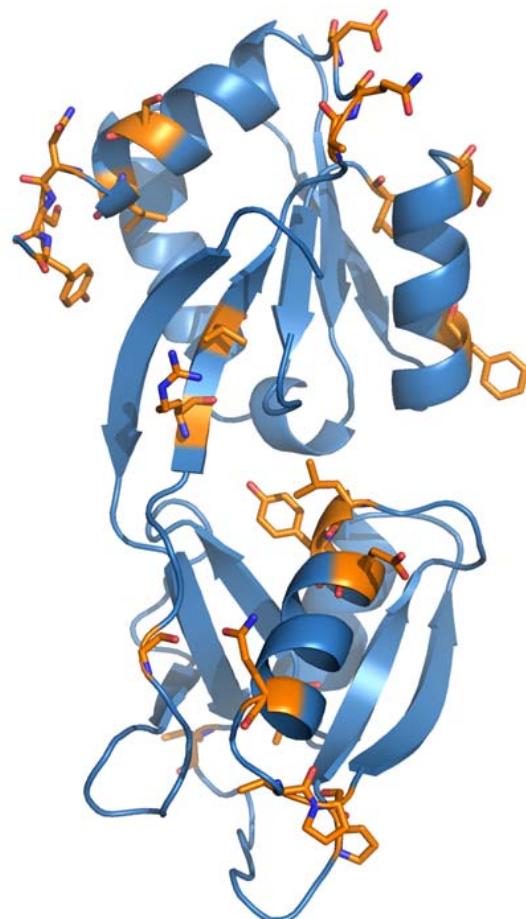


Supplementary Material

1	10	20	30	40	50	60	70
<i>Y. pseudotuberculosis</i>	MTNANRPIIINLDLLRTFVAVADLNTFA	AAAAAVCRTQS	AVSQQMQRLEQLVGKELFARHGRNKLLTEH				
<i>Y. enterocolitica</i>	MTNANRPIIINLDLLRTFVAVADLNTFA	AAA	AVCRTQS	AVSQQMQRLEQLVGKELFARHGRNKLLTEH			
80 90 100 110 120 130 140 Y. pseudotuberculosis GLQLLGYARKILRFNDEACTSLMYSNMEGSLIIGASDDTADTLLPFLLNRVATLYPRLAIDVRVKRSPI Y. enterocolitica GLQLLGYARKILRFNDEACTSLMYSNVEGSLIIGASDDTADTLLPFLLNRVATLYPRLAIDVRVKRSPLI ▲							
150 160 170 180 190 200 210 Y. pseudotuberculosis ADMLSSGEVDLAITTAKVD S HPHVILRTSPTLWYCS V DYQFQPGEPVPLVVMDEPS L YREMAIEHLT Q AG Y. enterocolitica ADMLSHGEADLAITTAKVD N HPHVILRTSPTLWYCS A DYQFQPGESVPLVVMDEPS P FRDMAIEHLTRAG							
220 230 240 250 260 270 280 Y. pseudotuberculosis VPWRIAYVASSLSAIRAAVRAGLG V TARPIEMMSPDLRV L GTEGLP G LPE T RYVLCKDK Q C D NELALAI Y. enterocolitica IAWRIAYVASSLSAIRAAVRAGLG I TARPIEMMSPDLRV L GTEGLP R LPE H YSLCKDSRC S NELALAI							
290 300 310							
Y. pseudotuberculosis F S ALQNSYQHTMS S ESS L I L DSDYLTG D E D Y. enterocolitica FDAMQTGH Q H G L Q SGT D LTLG S DFLI D QS							

Supplementary Fig. 1



Supplementary Fig. 2