

Supplementary Table S1: rt-LAMP primers, mpt64 gene showing the primer positions and Specificity of Real-time LAMP (rt-LAMP) amplification region using BLASTN and *In silico* PCR analysis (NCBI Reference Sequence: NC_000962.3; GeneID:885925; 2187504 – 2188190. *Mycobacterium tuberculosis* H37Rv)

Primers	Sequence (5' - 3')	Base pair	GC%	Tm (°C)
F3	TGCTCAAGGTCTACCAGAA	19	47	60
B3	GTGACTGCGAAGTTCTGAT	19	47	60
FIP	CCTGCCACAGCGTGTTCATCCAACGACCACGTACAAG	36	58	F2/B2: 65
BIP	ATCCGCTGCCAGTCGTCTGCTATCGATACCTGTTGTCC	38	58	F1c/B1c: 69
LF	AGGTGATTGGCTTGCGAT	18	50	60
LB	AAGGTGAACTGAGCAAGCA	18	57	60

5' GTGCGCATCAAGATCTTCATGCTGGTCACGGCTGTCGTTTTGCTCTGTTGTTTCGGGTGTGG
CCACGGCCGCGCCCAAGACCTACTGCGAGGAGTTGAAAGGCACCGATAACGGCCAGGCGTG
CCAGATTCAAATGTCCGACCCGGCCTACAACATCAACATCAGCCTGCCAGTTACTACCCCG
ACCAGAAGTCGCTGGAAAATTACATCGCCCAGACGCGCGACAAGTTCCTCAGCGCGGCCAC
ATCGTCCACTCCACGCGAAGCCCCCTACGAATTGAATATCACCTCGGCCACATACCAGTCCG
CGATAACGCCGCGTGGTACGCAGGCCGTGGT **TGCTCAAGGTCTACCAGAA**CGCCGGCGGCAC
FIP (F2) **LF**
GCACCCAACGACCACGTACAAGGCCTTCGATTGGGACCAGGCCT **ATCGCAAGCCAATCACCT**
FIP (F1c) **BIP (B1c)**
ATGACACGCTGTGGCAGGCTGACACCGATCCGCTGCCAGTCGTCTTCCCCATTGTGCA**AAGGT**
LB **BIP (B2)**
GAACTGAGCAAGCAGACCGGACAACAGGTATCGATAGCGCCGAATGCCGGCTTGGAACCCGG
B3
TGAATT**ATCAGAACTTCGCAGTCAC**GAAACGACGGGGTGATTTTCTTCTTCAACCCGGGGGAG
TTGCTGCCCCGAAGCAGCCGGCCCAACCCAGGTATTGGTCCCACGTTCCGCGATCGACTCGAT
GCTGGCCTAG 3'

RID: UK6BGHJM013

Program: BLASTN

Query #1: Query ID: lcl|Query_3613051; Length: 241bp;

NC_000962.3 GeneID:[885925](#)

>NC_000962.3:c2223692-2223452 *Mycobacterium tuberculosis* H37Rv, complete genome

TGCTCAAGGTCTACCAGAACGCCGGCGGCACGCACCCAACGACCACGTACAAGGCCTTCGATTGGGACCAGGCCTATCG
CAAGCCAATCACCTATGACACGCTGTGGCAGGCTGACACCGATCCGCTGCCAGTCGTCTTCCCCATTGTGCAAGGTGAA
CTGAGCAAGCAGACCGGACAACAGGTATCGATAGCGCCGAATGCCGGCTTGGACCCGGTGAATTATCAGAACTTCGCA
GTCAC

MTBC		BLASTN Similarity	<i>In silico</i> PCR ^a
1.	<i>Mycobacterium tuberculosis complex</i>	100%	241 bp product Amplification
Non- Tuberculous Mycobacterium			
1.	<i>Mycobacterium marinum</i>	Non- Significant	No Amplification
2.	<i>Mycobacterium avium complex</i>	Non-Significant	No Amplification
3.	<i>Mycobacterium ulcerans</i>	Non-Significant	No Amplification
4.	<i>Mycobacterium abscessus</i>	Non-Significant	No Amplification
5.	<i>Mycobacterium smegmatis</i>	Non-Significant	No Amplification
6.	<i>Mycobacterium intracellulare</i>	Non-Significant	No Amplification
7.	<i>Mycobacterium leprae</i>	Non-Significant	No Amplification
8.	<i>Mycobacterium kansasii</i>	Non- Significant	-
9.	<i>Mycobacterium simiae</i>	Non- Significant	-
10.	<i>Mycobacterium scrofulaceum</i>	Non-Significant	-
11.	<i>Mycobacterium szulgai</i>	Non-Significant	-
12.	<i>Mycobacterium gordonae</i>	Non-Significant	-
13.	<i>Mycobacterium simiae</i>	Non- Significant	-
14.	<i>Mycobacterium xenopei</i>	Non-Significant	-
15.	<i>Mycobacterium malmoeense</i>	Non-Significant	-
16.	<i>Mycobacterium terrae complex</i>	Non-Significant	-
17.	<i>Mycobacterium haemophilum</i>	Non-Significant	-
18.	<i>Mycobacterium genavense</i>	Non-Significant	-
19.	<i>Mycobacterium xenopei</i>	Non-Significant	-
20.	<i>Mycobacterium chelonae</i>	Non-Significant	-
21.	<i>Mycobacterium fortuitum</i>	Non-Significant	-
22.	<i>Mycobacterium peregrinum</i>	Non-Significant	-
23.	<i>Mycobacterium vaccae</i>	Non-Significant	-
24.	<i>Mycobacterium chimaera</i>	Non-Significant	-
25.	<i>Mycobacterium kansasii</i>	Non- Significant	-
26.	<i>Mycobacterium simiae</i>	Non- Significant	-
Nocardia Bacteria			
1.	<i>Nocardioides bacterium</i>	Non-Significant	-
2.	<i>Nocardia asteroides</i>	Non-Significant	-
3.	<i>Nocardia brasiliensis</i>	Non-Significant	-

^a Tested using F3 and B3 primers

References

1. Zheng Zhang, Scott Schwartz, Lukas Wagner, and Webb Miller (2000), "A greedy algorithm for aligning DNA sequences", J Comput Biol 2000; 7(1-2):203-14.
2. Bikandi, J., San Millán, R., Rementeria, A., and Garaizar, J. 2004. In silico analysis of complete bacterial genomes: PCR, AFLP-PCR, and endonuclease restriction. Bioinformatics 20:798-9.