

**Supplementary Table 1.** *Mycoplasma bovis* strains used for preliminary screening of candidate genes for multi-locus sequence typing.

Loci	Isolate	Breed	Affected body system	Location (Canadian postal code)
<i>adk</i>	1971 <i>M. bovis</i> 227	Beef	Arthritis/joint	N
	1978-M3262	Dairy	Respiratory	N
	1979-M3713	Unknown	Reproductive	Unknown
	1981-M5242	Dairy	Respiratory	QC
	1982-M6152	Dairy	Respiratory	N
	1982-M6415	Beef	Eye	N
	1988-M12230-8	Dairy	Mastitis/udder	K
	2008-002006	Beef	Respiratory	N
	2009-012575	Dairy	Mastitis/udder	N
	2008-049894	Beef	Respiratory	K
<i>efp</i>	1971 <i>M. bovis</i> 227	Beef	Arthritis/joint	N
	2009-012575	Dairy	Mastitis/udder	N
	AFLP-170	Beef	Respiratory	N
	AFLP-186	Beef	Respiratory	N
	AFLP-188	Beef	Respiratory	N
<i>gmk</i>	1971 <i>M. bovis</i> 227	Beef	Arthritis/joint	N
	1988-M12230-8	Dairy	Mastitis/udder	K
	2009-12575	Dairy	Mastitis/udder	N
	AFLP-170	Beef	Respiratory	N
	AFLP-186	Beef	Respiratory	N
	AFLP-188	Beef	Respiratory	N
<i>gyrB</i>	1971 <i>M. bovis</i> 227	Beef	Arthritis/joint	N
	1978-M3262	Dairy	Respiratory	N
	1982-M6870	Beef	Respiratory	N
	1982-6995-cap	Caprine	Respiratory	L
	1983-M7337	Beef	Respiratory	L
	1984-M7922	Dairy	Arthritis/joint	L
	1986-M10179	Dairy	Reproductive	K
	1986-M10080	Veal	Other/unknown	K
	1987-M10916	Beef	Respiratory	N
	1988-M11985	Beef	Reproductive	N
	1989-M13696	Beef	Arthritis/joint	N
	1992-M15950	Beef	Respiratory	N
1991-M14729	Other	Respiratory	N	
1994-M17952	Beef	Respiratory	L	

Loci	Isolate	Breed	Affected body system	Location (Canadian postal code)
	1997-M21852	Dairy	Respiratory	N
	2000-M25499	Dairy	Respiratory	N
	2004-M29780	Dairy	Other/unknown	N
	2008-002006	Beef	Respiratory	N
	2009-046526	Beef	Respiratory	N
<i>rpoB</i>	1971 <i>M. bovis</i> 227	Beef	Arthritis/joint	N
	1988-M12230-8	Dairy	Mastitis/udder	K
	2008-007578	Unknown	Unknown	Unknown
	2009-012575	Dairy	Mastitis/udder	N
	AFLP-170	Beef	Respiratory	N
	AFLP-186	Beef	Respiratory	N
	AFLP-188	Beef	Respiratory	N
<i>tpiA</i>	1971 <i>M. bovis</i> 227	Beef	Arthritis/joint	N
	1978-M3262	Dairy	Respiratory	N
	1979-M3713	Unknown	Reproductive	Unknown
	1981-M5242	Dairy	Respiratory	QC
	1982-M6152	Beef	Eye	N
	1988-M12230-8	Dairy	Mastitis/udder	K
	2008-002006	Beef	Respiratory	N
	2008-049894	Beef	Respiratory	K
	AFLP-170	Beef	Respiratory	N
	AFLP-186	Beef	Respiratory	N
	AFLP-188	Beef	Respiratory	N

AFLP = amplified fragment length polymorphism.