

Table S2. Virulence associated genes (VAGs) searched in the 67 bovine *P. multocida* genomes belonging to ST13, ST79 and ST80.

Function	VAGs	Accession number	Description
Adhesins	<i>hsf1</i>	AAK02798.1	Autotransporter adhesion
	<i>hsf2</i>	ANJ91000.1	Autotransporter adhesion
	<i>flp1</i>	AFF24176.1	Flp pilin
	<i>ptfA</i>	AKO69808.1	Type 4 fimbriae
	<i>fimA</i>	AAK03010.1	Fimbriae
	<i>pfhA</i>	AAK61595.1	Filamentous hemagglutinin
	<i>pfhB1</i>	AAK02141.1	Filamentous hemagglutinin
	<i>tadD</i>	AAK02930.1	Putative nonspecific tight adherence protein D
Iron acquisition factors	<i>exbB</i>	AAK03270.1	Accessory protein Ton-dependent transport of iron compounds
	<i>exbD</i>	AAK03271.1	Accessory protein Ton-dependent transport of iron compound
	<i>fur</i>	AAK02436.1	Ferric uptake regulation protein
	<i>hgbA</i>	AAQ14873.1	A hemoglobin-binding protein
	<i>hgbB</i>	APX53047.1	B hemoglobin-iron uptake
	<i>tbpA</i>	AAK02460.1	Transferrin binding protein A
	<i>tbpB</i>	AAX55324.1	Transferrin binding protein B
	<i>tonB</i>	AAK03272.1	Iron transporters, transport ferric-siderophore complexes
Outer membrane proteins	<i>plpB</i>	AAK03814.1	Lipoprotein B
	<i>plpE</i>	AAK03601.1	Lipoprotein E
	<i>ompA</i>	AFU91511.1	Outer membrane protein A
	<i>ompH</i>	AAK02472.1	Outer membrane protein H
	<i>OMA87</i>	AAC44600.1	Outer membrane protein 87
Hyaluronidase Sialidases	<i>PmHAS</i>	AAC38318.2	Hyaluronan synthase
	<i>nanB</i>	AAG35309.1	Outer membrane-associated proteins, an autotransporter protein
	<i>nanH</i>	AAG35310.1	Outer membrane-associated proteins, small sialidases
Superoxid dismutases	<i>sodA</i>	AAK02085.1	Superoxide dismutase
	<i>sodC</i>	AAK04036.1	Superoxide dismutase
Toxin	<i>toxA</i>	AAW57319.1	Dermonecrotic toxin