Primer sequences used for MLST of *Ornithobacterium rhinotracheale* (ORT)

Gene	Protein product	Primer (5'→3')[a]	Fragment size used for MLST	Annealing temperature
adk	adenylate kinase-like kinase	Forward: GGCAGTGGAAAAGGAACTCA Reverse: TCTAAACTTCCTTCGCCGTTT	393 bp	52°C
aroE	shikimate 5-dehydrogenase	Forward: GGACTCATCGGCAGAAACAT Reverse: TGATGTTGGCATCTTGTGCT	489 bp	52°C
fumC	fumarase, class II	Forward: CACGCCACAAGGTTATGATG Reverse: TAAACGCACGGCTTCTTCTT	489 bp	52°C
gdhA	glutamate dehydrogenase/leucine dehydrogenase	Forward: TCTGGTAGAGCACCAAACCA Reverse: GCTTGTTTTGCAACCACTCA	480 bp	52°C
mdh	malate dehydrogenase (NAD)	Forward: CGCGAAGAATTAATCGGAAC Reverse: CTCTTACTTGCGCAACAGCA	519 bp	52°C
pgi	glucose-6-phosphate isomerase	Forward: AAAGCGACATTGCCAAACAT Reverse: TTTCGAGTTCCGCTCTCACT	492 bp	52°C
pmi	phosphomannose isomerase	Forward: TGATGTGCAAGGCAATGTTT Reverse: CTGTGTCGAGCGAAATGCTA	489 bp	52°C

Additional primers used for MLST of ORT strains from pigeons

Gene	Protein product	Primer (5'→3')	Fragment size used for MLST	Annealing temperature
gdhA	*glutamate dehydrogenase/* leucine dehydrogenase	gdhAX-f: TCNGCAAAYATCCATGTAG	480 bp	54°C
		gdhAX-r: ACCGTTACACAAAATRTCTG		
pgi	*glucose-6-phosphate isomerase*	pgiX-r: TCRGATTTTCCAAARGCAAG	492 bp	52°C
pmi	*phosphomannose isomerase*	pmiX-r: ATTCACTTTCGATGACAG	489 bp	50°C

Citation:

Thieme S, Mühldorfer K, Gad, W, Lüschow D, Hafez HM (2016) Molecular Characterization of the Recently Emerged Poultry Pathogen *Ornithobacterium rhinotracheale* by Multilocus Sequence Typing. PLoS ONE 11(2): e0148158. doi:10.1371/journal.pone.0148158

Thieme S, Hafez HM, Gutzer S, Warkentin N, Lüschow D, Mühldorfer K (in press) Multilocus sequence typing of *Ornithobacterium rhinotracheale* isolated from pigeons and birds of prey revealed new insights into its population structure. Veterinary and Animal Science. http://dx.doi.org/10.1016/j.vas.2016.10.002