

Supplementary Table S4. % Identity matrix of the *tuf* gene sequences between isolated and reference strains.

Divergence	ETC1 75	<i>Limosilactobacillus reuteri</i> PNG008	<i>Lactobacillus delbrueckii</i> subsp. <i>jakobsenii</i>	<i>Lactobacillus delbrueckii</i> subsp. <i>delbrueckii</i>	<i>Lactobacillus iners</i> LI335	<i>Lactobacillus crispatus</i> DC21.1	<i>Lactobacillus acidophilus</i> La-14	<i>Lactobacillus helveticus</i> DSM 20075	<i>Lactobacillus amylovorus</i> GRL1118	<i>Lactobacillus jensenii</i> ATCC 25258	ETC1 50	ETC1 87	<i>Lactobacillus taiwanensis</i> CLG01	<i>Lactobacillus gasseri</i> BIO6369	<i>Lactobacillus johnsonii</i> GHZ10a
ETC175	100.00	42.65	41.91	41.91	42.65	40.44	40.44	41.18	41.18	40.44	37.90	41.88	41.91	41.91	41.18
<i>Limosilactobacillus reuteri</i> PNG008	42.65	100.00	80.44	80.18	81.02	83.29	82.45	82.70	82.96	83.96	82.78	83.30	85.22	85.31	84.97
<i>Lactobacillus delbrueckii</i> subsp. <i>jakobsenii</i>	41.91	80.44	100.00	99.66	82.79	88.16	88.16	88.50	88.66	86.06	83.14	83.66	85.39	85.81	86.06
<i>Lactobacillus delbrueckii</i> subsp. <i>delbrueckii</i>	41.91	80.18	99.66	100.00	82.79	87.99	87.99	88.33	88.50	86.23	83.05	83.57	85.31	85.73	85.98
<i>Lactobacillus iners</i> LI335	42.65	81.02	82.79	82.79	100.00	84.63	84.13	84.21	84.05	85.47	85.84	86.37	88.92	89.00	88.66
<i>Lactobacillus crispatus</i> DC21.1	40.44	83.29	88.16	87.99	84.63	100.00	95.30	96.64	96.73	88.83	86.74	87.36	89.50	90.09	89.59
<i>Lactobacillus acidophilus</i> La-14	40.44	82.45	88.16	87.99	84.13	95.30	100.00	96.56	96.89	89.84	85.66	86.10	88.41	89.08	88.50
<i>Lactobacillus helveticus</i> DSM 20075	41.18	82.70	88.50	88.33	84.21	96.64	96.56	100.00	97.40	88.92	86.29	86.91	89.08	89.34	89.17
<i>Lactobacillus amylovorus</i> GRL1118	41.18	82.96	88.66	88.50	84.05	96.73	96.89	97.40	100.00	89.34	86.02	86.64	88.66	89.34	88.92

<i>Lactobacillus jensenii</i> ATCC 25258	40.44	83.96	86.06	86.23	85.47	88.83	89.84	88.92	89.34	100.00	87.83	88.36	90.18	90.34	90.60
ETC150	37.90	82.78	83.14	83.05	85.84	86.74	85.66	86.29	86.02	87.83	100.00	98.00	95.13	95.13	96.84
ETC187	41.88	83.30	83.66	83.57	86.37	87.36	86.10	86.91	86.64	88.36	98.00	100.00	95.49	95.49	97.20
<i>Lactobacillus taiwanensis</i> CLG01	41.91	85.22	85.39	85.31	88.92	89.50	88.41	89.08	88.66	90.18	95.13	95.49	100.00	98.66	98.15
<i>Lactobacillus gasseri</i> BIO6369	41.91	85.31	85.81	85.73	89.00	90.09	89.08	89.34	89.34	90.34	95.13	95.49	98.66	100.00	98.15
<i>Lactobacillus johnsonii</i> GHZ10a	41.18	84.97	86.06	85.98	88.66	89.59	88.50	89.17	88.92	90.60	96.84	97.20	98.15	98.15	100.00