7)	199	no	8	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	1	1	1	1	(not found)
57	<i>Klebsiella oxytoca</i>	O2_Sinks39_Kow16	Graz Outbreak 2013 (7)	199	no	8	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	1	1	1	1	(not found)
58	<i>Klebsiella oxytoca</i>	O2_Sinks53_Kow17	Graz Outbreak 2013 (7)	199	no	8	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	1	1	1	1	(not found)
59	<i>Klebsiella oxytoca</i>	O2_Control217	Graz Outbreak 2013 (7)	199	no	8	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	1	1	1	1	(not found)
60	<i>Klebsiella oxytoca</i>	O2_Control353	Graz Outbreak 2013 (7)	199	no	8	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	1	1	1	1	(not found)
61	<i>Klebsiella oxytoca</i>	O2_Control402	Graz Outbreak 2013 (7)	199	no	8	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	(not found)	1	1	1	1	(not found)
62	<i>Klebsiella pasteurii</i>	SB-24	NCBI Download	322	yes (Small gene + hmoX missing)	2	13	13	13	9	11	14	(not found)	17	15	9	(not found)	5
63	<i>Klebsiella grimmontii</i>	SS141 NZ_CP044527 NZ_CP0	NCBI Download	missing	yes (hmoX missing)	1	15	15	9	7	1	16	(not found)	20	12	8	7	1
64	<i>Klebsiella pasteurii</i>	Kox205	NCBI Download	300	yes (Small gene + hmoX missing)	2	14	14	14	10	11	15	(not found)	18	15	10	(not found)	5
65	<i>Klebsiella grimmontii</i>	RHBSTW-00054 CP055412 CF	NCBI Download	215	yes (hmoX missing)	1	15	8	15	7	1	16	(not found)	19	12	8	7	1