

Supplementary 1.

Comparison of the conserved gene between *dtxR*, *pld*, and 16S rRNA of *C. ulcerans*. Nucleotide base mutations of *dtxR* gene of *C. ulcerans*.

[illegible]

Nucleotide base mutations of *pld* gene of *C. ulcerans*.

[illegible]

Nucleotide base mutations of *16S rRNA* gene of *C. ulcerans*.

Strain	Mutation Position			
	768	401	145	117
	G	T	T	T
C. ulcerans FR0358	-	G	ins	-
C. ulcerans 210931	-	-	ins	-
C. ulcerans 05146	A	-	ins	-
C. ulcerans 0102	-	-	ins	-
C. ulcerans BR-A022	-	Del	G	ins
C. ulcerans 809	A	-	-	-
C. ulcerans 210932	-	-	ins	-
C. ulcerans 131001	A	-	-	-
C. ulcerans 131002	A	-	-	-
C. ulcerans FR0111	A	G	-	-

A=Adenine, T=Thymine, G=Guanine, C=Cytosine, Del=Deletion, Ins=Insertion.

Supplementary 2.

Comparison of the conserved gene between *dtxR*, *pld*, and 16S rRNA of *C. pseudotuberculosis*.

Nucleotide base mutations of *dxrR* gene of *C.pseudotuberculosis*.

	Strain	dNR gene	Mutation Position pid gene	16S rRNA gene
	C. pseudotuberculosis 267	A G T C G C	G A T A C T A G C C G A A T C G A A T T G A G T A C A C	T A T A G C A C A C
	C. pseudotuberculosis 282	-	-	-
	C. pseudotuberculosis FRC-1	-	-	-
	C. pseudotuberculosis E19	A - T A T C A A	-	Del
	C. pseudotuberculosis C23T	-	-	-
	C. pseudotuberculosis I19	-	-	-
	C. pseudotuberculosis 1002	-	-	-
	C. pseudotuberculosis PA T10	-	-	-
	C. pseudotuberculosis 42-02-A	-	-	-
	C. pseudotuberculosis 399-5	-	-	-
	C. pseudotuberculosis p54E96	-	-	-
	C. pseudotuberculosis 48252	-	-	-
	C. pseudotuberculosis FI 2193/67	-	-	-
	C. pseudotuberculosis 31	C A - T A T C - A	G C G A - A G G C A G C C	Del
	C. pseudotuberculosis ME30	A - T A T C A A	-	Del
	C. pseudotuberculosis MB11	A - T A T C A A	-	Del
	C. pseudotuberculosis 258	A - T A T C A A	-	C G Del
	C. pseudotuberculosis S16	A - T A T C A A	-	Del
	C. pseudotuberculosis 106-A	A - T A T C A A	-	-
	C. pseudotuberculosis CP 82/97	A - T A T C A A	-	C G Del
	C. pseudotuberculosis MB14	A - T A T C A A	-	Del
	C. pseudotuberculosis Cp162	-	-	-
	C. pseudotuberculosis E56	-	-	-
	C. pseudotuberculosis PO222/4-1	-	-	-
	C. pseudotuberculosis MEX25	-	-	-
	C. pseudotuberculosis PA07	-	-	-
	C. pseudotuberculosis NT	-	-	-
	C. pseudotuberculosis PO269-5	-	-	-
	C. pseudotuberculosis 29156	-	-	-
	C. pseudotuberculosis 12C	-	-	-
	C. pseudotuberculosis 226	-	-	-
	C. pseudotuberculosis VO57	-	-	-
	C. pseudotuberculosis CS 10	-	-	-
	C. pseudotuberculosis 1002B	-	-	-
	C. pseudotuberculosis ME66	-	-	-

A=Adenine, T=Thymine, G=Guanine, C=Cytosine, Del=Deletion, Ins=Insertion.