

SUPPLEMENTARY INFORMATION

Compiling Multicopy Single-Stranded DNA Sequences from Bacterial Genome Sequences

WonSeok Yoo, Dongbin Lim, Sangsoo Kim*

Department of Bioinformatics and Life Science, Soongsil University, Seoul 06978, Korea

Supplementary Table 1. Information of 525 msDNA sequences

Num	RefSeq Acc.ver	Start	End	Strand	Distance-to-RT	Presence-of-nearby-bacteriophage	Species	Uniques	Group
1	NZ_AAAL02000035.1	1977	2147	FORWARD	211	None	<i>Yersinia frederiksenii</i>	1	A
2	NZ_AAAL02000035.1	1982	2134	FORWARD	206	None	<i>Y.frederiksenii</i>	2	A
3	NZ_ADUL01000064.1	10686	10843	REVERSE	973	None	<i>Escheichia coli</i>	4	B
4	NZ_ADUL01000064.1	10691	10834	REVERSE	978	None	<i>E.coli</i>	6	B
5	NZ_ADUS01000057.1	30150	30307	FORWARD	538	None	<i>E.coli</i>	4	B
6	NZ_ADUS01000057.1	30159	30302	FORWARD	529	None	<i>E.coli</i>	6	B
7	NZ_AFB01000010.1	90423	90580	FORWARD	195	None	<i>E.coli</i>	4	B
8	NZ_AFB01000010.1	90432	90575	FORWARD	186	None	<i>E.coli</i>	6	B
9	NZ_AIBH01000044.1	202	359	FORWARD	195	None	<i>E.coli</i>	4	B
10	NZ_AIBH01000044.1	211	354	FORWARD	186	None	<i>E.coli</i>	6	B
11	NZ_AIBZ01000060.1	10306	10463	REVERSE	973	None	<i>E.coli</i>	4	B
12	NZ_AIBZ01000060.1	10311	10454	REVERSE	978	None	<i>E.coli</i>	6	B
13	NZ_AIEV01000030.1	150522	150679	FORWARD	195	None	<i>E.coli</i>	4	B
14	NZ_AIEV01000030.1	150531	150674	FORWARD	186	None	<i>E.coli</i>	6	B
15	NZ_AIEW01000027.1	109426	109583	FORWARD	195	None	<i>E.coli</i>	4	B
16	NZ_AIEW01000027.1	109435	109578	FORWARD	186	None	<i>E.coli</i>	6	B
17	NZ_AIEY01000038.1	92544	92701	FORWARD	195	None	<i>E.coli</i>	4	B
18	NZ_AIEY01000038.1	92553	92696	FORWARD	186	None	<i>E.coli</i>	6	B
19	NZ_AIEZ01000014.1	19469	19626	FORWARD	195	None	<i>E.coli</i>	4	B
20	NZ_AIEZ01000014.1	19478	19621	FORWARD	186	None	<i>E.coli</i>	6	B
21	NZ_AIFB01000027.1	90487	90644	FORWARD	195	None	<i>E.coli</i>	4	B
22	NZ_AIFB01000027.1	90496	90639	FORWARD	186	None	<i>E.coli</i>	6	B
23	NZ_AIFC01000017.1	150807	150964	FORWARD	195	None	<i>E.coli</i>	4	B
24	NZ_AIFC01000017.1	150816	150959	FORWARD	186	None	<i>E.coli</i>	6	B
25	NZ_AIFD01000019.1	87889	88046	FORWARD	195	None	<i>E.coli</i>	4	B
26	NZ_AIFD01000019.1	87898	88041	FORWARD	186	None	<i>E.coli</i>	6	B
27	NZ_JH954362.1	14562	14719	REVERSE	973	None	<i>E.coli</i>	4	B
28	NZ_JH954362.1	14567	14710	REVERSE	978	None	<i>E.coli</i>	6	B
29	NZ_JHQV01000040.1	27430	27587	FORWARD	195	None	<i>E.coli</i>	4	B
30	NZ_JHQV01000040.1	27439	27582	FORWARD	186	None	<i>E.coli</i>	6	B
31	NZ_JHRF01000015.1	27993	28150	FORWARD	195	None	<i>E.coli</i>	4	B
32	NZ_JHRF01000015.1	28002	28145	FORWARD	186	None	<i>E.coli</i>	6	B
33	NZ_JHRJ01000038.1	27430	27587	FORWARD	195	None	<i>E.coli</i>	4	B
34	NZ_JHRJ01000038.1	27439	27582	FORWARD	186	None	<i>E.coli</i>	6	B
35	NZ_JHRW01000018.1	27427	27584	FORWARD	195	None	<i>E.coli</i>	4	B
36	NZ_JHRW01000018.1	27436	27579	FORWARD	186	None	<i>E.coli</i>	6	B
37	NZ_JHSW01000063.1	8785	8942	FORWARD	195	None	<i>E.coli</i>	4	B
38	NZ_JHSW01000063.1	8794	8937	FORWARD	186	None	<i>E.coli</i>	6	B
39	NZ_JHTE01000016.1	27431	27588	FORWARD	195	None	<i>E.coli</i>	4	B
40	NZ_JHTE01000016.1	27440	27583	FORWARD	186	None	<i>E.coli</i>	6	B
41	NZ_JICH01000037.1	11344	11501	REVERSE	973	None	<i>E.coli</i>	3	B
42	NZ_JICH01000037.1	11349	11492	REVERSE	978	None	<i>E.coli</i>	5	B
43	NZ_JZKM01000033.1	32922	33066	REVERSE	980	None	<i>Enterobacter cloacae</i>	7	B
44	NZ_AEVT01000025.1	7696	7848	REVERSE	973	None	<i>Vibrio sinaloensis</i>	8	C
45	NZ_JZSR01000059.1	10530	10685	FORWARD	199	None	<i>Photobacterium iliopiscarium</i>	9	C
46	NZ_KB932155.1	186088	186242	REVERSE	976	None	<i>Vibrio parahaemolyticus</i>	10	C
47	NZ_BADY01000159.1	6897	7048	REVERSE	1013	None	<i>Pseudoalteromonas</i>	11	D
48	NZ_AELI01000009.1	108790	108957	FORWARD	199	None	<i>Vibrio cholerae</i>	12	E
49	NZ_AELJ01000018.1	45406	45573	REVERSE	1003	None	<i>V.cholerae</i>	12	E
50	NZ_AHFX01000040.1	45407	45574	REVERSE	1003	None	<i>V.cholerae</i>	12	E
51	NZ_AHFX01000058.1	108801	108968	FORWARD	274	None	<i>V.cholerae</i>	12	E
52	NZ_AHGA01000043.1	45352	45519	REVERSE	1003	None	<i>V.cholerae</i>	12	E
53	NZ_AHGC01000040.1	5081	5248	FORWARD	274	None	<i>V.cholerae</i>	12	E
54	NZ_AHGD01000024.1	725	892	REVERSE	724	None	<i>V.cholerae</i>	12	E
55	NZ_AHGE01000009.1	45538	45705	REVERSE	1003	None	<i>V.cholerae</i>	12	E
56	NZ_AHGF01000008.1	108790	108957	FORWARD	274	None	<i>V.cholerae</i>	12	E
57	NZ_AHGH01000009.1	108790	108957	FORWARD	274	None	<i>V.cholerae</i>	12	E
58	NZ_AHGJ01000014.1	45569	45736	REVERSE	1003	None	<i>V.cholerae</i>	12	E
59	NZ_AHGL01000023.1	108790	108957	FORWARD	274	None	<i>V.cholerae</i>	12	E
60	NZ_AHGM01000013.1	13114	13281	REVERSE	1003	None	<i>V.cholerae</i>	12	E
61	NZ_CWRD01000010.1	47793	47960	FORWARD	274	Exist	<i>V.cholerae</i>	12	E
62	NZ_DS178144.1	32406	32619	FORWARD	320	None	<i>V.cholerae</i>	14	E
63	NZ_JH724980.1	6037	6204	FORWARD	274	Exist	<i>V.cholerae</i>	12	E
64	NZ_JMBM01000008.1	24200	24367	FORWARD	274	Exist	<i>V.cholerae</i>	13	E
65	NZ_JSTG01000246.1	1323	1490	FORWARD	274	None	<i>V.cholerae</i>	12	E
66	NZ_JSTK01000026.1	29352	29519	FORWARD	274	Exist	<i>V.cholerae</i>	12	E

67	NZ_JZUB01000019.1	7836	8003	FORWARD	199	None	<i>V.cholerae</i>	12	E
68	NZ_KQ236698.1	126820	126987	REVERSE	1003	Exist	<i>V.cholerae</i>	12	E
69	NZ_LGNG01000006.1	47813	47980	FORWARD	223	None	<i>V.cholerae</i>	12	E
70	NZ_LGNH01000074.1	47813	47980	FORWARD	223	None	<i>V.cholerae</i>	12	E
71	NZ_LGNN01000057.1	47776	47943	FORWARD	274	Exist	<i>V.cholerae</i>	12	E
72	NZ_LGNR01000139.1	47748	47915	FORWARD	274	None	<i>V.cholerae</i>	12	E
73	NZ_LGNS01000076.1	47813	47980	FORWARD	274	Exist	<i>V.cholerae</i>	12	E
74	NZ_LGNT01000016.1	45442	45609	REVERSE	1003	None	<i>V.cholerae</i>	12	E
75	NZ_LGNY01000082.1	3626	3793	REVERSE	1003	None	<i>V.cholerae</i>	12	E
76	NZ_LGOA01000055.1	126718	126885	REVERSE	1003	Exist	<i>V.cholerae</i>	12	E
77	NZ_LGOI01000015.1	3624	3791	REVERSE	1003	None	<i>V.cholerae</i>	12	E
78	NZ_LGOL01000014.1	3664	3831	REVERSE	1003	None	<i>V.cholerae</i>	12	E
79	NZ_JEWD01000015.1	745	923	REVERSE	743	None	<i>Acinetobacter baumannii</i>	15	F
80	NZ_JEWD01000015.1	747	893	REVERSE	745	None	<i>A.baumannii</i>	16	F
81	NZ_JFXH01000020.1	5971	6117	REVERSE	985	None	<i>A.baumannii</i>	16	F
82	NZ_HG427744.1	24290	24450	FORWARD	209	None	<i>Xenorhabdus bovienii</i>	17	G
83	NZ_JJN101000042.1	31355	31505	FORWARD	219	None	<i>Klebsiella pneumoniae</i>	18	H
84	NZ_AHBY02000117.1	16411	16577	REVERSE	1042	None	<i>Pseudoalteromonas</i>	19	I
85	NZ_AHBY02000117.1	16412	16576	REVERSE	1047	None	<i>Pseudoalteromonas</i>	20	I
86	NZ_AERV01000006.1	38295	38452	FORWARD	1197	None	<i>Salmonella enterica</i>	21	J
87	NZ_AESH01000002.1	48721	48878	REVERSE	1971	None	<i>S.enterica</i>	21	J
88	NZ_AESI01000035.1	32670	32827	FORWARD	1197	None	<i>S.enterica</i>	21	J
89	NZ_AESJ01000017.1	32670	32827	FORWARD	1197	None	<i>S.enterica</i>	21	J
90	NZ_AESK01000005.1	32670	32827	FORWARD	1197	None	<i>S.enterica</i>	21	J
91	NZ_AESL01000008.1	48601	48759	REVERSE	1971	None	<i>S.enterica</i>	24	J
92	NZ_AESM01000024.1	48721	48878	REVERSE	1971	None	<i>S.enterica</i>	21	J
93	NZ_AESR01000028.1	48620	48777	REVERSE	1971	None	<i>S.enterica</i>	21	J
94	NZ_AEST01000045.1	33057	33214	FORWARD	1197	None	<i>S.enterica</i>	21	J
95	NZ_AESU01000061.1	48579	48736	REVERSE	1971	None	<i>S.enterica</i>	21	J
96	NZ_AESV01000003.1	48721	48878	REVERSE	1971	None	<i>S.enterica</i>	21	J
97	NZ_AESW01000003.1	48579	48735	REVERSE	1971	None	<i>S.enterica</i>	23	J
98	NZ_AESX01000007.1	33057	33214	FORWARD	1197	None	<i>S.enterica</i>	21	J
99	NZ_AESY01000019.1	32840	32997	FORWARD	1197	None	<i>S.enterica</i>	21	J
100	NZ_AESZ01000039.1	48722	48879	REVERSE	1972	None	<i>S.enterica</i>	21	J
101	NZ_AETC01000036.1	32670	32828	FORWARD	1198	None	<i>S.enterica</i>	24	J
102	NZ_AETD01000002.1	32670	32827	FORWARD	1197	None	<i>S.enterica</i>	21	J
103	NZ_AETF01000079.1	19332	19489	REVERSE	1972	None	<i>S.enterica</i>	21	J
104	NZ_AETG01000006.1	48601	48758	REVERSE	1971	None	<i>S.enterica</i>	21	J
105	NZ_AETJ01000076.1	48720	48877	REVERSE	1971	None	<i>S.enterica</i>	21	J
106	NZ_AETK01000002.1	48601	48758	REVERSE	1971	None	<i>S.enterica</i>	21	J
107	NZ_AETL01000143.1	48721	48878	REVERSE	1971	None	<i>S.enterica</i>	21	J
108	NZ_AETM01000133.1	48719	48876	REVERSE	1971	None	<i>S.enterica</i>	21	J
109	NZ_AETN01000003.1	32670	32827	FORWARD	1197	None	<i>S.enterica</i>	21	J
110	NZ_AETO01000017.1	32670	32827	FORWARD	1197	None	<i>S.enterica</i>	21	J
111	NZ_AETP01000004.1	32671	32828	FORWARD	1197	None	<i>S.enterica</i>	21	J
112	NZ_AETQ01000040.1	48721	48878	REVERSE	1971	None	<i>S.enterica</i>	21	J
113	NZ_AETR01000042.1	48600	48757	REVERSE	1971	None	<i>S.enterica</i>	21	J
114	NZ_AETS01000054.1	32670	32827	FORWARD	1197	None	<i>S.enterica</i>	21	J
115	NZ_AETT01000023.1	48602	48759	REVERSE	1972	None	<i>S.enterica</i>	21	J
116	NZ_AETU01000042.1	32669	32826	FORWARD	1196	None	<i>S.enterica</i>	21	J
117	NZ_AETV01000003.1	32670	32827	FORWARD	1197	None	<i>S.enterica</i>	21	J
118	NZ_AETW01000043.1	32670	32827	FORWARD	1197	None	<i>S.enterica</i>	21	J
119	NZ_AHHR01000013.1	48721	48878	REVERSE	1971	None	<i>S.enterica</i>	21	J
120	NZ_AHHV01000014.1	32670	32830	FORWARD	1200	None	<i>S.enterica</i>	26	J
121	NZ_AHHW01000002.1	41709	41867	REVERSE	1971	None	<i>S.enterica</i>	29	J
122	NZ_AHIK01000016.1	32670	32827	FORWARD	1197	None	<i>S.enterica</i>	21	J
123	NZ_AHUS01000019.1	32553	32710	FORWARD	1197	None	<i>S.enterica</i>	21	J
124	NZ_AHUT01000026.1	48816	48973	REVERSE	1972	None	<i>S.enterica</i>	30	J
125	NZ_AHUV01000086.1	32556	32713	FORWARD	1197	None	<i>S.enterica</i>	21	J
126	NZ_AHUZ01000012.1	32872	33029	FORWARD	1197	None	<i>S.enterica</i>	21	J
127	NZ_AHVA01000012.1	33028	33185	FORWARD	1197	None	<i>S.enterica</i>	21	J
128	NZ_AJTU01000005.1	32556	32713	FORWARD	1197	None	<i>S.enterica</i>	21	J
129	NZ_AMD02000019.1	48708	48865	REVERSE	1971	None	<i>S.enterica</i>	21	J
130	NZ_AMDY01000191.1	12057	12214	FORWARD	1197	None	<i>S.enterica</i>	21	J
131	NZ_AMED02000046.1	48825	48982	REVERSE	1971	None	<i>S.enterica</i>	21	J
132	NZ_AMEF02000076.1	48825	48982	REVERSE	1971	None	<i>S.enterica</i>	21	J
133	NZ_AMEG02000238.1	38693	38850	FORWARD	1197	None	<i>S.enterica</i>	21	J
134	NZ_AMEH02000247.1	12221	12378	REVERSE	1971	None	<i>S.enterica</i>	21	J
135	NZ_AOXO01000052.1	32973	33130	FORWARD	1202	None	<i>S.enterica</i>	21	J
136	NZ_AOXW01000025.1	28899	29056	FORWARD	1197	None	<i>S.enterica</i>	21	J
137	NZ_AOXZ01000001.1	17409	17566	FORWARD	1198	None	<i>S.enterica</i>	21	J

138	NZ_AOYL01000020.1	32788	32945	FORWARD	1197	None	<i>S.enterica</i>	21	J
139	NZ_AQQN01000057.1	9399	9556	FORWARD	1198	None	<i>S.enterica</i>	21	J
140	NZ_AROZ01000103.1	18092	18249	REVERSE	1970	None	<i>S.enterica</i>	21	J
141	NZ_ATWR01000020.1	12056	12213	FORWARD	1197	None	<i>S.enterica</i>	21	J
142	NZ_AUQL01000033.1	32907	33064	FORWARD	1197	None	<i>S.enterica</i>	21	J
143	NZ_AUQN01000032.1	33048	33205	FORWARD	1262	None	<i>S.enterica</i>	21	J
144	NZ_AUQO01000023.1	48588	48745	REVERSE	1971	None	<i>S.enterica</i>	21	J
145	NZ_AUVD01000060.1	32556	32713	FORWARD	1197	None	<i>S.enterica</i>	21	J
146	NZ_AUVE01000023.1	32631	32788	FORWARD	1197	None	<i>S.enterica</i>	25	J
147	NZ_AUXE01000023.1	32631	32788	FORWARD	1197	None	<i>S.enterica</i>	25	J
148	NZ_AYUP01000236.1	48756	48913	REVERSE	1971	None	<i>S.enterica</i>	21	J
149	NZ_AYUQ01000076.1	48811	48968	REVERSE	1971	None	<i>S.enterica</i>	21	J
150	NZ_AYVJ01000160.1	42551	42708	REVERSE	1971	None	<i>S.enterica</i>	21	J
151	NZ_CAGQ01000082.1	49724	49881	REVERSE	1972	None	<i>S.enterica</i>	21	J
152	NZ_CQGG01000023.1	5865	6022	FORWARD	1197	None	<i>S.enterica</i>	21	J
153	NZ_CQGH01000018.1	48839	48996	REVERSE	1971	None	<i>S.enterica</i>	21	J
154	NZ_CQGI01000024.1	48922	49079	REVERSE	1971	None	<i>S.enterica</i>	21	J
155	NZ_CQJ01000023.1	4970	5127	FORWARD	1197	None	<i>S.enterica</i>	21	J
156	NZ_CQKG01000023.1	48584	48741	REVERSE	1971	None	<i>S.enterica</i>	21	J
157	NZ_CQGL01000023.1	48581	48738	REVERSE	1971	None	<i>S.enterica</i>	21	J
158	NZ_CQGM01000014.1	65612	65769	FORWARD	1197	None	<i>S.enterica</i>	21	J
159	NZ_CQGN01000023.1	4970	5127	FORWARD	1197	None	<i>S.enterica</i>	21	J
160	NZ_CQGO01000026.1	6994	7151	FORWARD	1197	None	<i>S.enterica</i>	21	J
161	NZ_CQGP01000021.1	6792	6949	FORWARD	1197	None	<i>S.enterica</i>	21	J
162	NZ_CQQO01000014.1	48922	49079	REVERSE	1971	None	<i>S.enterica</i>	21	J
163	NZ_CQGS01000023.1	48922	49079	REVERSE	1971	None	<i>S.enterica</i>	21	J
164	NZ_CQGT01000022.1	4954	5111	FORWARD	1197	None	<i>S.enterica</i>	21	J
165	NZ_CQGU01000022.1	48921	49078	REVERSE	1971	None	<i>S.enterica</i>	21	J
166	NZ_CQGV01000023.1	4969	5126	FORWARD	1197	None	<i>S.enterica</i>	21	J
167	NZ_CQGW01000019.1	48584	48741	REVERSE	1971	None	<i>S.enterica</i>	21	J
168	NZ_CQGX01000023.1	48922	49079	REVERSE	1971	None	<i>S.enterica</i>	21	J
169	NZ_CQGY01000023.1	4952	5109	FORWARD	1197	None	<i>S.enterica</i>	21	J
170	NZ_CQHZ01000018.1	32640	32797	FORWARD	1197	None	<i>S.enterica</i>	21	J
171	NZ_CQHA01000017.1	32640	32797	FORWARD	1197	None	<i>S.enterica</i>	21	J
172	NZ_CQHB01000026.1	4977	5134	FORWARD	1197	None	<i>S.enterica</i>	21	J
173	NZ_CQHC01000022.1	48922	49079	REVERSE	1971	None	<i>S.enterica</i>	21	J
174	NZ_CQHD01000022.1	48836	48993	REVERSE	1971	None	<i>S.enterica</i>	21	J
175	NZ_CQHE01000023.1	6789	6946	FORWARD	1197	None	<i>S.enterica</i>	21	J
176	NZ_CQHF01000023.1	48921	49078	REVERSE	1971	None	<i>S.enterica</i>	21	J
177	NZ_CQHG01000018.1	32646	32803	FORWARD	1197	None	<i>S.enterica</i>	21	J
178	NZ_CQHH01000022.1	48922	49079	REVERSE	1971	None	<i>S.enterica</i>	21	J
179	NZ_CQHI01000017.1	48666	48823	REVERSE	1971	None	<i>S.enterica</i>	21	J
180	NZ_CQHJ01000023.1	5865	6022	FORWARD	1197	None	<i>S.enterica</i>	21	J
181	NZ_CQHN01000022.1	48584	48741	REVERSE	1971	None	<i>S.enterica</i>	21	J
182	NZ_CQHQ01000022.1	14246	14403	FORWARD	1197	None	<i>S.enterica</i>	21	J
183	NZ_CQHR01000022.1	48556	48713	REVERSE	1971	None	<i>S.enterica</i>	21	J
184	NZ_CQHS01000012.1	32644	32801	FORWARD	1197	None	<i>S.enterica</i>	21	J
185	NZ_CQHV01000014.1	48922	49079	REVERSE	1971	None	<i>S.enterica</i>	21	J
186	NZ_CQHW01000023.1	48922	49079	REVERSE	1971	None	<i>S.enterica</i>	21	J
187	NZ_CQIE01000022.1	5865	6022	FORWARD	1197	None	<i>S.enterica</i>	21	J
188	NZ_CTAB01000027.1	16113	16270	FORWARD	1197	None	<i>S.enterica</i>	21	J
189	NZ_CTAC01000011.1	48541	48698	REVERSE	1971	None	<i>S.enterica</i>	21	J
190	NZ_CTAD01000025.1	4946	5103	FORWARD	1197	None	<i>S.enterica</i>	21	J
191	NZ_CTAE01000024.1	48922	49079	REVERSE	1971	None	<i>S.enterica</i>	21	J
192	NZ_CTAF01000014.1	65603	65760	FORWARD	1197	None	<i>S.enterica</i>	21	J
193	NZ_CTAG01000026.1	4912	5069	FORWARD	1197	None	<i>S.enterica</i>	21	J
194	NZ_CTAH01000021.1	32586	32743	FORWARD	1197	None	<i>S.enterica</i>	21	J
195	NZ_CTAI01000023.1	4948	5105	FORWARD	1197	None	<i>S.enterica</i>	21	J
196	NZ_CTAJ01000024.1	48566	48723	REVERSE	1971	None	<i>S.enterica</i>	21	J
197	NZ_CTAK01000029.1	48584	48741	REVERSE	1971	None	<i>S.enterica</i>	21	J
198	NZ_CTAL01000015.1	48614	48771	REVERSE	1971	None	<i>S.enterica</i>	21	J
199	NZ_CTAM01000027.1	4912	5069	FORWARD	1197	None	<i>S.enterica</i>	21	J
200	NZ_CTAN01000032.1	48618	48775	REVERSE	1971	None	<i>S.enterica</i>	21	J
201	NZ_CTAO01000023.1	48584	48741	REVERSE	1971	None	<i>S.enterica</i>	21	J
202	NZ_CTAP01000025.1	4946	5103	FORWARD	1197	None	<i>S.enterica</i>	21	J
203	NZ_CTAQ01000024.1	48599	48756	REVERSE	1971	None	<i>S.enterica</i>	21	J
204	NZ_CTAR01000023.1	4956	5113	FORWARD	1197	None	<i>S.enterica</i>	21	J
205	NZ_CTAS01000026.1	4939	5096	FORWARD	1197	None	<i>S.enterica</i>	21	J
206	NZ_CTAT01000023.1	32586	32743	FORWARD	1197	None	<i>S.enterica</i>	21	J
207	NZ_CTAU01000023.1	4966	5123	FORWARD	1197	None	<i>S.enterica</i>	21	J
208	NZ_CTAV01000024.1	48584	48741	REVERSE	1971	None	<i>S.enterica</i>	21	J

209	NZ_CTAW01000025.1	4950	5107	FORWARD	1197	None	<i>S.enterica</i>	21	J
210	NZ_CTAX01000024.1	4950	5107	FORWARD	1197	None	<i>S.enterica</i>	21	J
211	NZ_CTAY01000027.1	48551	48708	REVERSE	1971	None	<i>S.enterica</i>	21	J
212	NZ_CTAX01000024.1	48504	48661	REVERSE	1971	None	<i>S.enterica</i>	21	J
213	NZ_CTBA01000029.1	50564	50721	REVERSE	1971	None	<i>S.enterica</i>	21	J
214	NZ_CTBB01000025.1	4967	5124	FORWARD	1197	None	<i>S.enterica</i>	21	J
215	NZ_CTBC01000025.1	4946	5103	FORWARD	1197	None	<i>S.enterica</i>	21	J
216	NZ_CTBE01000030.1	7646	7803	FORWARD	1197	None	<i>S.enterica</i>	21	J
217	NZ_CTF01000028.1	48584	48741	REVERSE	1971	None	<i>S.enterica</i>	21	J
218	NZ_CTBH01000026.1	5865	6022	FORWARD	1197	None	<i>S.enterica</i>	21	J
219	NZ_CTBH01000028.1	48584	48741	REVERSE	1971	None	<i>S.enterica</i>	21	J
220	NZ_CTBH01000030.1	48504	48661	REVERSE	1971	None	<i>S.enterica</i>	21	J
221	NZ_CTBK01000032.1	4912	5069	FORWARD	1197	None	<i>S.enterica</i>	21	J
222	NZ_CTBM01000026.1	48584	48741	REVERSE	1971	None	<i>S.enterica</i>	21	J
223	NZ_CTBN01000040.1	2682	2839	FORWARD	1197	None	<i>S.enterica</i>	21	J
224	NZ_CTB001000027.1	48584	48741	REVERSE	1971	None	<i>S.enterica</i>	21	J
225	NZ_CTFP01000019.1	48616	48773	REVERSE	1971	None	<i>S.enterica</i>	21	J
226	NZ_CTFQ01000029.1	4948	5105	FORWARD	1197	None	<i>S.enterica</i>	21	J
227	NZ_CTF001000023.1	48584	48741	REVERSE	1971	None	<i>S.enterica</i>	21	J
228	NZ_CTF01000025.1	48605	48762	REVERSE	1971	None	<i>S.enterica</i>	21	J
229	NZ_CTFU01000028.1	4912	5069	FORWARD	1197	None	<i>S.enterica</i>	21	J
230	NZ_CTFW01000029.1	48584	48741	REVERSE	1971	None	<i>S.enterica</i>	21	J
231	NZ_CTFX01000028.1	48504	48661	REVERSE	1971	None	<i>S.enterica</i>	21	J
232	NZ_CTFY01000024.1	48564	48721	REVERSE	1971	None	<i>S.enterica</i>	21	J
233	NZ_CTBZ01000024.1	4968	5125	FORWARD	1197	None	<i>S.enterica</i>	21	J
234	NZ_CTCA01000027.1	4974	5131	FORWARD	1197	None	<i>S.enterica</i>	21	J
235	NZ_CTCB01000019.1	48504	48661	REVERSE	1971	None	<i>S.enterica</i>	21	J
236	NZ_CTC001000062.1	4950	5107	FORWARD	1197	None	<i>S.enterica</i>	21	J
237	NZ_CTC001000025.1	4946	5103	FORWARD	1197	None	<i>S.enterica</i>	21	J
238	NZ_CTC01000026.1	48584	48741	REVERSE	1971	None	<i>S.enterica</i>	21	J
239	NZ_CTCF01000012.1	48673	48830	REVERSE	1971	None	<i>S.enterica</i>	21	J
240	NZ_CTCG01000020.1	32620	32777	FORWARD	1197	None	<i>S.enterica</i>	21	J
241	NZ_CTC01000025.1	32586	32743	FORWARD	1197	None	<i>S.enterica</i>	21	J
242	NZ_CTCI01000031.1	4912	5069	FORWARD	1197	None	<i>S.enterica</i>	21	J
243	NZ_CTCJ01000025.1	48554	48711	REVERSE	1971	None	<i>S.enterica</i>	21	J
244	NZ_CTFV01000026.1	4916	5073	FORWARD	1197	None	<i>S.enterica</i>	21	J
245	NZ_CTFW01000029.1	48504	48661	REVERSE	1971	None	<i>S.enterica</i>	21	J
246	NZ_CTFX01000029.1	746	903	FORWARD	1197	None	<i>S.enterica</i>	21	J
247	NZ_CTFY01000024.1	48584	48741	REVERSE	1971	None	<i>S.enterica</i>	21	J
248	NZ_CTFZ01000026.1	48599	48756	REVERSE	1971	None	<i>S.enterica</i>	21	J
249	NZ_CTGB01000030.1	4912	5069	FORWARD	1197	None	<i>S.enterica</i>	21	J
250	NZ_CTGD01000024.1	4970	5127	FORWARD	1197	None	<i>S.enterica</i>	21	J
251	NZ_CTGE01000026.1	4946	5103	FORWARD	1197	None	<i>S.enterica</i>	21	J
252	NZ_CTGF01000026.1	4946	5103	FORWARD	1197	None	<i>S.enterica</i>	21	J
253	NZ_CTGH01000028.1	4912	5069	FORWARD	1197	None	<i>S.enterica</i>	21	J
254	NZ_CTGI01000011.1	48558	48715	REVERSE	1971	None	<i>S.enterica</i>	21	J
255	NZ_CTGJ01000071.1	2509	2666	REVERSE	1971	None	<i>S.enterica</i>	21	J
256	NZ_CTGK01000025.1	48596	48753	REVERSE	1971	None	<i>S.enterica</i>	21	J
257	NZ_CTGL01000025.1	48584	48741	REVERSE	1971	None	<i>S.enterica</i>	21	J
258	NZ_CTGM01000024.1	48554	48711	REVERSE	1971	None	<i>S.enterica</i>	21	J
259	NZ_CTGO01000022.1	32612	32769	FORWARD	1197	None	<i>S.enterica</i>	21	J
260	NZ_CTGP01000021.1	38176	38333	FORWARD	1197	None	<i>S.enterica</i>	21	J
261	NZ_CTGQ01000023.1	4967	5124	FORWARD	1197	None	<i>S.enterica</i>	21	J
262	NZ_CTGR01000013.1	48584	48741	REVERSE	1971	None	<i>S.enterica</i>	21	J
263	NZ_CTGS01000034.1	48543	48731	REVERSE	1971	None	<i>S.enterica</i>	35	J
264	NZ_CTGT01000028.1	48504	48661	REVERSE	1971	None	<i>S.enterica</i>	21	J
265	NZ_CTGU01000029.1	48584	48741	REVERSE	1971	None	<i>S.enterica</i>	21	J
266	NZ_CTGW01000070.1	2536	2693	REVERSE	1971	None	<i>S.enterica</i>	21	J
267	NZ_CTGX01000060.1	2518	2675	REVERSE	1971	None	<i>S.enterica</i>	21	J
268	NZ_CTGY01000026.1	48581	48738	REVERSE	1971	None	<i>S.enterica</i>	21	J
269	NZ_CTGZ01000032.1	48648	48805	REVERSE	1971	None	<i>S.enterica</i>	21	J
270	NZ_CTHA01000025.1	48584	48741	REVERSE	1971	None	<i>S.enterica</i>	21	J
271	NZ_CTHB01000026.1	48584	48741	REVERSE	1971	None	<i>S.enterica</i>	21	J
272	NZ_CTHC01000012.1	71798	71955	FORWARD	1197	None	<i>S.enterica</i>	21	J
273	NZ_CTHD01000023.1	48922	49079	REVERSE	1971	None	<i>S.enterica</i>	21	J
274	NZ_CTHE01000052.1	4936	5093	FORWARD	1197	None	<i>S.enterica</i>	21	J
275	NZ_CTHF01000029.1	4927	5084	FORWARD	1197	None	<i>S.enterica</i>	21	J
276	NZ_CTHG01000012.1	48568	48725	REVERSE	1971	None	<i>S.enterica</i>	21	J
277	NZ_CTHH01000032.1	48504	48661	REVERSE	1971	None	<i>S.enterica</i>	21	J
278	NZ_CTHI01000058.1	4941	5098	FORWARD	1197	None	<i>S.enterica</i>	21	J
279	NZ_CTHJ01000024.1	48584	48741	REVERSE	1971	None	<i>S.enterica</i>	21	J

280	NZ_CTHK01000025.1	4946	5103	FORWARD	1197	None	<i>S.enterica</i>	21	J
281	NZ_CTHL01000026.1	48557	48714	REVERSE	1971	None	<i>S.enterica</i>	21	J
282	NZ_CTHM01000024.1	48601	48758	REVERSE	1971	None	<i>S.enterica</i>	21	J
283	NZ_CTHO01000028.1	4919	5076	FORWARD	1197	None	<i>S.enterica</i>	21	J
284	NZ_CTHP01000023.1	48600	48757	REVERSE	1971	None	<i>S.enterica</i>	21	J
285	NZ_CTHQ01000022.1	48567	48724	REVERSE	1971	None	<i>S.enterica</i>	21	J
286	NZ_CTHR01000025.1	4968	5125	FORWARD	1197	None	<i>S.enterica</i>	21	J
287	NZ_CTHS01000028.1	4922	5079	FORWARD	1197	None	<i>S.enterica</i>	21	J
288	NZ_CTHT01000029.1	48504	48661	REVERSE	1971	None	<i>S.enterica</i>	21	J
289	NZ_CTHU01000023.1	48578	48735	REVERSE	1971	None	<i>S.enterica</i>	21	J
290	NZ_CTHV01000023.1	4960	5117	FORWARD	1197	None	<i>S.enterica</i>	21	J
291	NZ_CTHW01000026.1	48546	48703	REVERSE	1971	None	<i>S.enterica</i>	21	J
292	NZ_CTHX01000059.1	8684	8841	REVERSE	1971	None	<i>S.enterica</i>	21	J
293	NZ_CTHY01000028.1	48659	48816	REVERSE	1971	None	<i>S.enterica</i>	21	J
294	NZ_CTHA01000013.1	65561	65718	FORWARD	1197	None	<i>S.enterica</i>	21	J
295	NZ_CTHB01000054.1	2531	2688	REVERSE	1971	None	<i>S.enterica</i>	21	J
296	NZ_CTHC01000024.1	48581	48738	REVERSE	1971	None	<i>S.enterica</i>	21	J
297	NZ_CTHD01000022.1	48561	48718	REVERSE	1971	None	<i>S.enterica</i>	21	J
298	NZ_CTHE01000027.1	6964	7121	FORWARD	1197	None	<i>S.enterica</i>	21	J
299	NZ_CTHF01000013.1	65624	65781	FORWARD	1197	None	<i>S.enterica</i>	21	J
300	NZ_CTHG01000028.1	48584	48741	REVERSE	1971	None	<i>S.enterica</i>	21	J
301	NZ_CTHH01000024.1	4954	5111	FORWARD	1197	None	<i>S.enterica</i>	21	J
302	NZ_CTHI01000023.1	4964	5121	FORWARD	1197	None	<i>S.enterica</i>	21	J
303	NZ_CTHJ01000024.1	4967	5124	FORWARD	1197	None	<i>S.enterica</i>	21	J
304	NZ_CTHK01000014.1	65598	65755	FORWARD	1197	None	<i>S.enterica</i>	21	J
305	NZ_CTHL01000030.1	48609	48766	REVERSE	1971	None	<i>S.enterica</i>	21	J
306	NZ_CTHM01000030.1	48558	48715	REVERSE	1971	None	<i>S.enterica</i>	21	J
307	NZ_CTHN01000031.1	48509	48666	REVERSE	1971	None	<i>S.enterica</i>	21	J
308	NZ_CTHO01000025.1	6801	6958	FORWARD	1197	None	<i>S.enterica</i>	21	J
309	NZ_CTHP01000029.1	4943	5100	FORWARD	1197	None	<i>S.enterica</i>	21	J
310	NZ_CTHQ01000024.1	4948	5105	FORWARD	1197	None	<i>S.enterica</i>	21	J
311	NZ_CTHR01000024.1	4955	5112	FORWARD	1197	None	<i>S.enterica</i>	21	J
312	NZ_CTHS01000025.1	4950	5107	FORWARD	1197	None	<i>S.enterica</i>	21	J
313	NZ_CTHT01000025.1	48584	48741	REVERSE	1971	None	<i>S.enterica</i>	21	J
314	NZ_CTHU01000026.1	48570	48727	REVERSE	1971	None	<i>S.enterica</i>	21	J
315	NZ_CTHV01000026.1	4912	5069	FORWARD	1197	None	<i>S.enterica</i>	21	J
316	NZ_CTHW01000023.1	48599	48756	REVERSE	1971	None	<i>S.enterica</i>	21	J
317	NZ_CTHX01000024.1	4952	5109	FORWARD	1197	None	<i>S.enterica</i>	21	J
318	NZ_CTHY01000024.1	4948	5105	FORWARD	1197	None	<i>S.enterica</i>	21	J
319	NZ_CTHA01000025.1	4970	5127	FORWARD	1197	None	<i>S.enterica</i>	21	J
320	NZ_CTHB01000015.1	65882	66039	FORWARD	1197	None	<i>S.enterica</i>	21	J
321	NZ_CTHC01000023.1	4948	5105	FORWARD	1197	None	<i>S.enterica</i>	21	J
322	NZ_CTHD01000026.1	48599	48756	REVERSE	1971	None	<i>S.enterica</i>	21	J
323	NZ_CTHE01000026.1	71798	71955	FORWARD	1197	None	<i>S.enterica</i>	21	J
324	NZ_CTHF01000024.1	48570	48727	REVERSE	1971	None	<i>S.enterica</i>	21	J
325	NZ_CTHG01000028.1	5865	6022	FORWARD	1197	None	<i>S.enterica</i>	21	J
326	NZ_CTHH01000014.1	48748	48905	REVERSE	1971	None	<i>S.enterica</i>	21	J
327	NZ_CTHI01000027.1	48922	49079	REVERSE	1971	None	<i>S.enterica</i>	21	J
328	NZ_CTHJ01000032.1	31765	31922	FORWARD	1197	None	<i>S.enterica</i>	21	J
329	NZ_CTHK01000028.1	5865	6022	FORWARD	1197	None	<i>S.enterica</i>	21	J
330	NZ_CTHL01000023.1	4973	5130	FORWARD	1197	None	<i>S.enterica</i>	21	J
331	NZ_CTHM01000023.1	4950	5107	FORWARD	1197	None	<i>S.enterica</i>	21	J
332	NZ_CTHN01000027.1	4937	5094	FORWARD	1197	None	<i>S.enterica</i>	21	J
333	NZ_CTHO01000027.1	48504	48661	REVERSE	1971	None	<i>S.enterica</i>	21	J
334	NZ_CTHP01000019.1	48840	48997	REVERSE	1971	None	<i>S.enterica</i>	21	J
335	NZ_CTHQ01000027.1	4969	5126	FORWARD	1197	None	<i>S.enterica</i>	21	J
336	NZ_CTHR01000025.1	48643	48800	REVERSE	1971	None	<i>S.enterica</i>	21	J
337	NZ_CTHS01000028.1	8064	8221	FORWARD	1197	None	<i>S.enterica</i>	21	J
338	NZ_CTHT01000013.1	65618	65775	FORWARD	1197	None	<i>S.enterica</i>	21	J
339	NZ_CTHU01000021.1	48531	48688	REVERSE	1971	None	<i>S.enterica</i>	21	J
340	NZ_CTHV01000031.1	48644	48801	REVERSE	1971	None	<i>S.enterica</i>	21	J
341	NZ_CTHW01000027.1	48548	48705	REVERSE	1971	None	<i>S.enterica</i>	21	J
342	NZ_CTHX01000026.1	4962	5119	FORWARD	1197	None	<i>S.enterica</i>	21	J
343	NZ_CTHY01000013.1	48747	48904	REVERSE	1971	None	<i>S.enterica</i>	21	J
344	NZ_CTHA01000028.1	48584	48741	REVERSE	1971	None	<i>S.enterica</i>	21	J
345	NZ_CTHB01000024.1	4927	5084	FORWARD	1197	None	<i>S.enterica</i>	21	J
346	NZ_CTHC01000025.1	14430	14587	FORWARD	1197	None	<i>S.enterica</i>	21	J
347	NZ_CTHD01000026.1	4946	5103	FORWARD	1197	None	<i>S.enterica</i>	21	J
348	NZ_CTHE01000022.1	48504	48661	REVERSE	1971	None	<i>S.enterica</i>	21	J
349	NZ_CTHF01000012.1	71986	72143	FORWARD	1197	None	<i>S.enterica</i>	21	J
350	NZ_CTHG01000024.1	48568	48725	REVERSE	1971	None	<i>S.enterica</i>	21	J

351	NZ_CTMA01000023.1	4951	5108	FORWARD	1197	None	<i>S.enterica</i>	21	J
352	NZ_CTMBO1000026.1	4946	5103	FORWARD	1197	None	<i>S.enterica</i>	21	J
353	NZ_CTMCO1000027.1	4912	5069	FORWARD	1197	None	<i>S.enterica</i>	21	J
354	NZ_CTMDO1000026.1	4917	5074	FORWARD	1197	None	<i>S.enterica</i>	21	J
355	NZ_CTMEO1000028.1	48584	48741	REVERSE	1971	None	<i>S.enterica</i>	21	J
356	NZ_CTMFO1000024.1	4969	5126	FORWARD	1197	None	<i>S.enterica</i>	21	J
357	NZ_CTMGO1000026.1	4946	5103	FORWARD	1197	None	<i>S.enterica</i>	21	J
358	NZ_CTMHO1000025.1	4946	5103	FORWARD	1197	None	<i>S.enterica</i>	21	J
359	NZ_CTMIO1000013.1	66159	66316	FORWARD	1197	None	<i>S.enterica</i>	21	J
360	NZ_CTMJO1000026.1	6758	6915	FORWARD	1197	None	<i>S.enterica</i>	21	J
361	NZ_CTMKO1000024.1	4967	5124	FORWARD	1197	None	<i>S.enterica</i>	21	J
362	NZ_CTML01000025.1	4949	5106	FORWARD	1197	None	<i>S.enterica</i>	21	J
363	NZ_CTMLO1000014.1	48528	48685	REVERSE	1971	None	<i>S.enterica</i>	21	J
364	NZ_CTMNO1000022.1	48530	48687	REVERSE	1971	None	<i>S.enterica</i>	21	J
365	NZ_CTMOO1000027.1	48742	48899	REVERSE	1971	None	<i>S.enterica</i>	21	J
366	NZ_CTMPO1000015.1	65610	65767	FORWARD	1197	None	<i>S.enterica</i>	21	J
367	NZ_CTMQ01000032.1	4912	5069	FORWARD	1197	None	<i>S.enterica</i>	21	J
368	NZ_CTMRO1000026.1	48570	48727	REVERSE	1971	None	<i>S.enterica</i>	21	J
369	NZ_CTMSS01000023.1	48562	48719	REVERSE	1971	None	<i>S.enterica</i>	21	J
370	NZ_CTMTO1000027.1	48584	48741	REVERSE	1971	None	<i>S.enterica</i>	21	J
371	NZ_CTMU01000029.1	4912	5069	FORWARD	1197	None	<i>S.enterica</i>	21	J
372	NZ_CTMV01000017.1	38221	38378	FORWARD	1197	None	<i>S.enterica</i>	21	J
373	NZ_CTMW01000019.1	36038	36195	FORWARD	1197	None	<i>S.enterica</i>	21	J
374	NZ_CTMX01000024.1	48656	48813	REVERSE	1971	None	<i>S.enterica</i>	21	J
375	NZ_CTMZY01000029.1	4915	5072	FORWARD	1197	None	<i>S.enterica</i>	21	J
376	NZ_CTMZ01000024.1	48552	48709	REVERSE	1971	None	<i>S.enterica</i>	21	J
377	NZ_CTNA01000029.1	48504	48661	REVERSE	1971	None	<i>S.enterica</i>	21	J
378	NZ_CTNB01000036.1	36038	36195	FORWARD	1197	None	<i>S.enterica</i>	21	J
379	NZ_CTNC01000027.1	48584	48741	REVERSE	1971	None	<i>S.enterica</i>	21	J
380	NZ_CTND01000019.1	48574	48731	REVERSE	1971	None	<i>S.enterica</i>	21	J
381	NZ_CTNE01000021.1	2707	2864	FORWARD	1197	None	<i>S.enterica</i>	21	J
382	NZ_CTNF01000027.1	4918	5075	FORWARD	1197	None	<i>S.enterica</i>	21	J
383	NZ_CTNG01000077.1	4748	4905	REVERSE	1971	None	<i>S.enterica</i>	21	J
384	NZ_CTNH01000024.1	4950	5107	FORWARD	1197	None	<i>S.enterica</i>	21	J
385	NZ_CTNI01000012.1	65605	65762	FORWARD	1197	None	<i>S.enterica</i>	21	J
386	NZ_CTNJ01000027.1	10036	10193	FORWARD	1197	None	<i>S.enterica</i>	21	J
387	NZ_CTNK01000025.1	48922	49079	REVERSE	1971	None	<i>S.enterica</i>	21	J
388	NZ_CTNL01000024.1	4950	5107	FORWARD	1197	None	<i>S.enterica</i>	21	J
389	NZ_CTNM01000025.1	4947	5104	FORWARD	1197	None	<i>S.enterica</i>	21	J
390	NZ_CTNNO1000021.1	32600	32757	FORWARD	1197	None	<i>S.enterica</i>	21	J
391	NZ_CTNP01000030.1	48619	48776	REVERSE	1971	None	<i>S.enterica</i>	21	J
392	NZ_CTNQ01000025.1	48548	48705	REVERSE	1971	None	<i>S.enterica</i>	21	J
393	NZ_CTNR01000022.1	4950	5107	FORWARD	1197	None	<i>S.enterica</i>	21	J
394	NZ_CTNS01000013.1	48584	48741	REVERSE	1971	None	<i>S.enterica</i>	21	J
395	NZ_CTNS01000030.1	48507	48664	REVERSE	1971	None	<i>S.enterica</i>	21	J
396	NZ_CTNT01000023.1	48581	48738	REVERSE	1971	None	<i>S.enterica</i>	21	J
397	NZ_CTNU01000024.1	48922	49079	REVERSE	1971	None	<i>S.enterica</i>	21	J
398	NZ_CTNW01000029.1	48584	48741	REVERSE	1971	None	<i>S.enterica</i>	21	J
399	NZ_CTNX01000051.1	4937	5094	FORWARD	1197	None	<i>S.enterica</i>	21	J
400	NZ_CTNY01000048.1	2509	2666	REVERSE	1971	None	<i>S.enterica</i>	21	J
401	NZ_CTNZ01000013.1	77388	77545	FORWARD	1197	None	<i>S.enterica</i>	21	J
402	NZ_CTOB01000025.1	48546	48703	REVERSE	1971	None	<i>S.enterica</i>	21	J
403	NZ_CTOC01000012.1	48504	48661	REVERSE	1971	None	<i>S.enterica</i>	21	J
404	NZ_CTOD01000023.1	32606	32763	FORWARD	1197	None	<i>S.enterica</i>	21	J
405	NZ_CTOE01000025.1	4953	5110	FORWARD	1197	None	<i>S.enterica</i>	21	J
406	NZ_CTOF01000023.1	4950	5107	FORWARD	1197	None	<i>S.enterica</i>	21	J
407	NZ_CTOG01000019.1	38222	38379	FORWARD	1197	None	<i>S.enterica</i>	21	J
408	NZ_CTOH01000029.1	48540	48697	REVERSE	1971	None	<i>S.enterica</i>	21	J
409	NZ_CTOI01000025.1	48504	48661	REVERSE	1971	None	<i>S.enterica</i>	21	J
410	NZ_CTOJ01000026.1	48584	48741	REVERSE	1971	None	<i>S.enterica</i>	21	J
411	NZ_CTOK01000027.1	4928	5085	FORWARD	1197	None	<i>S.enterica</i>	21	J
412	NZ_CTOL01000025.1	48584	48741	REVERSE	1971	None	<i>S.enterica</i>	21	J
413	NZ_CTOM01000012.1	71798	71955	FORWARD	1197	None	<i>S.enterica</i>	21	J
414	NZ_CTON01000014.1	48503	48660	REVERSE	1971	None	<i>S.enterica</i>	21	J
415	NZ_CTOO01000024.1	4954	5111	FORWARD	1197	None	<i>S.enterica</i>	21	J
416	NZ_CTOP01000054.1	4948	5105	FORWARD	1197	None	<i>S.enterica</i>	21	J
417	NZ_CTOQ01000029.1	4946	5103	FORWARD	1197	None	<i>S.enterica</i>	21	J
418	NZ_CTOR01000022.1	48584	48741	REVERSE	1971	None	<i>S.enterica</i>	21	J
419	NZ_CTOS01000025.1	48548	48705	REVERSE	1971	None	<i>S.enterica</i>	21	J
420	NZ_CTOT01000029.1	4911	5068	FORWARD	1197	None	<i>S.enterica</i>	21	J
421	NZ_CTOU01000026.1	48584	48741	REVERSE	1971	None	<i>S.enterica</i>	21	J

422	NZ_CTOW01000016.1	48587	48744	REVERSE	1971	None	<i>S.enterica</i>	21	J
423	NZ_CTOX01000024.1	48848	49005	REVERSE	1971	None	<i>S.enterica</i>	21	J
424	NZ_CTOY01000023.1	4965	5122	FORWARD	1197	None	<i>S.enterica</i>	21	J
425	NZ_CTOZ01000025.1	48546	48703	REVERSE	1971	None	<i>S.enterica</i>	21	J
426	NZ_CTPA01000028.1	48748	48905	REVERSE	1971	None	<i>S.enterica</i>	21	J
427	NZ_CTPB01000028.1	4936	5093	FORWARD	1197	None	<i>S.enterica</i>	21	J
428	NZ_CTPC01000026.1	48530	48687	REVERSE	1971	None	<i>S.enterica</i>	21	J
429	NZ_CTPD01000027.1	48527	48684	REVERSE	1971	None	<i>S.enterica</i>	21	J
430	NZ_CTPE01000030.1	4912	5069	FORWARD	1197	None	<i>S.enterica</i>	21	J
431	NZ_CTPF01000024.1	4971	5128	FORWARD	1197	None	<i>S.enterica</i>	21	J
432	NZ_CTPG01000013.1	48747	48904	REVERSE	1971	None	<i>S.enterica</i>	21	J
433	NZ_CTPH01000024.1	48554	48711	REVERSE	1971	None	<i>S.enterica</i>	21	J
434	NZ_CTPI01000025.1	48574	48731	REVERSE	1971	None	<i>S.enterica</i>	21	J
435	NZ_CTPJ01000012.1	65819	65976	FORWARD	1197	None	<i>S.enterica</i>	21	J
436	NZ_CTPK01000022.1	4952	5109	FORWARD	1197	None	<i>S.enterica</i>	21	J
437	NZ_CTPL01000012.1	65801	65958	FORWARD	1197	None	<i>S.enterica</i>	21	J
438	NZ_CTPM01000060.1	2539	2696	REVERSE	1971	None	<i>S.enterica</i>	21	J
439	NZ_CTPN01000027.1	48584	48741	REVERSE	1971	None	<i>S.enterica</i>	21	J
440	NZ_CTPP01000015.1	48922	49079	REVERSE	1971	None	<i>S.enterica</i>	21	J
441	NZ_CTPQ01000026.1	4950	5107	FORWARD	1197	None	<i>S.enterica</i>	21	J
442	NZ_CTPR01000046.1	4912	5069	FORWARD	1197	None	<i>S.enterica</i>	21	J
443	NZ_CTPS01000025.1	48546	48703	REVERSE	1971	None	<i>S.enterica</i>	21	J
444	NZ_CTPT01000025.1	48546	48703	REVERSE	1971	None	<i>S.enterica</i>	21	J
445	NZ_CTPU01000011.1	65560	65717	FORWARD	1197	None	<i>S.enterica</i>	21	J
446	NZ_CTPV01000030.1	5865	6022	FORWARD	1197	None	<i>S.enterica</i>	21	J
447	NZ_CTPW01000025.1	48584	48741	REVERSE	1971	None	<i>S.enterica</i>	21	J
448	NZ_CTPX01000028.1	4929	5086	FORWARD	1197	None	<i>S.enterica</i>	21	J
449	NZ_CTPY01000028.1	5865	6022	FORWARD	1197	None	<i>S.enterica</i>	21	J
450	NZ_CTPZ01000024.1	4972	5129	FORWARD	1197	None	<i>S.enterica</i>	21	J
451	NZ_CTQA01000023.1	48922	49079	REVERSE	1971	None	<i>S.enterica</i>	21	J
452	NZ_CTQB01000031.1	6930	7087	FORWARD	1197	None	<i>S.enterica</i>	21	J
453	NZ_CTQC01000051.1	4949	5106	FORWARD	1197	None	<i>S.enterica</i>	21	J
454	NZ_CTQD01000014.1	48580	48737	REVERSE	1971	None	<i>S.enterica</i>	21	J
455	NZ_CTQE01000025.1	48584	48741	REVERSE	1971	None	<i>S.enterica</i>	21	J
456	NZ_CTQF01000029.1	48780	48937	REVERSE	1971	None	<i>S.enterica</i>	21	J
457	NZ_CTQG01000030.1	48570	48727	REVERSE	1971	None	<i>S.enterica</i>	22	J
458	NZ_CTQH01000026.1	4947	5104	FORWARD	1197	None	<i>S.enterica</i>	21	J
459	NZ_CTQI01000023.1	48584	48741	REVERSE	1971	None	<i>S.enterica</i>	21	J
460	NZ_CTQJ01000039.1	10958	11115	REVERSE	1971	None	<i>S.enterica</i>	21	J
461	NZ_CTQK01000027.1	4921	5078	FORWARD	1197	None	<i>S.enterica</i>	21	J
462	NZ_CTQL010000213.1	102	259	FORWARD	1197	None	<i>S.enterica</i>	21	J
463	NZ_CTQM01000024.1	48577	48734	REVERSE	1971	None	<i>S.enterica</i>	21	J
464	NZ_CTQN01000025.1	48665	48822	REVERSE	1971	None	<i>S.enterica</i>	21	J
465	NZ_CTQO01000022.1	48604	48761	REVERSE	1971	None	<i>S.enterica</i>	21	J
466	NZ_CTQP01000026.1	4954	5111	FORWARD	1197	None	<i>S.enterica</i>	21	J
467	NZ_CTQQ01000023.1	48922	49079	REVERSE	1971	None	<i>S.enterica</i>	21	J
468	NZ_CTR01000025.1	4950	5107	FORWARD	1197	None	<i>S.enterica</i>	21	J
469	NZ_CTRS01000022.1	48552	48709	REVERSE	1971	None	<i>S.enterica</i>	21	J
470	NZ_CTRT01000021.1	38177	38334	FORWARD	1197	None	<i>S.enterica</i>	21	J
471	NZ_CTRU01000025.1	4946	5103	FORWARD	1197	None	<i>S.enterica</i>	21	J
472	NZ_CTRV01000020.1	48584	48741	REVERSE	1971	None	<i>S.enterica</i>	21	J
473	NZ_CTRW01000026.1	4946	5103	FORWARD	1197	None	<i>S.enterica</i>	21	J
474	NZ_CTRX01000024.1	4946	5103	FORWARD	1197	None	<i>S.enterica</i>	21	J
475	NZ_JHAE01000008.1	4903	5045	FORWARD	1182	None	<i>S.enterica</i>	32	J
476	NZ_JHAF01000017.1	5865	6004	FORWARD	1179	None	<i>S.enterica</i>	33	J
477	NZ_JHAG01000055.1	48534	48678	REVERSE	1971	None	<i>S.enterica</i>	34	J
478	NZ_JHAH01000050.1	2589	2728	FORWARD	1179	None	<i>S.enterica</i>	33	J
479	NZ_JHAI01000014.1	5865	6004	FORWARD	1179	None	<i>S.enterica</i>	33	J
480	NZ_JMMJ01000010.1	33056	33214	FORWARD	1199	None	<i>S.enterica</i>	31	J
481	NZ_JRGR01000007.1	32652	32809	FORWARD	1197	None	<i>S.enterica</i>	21	J
482	NZ_JWQY01000033.1	28774	28910	FORWARD	1176	None	<i>S.enterica</i>	28	J
483	NZ_JWRA01000012.1	49742	49880	REVERSE	1971	None	<i>S.enterica</i>	27	J
484	NZ_JWRE01000019.1	49961	50118	REVERSE	1971	None	<i>S.enterica</i>	21	J
485	NZ_LAOX01000007.1	48532	48689	REVERSE	1971	None	<i>S.enterica</i>	21	J
486	NZ_LAPC01000010.1	48532	48689	REVERSE	1971	None	<i>S.enterica</i>	21	J
487	NZ_LAPD01000007.1	38177	38334	FORWARD	1197	None	<i>S.enterica</i>	21	J
488	NZ_LAPG01000010.1	48532	48689	REVERSE	1971	None	<i>S.enterica</i>	21	J
489	NZ_LAPH01000005.1	48524	48681	REVERSE	1971	None	<i>S.enterica</i>	21	J
490	NZ_LAPM01000004.1	48532	48689	REVERSE	1971	None	<i>S.enterica</i>	21	J
491	NZ_LAPN01000035.1	48532	48689	REVERSE	1971	None	<i>S.enterica</i>	21	J
492	NZ_LAPO01000027.1	48532	48689	REVERSE	1971	None	<i>S.enterica</i>	21	J

493	NZ_LAPP01000010.1	48532	48689	REVERSE	1971	None	<i>S.enterica</i>	21	J
494	NZ_LFCC01000070.1	32720	32877	FORWARD	1197	None	<i>S.enterica</i>	21	J
495	NZ_LFZJ01000010.1	15687	15844	REVERSE	1974	None	<i>E.coli</i>	21	J
496	NZ_LHER01000032.1	48771	48928	REVERSE	1971	None	<i>S.enterica</i>	21	J
497	NZ_LHNX01000009.1	32690	32847	FORWARD	1197	None	<i>S.enterica</i>	21	J
498	NZ_LHOF01000037.1	32576	32733	FORWARD	1197	None	<i>S.enterica</i>	21	J
499	NZ_LHOF01000033.1	17	174	FORWARD	1197	None	<i>S.enterica</i>	21	J
500	NZ_AWLW01000309.1	2027	2189	REVERSE	1993	None	<i>V.parahaemolyticus</i>	36	K
501	NZ_AJTK01000008.1	6526	6688	REVERSE	1973	None	<i>Pseudoalteromonas</i>	37	L
502	NZ_AJYZ01000127.1	11069	11231	FORWARD	1215	None	<i>Vibrio crassostreae</i>	38	L
503	NZ_JNMG01000050.1	15447	15600	FORWARD	1171	None	<i>E.coli</i>	39	M
504	NZ_CBWG010000185.1	3768	3934	REVERSE	1974	None	<i>E.coli</i>	40	N
505	NZ_GG773461.1	3644	3810	REVERSE	2059	None	<i>E.coli</i>	40	N
506	NZ_GG773691.1	3559	3725	REVERSE	1974	None	<i>E.coli</i>	40	N
507	NZ_JSIU01000101.1	3560	3726	REVERSE	1974	None	<i>E.coli</i>	40	N
508	NZ_JSRC01000008.1	3970	4136	REVERSE	1974	None	<i>E.coli</i>	40	N
509	NZ_JSRC01000068.1	4044	4210	REVERSE	1974	None	<i>E.coli</i>	40	N
510	NZ_JVNX01000164.1	3579	3745	REVERSE	1974	None	<i>Shigella boydii</i>	40	N
511	NZ_JVZI01000056.1	20905	21071	FORWARD	1208	None	<i>E.coli</i>	40	N
512	NZ_KI534514.1	3559	3725	REVERSE	1974	None	<i>E.coli</i>	40	N
513	NZ_KQ087714.1	64630	64796	FORWARD	1193	None	<i>E.coli</i>	40	N
514	NZ_LCWG01000050.1	20911	21077	FORWARD	1208	None	<i>E.coli</i>	40	N
515	NZ_LAUM01000015.1	49165	49322	FORWARD	1239	None	<i>Vibrio</i>	41	O
516	NZ_JZYL01000045.1	34449	34618	FORWARD	1278	None	<i>Pluralibacter gergoviae</i>	42	P
517	NZ_AHAX01000006.1	18952	19118	FORWARD	255	None	<i>E.coli</i>	43	Q
518	NZ_AKVS01000069.1	79728	79894	FORWARD	228	None	<i>Pectobacterium wasabiae</i>	45	Q
519	NZ_CXYK01000012.1	74333	74499	FORWARD	255	None	<i>E.coli</i>	44	Q
520	NZ_AJYG01000006.1	57620	57772	REVERSE	1961	None	<i>Enterovibrio calviensis</i>	46	R
521	NZ_APZJ01000027.1	38780	38940	FORWARD	211	Exist	<i>E.coli</i>	47	S
522	NZ_AYCX01000070.1	15609	15769	REVERSE	986	Exist	<i>S.enterica</i>	47	S
523	NZ_AYDU01000163.1	36665	36825	FORWARD	211	Exist	<i>S.enterica</i>	47	S
524	NZ_JSKF01000062.1	113510	113670	FORWARD	211	Exist	<i>E.coli</i>	47	S
525	NZ_JVVR01000226.1	37663	37828	REVERSE	984	Exist	<i>E.coli</i>	48	T