Supplementary Fig. 1:
Table with all 266 C. jejuni isolates included in this study in the order deduced from the MLST-based UPGMA-tree.

isolate	origin	MLST-ST	MLST-CC	*cjj1367*	*cj1585c*	*dtlp7*	*dmsA*	*ansB*	*ggt*	group
bovC401	cow	21	21	1	0	1	0	0	0	1A
huBfR4012	human	21	21	1	1	1	0	0	0	1A
meC0318	turkey	21	21	1	1	1	0	0	0	1A
bov137	cow	21	21	1	1	1	0	0	0	1A
bovC086	cow	21	21	1	1	1	0	0	0	1A
gal518	chicken	21	21	1	1	1	0	0	0	1A
galBfR3935	chicken	21	21	1	1	1	0	0	0	1A
huC26	human	21	21	1	1	1	0	0	0	1A
gal7089RP	chicken	21	21	1	1	0	0	0	0	1A
huA18	human	21	21	1	1	1	0	0	0	1A
gal7255BY	chicken	21	21	1	1	1	0	0	0	1A
bovC567	cow	21	21	1	1	1	0	0	0	1A
bov79	cow	21	21	1	1	1	0	0	0	1A
bovC404	cow	21	21	1	1	1	0	0	0	1A
bovC536	cow	21	21	1	1	1	0	0	0	1A
bovC248	cow	21	21	1	0	1	1	0	0	1A
bovC403	cow	4667	21	1	1	1	0	0	0	1A
huBfR3883	human	21	21	1	1	1	0	0	0	1A
bovC486	cow	21	21	1	1	1	1	0	0	1A
meC0001-1	turkey	21	21	0	1	0	0	0	0	1A
huBfR3869	human	21	21	1	1	1	0	0	0	1A
bovC399	cow	21	21	1	0	1	1	0	0	1A
bovC402	cow	21	21	1	0	1	0	0	0	1A
huE01	human	21	21	1	1	1	0	0	0	1A
bovC397	cow	21	21	1	1	1	1	0	0	1A
huBfR3872	human	21	21	1	1	1	0	0	0	1A
meC0287	turkey	21	21	1	1	1	0	0	0	1A
bovC250	cow	21	21	1	0	1	0	0	0	1A
huBfR3898	human	21	21	1	1	1	0	0	0	1A
huC19	human	4648	21	1	1	0	0	0	0	1A
huBfR3866	human	53	21	1	1	1	0	0	0	1A
huBfR3881	human	53	21	1	1	1	0	0	0	1A
huBfR3876	human	53	21	1	1	1	0	0	0	1A
huB02	human	53	21	1	1	1	0	0	0	1A
huB25	human	53	21	1	1	1	0	0	0	1A
huC18	human	53	21	0	1	1	0	0	0	1A
bov207	cow	53	21	1	1	1	0	0	0	1A
huBfR3865	human	53	21	1	1	1	0	0	0	1A
huC11	human	2845	21	1	1	0	0	0	0	1B
galBfR3922	chicken	46	206	1	1	0	0	0	0	1B
galBfR3926	chicken	46	206	1	1	0	0	0	0	1B
galBfR3951	chicken	46	206	1	1	0	0	0	0	1B
huA24	human	19	21	1	1	0	0	0	0	1B
bovC508	cow	19	21	1	1	0	0	0	0	1B
huB06	human	4631	446	1	1	0	0	0	0	1B
gal7252NI	chicken	50	21	1	1	0	0	0	0	1B
gal7278BB	chicken	50	21	1	1	0	0	0	0	1B
huB15	human	50	21	1	1	0	0	0	0	1B
huC23	human	50	21	1	1	0	0	0	0	1B
gal7297BB	chicken	50	21	1	1	0	0	0	0	1B
meC0133	turkey	50	21	1	1	1	0	0	0	1B
bov55	cow	50	21	1	1	0	0	0	0	1B
gal245	chicken	50	21	1	1	0	1	0	0	1B
meC0340	turkey	50	21	1	1	0	0	0	0	1B
huA31	human	50	21	1	1	0	0	0	0	1B
huC01	human	50	21	1	1	0	0	0	0	1B
gal7292BB	chicken	50	21	1	1	0	0	0	0	1B
meC0999	turkey	4673	21	1	1	0	0	0	0	1B
gal7240BW	chicken	4660	21	1	1	0	0	0	0	1B
bov127	cow	262	21	1	1	1	0	0	0	1B
bovC0148	cow	1704	21	1	1	0	0	0	0	1B
huB24	human	4639	21	1	1	1	1	0	0	1B
huB17	human	1823	21	1	1	1	0	0	0	1B
bovC0172	cow	1823	21	1	1	0	0	0	0	1B
meC0438	turkey	1823	21	0	1	1	0	0	0	1B
huB14	human	4635	21	1	1	1	1	0	0	1B
huC02	human	760	21	1	1	0	1	0	0	1B
meC0450	turkey	4672	21	0	1	0	0	0	0	1B

huC03	human	4640	21	1	1	0	0	0	0	1B
bov66	cow	4664	21	1	1	1	0	0	0	1B
gal7267BB	chicken	4661	21	1	1	0	0	0	0	1B
gal7280BY	chicken	4663	21	1	1	0	0	0	0	1B
huNCTC11168	human	43	21	1	1	1	0	0	0	1B
huA05	human	507	21	1	1	1	0	0	0	1B
huA17	human	221	206	1	1	0	0	0	0	1B
galHW6	chicken	2192	206	1	1	0	0	0	0	1B
galHW1	chicken	2192	206	1	1	0	0	0	0	1B
galHW5	chicken	2192	206	1	1	0	0	0	0	1B
huA02	human	4588	21	1	1	1	0	0	0	1B
huA21	human	4588	21	1	1	1	0	0	0	1B
huA03	human	1519	21	1	1	0	0	0	0	1B
huB09	human	4286	21	1	1	0	0	0	0	1B
huE04	human	48	48	1	1	0	1	0	0	1B
gal7073HE	chicken	48	48	1	1	0	0	0	0	1B
huB10	human	48	48	1	1	0	0	0	0	1B
bovC246	cow	48	48	1	1	0	0	0	0	1B
bovBfR3885	cow	48	48	1	1	0	0	0	0	1B
huC14	human	4645	48	1	1	0	0	0	0	1B
bovC0111	cow	3158	48	1	1	0	0	0	0	1B
bovC090	cow	3203	48	1	1	0	0	0	0	1B
huE05	human	4591	48	1	1	0	0	0	0	1B
huE06	human	4591	48	1	1	0	0	0	0	1B
bovC540	cow	38	48	1	0	1	0	0	0	1B
bovC539	cow	38	48	1	1	1	0	0	0	1B
bovC405	cow	38	48	1	1	1	0	0	0	1B
huA10	human	122	206	1	1	0	0	0	0	1B
huB18	human	122	206	1	1	0	1	0	0	1B
huA28	human	122	206	1	1	0	0	0	0	1B
galZH0097	chicken	122	206	1	1	0	0	0	0	1B
huA35	human	122	206	1	1	0	0	0	0	1B
huB08	human	4633	206	1	1	0	0	0	0	1B
huA13	human	3188	206	1	1	0	0	0	0	1B
gal7275RP	chicken	4662	48	1	1	0	0	0	0	1B
gal7289BY	chicken	4662	48	1	1	1	0	0	0	1B
huE16	human	4654	none	1	1	0	0	0	0	1B
huB07	human	4632	206	0	1	0	0	0	0	1B
huE13	human	4652	206	1	1	0	0	0	0	1B
huC17	human	4647	48	1	1	0	0	0	0	1B
bovC323	cow	4647	48	1	1	0	0	0	0	1B
huA34	human	572	206	1	1	0	0	0	0	1B
bov159	cow	572	206	1	1	0	0	0	0	1B
huA26	human	572	206	1	1	0	0	0	0	1B
huA20	human	572	206	1	1	0	0	0	0	1B
gal7060SN	chicken	572	206	1	1	0	0	0	0	1B
galHS06	chicken	4657	none	1	1	0	0	0	0	1B
galHS13	chicken	3529	none	1	1	0	0	0	0	1B
galHS04	chicken	3529	none	1	1	0	0	0	0	1B
galHS12	chicken	3529	none	1	1	0	0	0	0	1B
meC0128	turkey	2175	none	1	1	0	0	0	0	1B
huBfR3933	human	563	177	1	0	0	0	1	0	1B
huE02	human	49	49	1	1	0	0	0	0	1B
galBfR3948	chicken	49	49	1	1	0	0	0	0	1B
huB12	human	4634	49	1	1	0	0	0	0	1B
huA33	human	4590	49	1	1	0	0	0	0	1B
huA06	human	4587	49	1	1	0	0	0	0	1B
huC16	human	4646	460	1	1	0	0	0	0	1B
huA14	human	380	none	1	1	0	0	0	0	1B
huB22	human	380	none	1	1	0	0	0	0	1B
galHR1	chicken	2897	none	1	1	0	0	0	0	1B
galHR5	chicken	2897	none	1	1	0	0	0	0	1B
galHR4	chicken	2897	none	1	1	0	0	0	0	1B
meC0282	turkey	450	446	1	1	0	0	0	0	1B
huE12	human	450	446	1	1	0	0	0	0	1B
huB06	human	4631	446	1	1	0	0	0	0	1B
gal4116NI	chicken	450	446	1	1	0	0	0	0	1B
gal08B5018	chicken	22	22	1	1	0	1	1	1	2A
huBfR1764	human	22	22	0	0	0	1	1	1	2A
bovC117	cow	22	22	1	0	0	1	1	1	2A
huB23	human	22	22	1	0	0	1	1	1	2A
huE19	human	22	22	1	0	0	1	1	1	2A

galI08B5020	chicken	22	22	1	0	0	1	1	1	2A
galBfR3874	chicken	1739	22	1	0	0	1	1	1	2A
huB21	human	4638	22	1	0	0	1	1	0	2A
huA30	human	447	42	1	0	0	1	0	0	2A
galBfR4327	chicken	1003	45	0	0	0	1	0	0	2A
bovC171	cow	4669	none	1	0	0	1	0	0	2A
hu81-176	human	913	42	1	0	0	1	1	1	2A
bovC084	cow	4670	42	1	0	0	1	1	0	2A
huE18	human	4592	42	1	0	1	1	0	0	2A
huBfR3918	human	42	42	1	0	0	1	1	1	2A
gal7107BY	chicken	42	42	1	0	0	1	1	0	2A
bovC537	cow	42	42	1	1	0	1	1	0	2A
galBfR3950	chicken	564	283	0	0	0	1	1	1	2B
huB05	human	137	45	0	0	0	1	1	1	2B
galHB7	chicken	4593	45	0	0	0	1	1	1	2B
huE21	human	137	45	0	0	0	1	1	1	2B
huBfR4010	human	483	45	0	0	0	0	1	1	2B
galBfR3914	chicken	295	45	0	0	0	1	1	1	2B
huA23	human	267	283	0	0	0	1	1	1	2B
huBfR3907	human	267	283	0	0	0	1	1	1	2B
huC08	human	383	283	0	0	0	1	1	1	2B
huBfR1780	human	583	45	0	0	0	1	1	1	2B
huC13	human	583	45	0	0	0	1	0	1	2B
huBfR1781	human	583	45	0	0	0	1	1	1	2B
gal356	chicken	230	45	1	0	0	1	1	1	2B
huE14	human	4653	45	1	1	0	1	1	1	2B
huA32	human	538	45	0	0	0	1	1	1	2B
huE17	human	4655	45	1	0	0	0	1	1	2B
huA19	human	11	45	1	0	0	0	1	1	2B
galBfR4009	chicken	3036	45	0	0	0	1	1	1	2B
galBfR3944	chicken	45	45	0	0	0	1	0	0	2B
huBfR3868	human	45	45	0	0	0	1	1	1	2B
huBfR3880	human	45	45	0	0	0	1	1	1	2B
huC12	human	45	45	0	0	0	1	0	1	2B
huBfR3867	human	45	45	0	0	0	1	1	1	2B
huBfR3895	human	45	45	0	0	0	1	1	1	2B
huC15	human	45	45	0	0	0	0	1	1	2B
galBfR4232	chicken	45	45	0	0	0	1	1	0	2B
meC0408	turkey	45	45	0	0	0	1	1	1	2B
bovBfR3929	cow	45	45	0	0	0	1	1	1	2B
huC27	human	45	45	0	0	0	1	1	1	2B
galBfR3949	chicken	45	45	0	0	0	1	0	0	2B
huBfR4007	human	45	45	0	0	0	1	1	1	2B
bovBfR3899	cow	45	45	0	0	0	1	1	0	2B
galHS11	chicken	45	45	1	0	0	1	1	1	2B
huBfR3894	human	45	45	0	0	0	1	0	0	2B
huE08	human	4625	none	1	0	0	1	0	0	singleton
meC1541	turkey	4430	none	0	0	0	1	0	0	singleton
huB04	human	475	48	0	1	0	0	0	0	3A
huB20	human	4637	52	1	1	0	0	0	0	3A
huC25	human	775	52	1	1	0	0	0	0	3A
huA22	human	4630	52	1	1	0	0	0	0	3A
meC0847	turkey	2091	52	0	1	0	0	0	0	3A
huC10	human	4644	none	1	1	0	0	0	0	3A
gal7090TH	chicken	2274	none	1	1	0	0	0	0	3A
meC0281	turkey	828	828	0	1	0	0	0	0	3A
meC0467	turkey	828	828	1	1	1	0	0	0	3A
meC0280	turkey	828	828	0	1	0	0	0	0	3A
huC04	human	4641	607	1	1	0	0	0	0	3A
huC05	human	4642	353	1	1	0	0	0	0	3A
huC09	human	1287	1287	1	0	0	1	0	0	3A
huA09	human	354	354	1	1	0	0	0	0	3A
huB16	human	354	354	1	1	0	0	0	0	3A
huE07	human	4650	354	1	1	0	0	0	0	3A
huB03	human	535	460	1	1	0	0	0	0	3A
meC0374	turkey	824	257	1	1	0	0	0	0	3A
huC20	human	51	443	1	1	0	0	0	0	3A
huC24	human	51	443	1	1	0	0	0	0	3A
meC0283	turkey	443	443	1	0	0	1	0	0	3A
huA11	human	2034	443	1	1	0	0	0	0	3A
galHS02	chicken	353	353	1	1	0	0	0	0	3A
galHS14	chicken	353	353	1	1	0	0	0	0	3A

gal7126RP	chicken	353	353	1	1	0	0	0	0	3A
galHS07	chicken	353	353	1	1	0	0	0	0	3A
galHS09	chicken	353	353	1	1	0	0	0	0	3A
galHS03	chicken	4656	353	1	1	0	1	0	0	3A
galHS08	chicken	4658	353	1	1	0	0	0	0	3A
huA29	human	658	658	1	1	0	0	0	0	3A
huC07	human	4643	658	1	1	0	0	0	0	3A
galHS05	chicken	1900	658	1	1	0	0	0	0	3A
gal7270BW	chicken	2288	354	1	1	0	0	0	0	3A
meC0130	turkey	2288	354	1	1	0	0	0	0	3A
galHW4	chicken	464	none	1	1	0	0	0	0	3A
meC0680	turkey	464	none	1	1	0	0	0	0	3A
galHW7	chicken	464	none	1	1	0	0	0	0	3A
galHW3	chicken	464	none	1	1	0	0	0	0	3A
huA27	human	464	none	1	1	0	0	0	0	3A
galHW2	chicken	464	none	1	1	0	0	0	0	3A
huB19	human	4636	none	1	1	0	1	0	0	3A
bov60	cow	4665	61	1	1	1	0	0	0	3B
bovC406	cow	4668	61	1	1	1	0	0	0	3B
meC0129	turkey	1348	61	1	1	0	0	0	0	3B
bovC535	cow	4666	61	1	1	1	0	0	0	3B
bovC325	cow	628	61	1	0	1	0	0	0	3B
bov277	cow	352	61	1	1	1	0	0	0	3B
huBfR3943	human	60	61	1	1	1	0	0	0	3B
huBfR3947	human	60	61	1	1	1	0	0	0	3B
huE03	human	61	61	1	1	1	0	0	0	3B
bovBfR3889	cow	61	61	1	1	1	0	0	0	3B
bovBfR3912	cow	61	61	1	1	1	0	0	0	3B
huA04	human	4626	1034	0	0	0	1	0	0	4
gal7085NW	chicken	2367	none	0	1	0	1	0	0	4
huE22	human	696	1332	0	0	0	1	0	0	4
meC1466	turkey	696	1332	0	1	0	1	0	1	4
meC1496	turkey	4674	1034	0	0	0	1	0	0	4
gal509	chicken	977	1034	0	0	0	1	0	0	4
meC0306	turkey	4671	1034	1	1	0	0	0	0	4
meC0816	turkey	1709	1034	0	0	0	1	0	0	4
huE11	human	4651	none	1	1	0	0	0	0	5
galHS01	chicken	877	none	1	1	0	0	0	0	5
galHS10	chicken	877	none	1	1	0	1	0	0	5
galHS16	chicken	4659	none	1	1	0	0	0	0	5
huC22	human	584	257	1	0	0	1	1	0	6
huE15	human	4571	257	1	0	0	1	1	0	6
gal7111BY	chicken	990	257	1	0	0	1	0	0	6
huE23	human	257	257	1	0	0	1	1	0	6
huB11	human	257	257	1	0	0	1	1	0	6
huB13	human	257	257	1	0	0	1	1	0	6
huC28	human	257	257	0	0	0	1	1	0	6
huA16	human	257	257	1	1	0	1	1	0	6
meC0475	turkey	257	257	1	0	0	1	1	0	6
huA08	human	677	677	0	0	0	1	1	0	singleton
huA25	human	4589	52	1	1	1	0	0	0	singleton
meC0149	turkey	4675	443	1	1	0	0	0	0	singleton
gal7258TH	chicken	4676	none	1	1	0	1	0	0	singleton
huC21	human	4649	354	1	1	0	0	0	0	singleton

Legend

Isolate origin: Human isolates are marked blue (prefix „hu" for human), chicken isolates yellow (prefix „gal" for Gallus gallus),
bovine isolates red (prefix „bov" for Bovini) and turkey isolates green (prefix „me" for Meleagris gallopavo).

Evolutionary distance: MLST-ST (Multilocus sequence typing – sequence type); MLST-CC (Multilocus sequence typing – clonal complex). The order of isolates given in the first column is equivalent to the arrangement of the isolates in the UMPGA-tree (see supplementary figure 1)

Marker genes: cjj1367: short writing for the gene cjj81176-1367/1371 encoding a serin-protease; cj1585c: gene encoding an oxidoreductase replacing dmsA-D in NCTC 11168; dtlp7: dimeric transducer like protein 7- encoded by the genes cj0951and
cj0952c; dmsA: gene encoding the dimethyl sulfoxide oxidoreductase subunit A; ansB: gene encoding an asparaginase gene with an accessory N-terminal sec-dependent secretion signal for periplasmic localization of the enzyme; ggt: gene encoding the
γ-glutamyl-transpeptidase; Presence of a genetic maker is marked with „1"and a light red shade, absence with „0" and a light green shade;