

Additional Table 2: Similarity Matrix for the *luxI* homologs. Percentage sequence similarity (lower left) and number of nucleotide differences (top right).

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1 <i>A. hydrophila</i> (X89469)		74	13	47	74	178	69	184	148	41	63	41	33	35	46	39	181	40	181
2 <i>A. salmonicida</i> (U65741)	88.14		70	53	13	176	44	179	147	67	77	72	60	62	77	64	179	59	178
3 <i>A. hydrophila</i> ATCC 7966 ^T	97.90	88.67		43	70	179	66	182	143	42	60	40	34	36	47	40	179	35	179
4 <i>A. bestiarum</i> ATCC 51108 ^T	92.47	91.43	93.11		54	184	43	187	147	55	67	57	52	54	63	58	183	46	184
5 <i>A. hydrophila</i> CDC 0434-84	88.14	97.90	88.67	91.34		171	44	176	144	66	78	70	59	61	76	63	178	58	177
6 <i>A. sobria</i> CIP 7433 ^T	71.43	71.47	71.27	70.47	72.29		179	61	99	177	182	178	172	173	185	171	64	176	60
7 <i>A. popoffii</i> LMG 17541 ^T	88.83	92.87	89.42	93.11	92.87	71.27		181	152	71	82	73	65	67	80	69	181	60	180
8 <i>A. culicicola</i> MTCC 3249 ^T	70.47	71.27	70.50	69.68	71.47	90.45	70.66		129	180	186	184	177	178	191	176	10	180	6
9 <i>A. veronii</i> bt <i>sobria</i> AE-21	76.24	76.41	77.05	76.41	76.66	84.36	75.36	79.61		144	153	145	146	147	154	149	130	143	127
10 <i>Aeromonas</i> sp. AE-51	93.42	89.24	93.26	91.17	89.41	71.27	88.49	71.06	76.62		35	20	19	17	26	19	178	25	178
11 <i>A. hydrophila</i> AE-53	89.76	87.48	90.34	89.21	87.44	70.36	86.67	70	75.32	94.35		43	36	36	40	38	183	39	183
12 <i>A. hydrophila</i> AE-57	93.43	88.46	93.53	90.78	88.67	71.43	88.30	70.47	76.49	96.76	93.07		26	24	17	28	181	30	181
13 <i>A. hydrophila</i> AN-1	94.67	90.38	94.50	91.59	90.45	72.39	89.49	71.31	76.33	96.92	94.21	95.79		2	29	6	174	20	174
14 <i>A. hydrophila</i> AN-2	94.39	90.06	94.23	91.34	90.23	72.23	89.26	71.43	76.41	97.27	94.21	96.15	99.68		27	4	175	22	175
15 <i>Aeromonas</i> sp. AN-24	92.56	87.54	92.47	89.81	87.70	70.30	87.18	69.34	75.28	95.79	93.50	97.27	95.35	95.63		31	188	35	188
16 <i>A. hydrophila</i> AN-32	93.69	89.64	93.53	90.62	89.81	72.29	88.83	71.47	76.08	96.92	93.82	95.47	99.04	99.36	95.03		173	26	173
17 <i>A. trota</i> AN-35	70.66	71.27	71.27	70.33	71.43	89.88	70.66	98.44	79.46	71.38	70.48	70.66	72.07	71.63	69.52	72.23		177	4
18 <i>Aeromonas</i> sp. AN-46	93.53	90.45	94.39	92.56	90.62	71.47	90.38	71.11	77.05	95.95	93.66	95.19	96.76	96.48	94.39	95.79	71.31		177
19 <i>A. veronii</i> CECT 4246	70.66	71.43	71.27	70.47	71.31	90.52	71.11	99.07	80.13	71.38	70.48	70.66	72.07	71.63	69.52	72.23	99.37	71.31	
20 <i>A. bestiarum</i> LMG 13448	70.66	71.43	71.27	70.47	71.31	90.52	71.11	99.07	80.13	71.38	70.48	70.66	72.07	71.63	69.52	72.23	99.37	71.31	100
21 <i>A. bestiarum</i> LMG 13662	71.11	71.31	71.43	70.33	71.47	90.45	71.27	98.90	79.77	71.27	70.36	71.11	72.23	72.07	69.68	72.39	99.53	71.47	99.84
22 <i>A. salmonicida</i> CECT 894 ^T	88.51	99.52	89.26	91.91	98.08	71.63	93.43	71.43	76.33	89.63	87.64	88.83	90.78	90.45	88.14	90.23	71.43	91.02	71.31
23 <i>Aeromonas</i> sp. Manipal A1	94.39	90.45	94.23	91.59	90.62	72.44	89.26	71.47	76.49	97.27	94.47	96.48	98.71	98.40	96.31	97.73	72.23	96.48	72.23
24 <i>Aeromonas</i> sp. BJMC	94.39	90.62	94.50	91.91	90.78	72.23	89.64	71.27	76.49	97.43	94.36	96.61	98.54	98.54	95.79	97.90	71.47	96.92	71.47
25 <i>A. hydrophila</i> ATCC 49140	98.24	88.46	98.40	92.72	88.67	70.33	89.42	70.15	76.08	93.26	90.02	93.53	94.82	94.50	92.72	93.85	70.47	94.07	70.47
26 <i>A. bestiarum</i> ATCC 13444	88.51	97.43	88.83	91.43	99.19	72.23	93.11	71.47	76.33	89.47	87.48	88.83	90.62	90.38	87.86	90.06	71.43	90.78	71.31
27 <i>A. bestiarum</i> ATCC 23211	88.46	96.61	88.67	91.02	98.08	72.07	92.72	71.31	76.49	89.47	87.48	88.83	90.45	90.23	87.86	89.81	71.27	90.78	71.43
28 <i>A. bestiarum</i> ATCC 23213	92.30	91.91	92.47	97.27	91.75	70.66	94.07	70.33	76.33	90.60	88.24	90.23	91.18	90.78	89.42	90.23	70.33	91.91	70.50
29 <i>A. hydrophila</i> RK 217215	93.85	90.06	93.69	91.34	89.81	72.07	89.42	71.43	76.66	96.47	95.17	95.47	97.90	97.58	95.03	96.92	71.63	96.31	71.63
30 <i>Aeromonas</i> sp. 1m	95.35	90.62	94.82	92.47	90.45	71.63	90.23	71.11	77.37	96.60	93.50	96.15	98.08	98.08	95.63	97.43	71.31	97.43	71.31
31 <i>Aeromonas</i> sp. 12m	95.19	90.45	94.67	92.30	90.38	71.31	90.06	70.50	77.05	96.15	93.07	95.63	97.90	97.58	95.19	96.92	71.27	97.27	71.27
32 <i>Aeromonas</i> sp. 13m	97.43	88.51	97.90	92.47	88.51	70.30	88.83	69.52	76.41	92.55	90.02	93.27	93.85	93.53	92.15	92.87	70.30	93.53	70.30
33 <i>Aeromonas</i> sp. 15m	95.47	90.78	95.03	92.56	90.62	71.63	90.38	71.11	77.37	96.47	93.40	95.95	98.24	97.90	95.47	97.27	71.31	97.58	71.31
34 <i>Aeromonas</i> sp. 19m	95.03	90.38	94.50	92.15	90.23	71.63	89.81	71.11	77.37	96.30	93.50	95.47	97.73	97.43	95.35	97.12	71.31	97.12	71.31
35 <i>A. culicicola</i> 2238A	70.66	71.43	71.27	70.47	71.31	90.52	71.11	98.44	80.44	71.38	70	70.66	71.63	71.47	69.52	72.07	98.12	71.43	98.74
36 <i>A. culicicola</i> 3037T	70.50	71.27	71.11	70.30	71.43	90.30	70.66	98.12	80.13	71.22	69.54	70.50	71.47	71.31	69.36	71.63	97.79	71.27	98.44

	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	
1	<i>A. hydrophila</i> (X89469)	181	180	71	35	35	11	71	72	48	38	29	30	16	28	31	181	182
2	<i>A. salmonicida</i> (U65741)	178	177	3	59	58	72	16	21	50	62	58	59	71	57	60	178	179
3	<i>A. hydrophila</i> ATCC 7966 ^T	179	178	67	36	34	10	69	70	47	39	32	33	13	31	34	179	180
4	<i>A. bestiarum</i> ATCC 51108 ^T	184	183	50	52	50	45	53	56	17	54	47	48	47	46	49	184	185
5	<i>A. hydrophila</i> CDC 0434-84	177	176	12	58	57	70	5	12	51	63	59	60	71	58	61	177	178
6	<i>A. sobria</i> CIP 7433 ^T	60	61	175	170	173	183	173	174	181	174	175	177	185	175	175	60	62
7	<i>A. popoffii</i> LMG 17541 ^T	180	179	41	67	64	66	43	45	37	66	61	62	69	60	63	180	181
8	<i>A. culicicola</i> MTCC 3249 ^T	6	7	178	176	179	186	176	177	183	178	180	182	188	180	180	10	12
9	<i>A. veronii</i> bt <i>sobria</i> AE-21	127	128	146	145	145	149	146	145	146	144	141	143	147	141	141	125	127
10	<i>Aeromonas</i> sp. AE-51	178	177	64	17	16	42	65	65	58	22	21	24	46	22	23	178	179
11	<i>A. hydrophila</i> AE-53	183	182	76	34	35	62	77	77	73	30	40	43	62	41	40	186	187
12	<i>A. hydrophila</i> AE-57	181	180	69	22	21	40	69	69	61	28	24	27	42	25	28	181	182
13	<i>A. hydrophila</i> AN-1	174	173	57	8	9	32	58	59	55	13	12	13	38	11	14	175	176
14	<i>A. hydrophila</i> AN-2	175	174	59	10	9	34	60	61	57	15	12	15	40	13	16	176	177
15	<i>Aeromonas</i> sp. AN-24	188	187	74	23	26	45	75	75	66	31	27	30	49	28	29	188	189
16	<i>A. hydrophila</i> AN-32	173	172	61	14	13	38	62	63	61	19	16	19	44	17	18	174	175
17	<i>A. trota</i> AN-35	4	3	178	173	176	184	178	179	183	175	177	179	185	177	177	12	14
18	<i>Aeromonas</i> sp. AN-46	177	176	56	22	19	37	57	57	50	23	16	17	40	15	18	178	179
19	<i>A. veronii</i> CECT 4246	0	1	177	173	176	184	177	178	182	175	177	179	185	177	177	8	10
20	<i>A. bestiarum</i> LMG 13448		1	177	173	176	184	177	178	182	175	177	179	185	177	177	8	10
21	<i>A. bestiarum</i> LMG 13662	99.84		176	172	175	183	176	177	181	174	176	178	184	176	176	9	11
22	<i>A. salmonicida</i> CECT 894 ^T	71.31	71.47		56	55	69	13	18	47	61	55	56	68	54	57	177	178
23	<i>Aeromonas</i> sp. Manipal A1	72.23	72.39	91.02		7	34	57	59	55	13	14	15	38	13	16	173	174
24	<i>Aeromonas</i> sp. BJMC	71.47	71.63	91.18	98.87		34	56	56	53	16	13	16	36	14	17	176	177
25	<i>A. hydrophila</i> ATCC 49140	70.47	70.33	88.83	94.50	94.50		67	68	45	38	28	29	12	27	30	184	185
26	<i>A. bestiarum</i> ATCC 13444	71.31	71.47	97.90	90.78	91.02	89.26		7	48	60	56	57	68	55	58	177	178
27	<i>A. bestiarum</i> ATCC 23211	71.43	71.31	97.12	90.45	91.02	89.10	98.87		51	60	57	58	69	56	59	178	179
28	<i>A. bestiarum</i> ATCC 23213	70.50	70.66	92.47	91.18	91.43	92.72	92.30	91.75		55	48	49	48	47	50	182	183
29	<i>A. hydrophila</i> RK 217215	71.63	72.07	90.23	97.90	97.43	93.85	90.38	90.38	91.18		19	20	42	18	21	176	177
30	<i>Aeromonas</i> sp. 1m	71.31	71.47	91.18	97.73	97.90	95.47	91.02	90.78	92.30	96.92		3	33	1	4	177	178
31	<i>Aeromonas</i> sp. 12m	71.27	71.43	91.02	97.58	97.43	95.35	90.78	90.62	92.15	96.76	99.52		34	2	5	179	180
32	<i>Aeromonas</i> sp. 13m	70.30	70.47	89.10	93.85	94.23	98.08	89.10	88.83	92.30	93.27	94.67	94.50		32	35	185	186
33	<i>Aeromonas</i> sp. 15m	71.31	71.47	91.34	97.90	97.73	95.63	91.18	91.02	92.47	97.12	99.84	99.68	94.82		3	177	178
34	<i>Aeromonas</i> sp. 19m	71.31	71.47	90.78	97.43	97.27	95.19	90.62	90.45	91.91	96.61	99.36	99.19	94.39	99.52		177	178
35	<i>A. culicicola</i> 2238A	98.74	98.58	71.31	72.23	71.47	70.47	71.31	71.43	70.50	71.47	71.31	71.27	70.30	71.31	71.31		2
36	<i>A. culicicola</i> 3037T	98.44	98.28	71.43	72.07	71.31	70.30	71.43	71.27	70.33	71.31	71.43	71.11	70.15	71.43	71.43	99.69	