



PRINT DATE: 2025-03-24 20:57:06 +0100

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RESULT PAGE: [https://tygs.dsmz.de/user\\_results/show?guid=371cab98-ab08-459e-b2d6-2c00dcc21002](https://tygs.dsmz.de/user_results/show?guid=371cab98-ab08-459e-b2d6-2c00dcc21002)

### Table 1: Phylogenies

**Publication-ready versions** of both the genome-scale GBDP tree and the 16S rRNA gene sequence tree can be customized and exported either in SVG (vector graphic) or PNG format from within the phylogeny viewers in your TYGS result page. For publications the **SVG format is recommended** because it is lossless, always keeps its high resolution and can also be easily converted to other popular formats such as PDF or EPS. Please follow the link provided above!

### Table 2: Identification

The below list contains the result of the TYGS species identification routine.

Explanation of remarks that might occur in the below table:

**remark [R1]:** The TYGS type strain database is automatically updated on an almost daily basis. However, if a particular type strain genome is not available in the TYGS database, this can have several reasons which are detailed in the FAQ. You can request an extended 16S rRNA gene analysis via the 16S tree viewer found in your result page to detect **not yet genome-sequenced** type strains relevant for your study.

**remark [R2]:** > 70% dDDH value (formula  $d_4$ ) and (almost) minimal dDDH values for gene-content formulae  $d_0$  and  $d_6$  indicate a potentially unreliable identification result and should thus be checked via the 16S rRNA gene sequence similarity. Such strong deviations can, in principle, be caused by sequence contamination.

**remark [R3]:** G+C content difference of > 1 % indicates a potentially unreliable identification result because within species G+C content varies no more than 1 %, if computed from genome sequences (PMID: 24505073).

Strain	Conclusion	Identification result	Remark
' <i>Mycobacterium kansasii</i> ' (NZ_LWCL00000000)	belongs to known species	<i>Mycobacterium kansasii</i>	
' <i>Mycobacterium kansasii</i> ' (NZ_PQOU00000000)	belongs to known species	<i>Mycobacterium kansasii</i>	
' <i>Mycobacterium marinum</i> ' (NZ_CP025779)	belongs to known species	<i>Mycobacterium marinum</i>	
' <i>Mycobacterium marinum</i> E11' (NZ_HG917972)	belongs to known species	<i>Mycobacterium marinum</i>	
' <i>Mycobacterium marinum</i> ' (NZ_PQBM00000000)	belongs to known species	<i>Mycobacterium marinum</i>	
' <i>Mycobacterium intracellulare</i> ATCC 13950' (NC_016946)	belongs to known species	<i>Mycobacterium intracellulare</i>	
' <i>Mycobacterium chimaera</i> ' (NZ_CP012885)	belongs to known species	<i>Mycobacterium intracellulare</i>	
' <i>Mycobacterium chimaera</i> ' (NZ_LJHL00000000)	belongs to known species	<i>Mycobacterium intracellulare</i>	
' <i>Mycobacterium intracellulare</i> ' (NZ_LZIO00000000)	belongs to known species	<i>Mycobacterium intracellulare</i>	
' <i>Mycobacterium chimaera</i> ' (NZ_MNAM00000000)	belongs to known species	<i>Mycobacterium intracellulare</i>	
' <i>Mycobacterium intracellulare</i> subsp. <i>yongonense</i> ' (NZ_PSQD00000000)	belongs to known species	<i>Mycobacterium intracellulare</i>	

Strain	Conclusion	Identification result	Remark
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	belongs to known species	<i>Mycobacterium tuberculosis</i>	
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	belongs to known species	<i>Mycobacterium tuberculosis</i>	
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	belongs to known species	<i>Mycobacterium tuberculosis</i>	
'Mycobacterium sp. djl-10' (NZ_CP016640)	belongs to known species	<i>Mycobacterium tokaiense</i>	
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	belongs to known species	<i>Mycobacterium avium</i>	
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	belongs to known species	<i>Mycobacterium avium</i>	
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	belongs to known species	<i>Mycobacterium avium</i>	
'Mycobacterium sp. 455mf' (NZ_FOBB00000000)	potential new species		see [R1]
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	potential new species		see [R1]
'Mycobacterium colombiense' (NZ_LZLH00000000)	potential new species		see [R1]
'Mycobacterium colombiense' (NZ_MBEO00000000)	potential new species		see [R1]
'Mycobacterium colombiense' (NZ_LZSX00000000)	potential new species		see [R1]
'Mycobacterium kansasii' (NZ_NKRE00000000)	potential new species		see [R1]

**Table 3: Pairwise comparisons of user genomes vs. type-strain genomes**

The following table contains the pairwise dDDH values between your user genomes and the selected type-strain genomes. The dDDH values are provided along with their confidence intervals (C.I.) for the three different GBDP formulas:

- formula  $d_0$  (a.k.a. GGDC formula 1): length of all HSPs divided by total genome length
- formula  $d_4$  (a.k.a. GGDC formula 2): sum of all identities found in HSPs divided by overall HSP length
- formula  $d_6$  (a.k.a. GGDC formula 3): sum of all identities found in HSPs divided by total genome length

**Note:** Formula  $d_4$  is independent of genome length and is thus robust against the use of incomplete draft genomes. For other reasons for preferring formula  $d_4$ , see the FAQ.

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium intracellulare</i> ATCC 13950	100.0	[100.0 - 100.0]	100.0	[100.0 - 100.0]	100.0	[100.0 - 100.0]	0.0
'Mycobacterium marinum E11' (NZ_HG917972)	'Mycobacterium marinum' (NZ_PQBM00000000)	98.9	[98.1 - 99.4]	99.6	[99.3 - 99.7]	99.5	[99.1 - 99.7]	0.29
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium kansasii</i> ATCC 12478	98.5	[97.5 - 99.1]	99.5	[99.1 - 99.7]	99.3	[98.8 - 99.6]	0.05
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium tuberculosis</i> H37Rv	99.9	[99.8 - 100.0]	99.1	[98.7 - 99.4]	100.0	[99.9 - 100.0]	0.0
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium microti</i> ATCC 19422	98.5	[97.5 - 99.2]	98.9	[98.4 - 99.3]	99.3	[98.7 - 99.6]	0.25
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium microti</i> ATCC 19422	98.7	[97.6 - 99.2]	98.8	[98.2 - 99.2]	99.3	[98.8 - 99.6]	0.26
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	100.0	[99.9 - 100.0]	98.8	[98.2 - 99.2]	100.0	[99.9 - 100.0]	0.01
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	'Mycobacterium tuberculosis' (NZ_MMLR00000000)	99.8	[99.5 - 99.9]	98.7	[98.1 - 99.2]	99.9	[99.7 - 99.9]	0.01
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	'Mycobacterium tuberculosis' (NZ_MMLR00000000)	99.7	[99.3 - 99.8]	98.7	[98.1 - 99.1]	99.8	[99.6 - 99.9]	0.02
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium microti</i> ATCC 19422	98.6	[97.6 - 99.2]	98.7	[98.1 - 99.1]	99.3	[98.8 - 99.6]	0.28
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium africanum</i> ATCC 25420	99.5	[99.0 - 99.7]	98.4	[97.7 - 98.9]	99.7	[99.5 - 99.9]	0.05
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium tuberculosis</i> H37Rv	99.8	[99.6 - 99.9]	98.3	[97.5 - 98.8]	99.9	[99.7 - 99.9]	0.02
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium tuberculosis</i> H37Rv	99.9	[99.7 - 99.9]	98.3	[97.5 - 98.8]	99.9	[99.8 - 100.0]	0.01
'Mycobacterium marinum' (NZ_CP025779)	'Mycobacterium marinum' (NZ_PQBM00000000)	96.6	[94.7 - 97.8]	98.2	[97.4 - 98.8]	98.1	[97.0 - 98.8]	0.22
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium africanum</i> ATCC 25420	99.6	[99.2 - 99.8]	98.2	[97.4 - 98.8]	99.8	[99.6 - 99.9]	0.06
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium caprae</i> ATCC BAA-824	99.2	[98.4 - 99.5]	98.1	[97.2 - 98.7]	99.5	[99.2 - 99.7]	0.02
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium africanum</i> ATCC 25420	99.6	[99.1 - 99.8]	98.0	[97.1 - 98.6]	99.7	[99.5 - 99.9]	0.07

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium caprae</i> ATCC BAA-824	99.3	[98.7 - 99.6]	98.0	[97.1 - 98.6]	99.6	[99.3 - 99.8]	0.03
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium caprae</i> ATCC BAA-824	99.5	[99.0 - 99.7]	98.0	[97.2 - 98.6]	99.7	[99.4 - 99.8]	0.05
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium marinum</i> CCUG 20998	94.8	[92.5 - 96.5]	97.9	[97.0 - 98.5]	96.9	[95.5 - 97.9]	0.24
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium pinnipedii</i> ATCC BAA-688	99.6	[99.3 - 99.8]	97.8	[96.9 - 98.5]	99.8	[99.6 - 99.9]	0.01
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium pinnipedii</i> ATCC BAA-688	99.5	[99.0 - 99.8]	97.8	[96.9 - 98.5]	99.7	[99.4 - 99.8]	0.0
'Mycobacterium marinum' (NZ_CP025779)	'Mycobacterium marinum E11' (NZ_HG917972)	98.9	[98.0 - 99.4]	97.7	[96.7 - 98.4]	99.3	[98.9 - 99.6]	0.07
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium bovis</i> ATCC 19210	99.0	[98.2 - 99.5]	97.7	[96.7 - 98.4]	99.4	[99.0 - 99.7]	0.04
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium bovis</i> ATCC 19210	99.2	[98.5 - 99.6]	97.7	[96.7 - 98.4]	99.5	[99.1 - 99.7]	0.05
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium bovis</i> ATCC 19210	99.4	[98.8 - 99.7]	97.6	[96.6 - 98.3]	99.6	[99.3 - 99.8]	0.06
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium pinnipedii</i> ATCC BAA-688	99.7	[99.3 - 99.8]	97.4	[96.4 - 98.2]	99.8	[99.6 - 99.9]	0.02
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium marinum</i> CCUG 20998	97.5	[96.0 - 98.5]	97.2	[96.1 - 98.0]	98.5	[97.7 - 99.1]	0.05
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium intracellulare</i> subsp. <i>chimaera</i> DSM 44623	95.7	[93.5 - 97.1]	97.1	[96.0 - 98.0]	97.4	[96.1 - 98.3]	0.05
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium kansasii</i> ATCC 12478	96.5	[94.7 - 97.8]	97.0	[95.9 - 97.9]	97.9	[96.8 - 98.7]	0.13
'Mycobacterium chimaera' (NZ_LJHL00000000)	'Mycobacterium chimaera' (NZ_MNAM00000000)	93.5	[90.8 - 95.4]	97.0	[95.8 - 97.8]	95.9	[94.2 - 97.2]	0.06
'Mycobacterium kansasii' (NZ_LWCL00000000)	'Mycobacterium kansasii' (NZ_PQOU00000000)	98.5	[97.4 - 99.1]	96.9	[95.7 - 97.8]	99.1	[98.4 - 99.4]	0.08
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium marinum</i> CCUG 20998	98.6	[97.6 - 99.2]	96.7	[95.5 - 97.6]	99.1	[98.6 - 99.5]	0.02
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	'Mycobacterium intracellulare' (NZ_LZIO00000000)	97.5	[96.0 - 98.4]	96.6	[95.3 - 97.5]	98.5	[97.6 - 99.0]	0.16
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium intracellulare</i> ATCC 13950	97.5	[96.0 - 98.4]	96.6	[95.3 - 97.5]	98.5	[97.6 - 99.0]	0.16
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium intracellulare</i> subsp. <i>chimaera</i> DSM 44623	91.9	[88.9 - 94.1]	95.7	[94.2 - 96.8]	94.7	[92.7 - 96.1]	0.1
'Mycobacterium chimaera' (NZ_CP012885)	'Mycobacterium chimaera' (NZ_MNAM00000000)	89.0	[85.7 - 91.7]	95.4	[93.8 - 96.5]	92.6	[90.2 - 94.4]	0.21
'Mycobacterium chimaera' (NZ_CP012885)	'Mycobacterium chimaera' (NZ_LJHL00000000)	93.1	[90.3 - 95.1]	95.4	[93.9 - 96.5]	95.5	[93.6 - 96.8]	0.15

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium avium</i> subsp. <i>silvaticum</i> ATCC 49884	88.6	[85.2 - 91.3]	93.1	[91.2 - 94.6]	91.9	[89.4 - 93.9]	0.06
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium avium</i> ATCC 25291	90.4	[87.2 - 92.9]	93.1	[91.1 - 94.6]	93.3	[91.0 - 95.0]	0.15
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium bochedurhonense</i> DSM 45439	79.0	[75.0 - 82.4]	92.4	[90.4 - 94.0]	84.1	[80.9 - 86.9]	0.32
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium paraintracellulare</i> KCTC 29084	92.4	[89.5 - 94.5]	89.8	[87.5 - 91.7]	94.3	[92.2 - 95.8]	0.03
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium paraintracellulare</i> KCTC 29084	88.6	[85.2 - 91.3]	89.6	[87.3 - 91.6]	91.5	[88.9 - 93.5]	0.13
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium bochedurhonense</i> DSM 45439	80.0	[76.0 - 83.4]	89.5	[87.1 - 91.5]	84.5	[81.3 - 87.2]	0.51
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium avium</i> ATCC 25291	84.4	[80.7 - 87.6]	89.4	[87.1 - 91.4]	88.1	[85.2 - 90.6]	0.35
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	87.3	[83.8 - 90.2]	89.4	[87.1 - 91.4]	90.4	[87.7 - 92.6]	0.21
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium intracellulare</i> subsp. <i>yongonense</i> 05-1390	92.7	[89.8 - 94.7]	89.1	[86.7 - 91.1]	94.4	[92.3 - 95.9]	0.06
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium avium</i> subsp. <i>silvaticum</i> ATCC 49884	82.7	[78.9 - 86.0]	89.1	[86.7 - 91.1]	86.7	[83.6 - 89.3]	0.26
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium bochedurhonense</i> DSM 45439	75.2	[71.2 - 78.8]	88.4	[85.9 - 90.5]	80.2	[76.8 - 83.2]	0.73
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium avium</i> ATCC 25291	93.2	[90.5 - 95.2]	88.1	[85.6 - 90.2]	94.7	[92.7 - 96.2]	0.06
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium avium</i> subsp. <i>silvaticum</i> ATCC 49884	92.1	[89.2 - 94.3]	88.0	[85.5 - 90.2]	93.8	[91.7 - 95.5]	0.15
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	83.4	[79.6 - 86.7]	88.0	[85.5 - 90.2]	87.1	[84.1 - 89.7]	0.41
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	87.3	[83.7 - 90.2]	86.8	[84.2 - 89.0]	90.0	[87.3 - 92.2]	0.2
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium pseudoshottsii</i> JCM 15466	90.5	[87.3 - 92.9]	84.0	[81.2 - 86.4]	92.0	[89.6 - 94.0]	0.23
'Mycobacterium chimaera' (NZ_LJHL00000000)	'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	77.7	[73.7 - 81.2]	83.2	[80.4 - 85.7]	81.5	[78.1 - 84.4]	0.31
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium intracellulare</i> subsp. <i>chimaera</i> DSM 44623	78.4	[74.5 - 81.9]	83.0	[80.2 - 85.5]	82.1	[78.8 - 85.0]	0.26

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium chimaera' (NZ_MNAM00000000)	'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	74.9	[70.9 - 78.5]	82.2	[79.3 - 84.7]	78.9	[75.5 - 82.0]	0.37
'Mycobacterium chimaera' (NZ_CP012885)	'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	83.0	[79.2 - 86.3]	81.9	[79.0 - 84.4]	85.8	[82.6 - 88.4]	0.16
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium pseudoshottsii</i> JCM 15466	92.9	[90.2 - 95.0]	81.3	[78.4 - 83.9]	93.5	[91.3 - 95.2]	0.06
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium pseudoshottsii</i> JCM 15466	91.3	[88.2 - 93.6]	81.0	[78.1 - 83.6]	92.2	[89.7 - 94.1]	0.01
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium intracellulare</i> subsp. <i>yongonense</i> 05-1390	78.1	[74.2 - 81.6]	80.8	[77.9 - 83.4]	81.5	[78.1 - 84.4]	0.25
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium intracellulare</i> subsp. <i>yongonense</i> 05-1390	83.0	[79.2 - 86.3]	80.4	[77.5 - 83.1]	85.5	[82.4 - 88.2]	0.1
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium intracellulare</i> subsp. <i>yongonense</i> 05-1390	77.7	[73.7 - 81.2]	79.9	[77.0 - 82.6]	80.9	[77.6 - 83.9]	0.31
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium paraintracellulare</i> KCTC 29084	71.7	[67.8 - 75.4]	78.9	[75.9 - 81.5]	75.5	[72.1 - 78.7]	0.49
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium paraintracellulare</i> KCTC 29084	75.4	[71.4 - 79.0]	78.8	[75.9 - 81.5]	78.8	[75.4 - 81.9]	0.43
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium intracellulare</i> subsp. <i>chimaera</i> DSM 44623	76.9	[72.9 - 80.4]	78.8	[75.8 - 81.5]	80.0	[76.6 - 83.0]	0.4
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium intracellulare</i> ATCC 13950	76.3	[72.3 - 79.9]	78.6	[75.7 - 81.3]	79.5	[76.1 - 82.6]	0.45
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	'Mycobacterium chimaera' (NZ_LJHL00000000)	76.3	[72.3 - 79.9]	78.6	[75.7 - 81.3]	79.5	[76.1 - 82.6]	0.45
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium intracellulare</i> subsp. <i>chimaera</i> DSM 44623	73.9	[70.0 - 77.6]	78.5	[75.5 - 81.2]	77.4	[74.0 - 80.5]	0.24
'Mycobacterium chimaera' (NZ_LJHL00000000)	'Mycobacterium intracellulare' (NZ_LZIO00000000)	72.8	[68.9 - 76.5]	78.4	[75.5 - 81.1]	76.4	[73.0 - 79.6]	0.29
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium intracellulare</i> ATCC 13950	72.9	[69.0 - 76.6]	78.3	[75.3 - 81.0]	76.5	[73.0 - 79.7]	0.51
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	'Mycobacterium chimaera' (NZ_MNAM00000000)	72.9	[69.0 - 76.6]	78.3	[75.3 - 81.0]	76.5	[73.0 - 79.7]	0.51
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	83.8	[80.0 - 87.0]	78.2	[75.2 - 80.9]	85.8	[82.6 - 88.4]	0.14
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium paraintracellulare</i> KCTC 29084	84.5	[80.7 - 87.6]	78.2	[75.2 - 80.9]	86.3	[83.2 - 88.9]	0.11
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium intracellulare</i> ATCC 13950	83.8	[80.0 - 87.0]	78.2	[75.2 - 80.9]	85.8	[82.6 - 88.4]	0.14

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium intracellulare</i> subsp. <i>yongonense</i> 05-1390	83.5	[79.7 - 86.7]	78.0	[75.0 - 80.7]	85.5	[82.3 - 88.1]	0.2
'Mycobacterium intracellulare' (NZ_LZIO00000000)	'Mycobacterium chimaera' (NZ_MNAM00000000)	70.4	[66.4 - 74.0]	78.0	[75.0 - 80.7]	74.2	[70.7 - 77.4]	0.35
'Mycobacterium intracellulare' (NZ_LZIO00000000)	'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	79.7	[75.8 - 83.2]	78.0	[75.1 - 80.8]	82.4	[79.0 - 85.3]	0.02
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium intracellulare</i> subsp. <i>yongonense</i> 05-1390	79.3	[75.3 - 82.7]	77.9	[74.9 - 80.6]	81.9	[78.6 - 84.9]	0.04
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium paraintracellulare</i> KCTC 29084	79.7	[75.7 - 83.1]	77.3	[74.4 - 80.1]	82.2	[78.8 - 85.1]	0.27
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium intracellulare</i> ATCC 13950	80.5	[76.6 - 83.9]	77.2	[74.2 - 79.9]	82.8	[79.5 - 85.7]	0.3
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	'Mycobacterium chimaera' (NZ_CP012885)	80.5	[76.6 - 83.9]	77.2	[74.2 - 79.9]	82.8	[79.5 - 85.7]	0.3
'Mycobacterium chimaera' (NZ_CP012885)	'Mycobacterium intracellulare' (NZ_LZIO00000000)	76.9	[73.0 - 80.5]	77.0	[74.0 - 79.7]	79.8	[76.4 - 82.8]	0.14
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium intracellulare</i> subsp. <i>chimaera</i> DSM 44623	100.0	[100.0 - 100.0]	75.9	[72.8 - 78.6]	99.0	[98.4 - 99.4]	0.11
'Mycobacterium colombiense' (NZ_LZLH00000000)	'Mycobacterium colombiense' (NZ_MBEO00000000)	93.9	[91.3 - 95.7]	75.1	[72.1 - 77.9]	93.3	[91.1 - 95.1]	0.03
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium tokaiense</i> NCTC 10821	83.6	[79.7 - 86.8]	71.0	[68.0 - 73.9]	84.2	[81.0 - 87.0]	0.09
'Mycobacterium sp. 455mf' (NZ_FO0B00000000)	<i>Mycobacterium septicum</i> DSM 44393	76.6	[72.6 - 80.1]	61.0	[58.1 - 63.7]	76.0	[72.5 - 79.2]	0.11
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium novocastrense</i> JCM 18114	70.5	[66.5 - 74.1]	60.2	[57.3 - 63.0]	70.6	[67.1 - 73.8]	0.01
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium gastri</i> DSM 43505	77.0	[73.0 - 80.5]	57.2	[54.5 - 60.0]	75.4	[71.9 - 78.5]	0.02
'Mycobacterium colombiense' (NZ_LZLH00000000)	'Mycobacterium colombiense' (NZ_LZSX00000000)	87.6	[84.1 - 90.4]	55.1	[52.4 - 57.8]	83.6	[80.3 - 86.4]	0.3
'Mycobacterium colombiense' (NZ_LZSX00000000)	'Mycobacterium colombiense' (NZ_MBEO00000000)	83.8	[80.0 - 87.0]	55.0	[52.3 - 57.7]	80.4	[77.0 - 83.4]	0.33
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium vulneris</i> DSM 45247	66.4	[62.6 - 70.0]	54.1	[51.4 - 56.8]	65.5	[62.1 - 68.7]	0.75
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium vulneris</i> DSM 45247	64.9	[61.1 - 68.6]	53.8	[51.1 - 56.5]	64.2	[60.8 - 67.4]	0.78
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium innocens</i> MK13	73.3	[69.3 - 76.9]	53.1	[50.4 - 55.7]	71.1	[67.6 - 74.3]	0.08
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium vulneris</i> DSM 45247	63.9	[60.1 - 67.5]	52.6	[49.9 - 55.3]	63.0	[59.7 - 66.2]	0.45
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium innocens</i> MK13	69.6	[65.7 - 73.2]	52.4	[49.7 - 55.0]	67.7	[64.3 - 71.0]	0.01
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium innocens</i> MK13	68.7	[64.8 - 72.4]	52.1	[49.5 - 54.8]	67.0	[63.6 - 70.2]	0.08

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium kansasii' (NZ_NKRE000000000)	<i>Mycobacterium persicum</i> DSM 104278	71.8	[67.9 - 75.5]	50.7	[48.0 - 53.3]	69.1	[65.7 - 72.3]	0.01
'Mycobacterium kansasii' (NZ_PQOU000000000)	<i>Mycobacterium pseudokansasii</i> MK142	73.7	[69.7 - 77.3]	49.1	[46.5 - 51.7]	70.1	[66.6 - 73.3]	0.11
'Mycobacterium kansasii' (NZ_LWCL000000000)	<i>Mycobacterium pseudokansasii</i> MK142	73.9	[70.0 - 77.6]	48.9	[46.3 - 51.5]	70.2	[66.8 - 73.5]	0.03
'Mycobacterium kansasii' (NZ_PQOU000000000)	<i>Mycobacterium persicum</i> DSM 104278	78.3	[74.3 - 81.8]	48.3	[45.7 - 50.9]	73.6	[70.1 - 76.8]	0.1
'Mycobacterium kansasii' (NZ_LWCL000000000)	<i>Mycobacterium persicum</i> DSM 104278	77.0	[73.0 - 80.6]	48.3	[45.7 - 50.9]	72.5	[69.1 - 75.8]	0.02
'Mycobacterium kansasii' (NZ_NKRE000000000)	'Mycobacterium kansasii' (NZ_PQOU000000000)	70.4	[66.5 - 74.1]	47.9	[45.3 - 50.5]	67.0	[63.6 - 70.3]	0.09
'Mycobacterium kansasii' (NZ_LWCL000000000)	'Mycobacterium kansasii' (NZ_NKRE000000000)	69.9	[65.9 - 73.5]	47.8	[45.2 - 50.4]	66.5	[63.1 - 69.7]	0.0
'Mycobacterium kansasii' (NZ_NKRE000000000)	<i>Mycobacterium kansasii</i> ATCC 12478	67.2	[63.3 - 70.9]	47.5	[44.9 - 50.1]	64.2	[60.9 - 67.4]	0.04
'Mycobacterium colombiense' (NZ_LZLH000000000)	<i>Mycobacterium colombiense</i> CECT 3035	79.9	[75.9 - 83.3]	47.4	[44.8 - 50.0]	74.5	[71.1 - 77.7]	0.56
'Mycobacterium colombiense' (NZ_LZSX000000000)	<i>Mycobacterium colombiense</i> CECT 3035	76.2	[72.2 - 79.8]	47.1	[44.5 - 49.7]	71.4	[68.0 - 74.6]	0.86
'Mycobacterium colombiense' (NZ_MBEO000000000)	<i>Mycobacterium colombiense</i> CECT 3035	80.1	[76.2 - 83.6]	47.0	[44.4 - 49.6]	74.6	[71.1 - 77.8]	0.53
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium marseillense</i> DSM 45437	80.2	[76.3 - 83.6]	46.8	[44.2 - 49.4]	74.6	[71.1 - 77.7]	0.39
'Mycobacterium intracellulare' (NZ_LZIO000000000)	<i>Mycobacterium marseillense</i> DSM 45437	78.2	[74.3 - 81.7]	46.8	[44.2 - 49.3]	72.9	[69.5 - 76.1]	0.23
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD000000000)	<i>Mycobacterium marseillense</i> DSM 45437	83.1	[79.3 - 86.3]	46.7	[44.1 - 49.3]	76.9	[73.4 - 80.0]	0.25
'Mycobacterium chimaera' (NZ_LJHL000000000)	<i>Mycobacterium marseillense</i> DSM 45437	73.5	[69.5 - 77.1]	46.0	[43.5 - 48.6]	68.8	[65.4 - 72.0]	0.06
'Mycobacterium chimaera' (NZ_MNAM000000000)	<i>Mycobacterium marseillense</i> DSM 45437	70.2	[66.2 - 73.8]	45.6	[43.1 - 48.2]	66.0	[62.6 - 69.2]	0.12
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium marseillense</i> DSM 45437	77.7	[73.7 - 81.2]	45.6	[43.0 - 48.2]	72.0	[68.6 - 75.2]	0.09
'Mycobacterium kansasii' (NZ_NKRE000000000)	<i>Mycobacterium pseudokansasii</i> MK142	68.8	[64.9 - 72.5]	45.4	[42.8 - 48.0]	64.8	[61.5 - 68.1]	0.03
'Mycobacterium kansasii' (NZ_PQOU000000000)	<i>Mycobacterium gastris</i> DSM 43505	63.6	[59.8 - 67.2]	44.8	[42.2 - 47.3]	60.3	[57.1 - 63.5]	0.1
'Mycobacterium kansasii' (NZ_LWCL000000000)	<i>Mycobacterium gastris</i> DSM 43505	63.3	[59.5 - 66.9]	44.5	[41.9 - 47.0]	60.0	[56.8 - 63.2]	0.02
'Mycobacterium sp. GA-1199' (NZ_LQIX000000000)	<i>Mycobacterium lehmannii</i> CECT 8763	69.5	[65.6 - 73.2]	40.7	[38.3 - 43.3]	63.5	[60.2 - 66.7]	0.11
'Mycobacterium sp. GA-1199' (NZ_LQIX000000000)	<i>Mycobacterium neumannii</i> CECT 8766	77.3	[73.3 - 80.8]	40.6	[38.1 - 43.2]	69.5	[66.1 - 72.8]	0.06
'Mycobacterium kansasii' (NZ_PQOU000000000)	<i>Mycobacterium attenuatum</i> MK41	67.7	[63.9 - 71.4]	39.5	[37.0 - 42.0]	61.6	[58.3 - 64.8]	0.32



Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium attenuatum</i> MK41	67.8	[63.9 - 71.4]	39.4	[36.9 - 41.9]	61.6	[58.3 - 64.8]	0.4
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium arosiense</i> DSM 45069	58.0	[54.4 - 61.5]	36.7	[34.2 - 39.2]	52.9	[49.8 - 56.0]	0.38
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium arosiense</i> DSM 45069	57.8	[54.2 - 61.3]	36.5	[34.1 - 39.0]	52.7	[49.6 - 55.8]	0.69
'Mycobacterium sp. 455mf' (NZ_FOOB00000000)	<i>Mycobacterium boenickei</i> CIP 107829	67.8	[63.9 - 71.5]	36.4	[33.9 - 38.9]	60.2	[57.0 - 63.4]	0.15
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium arosiense</i> DSM 45069	58.0	[54.4 - 61.5]	36.3	[33.9 - 38.8]	52.8	[49.7 - 55.9]	0.71
'Mycobacterium sp. 455mf' (NZ_FOOB00000000)	<i>Mycobacterium neworleansense</i> ATCC 49404	71.5	[67.6 - 75.2]	35.5	[33.1 - 38.0]	62.5	[59.2 - 65.7]	0.23
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium attenuatum</i> MK41	57.8	[54.2 - 61.3]	34.1	[31.7 - 36.6]	51.7	[48.6 - 54.8]	0.4
'Mycobacterium sp. 455mf' (NZ_FOOB00000000)	<i>Mycobacterium setense</i> DSM 45070	64.1	[60.3 - 67.7]	33.8	[31.4 - 36.3]	56.2	[53.0 - 59.3]	0.19
'Mycobacterium sp. 455mf' (NZ_FOOB00000000)	<i>Mycobacterium peregrinum</i> DSM 43271	60.0	[56.4 - 63.6]	33.4	[30.9 - 35.9]	53.0	[49.9 - 56.1]	0.36
'Mycobacterium sp. 455mf' (NZ_FOOB00000000)	<i>Mycobacterium syngnathidarum</i> 27335	54.2	[50.7 - 57.7]	33.3	[30.8 - 35.8]	48.7	[45.6 - 51.7]	0.41
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium vulneris</i> DSM 45247	54.3	[50.7 - 57.7]	32.9	[30.5 - 35.4]	48.5	[45.5 - 51.6]	1.17
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium vulneris</i> DSM 45247	57.2	[53.6 - 60.7]	32.9	[30.5 - 35.4]	50.7	[47.6 - 53.7]	1.33
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium avium</i> subsp. <i>silvaticum</i> ATCC 49884	63.3	[59.5 - 66.9]	32.6	[30.2 - 35.2]	55.0	[51.9 - 58.1]	1.05
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium avium</i> subsp. <i>silvaticum</i> ATCC 49884	59.7	[56.1 - 63.3]	32.6	[30.2 - 35.1]	52.4	[49.3 - 55.5]	1.21
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium avium</i> subsp. <i>silvaticum</i> ATCC 49884	59.4	[55.8 - 63.0]	32.5	[30.1 - 35.0]	52.2	[49.1 - 55.2]	1.19
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium avium</i> subsp. <i>silvaticum</i> ATCC 49884	55.0	[51.5 - 58.5]	32.3	[29.9 - 34.8]	48.8	[45.8 - 51.9]	1.5
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium avium</i> subsp. <i>silvaticum</i> ATCC 49884	52.8	[49.4 - 56.3]	32.2	[29.8 - 34.7]	47.2	[44.2 - 50.2]	1.56
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium avium</i> ATCC 25291	63.7	[59.9 - 67.3]	32.2	[29.8 - 34.7]	55.0	[51.9 - 58.1]	1.3
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium avium</i> ATCC 25291	63.6	[59.8 - 67.2]	32.1	[29.7 - 34.6]	54.9	[51.8 - 58.0]	1.28
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium avium</i> subsp. <i>silvaticum</i> ATCC 49884	58.1	[54.5 - 61.7]	32.1	[29.7 - 34.6]	51.0	[48.0 - 54.1]	1.35
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium avium</i> ATCC 25291	68.0	[64.1 - 71.6]	32.1	[29.7 - 34.6]	58.1	[54.8 - 61.2]	1.14

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium intracellulare' (NZ_LZIO00000000)	'Mycobacterium colombiense' (NZ_LZLH00000000)	60.9	[57.2 - 64.5]	31.9	[29.4 - 34.4]	52.9	[49.8 - 56.0]	0.42
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	54.9	[51.3 - 58.4]	31.9	[29.5 - 34.4]	48.6	[45.5 - 51.6]	1.34
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	'Mycobacterium intracellulare' (NZ_LZIO00000000)	63.6	[59.8 - 67.2]	31.9	[29.4 - 34.4]	54.8	[51.7 - 57.9]	1.15
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	'Mycobacterium intracellulare' (NZ_LZIO00000000)	54.2	[50.7 - 57.7]	31.9	[29.5 - 34.4]	48.0	[45.0 - 51.1]	1.36
'Mycobacterium colombiense' (NZ_LZLH00000000)	'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	62.2	[58.5 - 65.8]	31.8	[29.4 - 34.3]	53.8	[50.7 - 56.9]	0.44
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium avium</i> ATCC 25291	56.5	[52.9 - 60.0]	31.8	[29.4 - 34.3]	49.7	[46.6 - 52.7]	1.65
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium paraintracellulare</i> KCTC 29084	64.5	[60.8 - 68.2]	31.8	[29.4 - 34.3]	55.4	[52.3 - 58.5]	0.56
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium intracellulare</i> ATCC 13950	63.9	[60.2 - 67.6]	31.8	[29.4 - 34.3]	55.0	[51.9 - 58.1]	0.88
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium intracellulare</i> ATCC 13950	64.6	[60.8 - 68.2]	31.8	[29.4 - 34.3]	55.5	[52.3 - 58.6]	0.58
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium intracellulare</i> ATCC 13950	67.5	[63.6 - 71.2]	31.8	[29.4 - 34.3]	57.6	[54.4 - 60.7]	0.99
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium intracellulare</i> ATCC 13950	57.6	[54.0 - 61.1]	31.8	[29.4 - 34.3]	50.5	[47.4 - 53.6]	1.2
'Mycobacterium intracellulare' (NZ_LZIO00000000)	'Mycobacterium colombiense' (NZ_LZSX00000000)	60.4	[56.7 - 63.9]	31.8	[29.4 - 34.3]	52.5	[49.4 - 55.6]	0.72
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	'Mycobacterium colombiense' (NZ_LZLH00000000)	64.6	[60.8 - 68.2]	31.8	[29.4 - 34.3]	55.5	[52.3 - 58.6]	0.58
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	57.6	[54.0 - 61.1]	31.8	[29.4 - 34.3]	50.5	[47.4 - 53.6]	1.2
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	67.5	[63.6 - 71.2]	31.8	[29.4 - 34.3]	57.6	[54.4 - 60.7]	0.99
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium paraintracellulare</i> KCTC 29084	56.9	[53.4 - 60.4]	31.8	[29.4 - 34.3]	50.0	[47.0 - 53.1]	1.23
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium avium</i> ATCC 25291	58.7	[55.1 - 62.2]	31.8	[29.4 - 34.3]	51.3	[48.2 - 54.3]	1.59
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	'Mycobacterium colombiense' (NZ_LZSX00000000)	63.9	[60.2 - 67.6]	31.8	[29.4 - 34.3]	55.0	[51.9 - 58.1]	0.88
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium arosiense</i> DSM 45069	54.2	[50.7 - 57.7]	31.7	[29.3 - 34.2]	48.0	[45.0 - 51.0]	1.11

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL000000000)	<i>Mycobacterium intracellulare</i> subsp. <i>chimaera</i> DSM 44623	51.0	[47.6 - 54.5]	31.7	[29.3 - 34.2]	45.6	[42.6 - 48.7]	1.61
'Mycobacterium colombiense' (NZ_LZSX000000000)	<i>Mycobacterium paraintracellulare</i> KCTC 29084	63.2	[59.5 - 66.8]	31.7	[29.3 - 34.2]	54.5	[51.3 - 57.6]	0.86
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL000000000)	'Mycobacterium chimaera' (NZ_MNAM000000000)	48.6	[45.2 - 52.0]	31.7	[29.2 - 34.2]	43.8	[40.8 - 46.8]	1.72
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL000000000)	'Mycobacterium chimaera' (NZ_LJHL000000000)	50.4	[46.9 - 53.8]	31.7	[29.3 - 34.2]	45.2	[42.2 - 48.2]	1.65
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL000000000)	<i>Mycobacterium intracellulare</i> subsp. <i>yongonense</i> 05-1390	54.3	[50.8 - 57.8]	31.7	[29.3 - 34.2]	48.0	[45.0 - 51.1]	1.4
'Mycobacterium colombiense' (NZ_MBEO000000000)	'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD000000000)	62.7	[59.0 - 66.3]	31.7	[29.3 - 34.2]	54.1	[50.9 - 57.2]	0.41
'Mycobacterium chimaera' (NZ_MNAM000000000)	<i>Mycobacterium vulneris</i> DSM 45247	47.2	[43.8 - 50.6]	31.7	[29.3 - 34.2]	42.8	[39.8 - 45.8]	0.82
'Mycobacterium colombiense' (NZ_LZSX000000000)	'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD000000000)	60.7	[57.0 - 64.3]	31.7	[29.3 - 34.2]	52.7	[49.6 - 55.8]	0.74
'Mycobacterium chimaera' (NZ_LJHL000000000)	'Mycobacterium colombiense' (NZ_LZLH000000000)	56.6	[53.0 - 60.1]	31.7	[29.3 - 34.2]	49.7	[46.7 - 52.8]	0.13
'Mycobacterium chimaera' (NZ_LJHL000000000)	'Mycobacterium colombiense' (NZ_LZSX000000000)	56.1	[52.5 - 59.6]	31.7	[29.3 - 34.2]	49.3	[46.3 - 52.4]	0.43
'Mycobacterium colombiense' (NZ_LZLH000000000)	<i>Mycobacterium intracellulare</i> subsp. <i>chimaera</i> DSM 44623	58.0	[54.4 - 61.5]	31.7	[29.2 - 34.2]	50.7	[47.6 - 53.8]	0.18
'Mycobacterium chimaera' (NZ_LJHL000000000)	'Mycobacterium colombiense' (NZ_MBEO000000000)	57.4	[53.8 - 60.9]	31.6	[29.2 - 34.1]	50.3	[47.2 - 53.3]	0.1
'Mycobacterium colombiense' (NZ_LZLH000000000)	'Mycobacterium chimaera' (NZ_MNAM000000000)	55.2	[51.6 - 58.6]	31.6	[29.2 - 34.1]	48.6	[45.6 - 51.7]	0.07
'Mycobacterium colombiense' (NZ_LZSX000000000)	'Mycobacterium chimaera' (NZ_MNAM000000000)	54.3	[50.8 - 57.8]	31.6	[29.2 - 34.1]	48.0	[45.0 - 51.0]	0.37
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD000000000)	<i>Mycobacterium colombiense</i> CECT 3035	61.5	[57.8 - 65.1]	31.6	[29.2 - 34.1]	53.2	[50.1 - 56.3]	0.12
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium avium</i> ATCC 25291	62.4	[58.7 - 66.0]	31.6	[29.2 - 34.1]	53.8	[50.7 - 56.9]	1.44
'Mycobacterium intracellulare' (NZ_LZIO000000000)	'Mycobacterium colombiense' (NZ_MBEO000000000)	62.5	[58.8 - 66.1]	31.6	[29.2 - 34.2]	53.9	[50.8 - 57.0]	0.39
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	'Mycobacterium colombiense' (NZ_MBEO000000000)	65.9	[62.1 - 69.6]	31.6	[29.2 - 34.1]	56.3	[53.1 - 59.4]	0.55
'Mycobacterium colombiense' (NZ_MBEO000000000)	<i>Mycobacterium intracellulare</i> subsp. <i>chimaera</i> DSM 44623	58.2	[54.6 - 61.7]	31.6	[29.2 - 34.1]	50.8	[47.7 - 53.9]	0.15

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium intracellulare</i> subsp. <i>chimaera</i> DSM 44623	57.1	[53.5 - 60.6]	31.6	[29.2 - 34.2]	50.0	[47.0 - 53.1]	0.48
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium intracellulare</i> subsp. <i>yongonense</i> 05-1390	61.7	[58.0 - 65.3]	31.6	[29.2 - 34.1]	53.3	[50.2 - 56.4]	0.68
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium intracellulare</i> ATCC 13950	65.9	[62.1 - 69.6]	31.6	[29.2 - 34.1]	56.3	[53.1 - 59.4]	0.55
'Mycobacterium chimaera' (NZ_CP012885)	'Mycobacterium colombiense' (NZ_LZSX00000000)	59.5	[55.9 - 63.1]	31.5	[29.1 - 34.0]	51.7	[48.6 - 54.7]	0.58
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium intracellulare</i> subsp. <i>yongonense</i> 05-1390	63.1	[59.4 - 66.7]	31.5	[29.1 - 34.0]	54.3	[51.1 - 57.4]	0.38
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium paraintracellulare</i> KCTC 29084	66.9	[63.0 - 70.5]	31.5	[29.1 - 34.1]	56.9	[53.8 - 60.1]	0.53
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	58.1	[54.5 - 61.6]	31.5	[29.1 - 34.0]	50.7	[47.6 - 53.7]	0.93
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium colombiense</i> CECT 3035	65.2	[61.4 - 68.8]	31.5	[29.1 - 34.0]	55.7	[52.6 - 58.8]	0.02
'Mycobacterium colombiense' (NZ_MBEO00000000)	'Mycobacterium chimaera' (NZ_MNAM00000000)	55.3	[51.8 - 58.8]	31.5	[29.1 - 34.0]	48.7	[45.7 - 51.8]	0.04
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	'Mycobacterium chimaera' (NZ_CP012885)	53.2	[49.7 - 56.6]	31.5	[29.1 - 34.0]	47.1	[44.1 - 50.2]	1.5
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium vulneris</i> DSM 45247	49.3	[45.9 - 52.7]	31.5	[29.1 - 34.0]	44.3	[41.3 - 47.3]	1.19
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium colombiense</i> CECT 3035	61.7	[58.0 - 65.3]	31.5	[29.1 - 34.0]	53.3	[50.2 - 56.4]	0.14
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium colombiense</i> CECT 3035	57.2	[53.6 - 60.7]	31.4	[29.0 - 33.9]	50.0	[46.9 - 53.1]	0.43
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium marseillense</i> DSM 45437	65.0	[61.2 - 68.6]	31.4	[29.0 - 33.9]	55.5	[52.3 - 58.6]	0.19
'Mycobacterium chimaera' (NZ_CP012885)	'Mycobacterium colombiense' (NZ_LZLH00000000)	60.5	[56.9 - 64.1]	31.4	[29.0 - 33.9]	52.4	[49.3 - 55.5]	0.28
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium marseillense</i> DSM 45437	64.4	[60.6 - 68.0]	31.4	[29.0 - 34.0]	55.1	[52.0 - 58.2]	0.49
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium intracellulare</i> subsp. <i>yongonense</i> 05-1390	63.3	[59.5 - 66.9]	31.4	[29.0 - 33.9]	54.3	[51.2 - 57.4]	0.35
'Mycobacterium chimaera' (NZ_CP012885)	'Mycobacterium colombiense' (NZ_MBEO00000000)	60.8	[57.1 - 64.3]	31.4	[29.0 - 33.9]	52.5	[49.4 - 55.6]	0.25
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium vulneris</i> DSM 45247	47.1	[43.7 - 50.5]	31.3	[28.9 - 33.8]	42.6	[39.6 - 45.6]	0.88
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium intracellulare</i> subsp. <i>yongonense</i> 05-1390	58.7	[55.1 - 62.3]	31.3	[28.9 - 33.8]	51.1	[48.0 - 54.1]	0.99

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium colombiense</i> CECT 3035	55.4	[51.9 - 58.9]	31.3	[28.9 - 33.8]	48.7	[45.6 - 51.7]	0.49
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium bouchedurhonense</i> DSM 45439	52.0	[48.5 - 55.4]	31.3	[28.9 - 33.8]	46.2	[43.2 - 49.2]	0.62
'Mycobacterium sp. 455mf' (NZ_FOQB00000000)	<i>Mycobacterium fortuitum</i> DSM 46621	58.9	[55.3 - 62.4]	31.3	[28.9 - 33.9]	51.2	[48.1 - 54.2]	0.4
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	'Mycobacterium intracellulare' (NZ_LZIO00000000)	59.4	[55.8 - 63.0]	31.2	[28.8 - 33.7]	51.5	[48.4 - 54.5]	0.95
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium bouchedurhonense</i> DSM 45439	55.5	[51.9 - 59.0]	31.2	[28.8 - 33.7]	48.7	[45.6 - 51.7]	0.64
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium vulneris</i> DSM 45247	47.8	[44.4 - 51.2]	31.2	[28.8 - 33.7]	43.0	[40.1 - 46.1]	1.03
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium marseillense</i> DSM 45437	67.3	[63.5 - 71.0]	31.2	[28.8 - 33.7]	57.0	[53.8 - 60.2]	0.16
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	'Mycobacterium chimaera' (NZ_LJHL00000000)	53.1	[49.6 - 56.6]	31.2	[28.8 - 33.7]	46.9	[43.9 - 50.0]	1.24
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	58.2	[54.6 - 61.7]	31.2	[28.8 - 33.7]	50.6	[47.5 - 53.7]	1.13
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium bouchedurhonense</i> DSM 45439	58.9	[55.2 - 62.4]	31.2	[28.8 - 33.7]	51.1	[48.0 - 54.1]	0.48
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium marseillense</i> DSM 45437	56.9	[53.3 - 60.4]	31.2	[28.8 - 33.7]	49.7	[46.6 - 52.7]	1.59
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium colombiense</i> CECT 3035	60.9	[57.2 - 64.4]	31.2	[28.8 - 33.7]	52.5	[49.4 - 55.6]	0.28
'Mycobacterium sp. 455mf' (NZ_FOQB00000000)	<i>Mycobacterium fortuitum</i> subsp. <i>acetamidolyticum</i> JCM 6368	53.7	[50.2 - 57.2]	31.2	[28.8 - 33.7]	47.4	[44.4 - 50.4]	0.6
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	'Mycobacterium chimaera' (NZ_MNAM00000000)	52.6	[49.1 - 56.1]	31.2	[28.8 - 33.7]	46.6	[43.6 - 49.7]	1.31
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium intracellulare</i> ATCC 13950	63.2	[59.5 - 66.8]	31.1	[28.7 - 33.6]	54.1	[51.0 - 57.2]	0.79
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	63.2	[59.5 - 66.8]	31.1	[28.7 - 33.6]	54.1	[51.0 - 57.2]	0.79
'Mycobacterium sp. 455mf' (NZ_FOQB00000000)	<i>Mycobacterium houstonense</i> ATCC 49403	53.1	[49.6 - 56.5]	31.0	[28.6 - 33.5]	46.8	[43.8 - 49.9]	0.34
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium arosiense</i> DSM 45069	48.3	[44.9 - 51.8]	31.0	[28.6 - 33.5]	43.4	[40.4 - 46.4]	0.75
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium paraintracellulare</i> KCTC 29084	61.3	[57.6 - 64.9]	31.0	[28.6 - 33.5]	52.7	[49.6 - 55.8]	0.82
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium intracellulare</i> subsp. <i>chimaera</i> DSM 44623	53.8	[50.3 - 57.3]	31.0	[28.6 - 33.5]	47.4	[44.3 - 50.4]	1.2

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium bouchedurhonense</i> DSM 45439	49.0	[45.6 - 52.4]	31.0	[28.6 - 33.5]	43.9	[40.9 - 46.9]	0.93
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	'Mycobacterium chimaera' (NZ_LJHL00000000)	54.1	[50.6 - 57.6]	30.9	[28.5 - 33.4]	47.5	[44.5 - 50.6]	1.44
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium intracellulare</i> subsp. <i>yongonense</i> 05-1390	58.6	[55.0 - 62.1]	30.9	[28.5 - 33.4]	50.8	[47.7 - 53.8]	1.19
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium paraintracellulare</i> KCTC 29084	65.9	[62.0 - 69.5]	30.9	[28.5 - 33.4]	55.8	[52.7 - 59.0]	1.02
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium bouchedurhonense</i> DSM 45439	47.9	[44.5 - 51.3]	30.9	[28.5 - 33.4]	43.0	[40.0 - 46.1]	0.99
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium arosiense</i> DSM 45069	49.3	[45.8 - 52.7]	30.9	[28.5 - 33.4]	44.0	[41.0 - 47.0]	1.13
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium intracellulare</i> subsp. <i>chimaera</i> DSM 44623	55.0	[51.4 - 58.5]	30.9	[28.5 - 33.4]	48.2	[45.1 - 51.2]	1.39
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	'Mycobacterium colombiense' (NZ_LZLH00000000)	56.6	[53.0 - 60.1]	30.8	[28.4 - 33.3]	49.3	[46.2 - 52.3]	1.78
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium vulneris</i> DSM 45247	54.3	[50.8 - 57.8]	30.8	[28.4 - 33.3]	47.7	[44.6 - 50.7]	2.32
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium colombiense</i> CECT 3035	57.6	[54.0 - 61.1]	30.8	[28.4 - 33.3]	50.0	[46.9 - 53.1]	1.22
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	'Mycobacterium chimaera' (NZ_MNAM00000000)	52.4	[48.9 - 55.9]	30.8	[28.4 - 33.3]	46.3	[43.3 - 49.3]	1.5
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium bouchedurhonense</i> DSM 45439	51.4	[48.0 - 54.9]	30.8	[28.4 - 33.3]	45.6	[42.6 - 48.6]	0.78
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium marseillense</i> DSM 45437	60.9	[57.2 - 64.5]	30.8	[28.4 - 33.3]	52.3	[49.2 - 55.4]	1.18
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	'Mycobacterium chimaera' (NZ_CP012885)	55.7	[52.1 - 59.1]	30.8	[28.4 - 33.3]	48.6	[45.6 - 51.6]	1.09
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium arosiense</i> DSM 45069	47.3	[43.9 - 50.7]	30.7	[28.3 - 33.2]	42.5	[39.5 - 45.5]	0.81
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	'Mycobacterium colombiense' (NZ_MBEO00000000)	58.0	[54.4 - 61.5]	30.7	[28.3 - 33.2]	50.2	[47.2 - 53.3]	1.76
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium avium</i> subsp. <i>silvaticum</i> ATCC 49884	59.2	[55.6 - 62.8]	30.7	[28.3 - 33.2]	51.1	[48.0 - 54.2]	1.63
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	'Mycobacterium chimaera' (NZ_CP012885)	57.3	[53.7 - 60.8]	30.7	[28.3 - 33.2]	49.7	[46.7 - 52.8]	1.29
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium nebraskense</i> DSM 44803	46.1	[42.7 - 49.5]	30.7	[28.3 - 33.2]	41.6	[38.6 - 44.6]	0.96

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium vulneris</i> DSM 45247	46.4	[43.0 - 49.8]	30.6	[28.2 - 33.1]	41.8	[38.8 - 44.8]	2.54
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	'Mycobacterium colombiense' (NZ_LZSX00000000)	55.9	[52.4 - 59.4]	30.6	[28.2 - 33.1]	48.7	[45.7 - 51.7]	2.08
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium arosiense</i> DSM 45069	53.0	[49.5 - 56.4]	30.6	[28.2 - 33.1]	46.6	[43.6 - 49.6]	1.27
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium arosiense</i> DSM 45069	49.0	[45.6 - 52.4]	30.6	[28.2 - 33.1]	43.7	[40.7 - 46.7]	0.97
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium avium</i> subsp. <i>silvaticum</i> ATCC 49884	58.3	[54.7 - 61.9]	30.5	[28.1 - 33.0]	50.4	[47.3 - 53.4]	1.93
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium avium</i> subsp. <i>silvaticum</i> ATCC 49884	60.5	[56.8 - 64.1]	30.5	[28.1 - 33.0]	51.9	[48.8 - 54.9]	1.6
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium marseillense</i> DSM 45437	60.7	[57.0 - 64.3]	30.5	[28.1 - 33.0]	52.0	[48.9 - 55.1]	1.38
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium avium</i> ATCC 25291	64.0	[60.2 - 67.6]	30.3	[27.9 - 32.8]	54.2	[51.0 - 57.3]	1.72
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium colombiense</i> CECT 3035	58.3	[54.7 - 61.8]	30.3	[27.9 - 32.8]	50.2	[47.1 - 53.3]	0.81
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium colombiense</i> CECT 3035	61.6	[57.9 - 65.2]	30.2	[27.9 - 32.8]	52.5	[49.4 - 55.6]	1.01
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium decipiens</i> TBL 1200985	45.6	[42.2 - 49.0]	30.2	[27.8 - 32.7]	41.0	[38.1 - 44.1]	0.08
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium decipiens</i> TBL 1200985	45.8	[42.4 - 49.2]	30.2	[27.8 - 32.7]	41.2	[38.2 - 44.2]	0.09
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	'Mycobacterium colombiense' (NZ_LZLH00000000)	58.3	[54.7 - 61.8]	30.2	[27.8 - 32.7]	50.1	[47.1 - 53.2]	1.37
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	'Mycobacterium colombiense' (NZ_LZLH00000000)	61.6	[57.9 - 65.2]	30.2	[27.8 - 32.7]	52.4	[49.4 - 55.5]	1.57
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium decipiens</i> TBL 1200985	45.9	[42.5 - 49.4]	30.2	[27.8 - 32.7]	41.3	[38.3 - 44.3]	0.11
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium bochedurhonense</i> DSM 45439	54.7	[51.2 - 58.2]	30.1	[27.7 - 32.6]	47.6	[44.6 - 50.7]	1.06
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium vulneris</i> DSM 45247	51.1	[47.6 - 54.5]	30.1	[27.7 - 32.6]	45.0	[42.0 - 48.0]	2.13
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium avium</i> ATCC 25291	65.5	[61.7 - 69.1]	30.1	[27.7 - 32.6]	55.1	[51.9 - 58.2]	1.69
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	'Mycobacterium colombiense' (NZ_MBEO00000000)	59.1	[55.5 - 62.6]	30.1	[27.7 - 32.6]	50.6	[47.6 - 53.7]	1.35
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium avium</i> ATCC 25291	63.1	[59.3 - 66.7]	30.1	[27.7 - 32.6]	53.4	[50.3 - 56.5]	2.02

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium bouchedurhonense</i> DSM 45439	54.9	[51.4 - 58.4]	30.1	[27.7 - 32.6]	47.8	[44.7 - 50.8]	1.03
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium arosiense</i> DSM 45069	46.5	[43.1 - 49.9]	30.0	[27.6 - 32.5]	41.6	[38.7 - 44.7]	2.47
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium bouchedurhonense</i> DSM 45439	53.1	[49.6 - 56.6]	30.0	[27.6 - 32.5]	46.4	[43.4 - 49.5]	1.36
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	'Mycobacterium colombiense' (NZ_LZSX00000000)	57.1	[53.5 - 60.6]	30.0	[27.6 - 32.5]	49.2	[46.2 - 52.3]	1.67
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	'Mycobacterium colombiense' (NZ_MBEO00000000)	62.3	[58.6 - 65.9]	30.0	[27.6 - 32.5]	52.8	[49.7 - 55.9]	1.54
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	'Mycobacterium colombiense' (NZ_LZSX00000000)	60.6	[56.9 - 64.2]	29.9	[27.6 - 32.4]	51.7	[48.6 - 54.7]	1.87
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium arosiense</i> DSM 45069	49.0	[45.6 - 52.4]	29.4	[27.0 - 31.9]	43.2	[40.2 - 46.2]	2.06
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium arosiense</i> DSM 45069	51.5	[48.1 - 55.0]	29.3	[26.9 - 31.8]	45.0	[42.0 - 48.0]	2.26
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium nebraskense</i> DSM 44803	42.8	[39.4 - 46.2]	28.7	[26.3 - 31.2]	38.4	[35.4 - 41.5]	1.02
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium nebraskense</i> DSM 44803	41.8	[38.5 - 45.3]	28.1	[25.7 - 30.6]	37.5	[34.5 - 40.5]	1.32
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium nebraskense</i> DSM 44803	43.5	[40.2 - 47.0]	28.0	[25.7 - 30.5]	38.7	[35.8 - 41.8]	1.48
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium nebraskense</i> DSM 44803	41.4	[38.1 - 44.9]	27.2	[24.8 - 29.7]	36.9	[33.9 - 39.9]	2.47
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium paraseoulense</i> DSM 45000	37.0	[33.7 - 40.5]	27.2	[24.9 - 29.7]	33.7	[30.7 - 36.7]	1.43
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium nebraskense</i> DSM 44803	34.3	[30.9 - 37.8]	27.2	[24.8 - 29.7]	31.6	[28.6 - 34.7]	2.68
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium nebraskense</i> DSM 44803	37.9	[34.5 - 41.3]	27.0	[24.7 - 29.5]	34.2	[31.3 - 37.3]	1.34
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium nebraskense</i> DSM 44803	40.7	[37.4 - 44.2]	27.0	[24.7 - 29.5]	36.3	[33.4 - 39.4]	1.18
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium nebraskense</i> DSM 44803	40.3	[36.9 - 43.7]	26.9	[24.5 - 29.3]	35.9	[33.0 - 39.0]	2.27
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium nebraskense</i> DSM 44803	40.7	[37.3 - 44.1]	26.6	[24.2 - 29.1]	36.1	[33.2 - 39.2]	0.6
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium nebraskense</i> DSM 44803	41.1	[37.8 - 44.6]	26.5	[24.2 - 29.0]	36.4	[33.5 - 39.5]	0.9



Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium paraseoulense</i> DSM 45000	41.4	[38.0 - 44.9]	26.5	[24.1 - 28.9]	36.6	[33.6 - 39.7]	0.08
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium nebraskense</i> DSM 44803	41.2	[37.8 - 44.6]	26.4	[24.1 - 28.9]	36.4	[33.5 - 39.5]	0.92
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium paraseoulense</i> DSM 45000	40.4	[37.1 - 43.9]	26.4	[24.0 - 28.9]	35.9	[32.9 - 38.9]	1.02
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium paraseoulense</i> DSM 45000	42.4	[39.0 - 45.8]	26.3	[24.0 - 28.8]	37.2	[34.3 - 40.3]	0.06
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium paraseoulense</i> DSM 45000	41.9	[38.5 - 45.3]	26.3	[24.0 - 28.8]	36.9	[33.9 - 39.9]	1.21
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium paraseoulense</i> DSM 45000	44.1	[40.7 - 47.5]	26.3	[23.9 - 28.8]	38.4	[35.4 - 41.4]	0.22
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium paraseoulense</i> DSM 45000	39.6	[36.2 - 43.0]	26.2	[23.9 - 28.7]	35.2	[32.3 - 38.3]	0.23
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium paraseoulense</i> DSM 45000	38.9	[35.5 - 42.3]	26.2	[23.8 - 28.7]	34.7	[31.7 - 37.7]	0.29
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium paraseoulense</i> DSM 45000	43.9	[40.5 - 47.3]	26.2	[23.8 - 28.7]	38.2	[35.3 - 41.3]	0.36
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium paraseoulense</i> DSM 45000	41.3	[37.9 - 44.8]	26.1	[23.8 - 28.6]	36.4	[33.4 - 39.5]	0.08
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium paraseoulense</i> DSM 45000	44.2	[40.8 - 47.6]	26.1	[23.8 - 28.6]	38.4	[35.4 - 41.4]	0.66
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium paraseoulense</i> DSM 45000	44.7	[41.3 - 48.1]	26.1	[23.8 - 28.6]	38.8	[35.8 - 41.8]	0.33
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium bohemicum</i> DSM 44277	32.4	[29.0 - 36.0]	25.9	[23.5 - 28.4]	29.8	[26.9 - 32.9]	0.49
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium bohemicum</i> DSM 44277	33.9	[30.5 - 37.4]	25.3	[23.0 - 27.8]	30.8	[27.8 - 33.9]	0.08
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium bohemicum</i> DSM 44277	35.4	[32.0 - 38.9]	25.3	[23.0 - 27.8]	31.9	[28.9 - 35.0]	0.28
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium bohemicum</i> DSM 44277	31.6	[28.3 - 35.2]	25.1	[22.8 - 27.6]	29.0	[26.1 - 32.1]	0.85
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium bohemicum</i> DSM 44277	31.7	[28.3 - 35.3]	25.1	[22.7 - 27.5]	29.1	[26.2 - 32.2]	0.87
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium bohemicum</i> DSM 44277	29.9	[26.5 - 33.5]	25.0	[22.6 - 27.4]	27.7	[24.8 - 30.8]	1.16
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium bohemicum</i> DSM 44277	33.0	[29.6 - 36.6]	25.0	[22.6 - 27.4]	30.0	[27.1 - 33.1]	0.71
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium lacus</i> DSM 44577	33.5	[30.1 - 37.1]	24.9	[22.6 - 27.4]	30.4	[27.5 - 33.5]	1.3

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium lacus</i> DSM 44577	33.6	[30.2 - 37.2]	24.9	[22.6 - 27.4]	30.5	[27.5 - 33.6]	1.28
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium bohemicum</i> DSM 44277	29.4	[26.1 - 33.0]	24.9	[22.6 - 27.4]	27.3	[24.4 - 30.4]	1.22
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium bohemicum</i> DSM 44277	31.2	[27.9 - 34.8]	24.8	[22.5 - 27.3]	28.7	[25.8 - 31.8]	1.01
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium lacus</i> DSM 44577	33.6	[30.2 - 37.1]	24.8	[22.5 - 27.3]	30.4	[27.5 - 33.5]	1.29
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium bohemicum</i> DSM 44277	32.3	[29.0 - 35.9]	24.8	[22.5 - 27.3]	29.5	[26.6 - 32.6]	1.29
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium bohemicum</i> DSM 44277	33.1	[29.8 - 36.7]	24.6	[22.3 - 27.1]	30.0	[27.1 - 33.1]	1.26
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium bohemicum</i> DSM 44277	33.4	[30.0 - 37.0]	24.5	[22.2 - 27.0]	30.2	[27.3 - 33.3]	1.59
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium lacus</i> DSM 44577	23.9	[20.6 - 27.6]	24.3	[22.0 - 26.7]	22.9	[20.1 - 26.0]	2.4
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium lacus</i> DSM 44577	30.3	[26.9 - 33.9]	24.2	[21.9 - 26.7]	27.8	[24.9 - 30.9]	0.71
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium lacus</i> DSM 44577	23.7	[20.4 - 27.3]	24.0	[21.7 - 26.4]	22.6	[19.8 - 25.7]	1.06
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium lacus</i> DSM 44577	28.2	[24.9 - 31.8]	23.9	[21.6 - 26.4]	26.2	[23.3 - 29.3]	0.8
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium lacus</i> DSM 44577	29.0	[25.6 - 32.6]	23.8	[21.5 - 26.3]	26.7	[23.8 - 29.9]	0.72
'Mycobacterium sp. 455mf' (NZ_FOQB00000000)	<i>Mycobacterium mageritense</i> CIP 104973	32.0	[28.6 - 35.6]	23.7	[21.4 - 26.1]	28.9	[26.0 - 32.0]	0.33
'Mycobacterium sp. 455mf' (NZ_FOQB00000000)	<i>Mycobacterium wolinskyi</i> ATCC 700010	32.3	[28.9 - 35.8]	23.7	[21.4 - 26.1]	29.1	[26.2 - 32.2]	0.19
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium lacus</i> DSM 44577	24.7	[21.4 - 28.4]	23.7	[21.4 - 26.1]	23.4	[20.6 - 26.5]	1.2
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium lacus</i> DSM 44577	23.1	[19.8 - 26.8]	23.7	[21.4 - 26.1]	22.2	[19.3 - 25.2]	0.75
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium lacus</i> DSM 44577	24.1	[20.8 - 27.8]	23.7	[21.4 - 26.2]	23.0	[20.1 - 26.1]	1.04
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium lacus</i> DSM 44577	25.0	[21.7 - 28.6]	23.7	[21.4 - 26.1]	23.6	[20.8 - 26.7]	1.99
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium lacus</i> DSM 44577	25.8	[22.5 - 29.5]	23.7	[21.4 - 26.1]	24.3	[21.4 - 27.4]	2.19
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium lacus</i> DSM 44577	24.0	[20.7 - 27.6]	23.6	[21.3 - 26.0]	22.8	[20.0 - 25.9]	0.9
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium innocens</i> MK13	24.5	[21.2 - 28.2]	23.6	[21.3 - 26.0]	23.3	[20.4 - 26.4]	0.5

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium angelicum</i> DSM 45057	23.4	[20.1 - 27.1]	23.6	[21.3 - 26.0]	22.4	[19.6 - 25.5]	0.67
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium innocens</i> MK13	24.6	[21.3 - 28.3]	23.6	[21.3 - 26.0]	23.3	[20.5 - 26.4]	0.49
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium innocens</i> MK13	24.4	[21.1 - 28.0]	23.6	[21.3 - 26.1]	23.1	[20.3 - 26.2]	0.51
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium lacus</i> DSM 44577	23.3	[20.0 - 26.9]	23.6	[21.3 - 26.0]	22.3	[19.5 - 25.3]	0.69
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium gastrii</i> DSM 43505	25.2	[21.9 - 28.9]	23.5	[21.2 - 26.0]	23.8	[21.0 - 26.9]	0.61
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium innocens</i> MK13	26.5	[23.1 - 30.1]	23.5	[21.2 - 25.9]	24.8	[21.9 - 27.9]	0.62
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	'Mycobacterium kansasii' (NZ_LWCL00000000)	21.7	[18.4 - 25.3]	23.5	[21.2 - 26.0]	21.0	[18.2 - 24.0]	3.12
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium angelicum</i> DSM 45057	22.6	[19.3 - 26.2]	23.5	[21.2 - 26.0]	21.7	[18.9 - 24.8]	3.02
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium lacus</i> DSM 44577	24.3	[21.0 - 27.9]	23.5	[21.2 - 26.0]	23.1	[20.2 - 26.2]	0.62
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium gastrii</i> DSM 43505	25.6	[22.2 - 29.2]	23.5	[21.2 - 25.9]	24.0	[21.2 - 27.1]	0.58
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium angelicum</i> DSM 45057	23.6	[20.3 - 27.2]	23.5	[21.2 - 25.9]	22.5	[19.7 - 25.6]	0.66
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium bovis</i> ATCC 19210	24.3	[21.0 - 28.0]	23.5	[21.2 - 25.9]	23.1	[20.3 - 26.2]	0.63
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium basiliense</i> 901379	32.4	[29.0 - 36.0]	23.5	[21.2 - 25.9]	29.2	[26.2 - 32.3]	0.46
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium africanum</i> ATCC 25420	25.4	[22.1 - 29.1]	23.5	[21.2 - 25.9]	23.9	[21.1 - 27.0]	0.64
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	'Mycobacterium kansasii' (NZ_NKRE00000000)	25.3	[22.0 - 29.0]	23.5	[21.2 - 25.9]	23.9	[21.0 - 27.0]	0.59
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium angelicum</i> DSM 45057	23.3	[20.0 - 26.9]	23.5	[21.2 - 26.0]	22.3	[19.5 - 25.4]	0.69
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium avium</i> subsp. <i>silvaticum</i> ATCC 49884	22.2	[18.9 - 25.8]	23.5	[21.2 - 25.9]	21.4	[18.6 - 24.4]	3.05
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium kansasii</i> ATCC 12478	21.4	[18.2 - 25.1]	23.5	[21.2 - 26.0]	20.8	[18.0 - 23.8]	3.07
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	'Mycobacterium kansasii' (NZ_PQOU00000000)	21.7	[18.5 - 25.4]	23.5	[21.2 - 26.0]	21.0	[18.2 - 24.1]	3.2
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium decipiens</i> TBL 1200985	27.5	[24.1 - 31.1]	23.5	[21.2 - 25.9]	25.5	[22.7 - 28.6]	0.67

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium gastr</i> DSM 43505	25.4	[22.1 - 29.1]	23.5	[21.2 - 26.0]	24.0	[21.1 - 27.1]	0.6
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium gastr</i> DSM 43505	22.5	[19.2 - 26.1]	23.5	[21.2 - 26.0]	21.6	[18.8 - 24.7]	3.1
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium microti</i> ATCC 19422	25.0	[21.7 - 28.6]	23.5	[21.2 - 26.0]	23.6	[20.8 - 26.7]	0.84
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium persicum</i> DSM 104278	23.9	[20.6 - 27.6]	23.4	[21.1 - 25.8]	22.8	[19.9 - 25.9]	0.6
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	'Mycobacterium kansasii' (NZ_NKRE00000000)	22.4	[19.2 - 26.1]	23.4	[21.1 - 25.9]	21.6	[18.8 - 24.6]	3.12
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium tuberculosis</i> H37Rv	23.7	[20.4 - 27.4]	23.4	[21.1 - 25.8]	22.6	[19.8 - 25.7]	0.48
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium avium</i> subsp. <i>silvaticum</i> ATCC 49884	22.3	[19.1 - 26.0]	23.4	[21.1 - 25.8]	21.5	[18.7 - 24.6]	2.97
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	'Mycobacterium kansasii' (NZ_PQOU00000000)	23.7	[20.4 - 27.3]	23.4	[21.1 - 25.9]	22.5	[19.7 - 25.6]	0.5
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium decipiens</i> TBL 1200985	26.0	[22.6 - 29.6]	23.4	[21.1 - 25.9]	24.4	[21.5 - 27.5]	0.59
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium bovis</i> ATCC 19210	22.8	[19.5 - 26.4]	23.4	[21.1 - 25.9]	21.9	[19.1 - 24.9]	0.54
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium tuberculosis</i> H37Rv	25.5	[22.2 - 29.1]	23.4	[21.1 - 25.9]	24.0	[21.1 - 27.1]	0.57
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	'Mycobacterium kansasii' (NZ_NKRE00000000)	25.4	[22.1 - 29.1]	23.4	[21.1 - 25.9]	23.9	[21.1 - 27.0]	0.57
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium avium</i> subsp. <i>silvaticum</i> ATCC 49884	23.2	[19.9 - 26.8]	23.4	[21.1 - 25.8]	22.1	[19.3 - 25.2]	2.96
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium innocens</i> MK13	26.7	[23.4 - 30.4]	23.4	[21.1 - 25.8]	24.9	[22.1 - 28.1]	0.34
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium lacus</i> DSM 44577	24.9	[21.6 - 28.6]	23.4	[21.1 - 25.9]	23.6	[20.7 - 26.7]	0.65
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	'Mycobacterium kansasii' (NZ_PQOU00000000)	23.7	[20.4 - 27.3]	23.4	[21.1 - 25.8]	22.6	[19.8 - 25.7]	0.48
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium caprae</i> ATCC BAA-824	23.8	[20.5 - 27.4]	23.4	[21.1 - 25.8]	22.6	[19.8 - 25.7]	0.53
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium caprae</i> ATCC BAA-824	25.5	[22.1 - 29.1]	23.4	[21.1 - 25.9]	24.0	[21.1 - 27.1]	0.61
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium persicum</i> DSM 104278	24.0	[20.7 - 27.7]	23.4	[21.1 - 25.8]	22.8	[20.0 - 25.9]	0.59
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium africanum</i> ATCC 25420	23.7	[20.4 - 27.4]	23.4	[21.1 - 25.9]	22.6	[19.8 - 25.7]	0.55
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium innocens</i> MK13	22.2	[18.9 - 25.8]	23.4	[21.1 - 25.9]	21.4	[18.6 - 24.4]	3.2
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium pseudokansasii</i> MK142	22.9	[19.6 - 26.5]	23.4	[21.1 - 25.9]	21.9	[19.1 - 25.0]	0.62

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium innocens</i> MK13	26.5	[23.2 - 30.1]	23.4	[21.1 - 25.8]	24.8	[21.9 - 27.9]	0.41
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	'Mycobacterium kansasii' (NZ_PQOU00000000)	23.8	[20.5 - 27.4]	23.4	[21.1 - 25.8]	22.6	[19.8 - 25.7]	0.49
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	'Mycobacterium kansasii' (NZ_NKRE00000000)	25.6	[22.2 - 29.2]	23.4	[21.1 - 25.9]	24.0	[21.2 - 27.1]	0.58
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium pinnipedii</i> ATCC BAA-688	25.5	[22.2 - 29.2]	23.4	[21.1 - 25.9]	24.0	[21.2 - 27.1]	0.59
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium microti</i> ATCC 19422	23.4	[20.2 - 27.1]	23.4	[21.1 - 25.9]	22.4	[19.6 - 25.5]	0.76
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium pinnipedii</i> ATCC BAA-688	23.8	[20.5 - 27.4]	23.4	[21.1 - 25.8]	22.6	[19.8 - 25.7]	0.5
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	'Mycobacterium kansasii' (NZ_LWCL00000000)	23.6	[20.3 - 27.2]	23.3	[21.0 - 25.8]	22.5	[19.7 - 25.6]	0.59
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium kansasii</i> ATCC 12478	23.4	[20.1 - 27.0]	23.3	[21.0 - 25.7]	22.3	[19.5 - 25.4]	0.61
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium persicum</i> DSM 104278	24.1	[20.8 - 27.7]	23.3	[21.1 - 25.8]	22.9	[20.1 - 26.0]	0.58
'Mycobacterium kansasii' (NZ_NKRE00000000)	'Mycobacterium marinum' (NZ_PQBM00000000)	26.7	[23.4 - 30.3]	23.3	[21.0 - 25.8]	24.9	[22.0 - 28.0]	0.7
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium kansasii</i> ATCC 12478	23.5	[20.2 - 27.1]	23.3	[21.0 - 25.7]	22.4	[19.6 - 25.5]	0.62
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium basiliense</i> 901379	26.9	[23.6 - 30.6]	23.3	[21.0 - 25.7]	25.1	[22.2 - 28.2]	1.08
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium pseudokansasii</i> MK142	21.8	[18.5 - 25.4]	23.3	[21.0 - 25.8]	21.0	[18.2 - 24.1]	3.09
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium bovis</i> ATCC 19210	22.6	[19.3 - 26.2]	23.3	[21.0 - 25.8]	21.7	[18.9 - 24.8]	0.63
'Mycobacterium kansasii' (NZ_LWCL00000000)	'Mycobacterium tuberculosis' (NZ_MMLR00000000)	23.6	[20.3 - 27.3]	23.3	[21.0 - 25.7]	22.5	[19.7 - 25.6]	0.56
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium pinnipedii</i> ATCC BAA-688	20.5	[17.3 - 24.1]	23.3	[21.0 - 25.7]	20.0	[17.2 - 23.0]	3.71
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium kansasii</i> ATCC 12478	23.3	[20.1 - 27.0]	23.3	[21.0 - 25.7]	22.3	[19.5 - 25.4]	0.63
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium gastris</i> DSM 43505	27.3	[23.9 - 30.9]	23.3	[21.0 - 25.8]	25.3	[22.5 - 28.4]	0.72
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium persicum</i> DSM 104278	25.6	[22.3 - 29.2]	23.3	[21.0 - 25.7]	24.1	[21.2 - 27.2]	0.72
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	20.5	[17.3 - 24.1]	23.3	[21.0 - 25.7]	20.0	[17.2 - 23.0]	3.7
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium microti</i> ATCC 19422	20.5	[17.3 - 24.1]	23.3	[21.0 - 25.8]	19.9	[17.2 - 23.0]	3.96

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	'Mycobacterium tuberculosis' (NZ_FPVV00000000)	20.5	[17.3 - 24.1]	23.3	[21.0 - 25.8]	20.0	[17.3 - 23.0]	3.71
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium africanum</i> ATCC 25420	23.5	[20.2 - 27.2]	23.3	[21.1 - 25.8]	22.4	[19.6 - 25.5]	0.63
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium tuberculosis</i> H37Rv	23.6	[20.3 - 27.3]	23.3	[21.0 - 25.7]	22.5	[19.7 - 25.6]	0.57
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	'Mycobacterium tuberculosis' (NZ_MMLR00000000)	20.5	[17.3 - 24.2]	23.3	[21.0 - 25.7]	20.0	[17.3 - 23.0]	3.68
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium pseudokansasii</i> MK142	23.0	[19.8 - 26.7]	23.3	[21.0 - 25.8]	22.0	[19.2 - 25.1]	0.61
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium caprae</i> ATCC BAA-824	23.6	[20.4 - 27.3]	23.3	[21.0 - 25.8]	22.5	[19.7 - 25.6]	0.61
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium decipiens</i> TBL 1200985	26.2	[22.8 - 29.8]	23.3	[21.0 - 25.8]	24.5	[21.6 - 27.6]	0.67
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium microti</i> ATCC 19422	23.3	[20.1 - 27.0]	23.3	[21.0 - 25.8]	22.3	[19.5 - 25.4]	0.84
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium lacus</i> DSM 44577	24.8	[21.5 - 28.5]	23.3	[21.0 - 25.8]	23.5	[20.6 - 26.6]	0.32
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	'Mycobacterium kansasii' (NZ_LWCL00000000)	23.7	[20.4 - 27.3]	23.3	[21.0 - 25.7]	22.5	[19.7 - 25.6]	0.58
'Mycobacterium marinum' (NZ_PQBM00000000)	'Mycobacterium kansasii' (NZ_PQOU00000000)	25.7	[22.3 - 29.3]	23.3	[21.0 - 25.8]	24.1	[21.3 - 27.2]	0.62
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium pseudokansasii</i> MK142	23.0	[19.7 - 26.7]	23.3	[21.0 - 25.8]	22.0	[19.2 - 25.1]	0.6
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium persicum</i> DSM 104278	22.3	[19.1 - 26.0]	23.3	[21.0 - 25.7]	21.4	[18.7 - 24.5]	3.11
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium pinnipedii</i> ATCC BAA-688	23.6	[20.3 - 27.3]	23.3	[21.0 - 25.7]	22.5	[19.7 - 25.6]	0.58
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium kansasii</i> ATCC 12478	22.6	[19.3 - 26.2]	23.3	[21.0 - 25.8]	21.7	[18.9 - 24.7]	1.36
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium bovis</i> ATCC 19210	20.1	[17.0 - 23.8]	23.3	[21.0 - 25.8]	19.7	[17.0 - 22.7]	3.75
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium tuberculosis</i> H37Rv	20.5	[17.3 - 24.2]	23.3	[21.0 - 25.7]	20.0	[17.3 - 23.0]	3.69
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium basiliense</i> 901379	33.8	[30.4 - 37.4]	23.2	[21.0 - 25.7]	30.1	[27.2 - 33.2]	0.75
'Mycobacterium marinum' (NZ_CP025779)	'Mycobacterium kansasii' (NZ_PQOU00000000)	25.6	[22.3 - 29.3]	23.2	[20.9 - 25.6]	24.1	[21.2 - 27.2]	0.4
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium decipiens</i> TBL 1200985	21.7	[18.4 - 25.3]	23.2	[20.9 - 25.7]	20.9	[18.2 - 24.0]	3.79
'Mycobacterium kansasii' (NZ_LWCL00000000)	'Mycobacterium marinum' (NZ_PQBM00000000)	26.0	[22.7 - 29.7]	23.2	[20.9 - 25.7]	24.4	[21.5 - 27.5]	0.7

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium kansasii</i> ATCC 12478	26.2	[22.9 - 29.9]	23.2	[20.9 - 25.6]	24.5	[21.7 - 27.6]	0.75
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium pseudokansasii</i> MK142	25.8	[22.5 - 29.4]	23.2	[21.0 - 25.7]	24.2	[21.3 - 27.3]	0.73
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium gastri</i> DSM 43505	27.4	[24.1 - 31.1]	23.2	[20.9 - 25.6]	25.4	[22.6 - 28.5]	0.5
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium marinum</i> CCUG 20998	25.6	[22.3 - 29.3]	23.2	[20.9 - 25.7]	24.0	[21.2 - 27.1]	0.38
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium caprae</i> ATCC BAA-824	20.6	[17.4 - 24.2]	23.2	[20.9 - 25.7]	20.0	[17.3 - 23.1]	3.73
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium persicum</i> DSM 104278	25.8	[22.5 - 29.5]	23.2	[20.9 - 25.7]	24.2	[21.4 - 27.3]	0.43
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium persicum</i> DSM 104278	25.6	[22.3 - 29.3]	23.2	[20.9 - 25.6]	24.0	[21.2 - 27.1]	0.5
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium basiliense</i> 901379	29.1	[25.7 - 32.7]	23.2	[20.9 - 25.7]	26.7	[23.8 - 29.8]	1.16
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium africanum</i> ATCC 25420	20.5	[17.3 - 24.2]	23.2	[21.0 - 25.7]	20.0	[17.3 - 23.0]	3.76
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium gastri</i> DSM 43505	27.7	[24.3 - 31.3]	23.2	[20.9 - 25.6]	25.6	[22.7 - 28.7]	0.43
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium haemophilum</i> ATCC 29548	24.4	[21.1 - 28.0]	23.2	[20.9 - 25.6]	23.1	[20.3 - 26.2]	1.65
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium basiliense</i> 901379	33.5	[30.1 - 37.1]	23.2	[20.9 - 25.7]	29.9	[27.0 - 33.0]	0.68
'Mycobacterium marinum E11' (NZ_HG917972)	'Mycobacterium kansasii' (NZ_PQOU00000000)	25.8	[22.5 - 29.5]	23.2	[20.9 - 25.7]	24.2	[21.4 - 27.3]	0.33
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium szulgai</i> DSM 44166	21.4	[18.2 - 25.1]	23.2	[20.9 - 25.7]	20.7	[18.0 - 23.8]	3.45
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium pseudokansasii</i> MK142	26.3	[22.9 - 29.9]	23.1	[20.8 - 25.5]	24.5	[21.7 - 27.6]	0.44
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	'Mycobacterium kansasii' (NZ_LWCL00000000)	23.5	[20.2 - 27.2]	23.1	[20.8 - 25.5]	22.4	[19.6 - 25.5]	2.71
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium marinum</i> CCUG 20998	26.1	[22.7 - 29.7]	23.1	[20.8 - 25.5]	24.4	[21.5 - 27.5]	0.46
'Mycobacterium marinum E11' (NZ_HG917972)	'Mycobacterium kansasii' (NZ_NKRE00000000)	27.0	[23.6 - 30.6]	23.1	[20.9 - 25.6]	25.1	[22.2 - 28.2]	0.42
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium haemophilum</i> ATCC 29548	24.6	[21.3 - 28.2]	23.1	[20.8 - 25.6]	23.2	[20.4 - 26.3]	1.67
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium pseudoshottsii</i> JCM 15466	25.7	[22.3 - 29.3]	23.1	[20.9 - 25.6]	24.1	[21.2 - 27.2]	0.39
'Mycobacterium marinum' (NZ_CP025779)	'Mycobacterium kansasii' (NZ_NKRE00000000)	26.7	[23.3 - 30.3]	23.1	[20.8 - 25.6]	24.9	[22.0 - 28.0]	0.49

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium pseudoshottsii</i> JCM 15466	26.8	[23.4 - 30.4]	23.1	[20.8 - 25.6]	24.9	[22.1 - 28.0]	0.47
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium haemophilum</i> ATCC 29548	20.7	[17.5 - 24.3]	23.1	[20.8 - 25.5]	20.1	[17.3 - 23.1]	5.36
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium angelicum</i> DSM 45057	26.4	[23.1 - 30.1]	23.1	[20.8 - 25.6]	24.7	[21.8 - 27.8]	0.09
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium avium</i> subsp. <i>silvaticum</i> ATCC 49884	21.2	[18.0 - 24.9]	23.1	[20.9 - 25.6]	20.6	[17.8 - 23.6]	3.56
'Mycobacterium marinum E11' (NZ_HG917972)	'Mycobacterium kansasii' (NZ_LWCL00000000)	26.3	[23.0 - 30.0]	23.1	[20.8 - 25.5]	24.6	[21.7 - 27.7]	0.41
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium haemophilum</i> ATCC 29548	24.6	[21.3 - 28.2]	23.1	[20.8 - 25.6]	23.2	[20.4 - 26.3]	1.66
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium avium</i> subsp. <i>silvaticum</i> ATCC 49884	21.3	[18.1 - 24.9]	23.1	[20.8 - 25.6]	20.6	[17.8 - 23.7]	3.54
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium angelicum</i> DSM 45057	25.7	[22.3 - 29.3]	23.1	[20.8 - 25.6]	24.1	[21.2 - 27.2]	0.18
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium marinum</i> CCUG 20998	26.8	[23.4 - 30.4]	23.1	[20.8 - 25.6]	24.9	[22.1 - 28.0]	0.47
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium avium</i> subsp. <i>silvaticum</i> ATCC 49884	21.3	[18.1 - 24.9]	23.1	[20.9 - 25.6]	20.6	[17.8 - 23.7]	3.53
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium attenuatum</i> MK41	21.5	[18.2 - 25.1]	23.0	[20.7 - 25.4]	20.7	[18.0 - 23.8]	0.19
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium angelicum</i> DSM 45057	25.8	[22.5 - 29.4]	23.0	[20.7 - 25.5]	24.2	[21.3 - 27.3]	0.1
'Mycobacterium marinum' (NZ_CP025779)	'Mycobacterium kansasii' (NZ_LWCL00000000)	26.1	[22.7 - 29.7]	23.0	[20.7 - 25.5]	24.4	[21.5 - 27.5]	0.48
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium kansasii</i> ATCC 12478	26.2	[22.9 - 29.9]	23.0	[20.7 - 25.4]	24.5	[21.6 - 27.6]	0.53
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium pseudokansasii</i> MK142	26.1	[22.8 - 29.7]	23.0	[20.8 - 25.5]	24.4	[21.5 - 27.5]	0.52
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	'Mycobacterium kansasii' (NZ_PQOU00000000)	23.2	[19.9 - 26.8]	23.0	[20.7 - 25.4]	22.1	[19.3 - 25.2]	2.79
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium pseudoshottsii</i> JCM 15466	25.9	[22.6 - 29.6]	23.0	[20.7 - 25.4]	24.3	[21.4 - 27.4]	0.47
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium kansasii</i> ATCC 12478	26.5	[23.2 - 30.2]	23.0	[20.7 - 25.4]	24.7	[21.8 - 27.8]	0.46
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium attenuatum</i> MK41	20.6	[17.4 - 24.2]	23.0	[20.8 - 25.5]	20.0	[17.2 - 23.0]	3.52
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium basiliense</i> 901379	27.6	[24.3 - 31.3]	23.0	[20.8 - 25.5]	25.6	[22.7 - 28.7]	1.16
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium bohemicum</i> DSM 44277	22.3	[19.0 - 25.9]	23.0	[20.7 - 25.4]	21.4	[18.6 - 24.5]	2.62
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	'Mycobacterium kansasii' (NZ_NKRE00000000)	24.6	[21.3 - 28.3]	22.9	[20.6 - 25.4]	23.2	[20.4 - 26.3]	2.71



Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium avium</i> ATCC 25291	23.7	[20.4 - 27.3]	22.9	[20.6 - 25.4]	22.5	[19.7 - 25.6]	3.14
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium szulgai</i> DSM 44166	25.7	[22.4 - 29.4]	22.9	[20.6 - 25.3]	24.1	[21.2 - 27.2]	0.34
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium szulgai</i> DSM 44166	24.6	[21.2 - 28.2]	22.9	[20.6 - 25.4]	23.2	[20.3 - 26.3]	0.25
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium attenuatum</i> MK41	21.7	[18.4 - 25.3]	22.9	[20.6 - 25.4]	20.9	[18.1 - 23.9]	0.18
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium avium</i> ATCC 25291	23.7	[20.4 - 27.4]	22.9	[20.6 - 25.3]	22.5	[19.7 - 25.6]	3.06
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium attenuatum</i> MK41	21.7	[18.4 - 25.3]	22.9	[20.6 - 25.4]	20.9	[18.1 - 24.0]	0.16
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium bohemicum</i> DSM 44277	22.3	[19.0 - 25.9]	22.8	[20.5 - 25.2]	21.4	[18.6 - 24.4]	2.63
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium innocens</i> MK13	23.7	[20.4 - 27.4]	22.8	[20.5 - 25.2]	22.5	[19.7 - 25.6]	2.79
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	'Mycobacterium kansasii' (NZ_PQOU00000000)	23.3	[20.0 - 27.0]	22.8	[20.5 - 25.3]	22.2	[19.4 - 25.3]	2.99
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium innocens</i> MK13	24.0	[20.7 - 27.7]	22.8	[20.5 - 25.3]	22.7	[19.9 - 25.8]	2.99
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium angelicum</i> DSM 45057	24.1	[20.8 - 27.8]	22.8	[20.5 - 25.3]	22.8	[20.0 - 25.9]	2.61
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium gastrii</i> DSM 43505	23.7	[20.4 - 27.3]	22.8	[20.5 - 25.2]	22.5	[19.7 - 25.6]	2.69
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium bohemicum</i> DSM 44277	22.3	[19.0 - 25.9]	22.8	[20.5 - 25.3]	21.3	[18.6 - 24.4]	2.71
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium kansasii</i> ATCC 12478	22.9	[19.6 - 26.5]	22.8	[20.5 - 25.2]	21.8	[19.0 - 24.9]	2.66
'Mycobacterium chimaera' (NZ_LJHL00000000)	'Mycobacterium kansasii' (NZ_PQOU00000000)	21.7	[18.5 - 25.4]	22.8	[20.5 - 25.2]	20.9	[18.2 - 24.0]	1.55
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium kansasii</i> ATCC 12478	23.3	[20.0 - 26.9]	22.8	[20.5 - 25.2]	22.1	[19.3 - 25.2]	2.86
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium angelicum</i> DSM 45057	25.1	[21.8 - 28.7]	22.8	[20.5 - 25.2]	23.6	[20.7 - 26.7]	2.81
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium avium</i> ATCC 25291	25.1	[21.8 - 28.8]	22.8	[20.5 - 25.3]	23.6	[20.8 - 26.7]	3.06
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	'Mycobacterium kansasii' (NZ_LWCL00000000)	23.7	[20.4 - 27.3]	22.8	[20.5 - 25.2]	22.4	[19.6 - 25.5]	2.91
'Mycobacterium chimaera' (NZ_LJHL00000000)	'Mycobacterium kansasii' (NZ_LWCL00000000)	21.8	[18.6 - 25.5]	22.8	[20.5 - 25.3]	21.0	[18.2 - 24.1]	1.47
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium szulgai</i> DSM 44166	22.0	[18.8 - 25.6]	22.7	[20.4 - 25.2]	21.1	[18.4 - 24.2]	0.24
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium haemophilum</i> ATCC 29548	20.5	[17.3 - 24.2]	22.7	[20.5 - 25.2]	19.9	[17.2 - 23.0]	4.01

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium bohemicum</i> DSM 44277	19.9	[16.7 - 23.5]	22.7	[20.4 - 25.1]	19.4	[16.7 - 22.4]	3.19
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium szulgai</i> DSM 44166	22.2	[18.9 - 25.8]	22.7	[20.4 - 25.1]	21.3	[18.5 - 24.3]	0.23
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium bochedurhonense</i> DSM 45439	23.0	[19.7 - 26.6]	22.7	[20.4 - 25.1]	21.9	[19.1 - 25.0]	2.4
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium bohemicum</i> DSM 44277	19.9	[16.7 - 23.5]	22.7	[20.4 - 25.1]	19.4	[16.7 - 22.4]	3.2
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium gastri</i> DSM 43505	22.8	[19.5 - 26.4]	22.7	[20.4 - 25.1]	21.7	[18.9 - 24.8]	1.76
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium paraseoulense</i> DSM 45000	23.0	[19.7 - 26.7]	22.7	[20.5 - 25.2]	21.9	[19.1 - 25.0]	1.69
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium bohemicum</i> DSM 44277	19.8	[16.6 - 23.4]	22.7	[20.4 - 25.1]	19.3	[16.6 - 22.4]	3.22
'Mycobacterium kansasii' (NZ_NKRE00000000)	'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	23.2	[19.9 - 26.8]	22.7	[20.4 - 25.1]	22.1	[19.3 - 25.2]	1.77
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium gastri</i> DSM 43505	24.3	[21.0 - 28.0]	22.7	[20.4 - 25.2]	22.9	[20.1 - 26.0]	2.89
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium attenuatum</i> MK41	24.7	[21.4 - 28.4]	22.7	[20.4 - 25.1]	23.3	[20.4 - 26.4]	0.3
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium persicum</i> DSM 104278	21.8	[18.5 - 25.4]	22.7	[20.4 - 25.1]	21.0	[18.2 - 24.0]	1.76
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium nebraskense</i> DSM 44803	22.0	[18.7 - 25.6]	22.7	[20.4 - 25.1]	21.1	[18.3 - 24.2]	0.52
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium szulgai</i> DSM 44166	25.2	[21.9 - 28.8]	22.7	[20.4 - 25.2]	23.6	[20.8 - 26.7]	0.33
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium bochedurhonense</i> DSM 45439	22.8	[19.5 - 26.4]	22.7	[20.4 - 25.2]	21.8	[19.0 - 24.8]	2.48
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium avium</i> ATCC 25291	22.5	[19.2 - 26.1]	22.7	[20.4 - 25.1]	21.5	[18.7 - 24.6]	3.65
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium szulgai</i> DSM 44166	21.9	[18.7 - 25.6]	22.7	[20.4 - 25.2]	21.1	[18.3 - 24.1]	0.25
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	'Mycobacterium kansasii' (NZ_NKRE00000000)	24.9	[21.6 - 28.6]	22.7	[20.4 - 25.1]	23.4	[20.6 - 26.5]	2.91
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium persicum</i> DSM 104278	23.6	[20.3 - 27.2]	22.6	[20.3 - 25.1]	22.4	[19.6 - 25.5]	2.7
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium attenuatum</i> MK41	24.9	[21.6 - 28.6]	22.6	[20.3 - 25.0]	23.4	[20.6 - 26.5]	0.08
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium bovis</i> ATCC 19210	21.2	[18.0 - 24.8]	22.6	[20.3 - 25.1]	20.5	[17.7 - 23.5]	3.34

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium pseudokansasii</i> MK142	23.4	[20.1 - 27.1]	22.6	[20.4 - 25.1]	22.2	[19.4 - 25.3]	2.68
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium kansasii</i> ATCC 12478	21.9	[18.6 - 25.5]	22.6	[20.3 - 25.1]	21.0	[18.3 - 24.1]	1.73
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium bovis</i> ATCC 19210	20.0	[16.8 - 23.6]	22.6	[20.3 - 25.0]	19.5	[16.8 - 22.5]	2.4
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium pseudokansasii</i> MK142	21.7	[18.5 - 25.4]	22.6	[20.3 - 25.1]	20.9	[18.1 - 24.0]	1.75
'Mycobacterium kansasii' (NZ_PQOU00000000)	'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	22.2	[19.0 - 25.8]	22.6	[20.3 - 25.1]	21.3	[18.5 - 24.3]	1.86
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium innocens</i> MK13	22.2	[19.0 - 25.9]	22.6	[20.3 - 25.0]	21.3	[18.5 - 24.3]	1.54
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	'Mycobacterium tuberculosis' (NZ_FPVV00000000)	21.7	[18.5 - 25.3]	22.6	[20.3 - 25.0]	20.9	[18.1 - 23.9]	3.3
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium attenuatum</i> MK41	25.1	[21.8 - 28.8]	22.6	[20.3 - 25.0]	23.5	[20.7 - 26.6]	0.01
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium avium</i> ATCC 25291	22.7	[19.4 - 26.3]	22.6	[20.3 - 25.1]	21.6	[18.8 - 24.7]	3.62
'Mycobacterium chimaera' (NZ_LJHL00000000)	'Mycobacterium kansasii' (NZ_NKRE00000000)	23.1	[19.8 - 26.8]	22.6	[20.4 - 25.1]	22.0	[19.2 - 25.1]	1.46
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium microti</i> ATCC 19422	21.7	[18.4 - 25.3]	22.6	[20.3 - 25.0]	20.9	[18.1 - 23.9]	3.55
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium nebraskense</i> DSM 44803	23.5	[20.2 - 27.1]	22.6	[20.3 - 25.1]	22.3	[19.5 - 25.4]	0.44
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium haemophilum</i> ATCC 29548	20.6	[17.4 - 24.2]	22.6	[20.4 - 25.1]	19.9	[17.2 - 23.0]	3.57
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium persicum</i> DSM 104278	24.3	[21.0 - 27.9]	22.6	[20.3 - 25.0]	22.9	[20.1 - 26.0]	2.89
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium pseudokansasii</i> MK142	23.7	[20.4 - 27.4]	22.6	[20.3 - 25.1]	22.5	[19.7 - 25.6]	2.88
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium innocens</i> MK13	22.6	[19.3 - 26.2]	22.6	[20.4 - 25.1]	21.6	[18.8 - 24.7]	1.85
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium haemophilum</i> ATCC 29548	21.4	[18.2 - 25.1]	22.6	[20.3 - 25.1]	20.7	[17.9 - 23.7]	4.95
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium angelicum</i> DSM 45057	22.9	[19.6 - 26.6]	22.6	[20.3 - 25.0]	21.8	[19.0 - 24.9]	1.68
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium bouchedurhonense</i> DSM 45439	24.1	[20.8 - 27.8]	22.6	[20.3 - 25.0]	22.8	[20.0 - 25.9]	2.39

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium avium</i> ATCC 25291	22.6	[19.4 - 26.3]	22.6	[20.3 - 25.0]	21.6	[18.8 - 24.7]	3.64
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium lacus</i> DSM 44577	23.2	[19.9 - 26.8]	22.6	[20.4 - 25.1]	22.0	[19.2 - 25.1]	1.42
'Mycobacterium kansasii' (NZ_LWCL00000000)	'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	22.2	[18.9 - 25.8]	22.6	[20.3 - 25.1]	21.2	[18.5 - 24.3]	1.78
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium paraseoulense</i> DSM 45000	22.7	[19.5 - 26.4]	22.6	[20.3 - 25.1]	21.7	[18.9 - 24.8]	1.78
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium szulgai</i> DSM 44166	22.8	[19.5 - 26.4]	22.5	[20.2 - 24.9]	21.7	[18.9 - 24.8]	3.04
'Mycobacterium chimaera' (NZ_MNAM00000000)	'Mycobacterium kansasii' (NZ_PQOU00000000)	21.7	[18.5 - 25.4]	22.5	[20.2 - 25.0]	20.9	[18.1 - 24.0]	1.49
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	'Mycobacterium marinum' (NZ_PQBM00000000)	19.9	[16.7 - 23.5]	22.5	[20.2 - 24.9]	19.3	[16.6 - 22.4]	3.82
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium haemophilum</i> ATCC 29548	22.3	[19.0 - 25.9]	22.5	[20.2 - 25.0]	21.3	[18.5 - 24.4]	5.14
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	20.5	[17.3 - 24.1]	22.5	[20.2 - 24.9]	19.9	[17.2 - 23.0]	2.34
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium angelicum</i> DSM 45057	23.7	[20.4 - 27.3]	22.5	[20.2 - 25.0]	22.4	[19.6 - 25.5]	1.66
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	21.9	[18.6 - 25.5]	22.5	[20.3 - 25.0]	21.0	[18.2 - 24.1]	3.29
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium tuberculosis</i> H37Rv	20.5	[17.3 - 24.2]	22.5	[20.2 - 24.9]	19.9	[17.2 - 23.0]	2.35
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium paraseoulense</i> DSM 45000	23.1	[19.8 - 26.7]	22.5	[20.3 - 25.0]	22.0	[19.2 - 25.0]	1.7
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium innocens</i> MK13	22.3	[19.0 - 25.9]	22.5	[20.3 - 25.0]	21.3	[18.6 - 24.4]	1.48
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium intracellulare</i> subsp. <i>chimaera</i> DSM 44623	22.2	[18.9 - 25.8]	22.5	[20.2 - 24.9]	21.2	[18.4 - 24.3]	1.52
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium decipiens</i> TBL 1200985	22.8	[19.6 - 26.5]	22.5	[20.2 - 24.9]	21.8	[19.0 - 24.8]	2.43
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium haemophilum</i> ATCC 29548	21.3	[18.0 - 24.9]	22.5	[20.2 - 25.0]	20.5	[17.7 - 23.5]	3.6
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	'Mycobacterium kansasii' (NZ_PQOU00000000)	23.2	[19.9 - 26.8]	22.5	[20.2 - 24.9]	22.0	[19.2 - 25.1]	2.0
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium africanum</i> ATCC 25420	21.8	[18.5 - 25.4]	22.5	[20.2 - 25.0]	20.9	[18.2 - 24.0]	3.35
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium haemophilum</i> ATCC 29548	20.2	[17.0 - 23.8]	22.5	[20.2 - 24.9]	19.6	[16.9 - 22.7]	3.64

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium angelicum</i> DSM 45057	22.9	[19.7 - 26.6]	22.5	[20.2 - 25.0]	21.8	[19.0 - 24.9]	1.24
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium haemophilum</i> ATCC 29548	20.9	[17.7 - 24.6]	22.5	[20.2 - 25.0]	20.2	[17.5 - 23.3]	3.99
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium pseudokansasii</i> MK142	21.3	[18.1 - 25.0]	22.5	[20.2 - 25.0]	20.6	[17.8 - 23.6]	1.43
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium angelicum</i> DSM 45057	24.1	[20.8 - 27.7]	22.5	[20.2 - 24.9]	22.7	[19.9 - 25.8]	1.82
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium bovis</i> ATCC 19210	21.8	[18.6 - 25.5]	22.5	[20.2 - 24.9]	21.0	[18.2 - 24.0]	3.54
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium microti</i> ATCC 19422	22.3	[19.1 - 25.9]	22.5	[20.2 - 24.9]	21.3	[18.6 - 24.4]	3.75
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium gastris</i> DSM 43505	23.1	[19.8 - 26.7]	22.5	[20.2 - 24.9]	22.0	[19.2 - 25.0]	1.74
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium intracellulare</i> subsp. <i>chimaera</i> DSM 44623	22.0	[18.7 - 25.6]	22.5	[20.3 - 25.0]	21.1	[18.3 - 24.1]	1.6
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium innocens</i> MK13	22.8	[19.5 - 26.4]	22.5	[20.3 - 25.0]	21.7	[18.9 - 24.8]	1.7
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium haemophilum</i> ATCC 29548	22.0	[18.8 - 25.7]	22.5	[20.2 - 25.0]	21.1	[18.4 - 24.2]	2.24
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium decipiens</i> TBL 1200985	23.4	[20.1 - 27.0]	22.5	[20.2 - 25.0]	22.2	[19.4 - 25.3]	3.38
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium decipiens</i> TBL 1200985	22.1	[18.8 - 25.7]	22.5	[20.2 - 24.9]	21.2	[18.4 - 24.2]	2.01
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium nebraskense</i> DSM 44803	20.8	[17.6 - 24.4]	22.5	[20.2 - 24.9]	20.1	[17.4 - 23.2]	1.03
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium persicum</i> DSM 104278	21.5	[18.3 - 25.2]	22.5	[20.2 - 25.0]	20.7	[18.0 - 23.8]	1.32
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	'Mycobacterium tuberculosis'	22.3	[19.0 - 25.9]	22.5	[20.2 - 24.9]	21.3	[18.6 - 24.4]	3.5
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	20.5	[17.3 - 24.1]	22.5	[20.2 - 24.9]	19.9	[17.2 - 22.9]	2.35
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium kansasii</i> ATCC 12478	21.8	[18.6 - 25.5]	22.5	[20.2 - 24.9]	20.9	[18.2 - 24.0]	1.42
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium caprae</i> ATCC BAA-824	21.9	[18.7 - 25.5]	22.5	[20.2 - 24.9]	21.0	[18.2 - 24.1]	3.32
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium szulgai</i> DSM 44166	23.3	[20.1 - 27.0]	22.5	[20.2 - 24.9]	22.2	[19.3 - 25.2]	3.24
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium nebraskense</i> DSM 44803	22.4	[19.1 - 26.1]	22.5	[20.2 - 25.0]	21.4	[18.6 - 24.5]	0.44
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium lacus</i> DSM 44577	23.4	[20.1 - 27.1]	22.5	[20.2 - 25.0]	22.2	[19.4 - 25.3]	1.13

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium microti</i> ATCC 19422	20.4	[17.2 - 24.0]	22.5	[20.3 - 25.0]	19.8	[17.1 - 22.9]	2.62
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium nebraskense</i> DSM 44803	20.8	[17.6 - 24.4]	22.5	[20.2 - 24.9]	20.1	[17.4 - 23.2]	1.02
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium tuberculosis</i> H37Rv	21.9	[18.7 - 25.5]	22.5	[20.2 - 25.0]	21.0	[18.3 - 24.1]	3.28
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	'Mycobacterium tuberculosis' (NZ_MMLR00000000)	21.8	[18.6 - 25.5]	22.5	[20.3 - 25.0]	21.0	[18.2 - 24.0]	3.27
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	20.5	[17.3 - 24.1]	22.5	[20.2 - 25.0]	19.9	[17.2 - 22.9]	2.37
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium decipiens</i> TBL 1200985	22.7	[19.5 - 26.4]	22.5	[20.3 - 25.0]	21.7	[18.9 - 24.8]	2.45
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium intracellulare</i> ATCC 13950	23.2	[19.9 - 26.8]	22.5	[20.2 - 24.9]	22.0	[19.2 - 25.1]	2.0
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium caprae</i> ATCC BAA-824	20.6	[17.4 - 24.2]	22.5	[20.2 - 24.9]	19.9	[17.2 - 23.0]	2.39
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium innocens</i> MK13	23.0	[19.7 - 26.6]	22.5	[20.3 - 25.0]	21.9	[19.1 - 25.0]	1.99
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium decipiens</i> TBL 1200985	23.9	[20.6 - 27.5]	22.5	[20.2 - 24.9]	22.6	[19.8 - 25.7]	3.58
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium pinnipedii</i> ATCC BAA-688	20.5	[17.3 - 24.2]	22.5	[20.2 - 25.0]	19.9	[17.2 - 23.0]	2.36
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium lacus</i> DSM 44577	23.2	[19.9 - 26.9]	22.5	[20.2 - 25.0]	22.1	[19.3 - 25.1]	1.2
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium africanum</i> ATCC 25420	20.5	[17.3 - 24.1]	22.5	[20.2 - 25.0]	19.9	[17.2 - 22.9]	2.41
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium pinnipedii</i> ATCC BAA-688	21.8	[18.5 - 25.4]	22.5	[20.2 - 25.0]	20.9	[18.1 - 24.0]	3.3
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium innocens</i> MK13	22.7	[19.4 - 26.4]	22.5	[20.3 - 25.0]	21.7	[18.9 - 24.7]	1.84
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium bochedurhonense</i> DSM 45439	21.7	[18.4 - 25.3]	22.5	[20.2 - 24.9]	20.8	[18.0 - 23.9]	2.98
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium nebraskense</i> DSM 44803	20.9	[17.7 - 24.5]	22.5	[20.2 - 24.9]	20.2	[17.4 - 23.2]	1.0
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium szulgai</i> DSM 44166	21.9	[18.6 - 25.5]	22.5	[20.2 - 24.9]	21.0	[18.2 - 24.1]	2.11
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium gastris</i> DSM 43505	22.3	[19.1 - 26.0]	22.5	[20.2 - 24.9]	21.4	[18.6 - 24.4]	1.32

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium haemophilum</i> ATCC 29548	20.9	[17.6 - 24.5]	22.4	[20.1 - 24.8]	20.2	[17.4 - 23.2]	2.23
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium paraintracellulare</i> KCTC 29084	23.3	[20.0 - 26.9]	22.4	[20.1 - 24.8]	22.1	[19.3 - 25.2]	1.98
'Mycobacterium intracellulare' (NZ_LZIO00000000)	'Mycobacterium kansasii' (NZ_PQOU00000000)	22.8	[19.5 - 26.4]	22.4	[20.2 - 24.9]	21.7	[18.9 - 24.8]	1.84
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium paraintracellulare</i> KCTC 29084	23.9	[20.6 - 27.5]	22.4	[20.1 - 24.8]	22.6	[19.8 - 25.7]	1.89
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium angelicum</i> DSM 45057	22.6	[19.3 - 26.2]	22.4	[20.2 - 24.9]	21.6	[18.8 - 24.6]	1.37
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium innocens</i> MK13	22.1	[18.8 - 25.7]	22.4	[20.2 - 24.9]	21.2	[18.4 - 24.2]	1.41
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium decipiens</i> TBL 1200985	23.6	[20.3 - 27.2]	22.4	[20.2 - 24.9]	22.3	[19.5 - 25.4]	2.59
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium haemophilum</i> ATCC 29548	20.2	[17.0 - 23.8]	22.4	[20.2 - 24.9]	19.6	[16.9 - 22.7]	3.7
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	'Mycobacterium marinum E11' (NZ_HG917972)	19.9	[16.7 - 23.5]	22.4	[20.1 - 24.9]	19.3	[16.6 - 22.4]	3.53
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium innocens</i> MK13	22.5	[19.3 - 26.2]	22.4	[20.2 - 24.9]	21.5	[18.7 - 24.6]	1.44
'Mycobacterium kansasii' (NZ_LWCL00000000)	'Mycobacterium colombiense' (NZ_LZLH00000000)	21.9	[18.6 - 25.5]	22.4	[20.1 - 24.8]	21.0	[18.2 - 24.0]	1.34
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium pseudokansasii</i> MK142	21.6	[18.3 - 25.2]	22.4	[20.1 - 24.8]	20.7	[18.0 - 23.8]	1.37
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium pinnipedii</i> ATCC BAA-688	22.4	[19.1 - 26.0]	22.4	[20.2 - 24.9]	21.4	[18.6 - 24.4]	3.49
'Mycobacterium kansasii' (NZ_LWCL00000000)	'Mycobacterium chimaera' (NZ_MNAM00000000)	21.9	[18.7 - 25.6]	22.4	[20.1 - 24.9]	21.0	[18.3 - 24.1]	1.41
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium gastris</i> DSM 43505	22.6	[19.3 - 26.2]	22.4	[20.1 - 24.9]	21.5	[18.8 - 24.6]	1.35
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium bochedurhonense</i> DSM 45439	21.9	[18.6 - 25.5]	22.4	[20.1 - 24.9]	21.0	[18.2 - 24.0]	2.96
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	22.4	[19.2 - 26.1]	22.4	[20.2 - 24.9]	21.4	[18.6 - 24.5]	3.49
'Mycobacterium chimaera' (NZ_CP012885)	'Mycobacterium kansasii' (NZ_PQOU00000000)	22.2	[19.0 - 25.9]	22.4	[20.2 - 24.9]	21.3	[18.5 - 24.4]	1.7
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium haemophilum</i> ATCC 29548	21.5	[18.2 - 25.1]	22.4	[20.2 - 24.9]	20.6	[17.9 - 23.7]	4.15
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium gastris</i> DSM 43505	22.3	[19.0 - 25.9]	22.4	[20.2 - 24.9]	21.3	[18.5 - 24.4]	1.45

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium decipiens</i> TBL 1200985	24.1	[20.8 - 27.7]	22.4	[20.1 - 24.8]	22.7	[19.9 - 25.8]	0.03
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium haemophilum</i> ATCC 29548	20.7	[17.5 - 24.3]	22.4	[20.2 - 24.9]	20.0	[17.3 - 23.1]	2.15
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium haemophilum</i> ATCC 29548	21.0	[17.7 - 24.6]	22.4	[20.1 - 24.8]	20.2	[17.5 - 23.3]	3.27
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	'Mycobacterium marinum' (NZ_CP025779)	19.7	[16.6 - 23.3]	22.4	[20.2 - 24.9]	19.2	[16.5 - 22.3]	3.6
'Mycobacterium colombiense' (NZ_LZLH00000000)	'Mycobacterium kansasii' (NZ_NKRE00000000)	22.6	[19.4 - 26.3]	22.4	[20.1 - 24.8]	21.6	[18.8 - 24.7]	1.33
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium angelicum</i> DSM 45057	23.5	[20.2 - 27.1]	22.4	[20.1 - 24.9]	22.3	[19.5 - 25.4]	1.27
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium tuberculosis</i> H37Rv	22.5	[19.2 - 26.1]	22.4	[20.1 - 24.9]	21.5	[18.7 - 24.5]	3.48
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium africanum</i> ATCC 25420	22.3	[19.1 - 26.0]	22.4	[20.2 - 24.9]	21.4	[18.6 - 24.4]	3.54
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium microti</i> ATCC 19422	20.0	[16.8 - 23.6]	22.4	[20.1 - 24.8]	19.4	[16.7 - 22.5]	2.18
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium intracellulare</i> ATCC 13950	23.5	[20.2 - 27.1]	22.4	[20.1 - 24.8]	22.3	[19.5 - 25.3]	1.92
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium gastri</i> DSM 43505	23.7	[20.4 - 27.4]	22.4	[20.1 - 24.8]	22.4	[19.6 - 25.5]	1.9
'Mycobacterium intracellulare' (NZ_LZIO00000000)	'Mycobacterium kansasii' (NZ_NKRE00000000)	23.6	[20.3 - 27.2]	22.4	[20.1 - 24.9]	22.3	[19.5 - 25.4]	1.75
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium pseudokansasii</i> MK142	21.9	[18.6 - 25.5]	22.4	[20.1 - 24.8]	21.0	[18.2 - 24.1]	1.59
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium intracellulare</i> subsp. <i>yongonense</i> 05-1390	23.2	[19.9 - 26.9]	22.4	[20.1 - 24.9]	22.1	[19.3 - 25.1]	1.8
'Mycobacterium colombiense' (NZ_LZLH00000000)	'Mycobacterium kansasii' (NZ_PQOU00000000)	21.8	[18.6 - 25.4]	22.4	[20.1 - 24.9]	20.9	[18.2 - 24.0]	1.42
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	'Mycobacterium kansasii' (NZ_LWCL00000000)	23.5	[20.2 - 27.1]	22.4	[20.1 - 24.8]	22.3	[19.5 - 25.3]	1.92
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium decipiens</i> TBL 1200985	21.9	[18.7 - 25.5]	22.4	[20.1 - 24.8]	21.0	[18.2 - 24.1]	2.14
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium persicum</i> DSM 104278	22.3	[19.1 - 26.0]	22.4	[20.2 - 24.9]	21.4	[18.6 - 24.4]	1.74
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium bouchedurhonense</i> DSM 45439	21.9	[18.6 - 25.5]	22.4	[20.1 - 24.9]	21.0	[18.2 - 24.0]	2.97
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium caprae</i> ATCC BAA-824	22.5	[19.2 - 26.1]	22.4	[20.1 - 24.8]	21.5	[18.7 - 24.5]	3.52



Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium kansasii' (NZ_LWCL000000000)	'Mycobacterium intracellulare' (NZ_LZIO000000000)	23.0	[19.7 - 26.6]	22.4	[20.1 - 24.9]	21.9	[19.1 - 25.0]	1.76
'Mycobacterium kansasii' (NZ_NKRE000000000)	<i>Mycobacterium intracellulare</i> subsp. <i>yongonense</i> 05-1390	24.1	[20.8 - 27.8]	22.4	[20.1 - 24.9]	22.7	[19.9 - 25.8]	1.72
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB000000000)	<i>Mycobacterium attenuatum</i> MK41	22.4	[19.2 - 26.1]	22.4	[20.1 - 24.8]	21.4	[18.6 - 24.5]	3.31
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB000000000)	'Mycobacterium tuberculosis' (NZ_MMLR000000000)	22.4	[19.2 - 26.1]	22.4	[20.2 - 24.9]	21.4	[18.7 - 24.5]	3.47
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium persicum</i> DSM 104278	22.9	[19.6 - 26.5]	22.4	[20.1 - 24.8]	21.8	[19.0 - 24.8]	1.9
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL000000000)	<i>Mycobacterium marinum</i> CCUG 20998	19.8	[16.6 - 23.4]	22.4	[20.1 - 24.8]	19.3	[16.6 - 22.3]	3.59
'Mycobacterium chimaera' (NZ_LJHL000000000)	<i>Mycobacterium persicum</i> DSM 104278	21.9	[18.7 - 25.6]	22.4	[20.1 - 24.9]	21.0	[18.3 - 24.1]	1.45
'Mycobacterium colombiense' (NZ_LZLH000000000)	<i>Mycobacterium pseudokansasii</i> MK142	21.4	[18.1 - 25.0]	22.4	[20.1 - 24.8]	20.6	[17.8 - 23.6]	1.3
'Mycobacterium intracellulare' (NZ_LZIO000000000)	<i>Mycobacterium kansasii</i> ATCC 12478	22.7	[19.4 - 26.4]	22.4	[20.1 - 24.8]	21.6	[18.9 - 24.7]	1.71
'Mycobacterium tuberculosis' (NZ_FPVV000000000)	<i>Mycobacterium basiliense</i> 901379	22.6	[19.3 - 26.3]	22.3	[20.0 - 24.7]	21.6	[18.8 - 24.6]	0.57
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium angelicum</i> DSM 45057	23.5	[20.2 - 27.1]	22.3	[20.0 - 24.7]	22.2	[19.4 - 25.3]	1.52
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium szulgai</i> DSM 44166	22.8	[19.5 - 26.4]	22.3	[20.0 - 24.7]	21.7	[18.9 - 24.7]	2.25
'Mycobacterium intracellulare' (NZ_LZIO000000000)	<i>Mycobacterium africanum</i> ATCC 25420	20.8	[17.6 - 24.4]	22.3	[20.0 - 24.7]	20.1	[17.3 - 23.1]	2.39
'Mycobacterium tuberculosis' (NZ_FPVV000000000)	'Mycobacterium chimaera' (NZ_MNAM000000000)	20.2	[17.0 - 23.8]	22.3	[20.0 - 24.7]	19.6	[16.9 - 22.6]	1.99
'Mycobacterium marinum' (NZ_PQBM000000000)	<i>Mycobacterium africanum</i> ATCC 25420	21.1	[17.9 - 24.7]	22.3	[20.0 - 24.7]	20.4	[17.6 - 23.4]	0.07
'Mycobacterium tuberculosis' (NZ_FPVV000000000)	<i>Mycobacterium intracellulare</i> subsp. <i>chimaera</i> DSM 44623	20.3	[17.1 - 23.9]	22.3	[20.1 - 24.8]	19.7	[17.0 - 22.8]	2.1
'Mycobacterium tuberculosis' (NZ_FPVV000000000)	<i>Mycobacterium paraseoulense</i> DSM 45000	21.0	[17.8 - 24.7]	22.3	[20.0 - 24.8]	20.3	[17.6 - 23.4]	2.28
'Mycobacterium kansasii' (NZ_LWCL000000000)	'Mycobacterium colombiense' (NZ_MBEO000000000)	22.0	[18.7 - 25.6]	22.3	[20.0 - 24.8]	21.0	[18.3 - 24.1]	1.37
'Mycobacterium intracellulare' (NZ_LZIO000000000)	<i>Mycobacterium microti</i> ATCC 19422	20.5	[17.3 - 24.1]	22.3	[20.1 - 24.8]	19.9	[17.2 - 22.9]	2.6
'Mycobacterium intracellulare' (NZ_LZIO000000000)	<i>Mycobacterium szulgai</i> DSM 44166	22.3	[19.1 - 26.0]	22.3	[20.0 - 24.8]	21.3	[18.6 - 24.4]	2.09

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium microti</i> ATCC 19422	20.7	[17.5 - 24.4]	22.3	[20.0 - 24.8]	20.0	[17.3 - 23.1]	0.14
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium paraseoulense</i> DSM 45000	21.0	[17.8 - 24.6]	22.3	[20.1 - 24.8]	20.3	[17.5 - 23.3]	2.27
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	'Mycobacterium kansasii' (NZ_NKRE00000000)	24.3	[21.0 - 28.0]	22.3	[20.1 - 24.8]	22.9	[20.1 - 26.0]	1.91
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium pseudoshottsii</i> JCM 15466	20.0	[16.8 - 23.6]	22.3	[20.1 - 24.8]	19.5	[16.8 - 22.5]	3.59
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium avium</i> subsp. <i>silvaticum</i> ATCC 49884	20.2	[17.0 - 23.8]	22.3	[20.1 - 24.8]	19.6	[16.9 - 22.7]	3.67
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	'Mycobacterium chimaera' (NZ_LJHL00000000)	20.1	[16.9 - 23.7]	22.3	[20.0 - 24.7]	19.5	[16.8 - 22.6]	2.04
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium gastrii</i> DSM 43505	23.1	[19.8 - 26.7]	22.3	[20.1 - 24.8]	21.9	[19.1 - 25.0]	1.6
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium bovis</i> ATCC 19210	19.8	[16.6 - 23.4]	22.3	[20.0 - 24.7]	19.3	[16.6 - 22.3]	1.96
'Mycobacterium colombiense' (NZ_LZSX00000000)	'Mycobacterium kansasii' (NZ_PQOU00000000)	21.9	[18.7 - 25.6]	22.3	[20.1 - 24.8]	21.0	[18.3 - 24.1]	1.12
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium intracellulare</i> subsp. <i>yongonense</i> 05-1390	23.3	[20.0 - 26.9]	22.3	[20.1 - 24.8]	22.1	[19.3 - 25.2]	1.72
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium decipiens</i> TBL 1200985	22.7	[19.4 - 26.4]	22.3	[20.0 - 24.7]	21.6	[18.8 - 24.7]	2.04
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium pseudokansasii</i> MK142	22.6	[19.3 - 26.2]	22.3	[20.0 - 24.7]	21.5	[18.7 - 24.6]	1.73
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium persicum</i> DSM 104278	22.5	[19.2 - 26.1]	22.3	[20.1 - 24.8]	21.5	[18.7 - 24.5]	1.6
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium marseillense</i> DSM 45437	22.2	[18.9 - 25.8]	22.3	[20.0 - 24.8]	21.2	[18.4 - 24.3]	1.61
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium microti</i> ATCC 19422	19.9	[16.7 - 23.5]	22.3	[20.0 - 24.8]	19.4	[16.7 - 22.4]	2.31
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	'Mycobacterium colombiense' (NZ_LZLH00000000)	20.2	[17.0 - 23.8]	22.3	[20.0 - 24.7]	19.6	[16.9 - 22.6]	1.92
'Mycobacterium kansasii' (NZ_LWCL00000000)	'Mycobacterium colombiense' (NZ_LZSX00000000)	22.0	[18.8 - 25.6]	22.3	[20.1 - 24.8]	21.1	[18.3 - 24.1]	1.04
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium haemophilum</i> ATCC 29548	20.8	[17.6 - 24.4]	22.3	[20.1 - 24.8]	20.1	[17.4 - 23.2]	3.85
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium paraintracellulare</i> KCTC 29084	23.4	[20.1 - 27.0]	22.3	[20.0 - 24.8]	22.1	[19.3 - 25.2]	1.89
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium angelicum</i> DSM 45057	22.8	[19.5 - 26.4]	22.3	[20.1 - 24.8]	21.7	[18.9 - 24.8]	1.31
'Mycobacterium colombiense' (NZ_MBEO00000000)	'Mycobacterium kansasii' (NZ_NKRE00000000)	23.5	[20.2 - 27.1]	22.3	[20.1 - 24.8]	22.2	[19.4 - 25.3]	1.36

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium africanum</i> ATCC 25420	20.1	[16.9 - 23.7]	22.3	[20.0 - 24.8]	19.5	[16.8 - 22.6]	2.1
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium avium</i> subsp. <i>silvaticum</i> ATCC 49884	20.1	[17.0 - 23.7]	22.3	[20.0 - 24.7]	19.6	[16.8 - 22.6]	3.45
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium persicum</i> DSM 104278	22.0	[18.7 - 25.6]	22.3	[20.1 - 24.8]	21.1	[18.3 - 24.1]	1.39
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium decipiens</i> TBL 1200985	23.0	[19.7 - 26.6]	22.3	[20.0 - 24.7]	21.9	[19.1 - 24.9]	1.71
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium decipiens</i> TBL 1200985	22.0	[18.7 - 25.6]	22.3	[20.1 - 24.8]	21.1	[18.3 - 24.1]	2.08
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium attenuatum</i> MK41	22.1	[18.9 - 25.7]	22.3	[20.1 - 24.8]	21.2	[18.4 - 24.2]	3.11
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium avium</i> subsp. <i>silvaticum</i> ATCC 49884	20.2	[17.0 - 23.8]	22.3	[20.0 - 24.8]	19.6	[16.9 - 22.7]	3.38
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium microti</i> ATCC 19422	21.0	[17.8 - 24.6]	22.3	[20.0 - 24.7]	20.3	[17.5 - 23.3]	2.76
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium innocens</i> MK13	22.3	[19.1 - 26.0]	22.3	[20.0 - 24.8]	21.3	[18.5 - 24.4]	1.11
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium basiliense</i> 901379	22.8	[19.6 - 26.5]	22.3	[20.0 - 24.7]	21.7	[18.9 - 24.8]	0.58
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium bovis</i> ATCC 19210	20.3	[17.1 - 23.9]	22.3	[20.0 - 24.7]	19.7	[17.0 - 22.7]	0.14
'Mycobacterium chimaera' (NZ_CP012885)	'Mycobacterium kansasii' (NZ_LWCL00000000)	22.5	[19.2 - 26.1]	22.3	[20.1 - 24.8]	21.4	[18.7 - 24.5]	1.62
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium africanum</i> ATCC 25420	20.1	[16.9 - 23.7]	22.3	[20.1 - 24.8]	19.5	[16.8 - 22.6]	1.97
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium bovis</i> ATCC 19210	20.2	[17.1 - 23.9]	22.3	[20.1 - 24.8]	19.7	[16.9 - 22.7]	0.07
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium colombiense</i> CECT 3035	22.6	[19.4 - 26.3]	22.3	[20.0 - 24.7]	21.6	[18.8 - 24.6]	1.98
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	'Mycobacterium marinum' (NZ_PQBM00000000)	21.0	[17.7 - 24.6]	22.3	[20.0 - 24.7]	20.2	[17.5 - 23.3]	0.11
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium kansasii</i> ATCC 12478	21.8	[18.5 - 25.4]	22.3	[20.0 - 24.7]	20.9	[18.1 - 24.0]	1.29
'Mycobacterium colombiense' (NZ_MBEO00000000)	'Mycobacterium kansasii' (NZ_PQOU00000000)	21.9	[18.7 - 25.6]	22.3	[20.1 - 24.8]	21.0	[18.2 - 24.1]	1.45
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium microti</i> ATCC 19422	20.8	[17.6 - 24.4]	22.3	[20.0 - 24.7]	20.1	[17.4 - 23.1]	0.43
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium paraseoulense</i> DSM 45000	20.9	[17.7 - 24.6]	22.3	[20.1 - 24.8]	20.2	[17.5 - 23.3]	2.26
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium gastris</i> DSM 43505	22.5	[19.3 - 26.2]	22.3	[20.1 - 24.8]	21.5	[18.7 - 24.6]	1.38

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium intracellulare</i> ATCC 13950	24.3	[21.0 - 28.0]	22.3	[20.1 - 24.8]	22.9	[20.1 - 26.0]	1.91
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium basillense</i> 901379	22.8	[19.5 - 26.4]	22.3	[20.0 - 24.7]	21.7	[18.9 - 24.8]	0.6
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium bovis</i> ATCC 19210	19.5	[16.4 - 23.1]	22.3	[20.0 - 24.8]	19.1	[16.4 - 22.1]	2.09
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium bovis</i> ATCC 19210	19.7	[16.5 - 23.3]	22.3	[20.0 - 24.7]	19.2	[16.5 - 22.2]	2.03
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium intracellulare</i> subsp. <i>chimaera</i> DSM 44623	23.5	[20.2 - 27.1]	22.3	[20.0 - 24.8]	22.2	[19.4 - 25.3]	1.51
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium africanum</i> ATCC 25420	20.2	[17.1 - 23.9]	22.3	[20.0 - 24.7]	19.6	[16.9 - 22.7]	2.04
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium kansasii</i> ATCC 12478	22.3	[19.0 - 25.9]	22.3	[20.0 - 24.7]	21.3	[18.5 - 24.3]	1.57
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium microti</i> ATCC 19422	20.0	[16.9 - 23.6]	22.3	[20.0 - 24.8]	19.5	[16.8 - 22.5]	2.25
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	'Mycobacterium chimaera' (NZ_LJHL00000000)	20.0	[16.9 - 23.6]	22.3	[20.0 - 24.7]	19.5	[16.8 - 22.5]	2.05
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium microti</i> ATCC 19422	20.7	[17.5 - 24.4]	22.3	[20.0 - 24.7]	20.0	[17.3 - 23.1]	0.36
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium intracellulare</i> subsp. <i>chimaera</i> DSM 44623	20.4	[17.2 - 24.0]	22.3	[20.0 - 24.8]	19.8	[17.1 - 22.8]	2.09
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium kansasii</i> ATCC 12478	23.2	[19.9 - 26.8]	22.3	[20.1 - 24.8]	22.0	[19.2 - 25.1]	1.87
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium intracellulare</i> subsp. <i>chimaera</i> DSM 44623	20.4	[17.2 - 24.1]	22.3	[20.0 - 24.7]	19.8	[17.1 - 22.9]	2.08
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium tuberculosis</i> H37Rv	20.1	[16.9 - 23.7]	22.2	[20.0 - 24.7]	19.5	[16.8 - 22.6]	2.03
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium pseudoshottsii</i> JCM 15466	20.9	[17.7 - 24.5]	22.2	[19.9 - 24.6]	20.2	[17.4 - 23.2]	0.12
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium africanum</i> ATCC 25420	20.6	[17.4 - 24.2]	22.2	[19.9 - 24.7]	20.0	[17.2 - 23.0]	2.25
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium colombiense</i> CECT 3035	24.0	[20.7 - 27.7]	22.2	[20.0 - 24.7]	22.7	[19.8 - 25.7]	1.9
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium microti</i> ATCC 19422	20.8	[17.5 - 24.4]	22.2	[19.9 - 24.6]	20.1	[17.3 - 23.1]	1.88
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium tuberculosis</i> H37Rv	20.8	[17.5 - 24.4]	22.2	[19.9 - 24.6]	20.1	[17.3 - 23.1]	2.33
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium bovis</i> ATCC 19210	20.0	[16.8 - 23.6]	22.2	[20.0 - 24.7]	19.5	[16.7 - 22.5]	2.25
'Mycobacterium chimaera' (NZ_CP012885)	'Mycobacterium kansasii' (NZ_NKRE00000000)	23.8	[20.5 - 27.5]	22.2	[20.0 - 24.7]	22.5	[19.7 - 25.6]	1.62

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium microti</i> ATCC 19422	20.4	[17.2 - 24.0]	22.2	[20.0 - 24.7]	19.8	[17.1 - 22.8]	2.46
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	'Mycobacterium marinum' (NZ_PQBM00000000)	21.1	[17.9 - 24.8]	22.2	[20.0 - 24.7]	20.4	[17.6 - 23.4]	0.12
'Mycobacterium chimaera' (NZ_CP012885)	'Mycobacterium tuberculosis' (NZ_FPVV00000000)	20.6	[17.4 - 24.2]	22.2	[19.9 - 24.6]	19.9	[17.2 - 22.9]	2.21
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium kansasii</i> ATCC 12478	21.9	[18.7 - 25.6]	22.2	[19.9 - 24.6]	21.0	[18.2 - 24.1]	1.32
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium gastri</i> DSM 43505	22.9	[19.6 - 26.6]	22.2	[19.9 - 24.6]	21.8	[19.0 - 24.8]	1.02
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium decipiens</i> TBL 1200985	24.7	[21.4 - 28.3]	22.2	[19.9 - 24.6]	23.1	[20.3 - 26.2]	0.19
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	'Mycobacterium intracellulare' (NZ_LZIO00000000)	20.8	[17.5 - 24.4]	22.2	[20.0 - 24.7]	20.1	[17.3 - 23.1]	2.35
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium intracellulare</i> ATCC 13950	21.2	[18.0 - 24.9]	22.2	[19.9 - 24.6]	20.4	[17.7 - 23.5]	2.51
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	'Mycobacterium chimaera' (NZ_MNAM00000000)	20.3	[17.1 - 23.9]	22.2	[20.0 - 24.7]	19.7	[17.0 - 22.7]	1.98
'Mycobacterium chimaera' (NZ_LJHL00000000)	'Mycobacterium tuberculosis' (NZ_MMLR00000000)	20.1	[17.0 - 23.8]	22.2	[20.0 - 24.7]	19.6	[16.8 - 22.6]	2.03
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium bovis</i> ATCC 19210	20.3	[17.1 - 23.9]	22.2	[20.0 - 24.7]	19.7	[16.9 - 22.7]	2.39
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	'Mycobacterium chimaera' (NZ_MNAM00000000)	20.3	[17.1 - 23.9]	22.2	[20.0 - 24.7]	19.7	[17.0 - 22.7]	1.97
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium szulgai</i> DSM 44166	22.7	[19.4 - 26.3]	22.2	[19.9 - 24.6]	21.6	[18.8 - 24.7]	1.7
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium vulneris</i> DSM 45247	21.4	[18.2 - 25.1]	22.2	[19.9 - 24.7]	20.6	[17.9 - 23.7]	0.59
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium pinnipedii</i> ATCC BAA-688	21.2	[18.0 - 24.8]	22.2	[19.9 - 24.6]	20.4	[17.6 - 23.5]	0.12
'Mycobacterium colombiense' (NZ_LZLH00000000)	'Mycobacterium tuberculosis' (NZ_MMLR00000000)	20.3	[17.1 - 23.9]	22.2	[19.9 - 24.7]	19.7	[17.0 - 22.7]	1.9
'Mycobacterium marinum' (NZ_CP025779)	'Mycobacterium tuberculosis' (NZ_FPVV00000000)	21.0	[17.8 - 24.6]	22.2	[19.9 - 24.7]	20.3	[17.5 - 23.3]	0.1
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	'Mycobacterium marinum E11' (NZ_HG917972)	21.1	[17.9 - 24.7]	22.2	[19.9 - 24.6]	20.3	[17.6 - 23.4]	0.17
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium bovis</i> ATCC 19210	20.3	[17.1 - 24.0]	22.2	[20.0 - 24.7]	19.7	[17.0 - 22.8]	0.21
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium bovis</i> ATCC 19210	20.7	[17.5 - 24.3]	22.2	[19.9 - 24.6]	20.0	[17.3 - 23.1]	2.54
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium africanum</i> ATCC 25420	21.2	[18.0 - 24.8]	22.2	[19.9 - 24.6]	20.4	[17.7 - 23.5]	0.15

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium caprae</i> ATCC BAA-824	20.3	[17.1 - 23.9]	22.2	[19.9 - 24.6]	19.7	[17.0 - 22.8]	2.02
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium tuberculosis</i> H37Rv	20.3	[17.1 - 23.9]	22.2	[19.9 - 24.6]	19.7	[16.9 - 22.7]	1.9
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	'Mycobacterium colombiense' (NZ_LZLH00000000)	20.3	[17.1 - 23.9]	22.2	[20.0 - 24.7]	19.7	[16.9 - 22.7]	1.91
'Mycobacterium chimaera' (NZ_MNAM00000000)	'Mycobacterium kansasii' (NZ_NKRE00000000)	23.2	[19.9 - 26.9]	22.2	[20.0 - 24.7]	22.0	[19.2 - 25.1]	1.4
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium pinnipedii</i> ATCC BAA-688	20.2	[17.0 - 23.8]	22.2	[20.0 - 24.7]	19.6	[16.9 - 22.6]	1.92
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium angelicum</i> DSM 45057	23.7	[20.4 - 27.3]	22.2	[20.0 - 24.7]	22.4	[19.6 - 25.5]	0.94
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	'Mycobacterium tuberculosis' (NZ_FPVV00000000)	21.2	[18.0 - 24.9]	22.2	[19.9 - 24.6]	20.4	[17.7 - 23.5]	2.51
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium attenuatum</i> MK41	20.9	[17.6 - 24.5]	22.2	[19.9 - 24.6]	20.1	[17.4 - 23.2]	2.18
'Mycobacterium marinum' (NZ_CP025779)	'Mycobacterium tuberculosis' (NZ_MMLR00000000)	21.3	[18.1 - 24.9]	22.2	[19.9 - 24.6]	20.5	[17.7 - 23.5]	0.08
'Mycobacterium intracellulare' (NZ_LZIO00000000)	'Mycobacterium tuberculosis' (NZ_MMLR00000000)	20.7	[17.5 - 24.3]	22.2	[19.9 - 24.6]	20.0	[17.3 - 23.1]	2.32
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium tuberculosis</i> H37Rv	21.2	[18.0 - 24.8]	22.2	[19.9 - 24.7]	20.4	[17.7 - 23.5]	0.13
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	'Mycobacterium colombiense' (NZ_MBEO00000000)	20.8	[17.6 - 24.4]	22.2	[19.9 - 24.6]	20.1	[17.3 - 23.1]	1.95
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium marseillense</i> DSM 45437	22.4	[19.1 - 26.0]	22.2	[20.0 - 24.7]	21.3	[18.6 - 24.4]	1.53
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium vulneris</i> DSM 45247	21.3	[18.1 - 24.9]	22.2	[20.0 - 24.7]	20.5	[17.8 - 23.6]	0.67
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium arosiense</i> DSM 45069	20.8	[17.6 - 24.4]	22.2	[20.0 - 24.7]	20.1	[17.3 - 23.1]	0.73
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium pinnipedii</i> ATCC BAA-688	20.6	[17.4 - 24.2]	22.2	[19.9 - 24.6]	19.9	[17.2 - 23.0]	2.2
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium microti</i> ATCC 19422	20.6	[17.4 - 24.3]	22.2	[20.0 - 24.7]	20.0	[17.2 - 23.0]	2.21
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium intracellulare</i> subsp. <i>yongonense</i> 05-1390	21.1	[17.9 - 24.8]	22.2	[19.9 - 24.6]	20.4	[17.6 - 23.4]	2.31
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium szulgai</i> DSM 44166	22.1	[18.9 - 25.8]	22.2	[19.9 - 24.7]	21.2	[18.4 - 24.2]	1.67
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium szulgai</i> DSM 44166	21.7	[18.4 - 25.3]	22.2	[19.9 - 24.7]	20.8	[18.0 - 23.8]	1.8
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium pinnipedii</i> ATCC BAA-688	20.0	[16.9 - 23.7]	22.2	[20.0 - 24.7]	19.5	[16.8 - 22.5]	2.05

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium marinum' (NZ_CP025779)	<b>'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)</b>	21.2	[18.0 - 24.8]	22.2	[19.9 - 24.6]	20.4	[17.7 - 23.5]	0.09
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium decipiens</i> TBL 1200985	22.6	[19.3 - 26.2]	22.2	[20.0 - 24.7]	21.5	[18.7 - 24.6]	2.29
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium caprae</i> ATCC BAA-824	20.8	[17.6 - 24.5]	22.2	[19.9 - 24.6]	20.1	[17.4 - 23.2]	2.37
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium paraintracellulare</i> KCTC 29084	21.5	[18.2 - 25.1]	22.2	[19.9 - 24.6]	20.6	[17.9 - 23.7]	2.48
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<b>'Mycobacterium marinum' (NZ_PQBM00000000)</b>	21.2	[18.0 - 24.8]	22.2	[19.9 - 24.7]	20.4	[17.7 - 23.5]	0.14
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium africanum</i> ATCC 25420	21.2	[18.0 - 24.9]	22.2	[19.9 - 24.6]	20.5	[17.7 - 23.5]	0.22
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium kansasii</i> ATCC 12478	22.0	[18.7 - 25.6]	22.2	[20.0 - 24.7]	21.0	[18.3 - 24.1]	0.99
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium marseillense</i> DSM 45437	20.9	[17.6 - 24.5]	22.2	[19.9 - 24.6]	20.1	[17.4 - 23.2]	2.12
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium colombiense</i> CECT 3035	21.4	[18.2 - 25.1]	22.2	[19.9 - 24.6]	20.6	[17.8 - 23.7]	2.49
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium pinnipedii</i> ATCC BAA-688	20.8	[17.6 - 24.5]	22.2	[19.9 - 24.7]	20.1	[17.4 - 23.2]	2.34
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium tuberculosis</i> H37Rv	20.3	[17.1 - 23.9]	22.2	[19.9 - 24.7]	19.7	[16.9 - 22.7]	1.97
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium marinum</i> CCUG 20998	20.9	[17.7 - 24.5]	22.2	[19.9 - 24.6]	20.2	[17.4 - 23.2]	0.12
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium caprae</i> ATCC BAA-824	20.1	[17.0 - 23.8]	22.2	[20.0 - 24.7]	19.6	[16.8 - 22.6]	2.08
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium pinnipedii</i> ATCC BAA-688	20.2	[17.0 - 23.8]	22.2	[19.9 - 24.7]	19.6	[16.9 - 22.6]	1.99
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium caprae</i> ATCC BAA-824	21.2	[18.0 - 24.8]	22.2	[19.9 - 24.6]	20.4	[17.7 - 23.5]	0.09
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<b>'Mycobacterium intracellulare' (NZ_LZIO00000000)</b>	20.8	[17.6 - 24.4]	22.2	[19.9 - 24.6]	20.1	[17.3 - 23.1]	2.34
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium persicum</i> DSM 104278	22.6	[19.3 - 26.2]	22.2	[20.0 - 24.7]	21.5	[18.7 - 24.6]	1.35
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium pseudokansasii</i> MK142	22.9	[19.6 - 26.5]	22.2	[20.0 - 24.7]	21.8	[19.0 - 24.8]	1.89
'Mycobacterium marinum E11' (NZ_HG917972)	<b>'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)</b>	21.3	[18.0 - 24.9]	22.2	[19.9 - 24.6]	20.5	[17.7 - 23.5]	0.16
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium pseudokansasii</i> MK142	22.0	[18.7 - 25.6]	22.2	[19.9 - 24.7]	21.0	[18.3 - 24.1]	1.33
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium szulgai</i> DSM 44166	21.8	[18.5 - 25.4]	22.2	[19.9 - 24.6]	20.9	[18.1 - 23.9]	1.74

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium colombiense</i> CECT 3035	21.5	[18.3 - 25.1]	22.2	[19.9 - 24.6]	20.7	[17.9 - 23.7]	2.48
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium caprae</i> ATCC BAA-824	20.2	[17.1 - 23.9]	22.2	[19.9 - 24.7]	19.6	[16.9 - 22.7]	1.95
'Mycobacterium colombiense' (NZ_LZSX00000000)	'Mycobacterium kansasii' (NZ_NKRE00000000)	23.4	[20.1 - 27.1]	22.2	[19.9 - 24.6]	22.2	[19.4 - 25.2]	1.03
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium africanum</i> ATCC 25420	21.3	[18.0 - 24.9]	22.2	[19.9 - 24.6]	20.5	[17.7 - 23.5]	2.55
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium tuberculosis</i> H37Rv	20.6	[17.4 - 24.2]	22.1	[19.9 - 24.6]	19.9	[17.2 - 23.0]	2.19
'Mycobacterium colombiense' (NZ_MBEO00000000)	'Mycobacterium tuberculosis' (NZ_MMLR00000000)	20.9	[17.7 - 24.5]	22.1	[19.8 - 24.6]	20.2	[17.4 - 23.2]	1.93
'Mycobacterium marinum E11' (NZ_HG917972)	'Mycobacterium tuberculosis' (NZ_MMLR00000000)	21.3	[18.1 - 25.0]	22.1	[19.9 - 24.6]	20.5	[17.8 - 23.6]	0.15
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium intracellulare</i> ATCC 13950	21.3	[18.1 - 24.9]	22.1	[19.9 - 24.6]	20.5	[17.7 - 23.6]	2.49
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium caprae</i> ATCC BAA-824	20.7	[17.5 - 24.3]	22.1	[19.9 - 24.6]	20.0	[17.3 - 23.0]	2.23
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium vulneris</i> DSM 45247	20.1	[16.9 - 23.7]	22.1	[19.8 - 24.5]	19.5	[16.8 - 22.5]	1.16
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium caprae</i> ATCC BAA-824	21.3	[18.1 - 25.0]	22.1	[19.8 - 24.5]	20.5	[17.8 - 23.6]	0.2
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium szulgai</i> DSM 44166	22.9	[19.6 - 26.6]	22.1	[19.8 - 24.5]	21.8	[19.0 - 24.8]	1.37
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium marseillense</i> DSM 45437	23.6	[20.3 - 27.2]	22.1	[19.8 - 24.5]	22.3	[19.5 - 25.4]	1.53
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium pinnipedii</i> ATCC BAA-688	21.2	[18.0 - 24.9]	22.1	[19.9 - 24.6]	20.4	[17.7 - 23.5]	0.1
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium pinnipedii</i> ATCC BAA-688	20.8	[17.6 - 24.4]	22.1	[19.8 - 24.5]	20.1	[17.4 - 23.2]	1.95
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium paraintracellulare</i> KCTC 29084	21.5	[18.3 - 25.2]	22.1	[19.9 - 24.6]	20.7	[17.9 - 23.7]	2.47
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium colombiense</i> CECT 3035	22.8	[19.5 - 26.5]	22.1	[19.9 - 24.6]	21.7	[18.9 - 24.8]	1.9
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium marinum</i> CCUG 20998	21.1	[17.8 - 24.7]	22.1	[19.9 - 24.6]	20.3	[17.6 - 23.3]	0.11
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium caprae</i> ATCC BAA-824	21.3	[18.1 - 24.9]	22.1	[19.9 - 24.6]	20.5	[17.7 - 23.5]	0.13
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	'Mycobacterium tuberculosis' (NZ_MMLR00000000)	21.3	[18.1 - 24.9]	22.1	[19.9 - 24.6]	20.5	[17.7 - 23.5]	2.48
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium tuberculosis</i> H37Rv	20.9	[17.6 - 24.5]	22.1	[19.8 - 24.5]	20.1	[17.4 - 23.2]	1.93



Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium pinnipedii</i> ATCC BAA-688	21.3	[18.1 - 24.9]	22.1	[19.9 - 24.6]	20.5	[17.8 - 23.6]	2.5
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium pseudokansasii</i> MK142	22.6	[19.3 - 26.2]	22.1	[19.8 - 24.5]	21.5	[18.7 - 24.6]	1.0
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	'Mycobacterium colombiense' (NZ_LZSX00000000)	21.1	[17.9 - 24.7]	22.1	[19.8 - 24.5]	20.3	[17.6 - 23.3]	1.62
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium pseudoshottsii</i> JCM 15466	21.1	[17.8 - 24.7]	22.1	[19.9 - 24.6]	20.3	[17.5 - 23.3]	0.11
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium bovis</i> ATCC 19210	20.5	[17.3 - 24.1]	22.1	[19.8 - 24.5]	19.8	[17.1 - 22.9]	1.66
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium tuberculosis</i> H37Rv	21.3	[18.1 - 25.0]	22.1	[19.9 - 24.6]	20.5	[17.8 - 23.6]	0.16
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium intracellulare</i> subsp. <i>yongonense</i> 05-1390	21.2	[18.0 - 24.8]	22.1	[19.9 - 24.6]	20.4	[17.7 - 23.5]	2.3
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium marseillense</i> DSM 45437	21.0	[17.7 - 24.6]	22.1	[19.9 - 24.6]	20.2	[17.5 - 23.3]	2.09
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium caprae</i> ATCC BAA-824	21.0	[17.8 - 24.6]	22.1	[19.8 - 24.5]	20.3	[17.5 - 23.3]	1.98
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium marinum</i> CCUG 20998	21.1	[17.9 - 24.8]	22.1	[19.8 - 24.6]	20.4	[17.6 - 23.4]	0.1
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium bohemicum</i> DSM 44277	19.3	[16.2 - 22.9]	22.1	[19.8 - 24.5]	18.9	[16.2 - 21.9]	3.33
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium pinnipedii</i> ATCC BAA-688	21.3	[18.1 - 25.0]	22.1	[19.8 - 24.6]	20.5	[17.8 - 23.6]	0.17
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium caprae</i> ATCC BAA-824	21.3	[18.1 - 25.0]	22.1	[19.8 - 24.5]	20.5	[17.8 - 23.6]	2.53
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium tuberculosis</i> H37Rv	21.3	[18.1 - 24.9]	22.1	[19.9 - 24.6]	20.5	[17.7 - 23.5]	0.08
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium arosiense</i> DSM 45069	21.6	[18.3 - 25.2]	22.1	[19.8 - 24.5]	20.7	[17.9 - 23.7]	0.65
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium decipiens</i> TBL 1200985	24.5	[21.2 - 28.2]	22.1	[19.9 - 24.6]	23.0	[20.2 - 26.1]	0.26
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium basiliense</i> 901379	18.8	[15.6 - 22.3]	22.1	[19.9 - 24.6]	18.4	[15.7 - 21.4]	4.28
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium intracellulare</i> ATCC 13950	21.3	[18.1 - 24.9]	22.1	[19.9 - 24.6]	20.5	[17.7 - 23.5]	2.48
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium pseudoshottsii</i> JCM 15466	21.1	[17.9 - 24.8]	22.1	[19.9 - 24.6]	20.4	[17.6 - 23.4]	0.09
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	'Mycobacterium colombiense' (NZ_MBEO00000000)	20.8	[17.6 - 24.5]	22.1	[19.9 - 24.6]	20.1	[17.4 - 23.2]	1.94
'Mycobacterium chimaera' (NZ_CP012885)	'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	20.6	[17.4 - 24.3]	22.1	[19.9 - 24.6]	20.0	[17.2 - 23.0]	2.2

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium attenuatum</i> MK41	21.5	[18.3 - 25.1]	22.1	[19.8 - 24.5]	20.6	[17.9 - 23.7]	2.16
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium paraintracellulare</i> KCTC 29084	21.5	[18.3 - 25.2]	22.1	[19.9 - 24.6]	20.7	[17.9 - 23.7]	2.46
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium africanum</i> ATCC 25420	20.9	[17.6 - 24.5]	22.1	[19.9 - 24.6]	20.1	[17.4 - 23.2]	2.0
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	21.3	[18.1 - 24.9]	22.1	[19.9 - 24.6]	20.5	[17.7 - 23.6]	2.49
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium angelicum</i> DSM 45057	22.0	[18.7 - 25.6]	22.1	[19.8 - 24.5]	21.0	[18.2 - 24.1]	0.8
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium vulneris</i> DSM 45247	22.6	[19.3 - 26.2]	22.1	[19.8 - 24.5]	21.5	[18.7 - 24.6]	0.58
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium intracellulare</i> subsp. <i>yongonense</i> 05-1390	21.2	[18.0 - 24.9]	22.1	[19.9 - 24.6]	20.4	[17.7 - 23.5]	2.28
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium persicum</i> DSM 104278	22.3	[19.0 - 25.9]	22.1	[19.9 - 24.6]	21.3	[18.5 - 24.3]	1.02
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium vulneris</i> DSM 45247	20.0	[16.8 - 23.6]	22.1	[19.9 - 24.6]	19.4	[16.7 - 22.4]	1.17
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium colombiense</i> CECT 3035	21.6	[18.3 - 25.2]	22.1	[19.9 - 24.6]	20.7	[17.9 - 23.8]	2.46
'Mycobacterium chimaera' (NZ_CP012885)	'Mycobacterium tuberculosis' (NZ_MMLR00000000)	20.7	[17.5 - 24.3]	22.1	[19.9 - 24.6]	20.0	[17.3 - 23.0]	2.18
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium tuberculosis</i> H37Rv	21.2	[18.0 - 24.9]	22.1	[19.8 - 24.6]	20.4	[17.7 - 23.5]	2.49
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium africanum</i> ATCC 25420	21.1	[17.9 - 24.7]	22.1	[19.8 - 24.5]	20.3	[17.6 - 23.4]	1.67
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium attenuatum</i> MK41	20.5	[17.3 - 24.1]	22.1	[19.8 - 24.5]	19.8	[17.1 - 22.8]	1.74
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium marseillense</i> DSM 45437	20.9	[17.7 - 24.5]	22.1	[19.9 - 24.6]	20.2	[17.4 - 23.2]	2.11
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium bovis</i> ATCC 19210	20.3	[17.1 - 23.9]	22.1	[19.9 - 24.6]	19.7	[17.0 - 22.7]	1.99
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium vulneris</i> DSM 45247	20.2	[17.0 - 23.8]	22.0	[19.8 - 24.5]	19.6	[16.8 - 22.6]	1.15
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium bohemicum</i> DSM 44277	19.3	[16.2 - 22.9]	22.0	[19.8 - 24.5]	18.9	[16.2 - 21.9]	3.04
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium arosiense</i> DSM 45069	21.0	[17.7 - 24.6]	22.0	[19.8 - 24.5]	20.2	[17.5 - 23.2]	0.65
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium caprae</i> ATCC BAA-824	21.2	[18.0 - 24.8]	22.0	[19.7 - 24.4]	20.4	[17.6 - 23.4]	1.65
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium tuberculosis</i> H37Rv	21.2	[17.9 - 24.8]	22.0	[19.7 - 24.4]	20.4	[17.6 - 23.4]	1.6

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium colombiense' (NZ_LZSX00000000)	'Mycobacterium tuberculosis' (NZ_MMLR00000000)	21.2	[18.0 - 24.8]	22.0	[19.7 - 24.4]	20.4	[17.6 - 23.4]	1.6
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium szulgai</i> DSM 44166	22.4	[19.2 - 26.1]	22.0	[19.8 - 24.5]	21.4	[18.6 - 24.4]	1.95
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium bohemicum</i> DSM 44277	19.2	[16.1 - 22.8]	22.0	[19.8 - 24.5]	18.8	[16.1 - 21.8]	3.11
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium attenuatum</i> MK41	20.5	[17.3 - 24.1]	22.0	[19.7 - 24.4]	19.8	[17.1 - 22.8]	1.87
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium attenuatum</i> MK41	20.6	[17.4 - 24.2]	22.0	[19.8 - 24.5]	19.9	[17.2 - 23.0]	1.76
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium pinnipedii</i> ATCC BAA-688	20.9	[17.7 - 24.6]	22.0	[19.8 - 24.5]	20.2	[17.4 - 23.2]	1.62
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	'Mycobacterium colombiense' (NZ_LZSX00000000)	21.2	[17.9 - 24.8]	22.0	[19.7 - 24.5]	20.4	[17.6 - 23.4]	1.61
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium avium</i> ATCC 25291	21.5	[18.2 - 25.1]	21.9	[19.6 - 24.3]	20.6	[17.8 - 23.6]	3.54
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium attenuatum</i> MK41	20.6	[17.4 - 24.2]	21.9	[19.6 - 24.3]	19.9	[17.2 - 23.0]	1.8
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium arosiense</i> DSM 45069	19.8	[16.7 - 23.4]	21.9	[19.6 - 24.3]	19.3	[16.6 - 22.3]	1.23
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium attenuatum</i> MK41	21.2	[18.0 - 24.8]	21.9	[19.6 - 24.3]	20.4	[17.6 - 23.4]	1.44
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium pseudoshottsii</i> JCM 15466	21.3	[18.0 - 24.9]	21.9	[19.6 - 24.3]	20.4	[17.7 - 23.5]	3.38
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium attenuatum</i> MK41	21.7	[18.5 - 25.3]	21.9	[19.7 - 24.4]	20.8	[18.0 - 23.8]	2.32
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium avium</i> ATCC 25291	21.5	[18.2 - 25.1]	21.9	[19.7 - 24.4]	20.6	[17.8 - 23.6]	3.76
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium attenuatum</i> MK41	21.1	[17.9 - 24.7]	21.9	[19.6 - 24.3]	20.3	[17.6 - 23.4]	2.02
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	'Mycobacterium marinum' (NZ_PQBM00000000)	21.4	[18.2 - 25.0]	21.9	[19.6 - 24.3]	20.5	[17.8 - 23.6]	3.61
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium avium</i> ATCC 25291	21.5	[18.3 - 25.1]	21.9	[19.6 - 24.3]	20.6	[17.9 - 23.7]	3.47
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium angelicum</i> DSM 45057	22.3	[19.0 - 25.9]	21.9	[19.6 - 24.3]	21.2	[18.5 - 24.3]	0.51
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium arosiense</i> DSM 45069	19.8	[16.6 - 23.4]	21.8	[19.6 - 24.3]	19.2	[16.5 - 22.3]	1.22
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium pseudoshottsii</i> JCM 15466	20.8	[17.6 - 24.4]	21.8	[19.6 - 24.3]	20.1	[17.3 - 23.1]	3.18
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium angelicum</i> DSM 45057	22.3	[19.1 - 26.0]	21.8	[19.6 - 24.3]	21.3	[18.5 - 24.3]	0.58

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium marinum</i> CCUG 20998	20.6	[17.4 - 24.2]	21.8	[19.5 - 24.2]	19.9	[17.1 - 22.9]	3.18
'Mycobacterium marinum' (NZ_PQBM00000000)	'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	19.0	[15.8 - 22.5]	21.8	[19.5 - 24.2]	18.5	[15.9 - 21.6]	2.48
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium bouchedurhonense</i> DSM 45439	20.6	[17.4 - 24.2]	21.8	[19.5 - 24.2]	19.9	[17.2 - 22.9]	3.1
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	'Mycobacterium marinum E11' (NZ_HG917972)	21.4	[18.2 - 25.1]	21.8	[19.6 - 24.3]	20.6	[17.8 - 23.6]	3.32
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	'Mycobacterium marinum E11' (NZ_HG917972)	20.7	[17.5 - 24.4]	21.8	[19.5 - 24.2]	20.0	[17.3 - 23.0]	3.12
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	'Mycobacterium marinum' (NZ_CP025779)	21.4	[18.2 - 25.1]	21.8	[19.5 - 24.2]	20.5	[17.8 - 23.6]	3.39
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium marinum</i> CCUG 20998	21.4	[18.1 - 25.0]	21.8	[19.6 - 24.3]	20.5	[17.8 - 23.6]	3.37
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium arosiense</i> DSM 45069	19.7	[16.5 - 23.3]	21.8	[19.6 - 24.3]	19.2	[16.5 - 22.2]	1.24
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium szulgai</i> DSM 44166	21.5	[18.2 - 25.1]	21.8	[19.6 - 24.3]	20.6	[17.8 - 23.6]	0.37
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	'Mycobacterium marinum' (NZ_PQBM00000000)	20.7	[17.5 - 24.3]	21.8	[19.6 - 24.3]	20.0	[17.2 - 23.0]	3.41
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium pseudoshottsii</i> JCM 15466	19.3	[16.1 - 22.9]	21.7	[19.4 - 24.1]	18.8	[16.1 - 21.8]	2.25
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium marinum</i> CCUG 20998	18.9	[15.8 - 22.5]	21.7	[19.5 - 24.2]	18.5	[15.8 - 21.5]	2.24
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium paraseoulense</i> DSM 45000	20.7	[17.5 - 24.3]	21.7	[19.4 - 24.1]	19.9	[17.2 - 23.0]	2.4
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	'Mycobacterium marinum' (NZ_CP025779)	20.7	[17.5 - 24.3]	21.7	[19.5 - 24.2]	20.0	[17.2 - 23.0]	3.19
'Mycobacterium colombiense' (NZ_LZLH00000000)	'Mycobacterium marinum' (NZ_PQBM00000000)	20.0	[16.8 - 23.6]	21.7	[19.4 - 24.1]	19.4	[16.6 - 22.4]	2.04
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium szulgai</i> DSM 44166	21.6	[18.4 - 25.3]	21.7	[19.4 - 24.1]	20.7	[17.9 - 23.7]	0.15
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium bouchedurhonense</i> DSM 45439	20.7	[17.5 - 24.3]	21.7	[19.4 - 24.1]	20.0	[17.2 - 23.0]	2.88
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium szulgai</i> DSM 44166	21.7	[18.4 - 25.3]	21.7	[19.4 - 24.1]	20.7	[18.0 - 23.8]	0.08
'Mycobacterium colombiense' (NZ_MBEO00000000)	'Mycobacterium marinum' (NZ_PQBM00000000)	19.9	[16.7 - 23.5]	21.7	[19.4 - 24.1]	19.3	[16.6 - 22.3]	2.07
'Mycobacterium marinum' (NZ_CP025779)	'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	18.9	[15.8 - 22.5]	21.7	[19.5 - 24.2]	18.5	[15.8 - 21.5]	2.26

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium bouchedurhonense</i> DSM 45439	20.7	[17.5 - 24.3]	21.7	[19.5 - 24.2]	20.0	[17.2 - 23.0]	2.81
'Mycobacterium marinum E11' (NZ_HG917972)	'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	19.0	[15.8 - 22.5]	21.7	[19.5 - 24.2]	18.5	[15.9 - 21.6]	2.19
'Mycobacterium marinum' (NZ_CP025779)	'Mycobacterium colombiense' (NZ_LZLH00000000)	19.9	[16.7 - 23.5]	21.7	[19.4 - 24.1]	19.3	[16.6 - 22.3]	1.82
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium vulneris</i> DSM 45247	19.5	[16.4 - 23.1]	21.6	[19.4 - 24.1]	19.0	[16.3 - 22.0]	1.29
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium paraseoulense</i> DSM 45000	20.8	[17.6 - 24.4]	21.6	[19.3 - 24.0]	20.0	[17.3 - 23.0]	2.11
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium nebraskense</i> DSM 44803	20.8	[17.6 - 24.4]	21.6	[19.3 - 24.0]	20.0	[17.3 - 23.1]	1.14
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium intracellulare</i> subsp. <i>chimaera</i> DSM 44623	19.6	[16.5 - 23.2]	21.6	[19.4 - 24.1]	19.1	[16.4 - 22.1]	2.22
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium intracellulare</i> subsp. <i>yongonense</i> 05-1390	19.9	[16.7 - 23.5]	21.6	[19.3 - 24.0]	19.3	[16.6 - 22.3]	2.42
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium paraseoulense</i> DSM 45000	20.7	[17.5 - 24.3]	21.6	[19.3 - 24.0]	19.9	[17.2 - 23.0]	2.18
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium haemophilum</i> ATCC 29548	18.6	[15.5 - 22.1]	21.6	[19.3 - 24.0]	18.2	[15.6 - 21.2]	1.53
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium marinum</i> CCUG 20998	20.0	[16.8 - 23.6]	21.6	[19.4 - 24.0]	19.4	[16.7 - 22.4]	1.8
'Mycobacterium marinum E11' (NZ_HG917972)	'Mycobacterium colombiense' (NZ_MBEO00000000)	20.0	[16.8 - 23.6]	21.6	[19.3 - 24.0]	19.4	[16.7 - 22.4]	1.78
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium marinum</i> CCUG 20998	20.0	[16.8 - 23.6]	21.6	[19.3 - 24.0]	19.3	[16.6 - 22.4]	1.83
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium pseudoshottsii</i> JCM 15466	20.0	[16.8 - 23.6]	21.6	[19.4 - 24.1]	19.4	[16.7 - 22.4]	1.81
'Mycobacterium chimaera' (NZ_MNAM00000000)	'Mycobacterium marinum' (NZ_PQBM00000000)	19.4	[16.3 - 23.0]	21.6	[19.4 - 24.0]	18.9	[16.2 - 21.9]	2.11
'Mycobacterium chimaera' (NZ_LJHL00000000)	'Mycobacterium marinum' (NZ_PQBM00000000)	19.3	[16.2 - 22.9]	21.6	[19.3 - 24.0]	18.8	[16.1 - 21.8]	2.17
'Mycobacterium marinum' (NZ_CP025779)	'Mycobacterium colombiense' (NZ_MBEO00000000)	20.0	[16.8 - 23.6]	21.6	[19.3 - 24.0]	19.3	[16.6 - 22.4]	1.85
'Mycobacterium marinum E11' (NZ_HG917972)	'Mycobacterium colombiense' (NZ_LZLH00000000)	20.1	[16.9 - 23.7]	21.6	[19.4 - 24.0]	19.4	[16.7 - 22.5]	1.75
'Mycobacterium intracellulare' (NZ_LZIO00000000)	'Mycobacterium marinum' (NZ_PQBM00000000)	19.7	[16.5 - 23.3]	21.6	[19.3 - 24.0]	19.1	[16.4 - 22.2]	2.46
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium paraintracellulare</i> KCTC 29084	19.9	[16.7 - 23.5]	21.5	[19.3 - 24.0]	19.3	[16.6 - 22.3]	2.59

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium paraintracellulare</i> KCTC 29084	19.8	[16.6 - 23.4]	21.5	[19.2 - 23.9]	19.2	[16.5 - 22.2]	2.38
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium intracellulare</i> subsp. <i>yongonense</i> 05-1390	19.8	[16.6 - 23.4]	21.5	[19.2 - 23.9]	19.2	[16.5 - 22.2]	2.13
'Mycobacterium marinum' (NZ_CP025779)	'Mycobacterium intracellulare' (NZ_LZIO00000000)	19.6	[16.4 - 23.2]	21.5	[19.3 - 24.0]	19.0	[16.3 - 22.1]	2.24
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium arosiense</i> DSM 45069	19.1	[16.0 - 22.7]	21.5	[19.3 - 24.0]	18.6	[16.0 - 21.7]	1.35
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium basiliense</i> 901379	20.0	[16.8 - 23.6]	21.5	[19.3 - 24.0]	19.4	[16.7 - 22.4]	3.87
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium vulneris</i> DSM 45247	19.4	[16.2 - 22.9]	21.5	[19.2 - 23.9]	18.8	[16.2 - 21.9]	1.07
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium pseudoshottsii</i> JCM 15466	20.1	[16.9 - 23.7]	21.5	[19.3 - 24.0]	19.5	[16.8 - 22.5]	1.84
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium intracellulare</i> ATCC 13950	20.0	[16.8 - 23.6]	21.5	[19.2 - 23.9]	19.4	[16.6 - 22.4]	2.4
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium paraintracellulare</i> KCTC 29084	19.9	[16.7 - 23.5]	21.5	[19.2 - 23.9]	19.3	[16.6 - 22.3]	2.31
'Mycobacterium chimaera' (NZ_CP012885)	'Mycobacterium marinum' (NZ_PQBM00000000)	19.6	[16.4 - 23.2]	21.5	[19.3 - 23.9]	19.1	[16.4 - 22.1]	2.32
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium intracellulare</i> subsp. <i>chimaera</i> DSM 44623	19.4	[16.2 - 23.0]	21.5	[19.2 - 23.9]	18.9	[16.2 - 21.9]	1.93
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium vulneris</i> DSM 45247	19.5	[16.3 - 23.1]	21.5	[19.2 - 23.9]	18.9	[16.2 - 22.0]	1.0
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium pseudoshottsii</i> JCM 15466	19.4	[16.2 - 23.0]	21.5	[19.2 - 23.9]	18.9	[16.2 - 21.9]	1.94
'Mycobacterium chimaera' (NZ_CP012885)	'Mycobacterium marinum' (NZ_CP025779)	19.5	[16.3 - 23.1]	21.5	[19.2 - 23.9]	18.9	[16.3 - 22.0]	2.1
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium colombiense</i> CECT 3035	21.0	[17.8 - 24.6]	21.5	[19.2 - 23.9]	20.2	[17.4 - 23.2]	2.6
'Mycobacterium marinum' (NZ_CP025779)	'Mycobacterium chimaera' (NZ_MNAM00000000)	19.1	[15.9 - 22.6]	21.5	[19.2 - 23.9]	18.6	[15.9 - 21.6]	1.89
'Mycobacterium marinum E11' (NZ_HG917972)	'Mycobacterium intracellulare' (NZ_LZIO00000000)	19.7	[16.6 - 23.3]	21.5	[19.3 - 24.0]	19.2	[16.5 - 22.2]	2.17
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium basiliense</i> 901379	18.8	[15.6 - 22.3]	21.5	[19.2 - 23.9]	18.4	[15.7 - 21.4]	2.94
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium pseudoshottsii</i> JCM 15466	19.8	[16.6 - 23.4]	21.5	[19.2 - 23.9]	19.2	[16.5 - 22.2]	2.09
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium intracellulare</i> ATCC 13950	20.1	[16.9 - 23.7]	21.5	[19.2 - 23.9]	19.4	[16.7 - 22.5]	2.33

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium intracellulare</i> ATCC 13950	20.1	[16.9 - 23.7]	21.5	[19.3 - 24.0]	19.4	[16.7 - 22.5]	2.62
'Mycobacterium marinum' (NZ_CP025779)	'Mycobacterium chimaera' (NZ_LJHL00000000)	19.0	[15.8 - 22.5]	21.5	[19.2 - 23.9]	18.5	[15.8 - 21.5]	1.95
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium haemophilum</i> ATCC 29548	18.7	[15.6 - 22.3]	21.5	[19.2 - 23.9]	18.3	[15.6 - 21.3]	1.82
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium pseudoshottsii</i> JCM 15466	19.8	[16.6 - 23.4]	21.5	[19.3 - 23.9]	19.2	[16.5 - 22.2]	2.23
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium haemophilum</i> ATCC 29548	18.7	[15.5 - 22.2]	21.5	[19.2 - 23.9]	18.3	[15.6 - 21.3]	1.75
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium intracellulare</i> subsp. <i>yongonense</i> 05-1390	19.6	[16.5 - 23.2]	21.5	[19.3 - 23.9]	19.1	[16.4 - 22.1]	2.2
'Mycobacterium marinum E11' (NZ_HG917972)	'Mycobacterium chimaera' (NZ_LJHL00000000)	19.1	[16.0 - 22.7]	21.5	[19.2 - 23.9]	18.7	[16.0 - 21.7]	1.88
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	'Mycobacterium marinum E11' (NZ_HG917972)	20.1	[16.9 - 23.7]	21.5	[19.2 - 23.9]	19.4	[16.7 - 22.5]	2.33
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium pseudoshottsii</i> JCM 15466	20.1	[16.9 - 23.7]	21.5	[19.3 - 23.9]	19.4	[16.7 - 22.5]	2.39
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium intracellulare</i> subsp. <i>chimaera</i> DSM 44623	19.2	[16.1 - 22.8]	21.5	[19.2 - 23.9]	18.7	[16.0 - 21.7]	2.0
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium pseudoshottsii</i> JCM 15466	19.3	[16.2 - 22.9]	21.5	[19.2 - 23.9]	18.8	[16.1 - 21.8]	1.88
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	'Mycobacterium marinum' (NZ_CP025779)	20.0	[16.8 - 23.6]	21.5	[19.2 - 23.9]	19.4	[16.6 - 22.4]	2.4
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	'Mycobacterium marinum' (NZ_PQBM00000000)	20.1	[16.9 - 23.7]	21.5	[19.3 - 24.0]	19.4	[16.7 - 22.5]	2.62
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium marinum</i> CCUG 20998	19.6	[16.5 - 23.2]	21.5	[19.3 - 23.9]	19.1	[16.4 - 22.1]	2.22
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium basiliense</i> 901379	20.7	[17.4 - 24.3]	21.4	[19.1 - 23.8]	19.9	[17.2 - 22.9]	4.07
'Mycobacterium marinum E11' (NZ_HG917972)	'Mycobacterium colombiense' (NZ_LZSX00000000)	20.5	[17.3 - 24.1]	21.4	[19.1 - 23.8]	19.7	[17.0 - 22.8]	1.45
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium marinum</i> CCUG 20998	19.5	[16.4 - 23.1]	21.4	[19.2 - 23.9]	19.0	[16.3 - 22.0]	2.08
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium nebraskense</i> DSM 44803	20.6	[17.4 - 24.2]	21.4	[19.2 - 23.8]	19.9	[17.1 - 22.9]	0.92
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium nebraskense</i> DSM 44803	20.6	[17.4 - 24.2]	21.4	[19.2 - 23.9]	19.8	[17.1 - 22.9]	0.85
'Mycobacterium marinum' (NZ_CP025779)	'Mycobacterium colombiense' (NZ_LZSX00000000)	20.4	[17.2 - 24.0]	21.4	[19.1 - 23.8]	19.7	[16.9 - 22.7]	1.52
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium colombiense</i> CECT 3035	21.2	[17.9 - 24.8]	21.4	[19.1 - 23.8]	20.3	[17.5 - 23.3]	2.31

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium pseudoshottsii</i> JCM 15466	20.6	[17.4 - 24.3]	21.4	[19.1 - 23.8]	19.9	[17.1 - 22.9]	1.51
'Mycobacterium colombiense' (NZ_LZSX00000000)	'Mycobacterium marinum' (NZ_PQBM00000000)	20.3	[17.2 - 24.0]	21.4	[19.2 - 23.9]	19.6	[16.9 - 22.7]	1.74
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium arosiense</i> DSM 45069	19.0	[15.9 - 22.6]	21.4	[19.1 - 23.8]	18.5	[15.9 - 21.5]	1.06
'Mycobacterium marinum E11' (NZ_HG917972)	'Mycobacterium chimaera' (NZ_MNAM00000000)	19.2	[16.1 - 22.8]	21.4	[19.2 - 23.9]	18.7	[16.0 - 21.7]	1.82
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium marinum</i> CCUG 20998	19.0	[15.9 - 22.6]	21.4	[19.2 - 23.9]	18.6	[15.9 - 21.6]	1.93
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium colombiense</i> CECT 3035	21.0	[17.8 - 24.6]	21.4	[19.1 - 23.8]	20.1	[17.4 - 23.2]	2.38
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium marinum</i> CCUG 20998	19.1	[16.0 - 22.7]	21.4	[19.2 - 23.9]	18.6	[16.0 - 21.7]	1.87
'Mycobacterium chimaera' (NZ_CP012885)	'Mycobacterium marinum E11' (NZ_HG917972)	19.7	[16.5 - 23.3]	21.4	[19.2 - 23.9]	19.1	[16.4 - 22.1]	2.03
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium marinum</i> CCUG 20998	20.1	[16.9 - 23.7]	21.4	[19.2 - 23.9]	19.4	[16.7 - 22.5]	2.38
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium basiliense</i> 901379	18.8	[15.7 - 22.4]	21.3	[19.0 - 23.7]	18.4	[15.7 - 21.4]	2.63
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium marinum</i> CCUG 20998	20.4	[17.2 - 24.0]	21.3	[19.1 - 23.8]	19.6	[16.9 - 22.7]	1.5
'Mycobacterium sp. 455mf' (NZ_FO0B00000000)	<i>Mycobacterium canariense</i> CCUG 47953	20.3	[17.1 - 23.9]	21.3	[19.1 - 23.8]	19.6	[16.9 - 22.6]	0.97
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium arosiense</i> DSM 45069	18.9	[15.8 - 22.5]	21.3	[19.1 - 23.8]	18.5	[15.8 - 21.5]	1.13
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium basiliense</i> 901379	19.4	[16.3 - 23.0]	21.3	[19.0 - 23.7]	18.9	[16.2 - 21.9]	2.92
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium marseillense</i> DSM 45437	20.4	[17.2 - 24.0]	21.3	[19.1 - 23.7]	19.7	[16.9 - 22.7]	2.23
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium houstonense</i> ATCC 49403	17.0	[14.0 - 20.5]	21.3	[19.0 - 23.7]	16.8	[14.3 - 19.8]	2.35
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium basiliense</i> 901379	19.3	[16.1 - 22.9]	21.2	[19.0 - 23.6]	18.8	[16.1 - 21.8]	2.2
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium basiliense</i> 901379	19.8	[16.7 - 23.4]	21.2	[18.9 - 23.6]	19.2	[16.5 - 22.2]	3.08
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium canariense</i> CCUG 47953	16.4	[13.4 - 19.9]	21.2	[19.0 - 23.7]	16.4	[13.8 - 19.3]	1.72
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium marseillense</i> DSM 45437	20.6	[17.4 - 24.2]	21.2	[19.0 - 23.6]	19.8	[17.1 - 22.8]	1.94



Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium marseillense</i> DSM 45437	20.4	[17.2 - 24.1]	21.2	[19.0 - 23.6]	19.7	[17.0 - 22.7]	2.01
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium mageritense</i> CIP 104973	16.1	[13.1 - 19.6]	21.2	[18.9 - 23.6]	16.1	[13.5 - 19.0]	2.36
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium basiliense</i> 901379	19.1	[15.9 - 22.7]	21.2	[19.0 - 23.6]	18.6	[15.9 - 21.6]	2.56
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium basiliense</i> 901379	19.5	[16.3 - 23.1]	21.1	[18.9 - 23.6]	18.9	[16.2 - 21.9]	2.78
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium neglectum</i> CECT 8778	23.8	[20.5 - 27.4]	21.1	[18.9 - 23.5]	22.3	[19.5 - 25.4]	1.51
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium wolinskyi</i> ATCC 700010	15.9	[13.0 - 19.4]	21.1	[18.9 - 23.5]	15.9	[13.4 - 18.9]	2.88
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium gilvum</i> NCTC 10742	17.5	[14.5 - 21.1]	21.1	[18.8 - 23.5]	17.3	[14.7 - 20.3]	1.25
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium basiliense</i> 901379	19.7	[16.5 - 23.3]	21.1	[18.9 - 23.5]	19.1	[16.4 - 22.1]	2.5
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	16.9	[13.9 - 20.4]	21.1	[18.8 - 23.5]	16.8	[14.2 - 19.7]	2.45
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	'Mycobacterium sp. djl-10' (NZ_CP016640)	16.3	[13.4 - 19.8]	21.0	[18.8 - 23.4]	16.3	[13.7 - 19.2]	1.37
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium avium</i> subsp. <i>silvaticum</i> ATCC 49884	16.5	[13.5 - 20.0]	21.0	[18.8 - 23.4]	16.4	[13.8 - 19.3]	1.21
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium lehmannii</i> CECT 8763	17.9	[14.8 - 21.5]	21.0	[18.8 - 23.4]	17.6	[15.0 - 20.6]	2.16
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium avium</i> subsp. <i>silvaticum</i> ATCC 49884	17.0	[14.0 - 20.6]	21.0	[18.8 - 23.4]	16.9	[14.3 - 19.8]	2.3
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium vaccae</i> ATCC 15483	17.5	[14.4 - 21.0]	21.0	[18.7 - 23.4]	17.2	[14.6 - 20.2]	0.72
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium basiliense</i> 901379	20.1	[16.9 - 23.7]	21.0	[18.7 - 23.4]	19.4	[16.7 - 22.4]	2.53
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium tokaiense</i> NCTC 10821	16.2	[13.3 - 19.7]	21.0	[18.7 - 23.4]	16.2	[13.7 - 19.1]	1.46
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium boenickei</i> CIP 107829	16.8	[13.8 - 20.3]	21.0	[18.8 - 23.5]	16.7	[14.1 - 19.6]	2.54
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium novocastrense</i> JCM 18114	16.7	[13.7 - 20.2]	21.0	[18.7 - 23.4]	16.6	[14.0 - 19.6]	2.46

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium neumannii</i> CECT 8766	17.3	[14.2 - 20.8]	20.9	[18.6 - 23.3]	17.1	[14.5 - 20.0]	2.51
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium peregrinum</i> DSM 43271	16.2	[13.2 - 19.7]	20.9	[18.6 - 23.3]	16.1	[13.6 - 19.1]	3.04
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium houstonense</i> ATCC 49403	17.2	[14.2 - 20.7]	20.9	[18.7 - 23.4]	17.0	[14.4 - 20.0]	1.94
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium septicum</i> DSM 44393	16.9	[13.9 - 20.4]	20.9	[18.6 - 23.3]	16.8	[14.2 - 19.7]	2.58
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium houstonense</i> ATCC 49403	18.6	[15.5 - 22.1]	20.9	[18.7 - 23.3]	18.2	[15.5 - 21.1]	0.11
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium lehmannii</i> CECT 8763	17.0	[14.0 - 20.5]	20.9	[18.7 - 23.3]	16.9	[14.3 - 19.8]	2.57
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	'Mycobacterium sp. 455mf' (NZ_FOOB00000000)	16.9	[13.9 - 20.4]	20.9	[18.6 - 23.3]	16.7	[14.2 - 19.7]	2.69
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium houstonense</i> ATCC 49403	17.8	[14.8 - 21.4]	20.9	[18.6 - 23.3]	17.5	[14.9 - 20.5]	0.98
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium fortuitum</i> DSM 46621	16.2	[13.2 - 19.7]	20.9	[18.6 - 23.3]	16.2	[13.6 - 19.1]	3.08
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium houstonense</i> ATCC 49403	16.3	[13.3 - 19.8]	20.8	[18.6 - 23.2]	16.2	[13.7 - 19.2]	0.56
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium gilvum</i> NCTC 10742	16.5	[13.5 - 20.0]	20.8	[18.6 - 23.2]	16.4	[13.8 - 19.3]	1.66
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium novocastrense</i> JCM 18114	16.9	[13.9 - 20.4]	20.8	[18.6 - 23.2]	16.8	[14.2 - 19.7]	0.96
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium setense</i> DSM 45070	16.5	[13.5 - 20.0]	20.8	[18.5 - 23.2]	16.4	[13.8 - 19.3]	2.88
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium neworleansense</i> ATCC 49404	17.2	[14.2 - 20.8]	20.8	[18.5 - 23.2]	17.0	[14.4 - 20.0]	2.46
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium aichiense</i> NCTC 10820	17.2	[14.2 - 20.7]	20.8	[18.6 - 23.3]	17.0	[14.4 - 20.0]	2.56
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium fortuitum</i> subsp. <i>acetamidolyticum</i> JCM 6368	16.0	[13.1 - 19.5]	20.8	[18.6 - 23.2]	16.0	[13.5 - 18.9]	3.29
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium houstonense</i> ATCC 49403	17.3	[14.3 - 20.9]	20.8	[18.6 - 23.3]	17.1	[14.5 - 20.1]	2.13
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium wolinskyi</i> ATCC 700010	16.2	[13.2 - 19.7]	20.8	[18.5 - 23.2]	16.1	[13.6 - 19.1]	1.38

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium houstonense</i> ATCC 49403	16.5	[13.5 - 20.0]	20.7	[18.5 - 23.1]	16.5	[13.9 - 19.4]	1.0
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium vaccae</i> ATCC 15483	22.7	[19.4 - 26.3]	20.7	[18.5 - 23.2]	21.4	[18.6 - 24.4]	1.74
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium wolinskyi</i> ATCC 700010	19.2	[16.1 - 22.8]	20.7	[18.5 - 23.1]	18.7	[16.0 - 21.7]	0.42
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium bohemicum</i> DSM 44277	15.9	[13.0 - 19.4]	20.7	[18.4 - 23.1]	15.9	[13.4 - 18.8]	0.87
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium wolinskyi</i> ATCC 700010	16.4	[13.4 - 19.9]	20.7	[18.4 - 23.1]	16.3	[13.8 - 19.3]	2.47
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium canariasense</i> CCUG 47953	16.9	[13.9 - 20.4]	20.7	[18.4 - 23.1]	16.8	[14.2 - 19.7]	1.31
'Mycobacterium sp. 455mf' (NZ_FOQB00000000)	<i>Mycobacterium avium</i> subsp. <i>silvaticum</i> ATCC 49884	17.0	[14.0 - 20.5]	20.7	[18.5 - 23.1]	16.8	[14.3 - 19.8]	2.54
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium novocastrense</i> JCM 18114	16.7	[13.7 - 20.2]	20.7	[18.5 - 23.1]	16.6	[14.0 - 19.5]	1.12
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium houstonense</i> ATCC 49403	16.5	[13.5 - 20.0]	20.7	[18.4 - 23.1]	16.4	[13.9 - 19.4]	0.98
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium peregrinum</i> DSM 43271	16.1	[13.1 - 19.5]	20.7	[18.5 - 23.1]	16.0	[13.5 - 19.0]	1.7
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium canariasense</i> CCUG 47953	17.2	[14.1 - 20.7]	20.6	[18.4 - 23.0]	17.0	[14.4 - 19.9]	1.51
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium canariasense</i> CCUG 47953	15.7	[12.8 - 19.2]	20.6	[18.4 - 23.0]	15.7	[13.2 - 18.6]	0.37
'Mycobacterium sp. 455mf' (NZ_FOQB00000000)	<i>Mycobacterium vaccae</i> ATCC 15483	21.0	[17.8 - 24.7]	20.6	[18.4 - 23.1]	20.1	[17.4 - 23.1]	1.97
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium boenickei</i> CIP 107829	16.9	[13.9 - 20.5]	20.6	[18.4 - 23.0]	16.8	[14.2 - 19.7]	1.17
'Mycobacterium sp. djl-10' (NZ_CP016640)	'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	15.7	[12.8 - 19.2]	20.6	[18.4 - 23.0]	15.8	[13.2 - 18.7]	0.02
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium neglectum</i> CECT 8778	15.7	[12.7 - 19.1]	20.6	[18.4 - 23.1]	15.7	[13.2 - 18.6]	3.96
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium boenickei</i> CIP 107829	17.1	[14.1 - 20.6]	20.6	[18.4 - 23.0]	16.9	[14.3 - 19.9]	1.33
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium tokaiense</i> NCTC 10821	15.6	[12.7 - 19.1]	20.6	[18.4 - 23.0]	15.7	[13.1 - 18.6]	0.12
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium boenickei</i> CIP 107829	17.4	[14.4 - 21.0]	20.6	[18.3 - 23.0]	17.2	[14.6 - 20.2]	2.13

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium vaccae</i> ATCC 15483	17.7	[14.7 - 21.3]	20.6	[18.4 - 23.0]	17.4	[14.8 - 20.4]	0.31
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium houstonense</i> ATCC 49403	16.4	[13.4 - 19.9]	20.6	[18.4 - 23.1]	16.4	[13.8 - 19.3]	0.59
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium wolinskyi</i> ATCC 700010	16.5	[13.5 - 20.0]	20.6	[18.3 - 23.0]	16.4	[13.8 - 19.3]	2.67
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium houstonense</i> ATCC 49403	16.4	[13.5 - 19.9]	20.6	[18.4 - 23.0]	16.4	[13.8 - 19.3]	0.26
'Mycobacterium avium subsp. paratuberculosis JTC 1285' (NZ_AGAL00000000)	<i>Mycobacterium syngnathidarum</i> 27335	16.4	[13.4 - 19.9]	20.6	[18.4 - 23.1]	16.3	[13.8 - 19.3]	3.09
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium canariasense</i> CCUG 47953	15.9	[12.9 - 19.3]	20.5	[18.3 - 22.9]	15.9	[13.3 - 18.8]	0.52
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium novocastrense</i> JCM 18114	17.4	[14.4 - 20.9]	20.5	[18.3 - 22.9]	17.2	[14.6 - 20.1]	2.05
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium boenickei</i> CIP 107829	17.9	[14.9 - 21.5]	20.5	[18.3 - 23.0]	17.6	[15.0 - 20.6]	2.33
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium boenickei</i> CIP 107829	16.5	[13.6 - 20.1]	20.5	[18.3 - 22.9]	16.4	[13.9 - 19.4]	1.19
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium mageritense</i> CIP 104973	16.6	[13.6 - 20.1]	20.5	[18.3 - 23.0]	16.5	[13.9 - 19.4]	1.95
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium avium</i> ATCC 25291	17.0	[14.0 - 20.5]	20.5	[18.3 - 22.9]	16.8	[14.2 - 19.8]	1.3
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium canariasense</i> CCUG 47953	15.8	[12.9 - 19.3]	20.5	[18.3 - 22.9]	15.8	[13.3 - 18.7]	0.36
'Mycobacterium sp. 455mf' (NZ_FOOB00000000)	<i>Mycobacterium gilvum</i> NCTC 10742	19.5	[16.4 - 23.1]	20.5	[18.3 - 22.9]	18.9	[16.2 - 21.9]	1.03
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium novocastrense</i> JCM 18114	16.8	[13.8 - 20.3]	20.5	[18.3 - 22.9]	16.6	[14.1 - 19.6]	1.1
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium boenickei</i> CIP 107829	18.2	[15.1 - 21.8]	20.5	[18.3 - 22.9]	17.8	[15.2 - 20.8]	1.17
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium septicum</i> DSM 44393	17.6	[14.6 - 21.2]	20.5	[18.3 - 22.9]	17.3	[14.7 - 20.3]	1.21
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium houstonense</i> ATCC 49403	16.5	[13.5 - 20.0]	20.5	[18.2 - 22.9]	16.4	[13.8 - 19.3]	0.84
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium gilvum</i> NCTC 10742	16.1	[13.2 - 19.6]	20.5	[18.3 - 22.9]	16.1	[13.6 - 19.0]	0.05
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium vaccae</i> ATCC 15483	17.9	[14.8 - 21.5]	20.5	[18.3 - 22.9]	17.6	[15.0 - 20.6]	0.51
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium mageritense</i> CIP 104973	18.8	[15.7 - 22.4]	20.5	[18.2 - 22.9]	18.3	[15.6 - 21.3]	0.1
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium vaccae</i> ATCC 15483	17.1	[14.0 - 20.6]	20.5	[18.3 - 22.9]	16.9	[14.3 - 19.8]	0.63

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	'Mycobacterium sp. djl-10' (NZ_CP016640)	16.8	[13.8 - 20.4]	20.5	[18.2 - 22.9]	16.7	[14.1 - 19.6]	0.96
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium aichiense</i> NCTC 10820	17.6	[14.6 - 21.2]	20.5	[18.2 - 22.9]	17.3	[14.7 - 20.3]	2.15
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium intracellulare</i> subsp. <i>chimaera</i> DSM 44623	15.6	[12.7 - 19.1]	20.5	[18.2 - 22.9]	15.7	[13.1 - 18.6]	0.24
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium canariensis</i> CCUG 47953	19.1	[15.9 - 22.6]	20.5	[18.3 - 23.0]	18.5	[15.8 - 21.5]	0.35
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium avium</i> ATCC 25291	17.6	[14.5 - 21.1]	20.5	[18.3 - 22.9]	17.3	[14.7 - 20.3]	2.39
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium houstonense</i> ATCC 49403	16.8	[13.8 - 20.3]	20.5	[18.3 - 22.9]	16.6	[14.1 - 19.6]	1.14
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium intracellulare</i> subsp. <i>yongonense</i> 05-1390	15.9	[12.9 - 19.3]	20.5	[18.3 - 22.9]	15.9	[13.3 - 18.8]	0.03
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium aichiense</i> NCTC 10820	17.7	[14.6 - 21.2]	20.4	[18.2 - 22.9]	17.4	[14.7 - 20.3]	2.35
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium canariensis</i> CCUG 47953	16.0	[13.0 - 19.4]	20.4	[18.2 - 22.8]	15.9	[13.4 - 18.9]	0.04
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium vaccae</i> ATCC 15483	20.3	[17.1 - 23.9]	20.4	[18.2 - 22.9]	19.5	[16.8 - 22.5]	0.65
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium vaccae</i> ATCC 15483	16.9	[13.9 - 20.4]	20.4	[18.2 - 22.8]	16.7	[14.1 - 19.7]	1.07
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium paraintracellulare</i> KCTC 29084	15.9	[13.0 - 19.4]	20.4	[18.2 - 22.8]	15.9	[13.4 - 18.8]	0.14
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium mageritense</i> CIP 104973	17.2	[14.2 - 20.8]	20.4	[18.2 - 22.9]	17.0	[14.4 - 20.0]	0.99
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	17.5	[14.4 - 21.0]	20.4	[18.2 - 22.8]	17.2	[14.6 - 20.2]	2.04
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium novocastrense</i> JCM 18114	17.4	[14.3 - 20.9]	20.4	[18.2 - 22.8]	17.1	[14.5 - 20.1]	2.25
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium bouchardurhonense</i> DSM 45439	16.7	[13.7 - 20.2]	20.4	[18.2 - 22.9]	16.6	[14.0 - 19.5]	0.64
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium neworleansense</i> ATCC 49404	19.6	[16.5 - 23.2]	20.4	[18.1 - 22.8]	19.0	[16.3 - 22.0]	0.0
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium houstonense</i> ATCC 49403	16.3	[13.4 - 19.8]	20.4	[18.2 - 22.8]	16.3	[13.7 - 19.2]	0.63
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	'Mycobacterium sp. djl-10' (NZ_CP016640)	17.0	[14.0 - 20.5]	20.4	[18.2 - 22.8]	16.8	[14.2 - 19.8]	1.15
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium houstonense</i> ATCC 49403	16.4	[13.4 - 19.9]	20.4	[18.2 - 22.8]	16.3	[13.7 - 19.2]	0.69
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium lehmannii</i> CECT 8763	17.4	[14.3 - 20.9]	20.4	[18.2 - 22.9]	17.1	[14.5 - 20.1]	1.07

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium houstonense</i> ATCC 49403	14.5	[11.6 - 17.9]	20.4	[18.2 - 22.8]	14.7	[12.2 - 17.5]	1.34
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium houstonense</i> ATCC 49403	14.8	[11.9 - 18.2]	20.4	[18.2 - 22.9]	14.9	[12.5 - 17.8]	0.86
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium neglectum</i> CECT 8778	15.5	[12.5 - 18.9]	20.4	[18.2 - 22.9]	15.5	[13.0 - 18.4]	2.62
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium novocastrense</i> JCM 18114	16.6	[13.6 - 20.1]	20.4	[18.2 - 22.8]	16.5	[13.9 - 19.4]	0.81
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium synnathidarum</i> 27335	16.4	[13.4 - 19.9]	20.4	[18.2 - 22.8]	16.3	[13.8 - 19.3]	1.75
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium boenickei</i> CIP 107829	16.5	[13.5 - 20.0]	20.4	[18.2 - 22.8]	16.4	[13.8 - 19.3]	0.82
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium lehmannii</i> CECT 8763	17.2	[14.2 - 20.8]	20.4	[18.1 - 22.8]	17.0	[14.4 - 20.0]	1.23
'Mycobacterium sp. djl-10' (NZ_CP016640)	'Mycobacterium chimaera' (NZ_LJHL00000000)	15.6	[12.6 - 19.0]	20.4	[18.2 - 22.8]	15.6	[13.1 - 18.5]	0.29
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium intracellulare</i> ATCC 13950	16.0	[13.0 - 19.4]	20.4	[18.2 - 22.8]	16.0	[13.4 - 18.9]	0.16
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium mageritense</i> CIP 104973	16.6	[13.6 - 20.1]	20.4	[18.2 - 22.9]	16.5	[13.9 - 19.4]	2.14
'Mycobacterium chimaera' (NZ_CP012885)	'Mycobacterium sp. djl-10' (NZ_CP016640)	15.7	[12.7 - 19.1]	20.4	[18.2 - 22.9]	15.7	[13.2 - 18.6]	0.14
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium canariense</i> CCUG 47953	15.8	[12.8 - 19.3]	20.4	[18.2 - 22.8]	15.8	[13.3 - 18.7]	0.06
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium canariense</i> CCUG 47953	16.1	[13.1 - 19.6]	20.4	[18.2 - 22.8]	16.0	[13.5 - 19.0]	0.07
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium neworleansense</i> ATCC 49404	18.3	[15.2 - 21.9]	20.4	[18.2 - 22.8]	17.9	[15.3 - 20.9]	1.09
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium tokaiense</i> NCTC 10821	16.7	[13.7 - 20.2]	20.4	[18.1 - 22.8]	16.5	[14.0 - 19.5]	1.05
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium boenickei</i> CIP 107829	16.6	[13.6 - 20.1]	20.4	[18.2 - 22.9]	16.5	[13.9 - 19.4]	1.03
'Mycobacterium sp. djl-10' (NZ_CP016640)	'Mycobacterium intracellulare' (NZ_LZIO00000000)	15.9	[12.9 - 19.3]	20.4	[18.2 - 22.8]	15.9	[13.3 - 18.8]	0.0
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium houstonense</i> ATCC 49403	14.8	[11.9 - 18.2]	20.4	[18.2 - 22.8]	14.9	[12.5 - 17.8]	0.78
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium boenickei</i> CIP 107829	19.3	[16.2 - 22.9]	20.4	[18.2 - 22.8]	18.7	[16.0 - 21.7]	0.08
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	17.5	[14.5 - 21.1]	20.4	[18.2 - 22.8]	17.3	[14.6 - 20.2]	2.24

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium houstonense</i> ATCC 49403	14.5	[11.6 - 17.9]	20.4	[18.2 - 22.8]	14.7	[12.2 - 17.5]	1.35
'Mycobacterium sp. 455mf' (NZ_FOOB00000000)	<i>Mycobacterium bohemicum</i> DSM 44277	16.3	[13.3 - 19.7]	20.4	[18.2 - 22.8]	16.2	[13.6 - 19.1]	2.19
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium gilvum</i> NCTC 10742	21.9	[18.6 - 25.5]	20.4	[18.2 - 22.9]	20.7	[17.9 - 23.8]	0.79
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium boenickei</i> CIP 107829	16.5	[13.5 - 20.0]	20.4	[18.2 - 22.8]	16.4	[13.8 - 19.3]	0.88
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium novocastrense</i> JCM 18114	16.9	[13.9 - 20.4]	20.4	[18.2 - 22.9]	16.7	[14.2 - 19.7]	1.26
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium peregrinum</i> DSM 43271	16.2	[13.2 - 19.7]	20.4	[18.2 - 22.9]	16.1	[13.6 - 19.1]	1.68
'Mycobacterium sp. 455mf' (NZ_FOOB00000000)	'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	18.9	[15.7 - 22.4]	20.4	[18.2 - 22.8]	18.3	[15.7 - 21.3]	0.23
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium fortuitum</i> subsp. <i>acetamidolyticum</i> JCM 6368	16.1	[13.2 - 19.6]	20.4	[18.1 - 22.8]	16.1	[13.5 - 19.0]	1.79
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium fortuitum</i> DSM 46621	16.9	[13.9 - 20.4]	20.4	[18.1 - 22.8]	16.7	[14.1 - 19.7]	1.72
'Mycobacterium sp. 455mf' (NZ_FOOB00000000)	<i>Mycobacterium avium</i> ATCC 25291	17.4	[14.4 - 21.0]	20.4	[18.2 - 22.8]	17.2	[14.6 - 20.1]	2.63
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium gilvum</i> NCTC 10742	17.6	[14.6 - 21.2]	20.4	[18.2 - 22.8]	17.3	[14.7 - 20.3]	1.45
'Mycobacterium sp. djl-10' (NZ_CP016640)	'Mycobacterium chimaera' (NZ_MNAM00000000)	15.5	[12.6 - 19.0]	20.4	[18.2 - 22.8]	15.6	[13.1 - 18.5]	0.35
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium bohemicum</i> DSM 44277	16.8	[13.8 - 20.3]	20.4	[18.2 - 22.8]	16.7	[14.1 - 19.6]	1.96
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium houstonense</i> ATCC 49403	14.5	[11.6 - 17.9]	20.4	[18.2 - 22.8]	14.6	[12.2 - 17.5]	1.36
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium bouchedurhonense</i> DSM 45439	17.2	[14.2 - 20.7]	20.4	[18.2 - 22.8]	17.0	[14.4 - 20.0]	1.73
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	'Mycobacterium sp. djl-10' (NZ_CP016640)	16.0	[13.0 - 19.4]	20.4	[18.2 - 22.8]	16.0	[13.4 - 18.9]	0.16
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium peregrinum</i> DSM 43271	16.4	[13.4 - 19.9]	20.3	[18.1 - 22.8]	16.3	[13.8 - 19.2]	1.84
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium gilvum</i> NCTC 10742	18.4	[15.3 - 22.0]	20.3	[18.1 - 22.7]	18.0	[15.3 - 21.0]	0.29
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium tokaiense</i> NCTC 10821	15.7	[12.7 - 19.1]	20.3	[18.0 - 22.7]	15.7	[13.2 - 18.6]	0.04
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium wolinskyi</i> ATCC 700010	15.9	[12.9 - 19.4]	20.3	[18.1 - 22.7]	15.9	[13.3 - 18.8]	1.16
'Mycobacterium sp. 455mf' (NZ_FOOB00000000)	<i>Mycobacterium novocastrense</i> JCM 18114	19.0	[15.9 - 22.6]	20.3	[18.0 - 22.7]	18.5	[15.8 - 21.5]	0.23

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium septicum</i> DSM 44393	19.3	[16.1 - 22.9]	20.3	[18.1 - 22.7]	18.7	[16.0 - 21.7]	0.12
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium neglectum</i> CECT 8778	15.6	[12.6 - 19.0]	20.3	[18.1 - 22.7]	15.6	[13.1 - 18.5]	2.6
'Mycobacterium sp. 455mf' (NZ_FOQB00000000)	<i>Mycobacterium aichiense</i> NCTC 10820	18.6	[15.5 - 22.2]	20.3	[18.0 - 22.7]	18.1	[15.4 - 21.1]	0.12
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium canariense</i> CCUG 47953	15.9	[13.0 - 19.4]	20.3	[18.1 - 22.7]	15.9	[13.4 - 18.8]	0.37
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium peregrinum</i> DSM 43271	17.0	[14.0 - 20.5]	20.3	[18.1 - 22.7]	16.8	[14.2 - 19.7]	2.63
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium peregrinum</i> DSM 43271	18.4	[15.3 - 21.9]	20.3	[18.1 - 22.7]	17.9	[15.3 - 20.9]	0.59
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	16.9	[13.8 - 20.4]	20.3	[18.1 - 22.8]	16.7	[14.1 - 19.6]	1.11
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium gilvum</i> NCTC 10742	16.2	[13.3 - 19.7]	20.3	[18.1 - 22.8]	16.2	[13.6 - 19.1]	0.16
'Mycobacterium sp. 455mf' (NZ_FOQB00000000)	<i>Mycobacterium tokaiense</i> NCTC 10821	17.8	[14.8 - 21.4]	20.3	[18.1 - 22.7]	17.5	[14.9 - 20.5]	1.23
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium vaccae</i> ATCC 15483	17.1	[14.1 - 20.6]	20.3	[18.1 - 22.7]	16.9	[14.3 - 19.8]	0.78
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium vaccae</i> ATCC 15483	17.0	[13.9 - 20.5]	20.3	[18.1 - 22.7]	16.8	[14.2 - 19.7]	0.94
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium tokaiense</i> NCTC 10821	15.8	[12.8 - 19.3]	20.3	[18.1 - 22.7]	15.8	[13.3 - 18.7]	0.1
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium canariense</i> CCUG 47953	15.9	[13.0 - 19.4]	20.3	[18.0 - 22.7]	15.9	[13.4 - 18.8]	0.22
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium houstonense</i> ATCC 49403	14.8	[11.9 - 18.2]	20.3	[18.1 - 22.8]	14.9	[12.4 - 17.8]	0.77
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium canariense</i> CCUG 47953	17.9	[14.8 - 21.4]	20.3	[18.1 - 22.7]	17.5	[14.9 - 20.5]	0.74
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium tokaiense</i> NCTC 10821	15.9	[13.0 - 19.4]	20.3	[18.1 - 22.7]	15.9	[13.4 - 18.8]	0.26
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium fortuitum</i> DSM 46621	16.7	[13.7 - 20.2]	20.3	[18.1 - 22.7]	16.6	[14.0 - 19.5]	2.67
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium vaccae</i> ATCC 15483	16.9	[13.9 - 20.5]	20.3	[18.1 - 22.7]	16.8	[14.2 - 19.7]	1.0
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium canariense</i> CCUG 47953	15.8	[12.8 - 19.2]	20.3	[18.1 - 22.7]	15.8	[13.2 - 18.7]	0.0
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium houstonense</i> ATCC 49403	14.5	[11.6 - 17.9]	20.3	[18.1 - 22.7]	14.6	[12.2 - 17.5]	1.48



Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium novocastrense</i> JCM 18114	16.6	[13.6 - 20.1]	20.3	[18.1 - 22.7]	16.5	[13.9 - 19.4]	0.74
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium lehmannii</i> CECT 8763	17.8	[14.8 - 21.4]	20.3	[18.1 - 22.8]	17.5	[14.9 - 20.5]	2.36
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium tokaiense</i> NCTC 10821	16.9	[13.9 - 20.4]	20.3	[18.1 - 22.8]	16.8	[14.2 - 19.7]	1.25
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium arosiense</i> DSM 45069	15.4	[12.5 - 18.9]	20.3	[18.0 - 22.7]	15.5	[13.0 - 18.4]	1.1
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium wolinskyi</i> ATCC 700010	16.3	[13.3 - 19.8]	20.3	[18.1 - 22.7]	16.2	[13.7 - 19.1]	1.54
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium gilvum</i> NCTC 10742	15.9	[13.0 - 19.4]	20.3	[18.1 - 22.7]	15.9	[13.4 - 18.8]	0.12
'Mycobacterium sp. djl-10' (NZ_CP016640)	'Mycobacterium sp. 455mf' (NZ_FOOB00000000)	18.0	[15.0 - 21.6]	20.3	[18.0 - 22.7]	17.7	[15.0 - 20.7]	1.32
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium wolinskyi</i> ATCC 700010	15.9	[12.9 - 19.4]	20.3	[18.0 - 22.7]	15.9	[13.3 - 18.8]	0.79
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium fortuitum</i> subsp. <i>acetamidolyticum</i> JCM 6368	16.8	[13.8 - 20.3]	20.3	[18.1 - 22.7]	16.7	[14.1 - 19.6]	2.88
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium wolinskyi</i> ATCC 700010	15.9	[12.9 - 19.3]	20.3	[18.1 - 22.7]	15.8	[13.3 - 18.8]	1.22
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	'Mycobacterium sp. 455mf' (NZ_FOOB00000000)	17.5	[14.5 - 21.1]	20.3	[18.0 - 22.7]	17.2	[14.6 - 20.2]	2.48
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	'Mycobacterium sp. 455mf' (NZ_FOOB00000000)	17.3	[14.2 - 20.8]	20.3	[18.0 - 22.7]	17.0	[14.4 - 20.0]	2.28
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium neglectum</i> CECT 8778	15.6	[12.7 - 19.1]	20.3	[18.1 - 22.7]	15.7	[13.1 - 18.6]	2.76
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium mageritense</i> CIP 104973	16.0	[13.1 - 19.5]	20.3	[18.1 - 22.7]	16.0	[13.5 - 18.9]	1.01
'Mycobacterium sp. djl-10' (NZ_CP016640)	'Mycobacterium colombiense' (NZ_LZLH00000000)	15.9	[12.9 - 19.4]	20.3	[18.0 - 22.7]	15.9	[13.3 - 18.8]	0.42
'Mycobacterium sp. 455mf' (NZ_FOOB00000000)	'Mycobacterium intracellulare' (NZ_LZIO00000000)	16.6	[13.6 - 20.2]	20.2	[17.9 - 22.6]	16.5	[13.9 - 19.4]	1.33
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium neworleansense</i> ATCC 49404	16.8	[13.7 - 20.3]	20.2	[18.0 - 22.7]	16.6	[14.0 - 19.5]	1.11
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium marseillense</i> DSM 45437	15.8	[12.8 - 19.3]	20.2	[18.0 - 22.6]	15.8	[13.3 - 18.7]	0.22
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium boenickei</i> CIP 107829	16.8	[13.8 - 20.3]	20.2	[18.0 - 22.7]	16.6	[14.0 - 19.5]	0.78
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium peregrinum</i> DSM 43271	17.2	[14.1 - 20.7]	20.2	[18.0 - 22.6]	16.9	[14.3 - 19.9]	2.83

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium syngnathidarum</i> 27335	16.9	[13.9 - 20.4]	20.2	[18.0 - 22.6]	16.7	[14.1 - 19.7]	2.68
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium fortuitum</i> DSM 46621	18.6	[15.4 - 22.1]	20.2	[18.0 - 22.6]	18.1	[15.4 - 21.1]	0.63
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium houstonense</i> ATCC 49403	14.5	[11.6 - 17.9]	20.2	[18.0 - 22.6]	14.7	[12.2 - 17.5]	1.19
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium wolinskyi</i> ATCC 700010	16.3	[13.4 - 19.8]	20.2	[18.0 - 22.6]	16.3	[13.7 - 19.2]	1.68
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium neglectum</i> CECT 8778	15.9	[13.0 - 19.4]	20.2	[18.0 - 22.6]	15.9	[13.4 - 18.8]	3.55
'Mycobacterium chimaera' (NZ_LJHL00000000)	'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	16.7	[13.7 - 20.2]	20.2	[18.0 - 22.6]	16.6	[14.0 - 19.5]	0.8
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium tokaiense</i> NCTC 10821	16.0	[13.0 - 19.4]	20.2	[18.0 - 22.6]	15.9	[13.4 - 18.9]	0.32
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium fortuitum</i> subsp. <i>acetamidolyticum</i> JCM 6368	18.4	[15.3 - 22.0]	20.2	[18.0 - 22.6]	17.9	[15.3 - 20.9]	0.83
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium neumannii</i> CECT 8766	17.9	[14.9 - 21.5]	20.2	[18.0 - 22.7]	17.6	[14.9 - 20.6]	2.1
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium tokaiense</i> NCTC 10821	15.6	[12.7 - 19.0]	20.2	[18.0 - 22.6]	15.6	[13.1 - 18.5]	0.19
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium vaccae</i> ATCC 15483	17.4	[14.4 - 21.0]	20.2	[18.0 - 22.7]	17.2	[14.6 - 20.1]	0.49
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium gilvum</i> NCTC 10742	16.7	[13.7 - 20.2]	20.2	[17.9 - 22.6]	16.5	[14.0 - 19.5]	0.3
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium neumannii</i> CECT 8766	17.1	[14.1 - 20.6]	20.2	[18.0 - 22.6]	16.9	[14.3 - 19.9]	1.17
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium fortuitum</i> DSM 46621	16.0	[13.1 - 19.5]	20.2	[18.0 - 22.6]	16.0	[13.4 - 18.9]	1.72
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium vaccae</i> ATCC 15483	17.4	[14.3 - 20.9]	20.2	[18.0 - 22.6]	17.1	[14.5 - 20.1]	0.64
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium mageritense</i> CIP 104973	16.3	[13.3 - 19.8]	20.2	[17.9 - 22.6]	16.2	[13.6 - 19.1]	0.57
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium vulneris</i> DSM 45247	15.5	[12.6 - 19.0]	20.2	[18.0 - 22.6]	15.6	[13.1 - 18.5]	1.17
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium septicum</i> DSM 44393	17.5	[14.4 - 21.0]	20.2	[18.0 - 22.6]	17.2	[14.6 - 20.2]	2.17
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium neumannii</i> CECT 8766	18.1	[15.0 - 21.7]	20.2	[18.0 - 22.6]	17.7	[15.1 - 20.7]	2.3
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium lehmannii</i> CECT 8763	17.0	[14.0 - 20.6]	20.2	[17.9 - 22.6]	16.8	[14.2 - 19.8]	1.21
'Mycobacterium sp. 455mf' (NZ_FOOB00000000)	<i>Mycobacterium lehmannii</i> CECT 8763	18.9	[15.8 - 22.5]	20.2	[18.0 - 22.6]	18.4	[15.7 - 21.4]	0.12

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium aichiense</i> NCTC 10820	17.1	[14.1 - 20.6]	20.2	[18.0 - 22.6]	16.9	[14.3 - 19.8]	1.36
'Mycobacterium chimaera' (NZ_MNAM000000000)	<i>Mycobacterium tokaiense</i> NCTC 10821	15.6	[12.6 - 19.0]	20.2	[18.0 - 22.6]	15.6	[13.1 - 18.5]	0.26
'Mycobacterium colombiense' (NZ_MBEO000000000)	<i>Mycobacterium wolinskyi</i> ATCC 700010	16.2	[13.3 - 19.7]	20.2	[17.9 - 22.6]	16.2	[13.6 - 19.1]	1.12
'Mycobacterium colombiense' (NZ_LZLH000000000)	<i>Mycobacterium boenickei</i> CIP 107829	16.7	[13.7 - 20.2]	20.2	[18.0 - 22.6]	16.6	[14.0 - 19.5]	0.75
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB000000000)	<i>Mycobacterium septicum</i> DSM 44393	17.7	[14.7 - 21.3]	20.2	[18.0 - 22.6]	17.4	[14.8 - 20.4]	2.37
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium paraseoulense</i> DSM 45000	16.0	[13.0 - 19.4]	20.2	[18.0 - 22.6]	15.9	[13.4 - 18.8]	0.06
'Mycobacterium intracellulare' (NZ_LZIO000000000)	<i>Mycobacterium aichiense</i> NCTC 10820	17.0	[13.9 - 20.5]	20.2	[18.0 - 22.6]	16.8	[14.2 - 19.7]	1.2
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP000000000)	<i>Mycobacterium neworleansense</i> ATCC 49404	17.7	[14.6 - 21.2]	20.2	[17.9 - 22.6]	17.4	[14.7 - 20.3]	2.05
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD000000000)	<i>Mycobacterium aichiense</i> NCTC 10820	16.9	[13.9 - 20.4]	20.2	[18.0 - 22.6]	16.7	[14.1 - 19.7]	1.22
'Mycobacterium sp. djl-10' (NZ_CP016640)	'Mycobacterium colombiense' (NZ_MBEO000000000)	15.9	[13.0 - 19.4]	20.2	[18.0 - 22.6]	15.9	[13.4 - 18.8]	0.39
'Mycobacterium chimaera' (NZ_LJHL000000000)	<i>Mycobacterium gilvum</i> NCTC 10742	16.0	[13.1 - 19.5]	20.2	[18.0 - 22.6]	16.0	[13.4 - 18.9]	0.01
'Mycobacterium sp. djl-10' (NZ_CP016640)	'Mycobacterium colombiense' (NZ_LZSX000000000)	15.8	[12.8 - 19.2]	20.2	[18.0 - 22.6]	15.8	[13.2 - 18.7]	0.72
'Mycobacterium colombiense' (NZ_LZLH000000000)	<i>Mycobacterium wolinskyi</i> ATCC 700010	16.2	[13.2 - 19.6]	20.2	[18.0 - 22.7]	16.1	[13.6 - 19.0]	1.09
'Mycobacterium sp. 455mf' (NZ_FOOB000000000)	<i>Mycobacterium bouchedurhonense</i> DSM 45439	17.1	[14.1 - 20.6]	20.2	[18.0 - 22.7]	16.9	[14.3 - 19.9]	1.96
'Mycobacterium colombiense' (NZ_MBEO000000000)	<i>Mycobacterium vaccae</i> ATCC 15483	17.2	[14.2 - 20.8]	20.2	[17.9 - 22.6]	17.0	[14.4 - 19.9]	1.04
'Mycobacterium sp. 455mf' (NZ_FOOB000000000)	<i>Mycobacterium paraseoulense</i> DSM 45000	16.2	[13.2 - 19.7]	20.2	[18.0 - 22.6]	16.1	[13.6 - 19.0]	1.26
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium houstonense</i> ATCC 49403	14.4	[11.6 - 17.8]	20.2	[18.0 - 22.6]	14.6	[12.2 - 17.5]	1.26
'Mycobacterium intracellulare' (NZ_LZIO000000000)	<i>Mycobacterium mageritense</i> CIP 104973	16.2	[13.3 - 19.7]	20.2	[18.0 - 22.6]	16.2	[13.6 - 19.1]	0.99
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB000000000)	<i>Mycobacterium neglectum</i> CECT 8778	16.0	[13.0 - 19.4]	20.2	[18.0 - 22.6]	15.9	[13.4 - 18.8]	3.75
'Mycobacterium colombiense' (NZ_LZSX000000000)	<i>Mycobacterium tokaiense</i> NCTC 10821	15.6	[12.7 - 19.1]	20.2	[18.0 - 22.6]	15.7	[13.1 - 18.6]	0.62

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium fortuitum</i> subsp. <i>acetamidolyticum</i> JCM 6368	17.1	[14.1 - 20.7]	20.2	[18.0 - 22.6]	16.9	[14.3 - 19.9]	3.08
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium mageritense</i> CIP 104973	16.0	[13.0 - 19.5]	20.2	[18.0 - 22.6]	16.0	[13.4 - 18.9]	0.7
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium wolinskyi</i> ATCC 700010	16.2	[13.2 - 19.7]	20.2	[18.0 - 22.6]	16.1	[13.6 - 19.1]	1.52
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	'Mycobacterium intracellulare' (NZ_LZIO00000000)	17.0	[13.9 - 20.5]	20.2	[18.0 - 22.6]	16.8	[14.2 - 19.7]	1.09
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium neglectum</i> CECT 8778	15.6	[12.6 - 19.0]	20.1	[17.9 - 22.6]	15.6	[13.1 - 18.5]	2.31
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium lehmannii</i> CECT 8763	16.9	[13.9 - 20.4]	20.1	[17.9 - 22.5]	16.7	[14.1 - 19.7]	0.78
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	'Mycobacterium chimaera' (NZ_MNAM00000000)	16.8	[13.8 - 20.3]	20.1	[17.9 - 22.5]	16.6	[14.0 - 19.6]	0.74
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	17.2	[14.2 - 20.8]	20.1	[17.9 - 22.5]	17.0	[14.4 - 19.9]	1.25
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium setense</i> DSM 45070	17.1	[14.0 - 20.6]	20.1	[17.9 - 22.5]	16.8	[14.3 - 19.8]	2.67
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium vaccae</i> ATCC 15483	16.9	[13.9 - 20.5]	20.1	[17.9 - 22.5]	16.8	[14.2 - 19.7]	1.37
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium nebraskense</i> DSM 44803	15.3	[12.4 - 18.8]	20.1	[17.9 - 22.5]	15.4	[12.9 - 18.3]	1.31
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium mageritense</i> CIP 104973	16.2	[13.2 - 19.6]	20.1	[17.9 - 22.5]	16.1	[13.6 - 19.0]	0.85
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium septicum</i> DSM 44393	16.8	[13.8 - 20.3]	20.1	[17.9 - 22.6]	16.7	[14.1 - 19.6]	1.23
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium fortuitum</i> DSM 46621	16.1	[13.1 - 19.6]	20.1	[17.9 - 22.5]	16.0	[13.5 - 18.9]	1.74
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium colombiense</i> CECT 3035	16.3	[13.3 - 19.8]	20.1	[17.9 - 22.6]	16.2	[13.7 - 19.2]	0.14
'Mycobacterium chimaera' (NZ_CP012885)	'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	17.1	[14.0 - 20.6]	20.1	[17.9 - 22.5]	16.8	[14.3 - 19.8]	0.95
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium neglectum</i> CECT 8778	15.5	[12.6 - 18.9]	20.1	[17.9 - 22.5]	15.5	[13.0 - 18.4]	2.25
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	'Mycobacterium kansasii' (NZ_LWCL00000000)	14.9	[12.0 - 18.3]	20.1	[17.9 - 22.5]	15.0	[12.6 - 17.9]	0.67
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium boenickei</i> CIP 107829	16.7	[13.7 - 20.2]	20.1	[17.9 - 22.5]	16.6	[14.0 - 19.5]	0.45
'Mycobacterium sp. 455mf' (NZ_FOQB00000000)	<i>Mycobacterium arosiense</i> DSM 45069	16.2	[13.3 - 19.7]	20.1	[17.8 - 22.5]	16.2	[13.6 - 19.1]	0.22

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium fortuitum</i> subsp. <i>acetamidolyticum</i> JCM 6368	15.9	[13.0 - 19.4]	20.1	[17.9 - 22.6]	15.9	[13.4 - 18.8]	1.94
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium syngnathidarum</i> 27335	17.4	[14.4 - 20.9]	20.1	[17.9 - 22.5]	17.1	[14.5 - 20.1]	1.73
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium peregrinum</i> DSM 43271	17.4	[14.4 - 21.0]	20.1	[17.9 - 22.5]	17.2	[14.6 - 20.1]	1.68
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium fortuitum</i> subsp. <i>acetamidolyticum</i> JCM 6368	16.9	[13.9 - 20.4]	20.1	[17.9 - 22.6]	16.7	[14.2 - 19.7]	1.92
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium gilvum</i> NCTC 10742	16.2	[13.3 - 19.7]	20.1	[17.9 - 22.5]	16.2	[13.6 - 19.1]	0.09
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium gilvum</i> NCTC 10742	16.8	[13.7 - 20.3]	20.1	[17.9 - 22.5]	16.6	[14.0 - 19.5]	0.46
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium gilvum</i> NCTC 10742	16.2	[13.2 - 19.7]	20.1	[17.9 - 22.5]	16.1	[13.6 - 19.0]	0.42
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium aichiense</i> NCTC 10820	16.7	[13.7 - 20.2]	20.1	[17.8 - 22.5]	16.5	[14.0 - 19.5]	0.85
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium neumannii</i> CECT 8766	17.4	[14.4 - 21.0]	20.1	[17.8 - 22.5]	17.1	[14.5 - 20.1]	1.31
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	<i>Mycobacterium gilvum</i> NCTC 10742	16.3	[13.3 - 19.8]	20.1	[17.9 - 22.5]	16.2	[13.7 - 19.2]	0.32
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium paraintracellulare</i> KCTC 29084	17.2	[14.2 - 20.7]	20.1	[17.9 - 22.5]	17.0	[14.4 - 19.9]	1.23
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium neglectum</i> CECT 8778	15.6	[12.7 - 19.1]	20.1	[17.9 - 22.5]	15.6	[13.1 - 18.5]	2.46
'Mycobacterium sp. 455mf' (NZ_FOQB00000000)	<i>Mycobacterium lacus</i> DSM 44577	15.2	[12.3 - 18.6]	20.1	[17.8 - 22.5]	15.3	[12.8 - 18.1]	0.28
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium intracellulare</i> subsp. <i>chimaera</i> DSM 44623	16.9	[13.9 - 20.4]	20.1	[17.9 - 22.5]	16.7	[14.1 - 19.7]	0.85
'Mycobacterium sp. 455mf' (NZ_FOQB00000000)	'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD00000000)	16.8	[13.8 - 20.3]	20.1	[17.9 - 22.5]	16.6	[14.0 - 19.5]	1.34
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium neworleansense</i> ATCC 49404	18.1	[15.0 - 21.7]	20.1	[17.8 - 22.5]	17.7	[15.1 - 20.7]	2.25
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	'Mycobacterium kansasii' (NZ_PQOU00000000)	14.9	[12.1 - 18.4]	20.1	[17.8 - 22.5]	15.1	[12.6 - 17.9]	0.75
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium fortuitum</i> DSM 46621	16.9	[13.9 - 20.5]	20.1	[17.9 - 22.6]	16.7	[14.2 - 19.7]	2.87
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium fortuitum</i> subsp. <i>acetamidolyticum</i> JCM 6368	16.3	[13.4 - 19.8]	20.1	[17.9 - 22.5]	16.2	[13.7 - 19.2]	2.09
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium neworleansense</i> ATCC 49404	17.0	[14.0 - 20.5]	20.1	[17.9 - 22.5]	16.8	[14.2 - 19.7]	1.1

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium sp. 455mf' (NZ_FO0B00000000)	<i>Mycobacterium microti</i> ATCC 19422	14.5	[11.6 - 17.9]	20.1	[17.9 - 22.5]	14.7	[12.2 - 17.5]	1.27
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium mageritense</i> CIP 104973	16.3	[13.3 - 19.8]	20.1	[17.9 - 22.5]	16.2	[13.7 - 19.1]	0.6
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium peregrinum</i> DSM 43271	16.0	[13.0 - 19.5]	20.1	[17.9 - 22.5]	16.0	[13.4 - 18.9]	1.54
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium fortuitum</i> DSM 46621	16.1	[13.2 - 19.6]	20.1	[17.9 - 22.5]	16.1	[13.5 - 19.0]	1.3
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium intracellulare</i> subsp. <i>yongonense</i> 05-1390	17.3	[14.2 - 20.8]	20.1	[17.8 - 22.5]	17.0	[14.4 - 20.0]	1.05
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium neumannii</i> CECT 8766	17.1	[14.1 - 20.6]	20.1	[17.9 - 22.5]	16.9	[14.3 - 19.8]	1.15
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium peregrinum</i> DSM 43271	15.8	[12.9 - 19.3]	20.1	[17.9 - 22.5]	15.8	[13.3 - 18.7]	1.39
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium peregrinum</i> DSM 43271	15.8	[12.9 - 19.3]	20.1	[17.8 - 22.5]	15.8	[13.3 - 18.7]	1.33
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium aichiense</i> NCTC 10820	17.3	[14.2 - 20.8]	20.1	[17.9 - 22.5]	17.0	[14.4 - 20.0]	0.81
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium mageritense</i> CIP 104973	16.4	[13.4 - 19.9]	20.1	[17.9 - 22.5]	16.3	[13.8 - 19.2]	1.15
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium aichiense</i> NCTC 10820	16.9	[13.9 - 20.4]	20.1	[17.8 - 22.5]	16.7	[14.1 - 19.7]	1.06
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium mageritense</i> CIP 104973	16.0	[13.0 - 19.4]	20.1	[17.9 - 22.5]	15.9	[13.4 - 18.8]	0.64
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium fortuitum</i> DSM 46621	16.2	[13.2 - 19.7]	20.1	[17.9 - 22.6]	16.1	[13.6 - 19.1]	1.88
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium intracellulare</i> ATCC 13950	17.2	[14.2 - 20.8]	20.1	[17.9 - 22.5]	17.0	[14.4 - 19.9]	1.25
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium wolinskyi</i> ATCC 700010	17.9	[14.8 - 21.4]	20.1	[17.9 - 22.5]	17.5	[14.9 - 20.5]	1.51
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium fortuitum</i> subsp. <i>acetamidolyticum</i> JCM 6368	16.2	[13.2 - 19.7]	20.1	[17.9 - 22.5]	16.1	[13.6 - 19.1]	1.93
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium aichiense</i> NCTC 10820	16.7	[13.7 - 20.2]	20.0	[17.8 - 22.4]	16.5	[14.0 - 19.5]	0.91
'Mycobacterium sp. 455mf' (NZ_FO0B00000000)	<i>Mycobacterium paraintracellulare</i> KCTC 29084	16.9	[13.8 - 20.4]	20.0	[17.8 - 22.4]	16.7	[14.1 - 19.6]	1.46
'Mycobacterium sp. 455mf' (NZ_FO0B00000000)	<i>Mycobacterium colombiense</i> CECT 3035	17.3	[14.2 - 20.8]	20.0	[17.7 - 22.4]	17.0	[14.4 - 20.0]	1.47
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium neumannii</i> CECT 8766	17.0	[14.0 - 20.5]	20.0	[17.8 - 22.4]	16.8	[14.2 - 19.7]	0.86
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium canariasense</i> CCUG 47953	14.6	[11.7 - 18.0]	20.0	[17.8 - 22.4]	14.7	[12.3 - 17.6]	1.49

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium angelicum</i> DSM 45057	15.0	[12.1 - 18.4]	20.0	[17.8 - 22.4]	15.1	[12.6 - 18.0]	1.66
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium aichiense</i> NCTC 10820	18.6	[15.5 - 22.2]	20.0	[17.8 - 22.4]	18.1	[15.5 - 21.1]	1.2
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium fortuitum</i> DSM 46621	14.6	[11.8 - 18.0]	20.0	[17.8 - 22.4]	14.8	[12.3 - 17.6]	0.12
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium novocastrense</i> JCM 18114	16.9	[13.9 - 20.4]	20.0	[17.7 - 22.4]	16.7	[14.1 - 19.6]	0.68
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium neworleansense</i> ATCC 49404	17.2	[14.1 - 20.7]	20.0	[17.8 - 22.4]	16.9	[14.3 - 19.9]	1.25
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium paraseoulense</i> DSM 45000	16.7	[13.7 - 20.2]	20.0	[17.8 - 22.4]	16.5	[14.0 - 19.5]	1.03
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium neumannii</i> CECT 8766	16.9	[13.9 - 20.5]	20.0	[17.8 - 22.4]	16.7	[14.2 - 19.7]	0.73
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium septicum</i> DSM 44393	16.8	[13.8 - 20.4]	20.0	[17.8 - 22.4]	16.7	[14.1 - 19.6]	0.79
'Mycobacterium sp. 455mf' (NZ_FOQB00000000)	<i>Mycobacterium kansasii</i> ATCC 12478	14.7	[11.9 - 18.2]	20.0	[17.8 - 22.4]	14.9	[12.4 - 17.7]	0.39
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium novocastrense</i> JCM 18114	17.2	[14.1 - 20.7]	20.0	[17.8 - 22.4]	16.9	[14.3 - 19.9]	0.71
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium lehmannii</i> CECT 8763	16.9	[13.9 - 20.4]	20.0	[17.8 - 22.4]	16.7	[14.1 - 19.6]	1.2
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium septicum</i> DSM 44393	14.7	[11.9 - 18.1]	20.0	[17.8 - 22.4]	14.9	[12.4 - 17.7]	0.63
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium nebraskense</i> DSM 44803	15.8	[12.8 - 19.2]	20.0	[17.8 - 22.4]	15.8	[13.2 - 18.7]	0.23
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium neumannii</i> CECT 8766	17.1	[14.0 - 20.6]	20.0	[17.8 - 22.4]	16.8	[14.2 - 19.8]	0.8
'Mycobacterium sp. 455mf' (NZ_FOQB00000000)	<i>Mycobacterium bovis</i> ATCC 19210	14.4	[11.6 - 17.8]	20.0	[17.8 - 22.4]	14.6	[12.2 - 17.5]	1.06
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium setense</i> DSM 45070	18.5	[15.4 - 22.1]	20.0	[17.8 - 22.4]	18.0	[15.4 - 21.0]	0.43
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium boenickei</i> CIP 107829	14.9	[12.1 - 18.4]	20.0	[17.8 - 22.4]	15.1	[12.6 - 17.9]	0.67
'Mycobacterium sp. 455mf' (NZ_FOQB00000000)	<i>Mycobacterium intracellulare</i> ATCC 13950	16.8	[13.8 - 20.3]	20.0	[17.8 - 22.4]	16.6	[14.1 - 19.6]	1.48
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium tokaiense</i> NCTC 10821	16.1	[13.1 - 19.6]	20.0	[17.8 - 22.4]	16.0	[13.5 - 19.0]	0.3
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	'Mycobacterium sp. 455mf' (NZ_FOQB00000000)	16.8	[13.8 - 20.3]	20.0	[17.8 - 22.4]	16.6	[14.1 - 19.6]	1.48
'Mycobacterium avium subsp. hominissuis' (NZ_BDOP00000000)	<i>Mycobacterium setense</i> DSM 45070	16.8	[13.8 - 20.3]	20.0	[17.8 - 22.4]	16.6	[14.1 - 19.6]	2.47
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium septicum</i> DSM 44393	17.0	[13.9 - 20.5]	20.0	[17.8 - 22.4]	16.8	[14.2 - 19.7]	1.21

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium sp. djl-10' (NZ_CP016640)	'Mycobacterium kansasii' (NZ_PQOU00000000)	14.7	[11.9 - 18.1]	20.0	[17.8 - 22.4]	14.9	[12.4 - 17.7]	1.84
'Mycobacterium avium subsp. hominissuis' (NZ_BDOB00000000)	<i>Mycobacterium synnathidarum</i> 27335	17.0	[14.0 - 20.5]	20.0	[17.8 - 22.5]	16.8	[14.2 - 19.7]	2.88
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium mageritense</i> CIP 104973	16.2	[13.2 - 19.7]	20.0	[17.8 - 22.4]	16.1	[13.6 - 19.1]	0.27
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium szulgai</i> DSM 44166	14.6	[11.8 - 18.0]	20.0	[17.8 - 22.4]	14.8	[12.3 - 17.6]	2.09
'Mycobacterium sp. 455mf' (NZ_FOOB00000000)	'Mycobacterium kansasii' (NZ_LWCL00000000)	14.8	[11.9 - 18.2]	20.0	[17.8 - 22.4]	14.9	[12.4 - 17.8]	0.43
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium lehmannii</i> CECT 8763	17.0	[14.0 - 20.5]	20.0	[17.8 - 22.4]	16.8	[14.2 - 19.7]	0.91
'Mycobacterium colombiense' (NZ_MBE00000000)	<i>Mycobacterium lehmannii</i> CECT 8763	17.4	[14.4 - 21.0]	20.0	[17.8 - 22.4]	17.2	[14.5 - 20.1]	0.81
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium novocastrense</i> JCM 18114	17.3	[14.3 - 20.8]	20.0	[17.8 - 22.4]	17.0	[14.4 - 20.0]	1.09
'Mycobacterium sp. 455mf' (NZ_FOOB00000000)	<i>Mycobacterium neumannii</i> CECT 8766	19.3	[16.1 - 22.9]	20.0	[17.8 - 22.4]	18.6	[16.0 - 21.6]	0.17
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium setense</i> DSM 45070	17.4	[14.4 - 21.0]	20.0	[17.8 - 22.5]	17.2	[14.6 - 20.1]	1.51
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium lehmannii</i> CECT 8763	17.2	[14.1 - 20.7]	20.0	[17.8 - 22.4]	16.9	[14.3 - 19.9]	1.37
'Mycobacterium sp. 455mf' (NZ_FOOB00000000)	<i>Mycobacterium marseillense</i> DSM 45437	16.6	[13.6 - 20.1]	20.0	[17.8 - 22.4]	16.4	[13.9 - 19.4]	1.1
'Mycobacterium sp. 455mf' (NZ_FOOB00000000)	'Mycobacterium kansasii' (NZ_PQOU00000000)	14.8	[11.9 - 18.2]	20.0	[17.8 - 22.4]	14.9	[12.4 - 17.8]	0.52
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium neumannii</i> CECT 8766	17.3	[14.3 - 20.8]	20.0	[17.8 - 22.4]	17.0	[14.4 - 20.0]	1.01
'Mycobacterium sp. 455mf' (NZ_FOOB00000000)	<i>Mycobacterium intracellulare</i> subsp. <i>chimaera</i> DSM 44623	16.7	[13.7 - 20.2]	19.9	[17.7 - 22.3]	16.6	[14.0 - 19.5]	1.08
'Mycobacterium sp. 455mf' (NZ_FOOB00000000)	<i>Mycobacterium gastris</i> DSM 43505	15.1	[12.2 - 18.5]	19.9	[17.7 - 22.3]	15.2	[12.7 - 18.0]	0.41
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium septicum</i> DSM 44393	16.8	[13.8 - 20.3]	19.9	[17.7 - 22.3]	16.6	[14.1 - 19.6]	0.49
'Mycobacterium sp. djl-10' (NZ_CP016640)	'Mycobacterium kansasii' (NZ_LWCL00000000)	14.8	[11.9 - 18.2]	19.9	[17.7 - 22.3]	14.9	[12.4 - 17.8]	1.76
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium lacus</i> DSM 44577	14.9	[12.0 - 18.3]	19.9	[17.7 - 22.3]	15.0	[12.6 - 17.9]	1.04
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium innocens</i> MK13	14.9	[12.0 - 18.3]	19.9	[17.7 - 22.3]	15.0	[12.6 - 17.9]	1.83
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium fortuitum</i> DSM 46621	14.6	[11.7 - 18.0]	19.9	[17.7 - 22.3]	14.7	[12.3 - 17.6]	0.04
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium canariasense</i> CCUG 47953	14.4	[11.6 - 17.8]	19.9	[17.7 - 22.3]	14.6	[12.2 - 17.4]	2.1



Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium novocastrense</i> JCM 18114	14.5	[11.7 - 17.9]	19.9	[17.7 - 22.3]	14.7	[12.3 - 17.6]	1.24
'Mycobacterium sp. 455mf' (NZ_FO0B00000000)	<i>Mycobacterium persicum</i> DSM 104278	14.9	[12.0 - 18.3]	19.9	[17.7 - 22.3]	15.0	[12.5 - 17.9]	0.42
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium neworleansense</i> ATCC 49404	17.0	[13.9 - 20.5]	19.9	[17.7 - 22.3]	16.8	[14.2 - 19.7]	0.37
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium canariasense</i> CCUG 47953	14.5	[11.7 - 17.9]	19.9	[17.7 - 22.3]	14.7	[12.2 - 17.6]	1.4
'Mycobacterium sp. 455mf' (NZ_FO0B00000000)	<i>Mycobacterium tuberculosis</i> H37Rv	14.5	[11.7 - 17.9]	19.9	[17.7 - 22.3]	14.7	[12.2 - 17.5]	1.0
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium novocastrense</i> JCM 18114	16.6	[13.6 - 20.1]	19.9	[17.7 - 22.3]	16.5	[13.9 - 19.4]	0.38
'Mycobacterium sp. 455mf' (NZ_FO0B00000000)	'Mycobacterium colombiense' (NZ_LZLH00000000)	16.7	[13.7 - 20.2]	19.9	[17.7 - 22.3]	16.5	[14.0 - 19.5]	0.9
'Mycobacterium sp. 455mf' (NZ_FO0B00000000)	'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	14.5	[11.7 - 17.9]	19.9	[17.7 - 22.3]	14.7	[12.2 - 17.5]	1.01
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium septicum</i> DSM 44393	16.7	[13.7 - 20.2]	19.9	[17.7 - 22.3]	16.6	[14.0 - 19.5]	0.92
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium novocastrense</i> JCM 18114	15.1	[12.2 - 18.5]	19.9	[17.7 - 22.3]	15.2	[12.7 - 18.1]	0.66
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium septicum</i> DSM 44393	17.2	[14.1 - 20.7]	19.9	[17.7 - 22.3]	16.9	[14.3 - 19.9]	1.37
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium fortuitum</i> DSM 46621	16.1	[13.1 - 19.6]	19.9	[17.7 - 22.3]	16.0	[13.5 - 19.0]	1.43
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium mageritense</i> CIP 104973	14.6	[11.8 - 18.0]	19.9	[17.7 - 22.3]	14.8	[12.3 - 17.6]	0.85
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium fortuitum</i> DSM 46621	16.4	[13.4 - 19.9]	19.9	[17.7 - 22.3]	16.3	[13.7 - 19.2]	1.33
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium kansasii</i> ATCC 12478	14.8	[11.9 - 18.2]	19.9	[17.7 - 22.3]	14.9	[12.4 - 17.8]	1.71
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium setense</i> DSM 45070	16.6	[13.6 - 20.1]	19.9	[17.7 - 22.3]	16.4	[13.9 - 19.4]	1.52
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium canariasense</i> CCUG 47953	14.4	[11.6 - 17.8]	19.9	[17.7 - 22.3]	14.6	[12.1 - 17.4]	1.89
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium novocastrense</i> JCM 18114	14.6	[11.7 - 18.0]	19.9	[17.7 - 22.3]	14.7	[12.3 - 17.6]	1.22
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	'Mycobacterium colombiense' (NZ_LZLH00000000)	17.2	[14.2 - 20.8]	19.9	[17.7 - 22.4]	17.0	[14.4 - 19.9]	0.67
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium septicum</i> DSM 44393	16.8	[13.7 - 20.3]	19.9	[17.7 - 22.3]	16.6	[14.0 - 19.5]	0.86
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium tokaiense</i> NCTC 10821	14.6	[11.8 - 18.0]	19.9	[17.7 - 22.3]	14.8	[12.3 - 17.6]	1.66

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium lehmannii</i> CECT 8763	16.9	[13.9 - 20.4]	19.9	[17.7 - 22.3]	16.7	[14.1 - 19.6]	0.85
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium peregrinum</i> DSM 43271	14.4	[11.6 - 17.8]	19.9	[17.7 - 22.3]	14.6	[12.1 - 17.4]	0.16
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium tokaiense</i> NCTC 10821	14.6	[11.8 - 18.0]	19.9	[17.7 - 22.3]	14.8	[12.3 - 17.6]	1.74
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium persicum</i> DSM 104278	15.0	[12.2 - 18.5]	19.9	[17.7 - 22.3]	15.1	[12.7 - 18.0]	0.65
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	14.6	[11.8 - 18.0]	19.9	[17.6 - 22.3]	14.8	[12.3 - 17.6]	1.25
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium septicum</i> DSM 44393	17.0	[14.0 - 20.5]	19.9	[17.7 - 22.3]	16.8	[14.2 - 19.7]	1.08
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium neumannii</i> CECT 8766	15.0	[12.1 - 18.4]	19.9	[17.7 - 22.3]	15.1	[12.6 - 18.0]	0.69
'Mycobacterium sp. 455mf' (NZ_FO0B00000000)	<i>Mycobacterium caprae</i> ATCC BAA-824	14.5	[11.7 - 17.9]	19.9	[17.7 - 22.3]	14.7	[12.2 - 17.6]	1.04
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium neworleansense</i> ATCC 49404	17.2	[14.1 - 20.7]	19.9	[17.6 - 22.3]	16.9	[14.3 - 19.9]	0.67
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium mageritense</i> CIP 104973	14.6	[11.7 - 18.0]	19.9	[17.7 - 22.3]	14.7	[12.3 - 17.6]	0.77
'Mycobacterium sp. 455mf' (NZ_FO0B00000000)	'Mycobacterium tuberculosis' (NZ_FPVV00000000)	14.5	[11.7 - 17.9]	19.9	[17.7 - 22.4]	14.7	[12.2 - 17.5]	1.02
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium syngnathidarum</i> 27335	16.3	[13.4 - 19.8]	19.9	[17.7 - 22.3]	16.2	[13.7 - 19.2]	1.59
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium syngnathidarum</i> 27335	16.3	[13.3 - 19.8]	19.9	[17.7 - 22.3]	16.2	[13.7 - 19.1]	1.01
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium kansasii</i> ATCC 12478	14.9	[12.1 - 18.4]	19.9	[17.7 - 22.3]	15.0	[12.6 - 17.9]	0.62
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium lacus</i> DSM 44577	15.5	[12.6 - 18.9]	19.9	[17.7 - 22.4]	15.5	[13.0 - 18.4]	0.05
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium tokaiense</i> NCTC 10821	16.8	[13.8 - 20.4]	19.9	[17.7 - 22.3]	16.7	[14.1 - 19.6]	0.99
'Mycobacterium sp. 455mf' (NZ_FO0B00000000)	<i>Mycobacterium africanum</i> ATCC 25420	14.5	[11.7 - 17.9]	19.9	[17.7 - 22.3]	14.7	[12.2 - 17.5]	1.07
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium pseudokansasii</i> MK142	14.7	[11.9 - 18.1]	19.9	[17.7 - 22.3]	14.9	[12.4 - 17.7]	1.72
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium neworleansense</i> ATCC 49404	16.9	[13.9 - 20.5]	19.9	[17.7 - 22.3]	16.7	[14.1 - 19.7]	0.96
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium fortuitum</i> DSM 46621	16.2	[13.3 - 19.7]	19.9	[17.7 - 22.3]	16.1	[13.6 - 19.1]	1.0
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium fortuitum</i> subsp. <i>acetamidolyticum</i> JCM 6368	15.9	[13.0 - 19.4]	19.9	[17.7 - 22.3]	15.9	[13.4 - 18.8]	1.63
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium fortuitum</i> DSM 46621	16.2	[13.2 - 19.7]	19.9	[17.7 - 22.4]	16.1	[13.5 - 19.0]	1.58

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium peregrinum</i> DSM 43271	16.3	[13.3 - 19.8]	19.9	[17.7 - 22.3]	16.2	[13.7 - 19.1]	1.26
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium microti</i> ATCC 19422	14.6	[11.8 - 18.0]	19.9	[17.7 - 22.3]	14.8	[12.3 - 17.6]	1.51
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium aichiense</i> NCTC 10820	17.2	[14.2 - 20.8]	19.9	[17.7 - 22.3]	17.0	[14.4 - 19.9]	0.78
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium neworleansense</i> ATCC 49404	16.7	[13.7 - 20.2]	19.9	[17.7 - 22.3]	16.5	[14.0 - 19.5]	0.8
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium fortuitum</i> subsp. <i>acetamidolyticum</i> JCM 6368	16.0	[13.0 - 19.5]	19.9	[17.7 - 22.3]	15.9	[13.4 - 18.9]	1.5
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium novocastrense</i> JCM 18114	14.5	[11.7 - 17.9]	19.9	[17.7 - 22.3]	14.7	[12.2 - 17.5]	1.25
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium attenuatum</i> MK41	14.5	[11.7 - 17.9]	19.9	[17.7 - 22.3]	14.7	[12.2 - 17.5]	2.15
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium canariense</i> CCUG 47953	14.4	[11.6 - 17.8]	19.9	[17.7 - 22.3]	14.6	[12.1 - 17.4]	1.82
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium fortuitum</i> DSM 46621	16.0	[13.1 - 19.5]	19.9	[17.7 - 22.3]	16.0	[13.4 - 18.9]	1.37
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium syngnathidarum</i> 27335	16.2	[13.2 - 19.7]	19.9	[17.7 - 22.3]	16.1	[13.6 - 19.1]	1.31
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium setense</i> DSM 45070	16.2	[13.2 - 19.7]	19.9	[17.7 - 22.3]	16.1	[13.5 - 19.0]	1.1
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium septicum</i> DSM 44393	14.7	[11.8 - 18.1]	19.9	[17.7 - 22.3]	14.8	[12.4 - 17.7]	0.55
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium neworleansense</i> ATCC 49404	16.7	[13.7 - 20.2]	19.9	[17.7 - 22.3]	16.6	[14.0 - 19.5]	0.74
'Mycobacterium sp. 455mf' (NZ_FO0B00000000)	<i>Mycobacterium intracellulare</i> subsp. <i>yongonense</i> 05-1390	17.1	[14.0 - 20.6]	19.9	[17.7 - 22.3]	16.8	[14.2 - 19.8]	1.29
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium neumannii</i> CECT 8766	16.7	[13.7 - 20.2]	19.9	[17.7 - 22.3]	16.6	[14.0 - 19.5]	0.43
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium fortuitum</i> subsp. <i>acetamidolyticum</i> JCM 6368	15.9	[12.9 - 19.3]	19.9	[17.7 - 22.3]	15.8	[13.3 - 18.8]	1.57
'Mycobacterium sp. djl-10' (NZ_CP016640)	'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	16.9	[13.9 - 20.4]	19.9	[17.7 - 22.3]	16.7	[14.1 - 19.6]	1.09
'Mycobacterium sp. 455mf' (NZ_FO0B00000000)	<i>Mycobacterium pinnipedii</i> ATCC BAA-688	14.5	[11.7 - 17.9]	19.9	[17.7 - 22.4]	14.7	[12.2 - 17.5]	1.02
'Mycobacterium sp. 455mf' (NZ_FO0B00000000)	'Mycobacterium tuberculosis' (NZ_MMLR00000000)	14.5	[11.7 - 17.9]	19.9	[17.7 - 22.3]	14.7	[12.2 - 17.5]	1.0
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium boenickei</i> CIP 107829	14.9	[12.1 - 18.4]	19.9	[17.7 - 22.3]	15.1	[12.6 - 17.9]	0.59
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium setense</i> DSM 45070	16.3	[13.3 - 19.8]	19.9	[17.7 - 22.3]	16.2	[13.7 - 19.1]	0.8
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium neumannii</i> CECT 8766	17.1	[14.1 - 20.7]	19.9	[17.7 - 22.3]	16.9	[14.3 - 19.8]	1.15

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium intracellulare' (NZ_LZIO00000000)	<i>Mycobacterium syngnathidarum</i> 27335	16.4	[13.5 - 19.9]	19.9	[17.7 - 22.3]	16.3	[13.8 - 19.2]	1.73
'Mycobacterium sp. 455mf' (NZ_FOOB00000000)	<i>Mycobacterium innocens</i> MK13	15.0	[12.1 - 18.4]	19.9	[17.7 - 22.3]	15.1	[12.6 - 17.9]	0.51
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium novocastrense</i> JCM 18114	15.1	[12.2 - 18.5]	19.9	[17.7 - 22.3]	15.2	[12.7 - 18.1]	0.74
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium aichiense</i> NCTC 10820	17.0	[14.0 - 20.5]	19.9	[17.7 - 22.3]	16.8	[14.2 - 19.7]	0.48
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium lehmannii</i> CECT 8763	16.8	[13.8 - 20.3]	19.8	[17.6 - 22.2]	16.6	[14.0 - 19.5]	0.48
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium marinum</i> CCUG 20998	14.6	[11.8 - 18.0]	19.8	[17.6 - 22.2]	14.8	[12.3 - 17.6]	1.13
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium neworleansense</i> ATCC 49404	17.3	[14.3 - 20.9]	19.8	[17.6 - 22.2]	17.0	[14.4 - 20.0]	0.7
'Mycobacterium marinum' (NZ_CP025779)	'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	14.6	[11.8 - 18.0]	19.8	[17.6 - 22.2]	14.8	[12.3 - 17.6]	1.15
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium wolinskyi</i> ATCC 700010	14.6	[11.8 - 18.0]	19.8	[17.6 - 22.2]	14.8	[12.3 - 17.6]	0.32
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium neumannii</i> CECT 8766	17.4	[14.3 - 20.9]	19.8	[17.6 - 22.2]	17.1	[14.5 - 20.0]	0.76
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium neumannii</i> CECT 8766	14.7	[11.9 - 18.1]	19.8	[17.6 - 22.2]	14.9	[12.4 - 17.7]	1.17
'Mycobacterium sp. 455mf' (NZ_FOOB00000000)	'Mycobacterium chimaera' (NZ_MNAM00000000)	16.6	[13.6 - 20.1]	19.8	[17.6 - 22.2]	16.5	[13.9 - 19.4]	0.97
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium neumannii</i> CECT 8766	14.7	[11.9 - 18.1]	19.8	[17.6 - 22.2]	14.9	[12.4 - 17.7]	1.18
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium bovis</i> ATCC 19210	14.6	[11.7 - 18.0]	19.8	[17.6 - 22.2]	14.7	[12.3 - 17.6]	1.29
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium boenickei</i> CIP 107829	14.8	[11.9 - 18.2]	19.8	[17.6 - 22.2]	14.9	[12.5 - 17.8]	1.17
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium neumannii</i> CECT 8766	14.7	[11.9 - 18.1]	19.8	[17.6 - 22.2]	14.9	[12.4 - 17.7]	1.19
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium syngnathidarum</i> 27335	16.6	[13.6 - 20.1]	19.8	[17.6 - 22.2]	16.5	[13.9 - 19.4]	1.89
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium lehmannii</i> CECT 8763	14.6	[11.8 - 18.0]	19.8	[17.6 - 22.2]	14.8	[12.3 - 17.6]	1.14
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium pseudokansasii</i> MK142	15.0	[12.2 - 18.5]	19.8	[17.6 - 22.2]	15.1	[12.6 - 18.0]	0.63
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium lehmannii</i> CECT 8763	14.6	[11.8 - 18.0]	19.8	[17.6 - 22.2]	14.8	[12.3 - 17.6]	1.13
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium peregrinum</i> DSM 43271	16.3	[13.3 - 19.7]	19.8	[17.6 - 22.2]	16.2	[13.6 - 19.1]	0.96

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium sp. 455mf' (NZ_FO0B00000000)	'Mycobacterium chimaera' (NZ_LJHL00000000)	16.6	[13.6 - 20.1]	19.8	[17.6 - 22.2]	16.4	[13.9 - 19.4]	1.03
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium arosiense</i> DSM 45069	16.2	[13.2 - 19.7]	19.8	[17.6 - 22.2]	16.1	[13.6 - 19.0]	0.01
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium boenickei</i> CIP 107829	14.7	[11.8 - 18.1]	19.8	[17.6 - 22.2]	14.8	[12.4 - 17.7]	1.0
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	'Mycobacterium marinum' (NZ_PQBM00000000)	14.7	[11.8 - 18.1]	19.8	[17.6 - 22.2]	14.8	[12.3 - 17.7]	1.37
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	'Mycobacterium colombiense' (NZ_MBEO00000000)	17.6	[14.6 - 21.2]	19.8	[17.6 - 22.2]	17.3	[14.7 - 20.3]	0.7
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium neumannii</i> CECT 8766	15.0	[12.1 - 18.4]	19.8	[17.6 - 22.2]	15.1	[12.6 - 18.0]	0.61
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	'Mycobacterium kansasii' (NZ_NKRE00000000)	15.1	[12.2 - 18.5]	19.8	[17.6 - 22.2]	15.2	[12.7 - 18.1]	0.66
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium boenickei</i> CIP 107829	15.2	[12.3 - 18.6]	19.8	[17.6 - 22.2]	15.2	[12.7 - 18.1]	0.58
'Mycobacterium chimaera' (NZ_CP012885)	'Mycobacterium sp. 455mf' (NZ_FO0B00000000)	16.8	[13.8 - 20.4]	19.8	[17.6 - 22.2]	16.6	[14.1 - 19.6]	1.19
'Mycobacterium marinum E11' (NZ_HG917972)	'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	14.6	[11.8 - 18.0]	19.8	[17.6 - 22.2]	14.8	[12.3 - 17.7]	1.08
'Mycobacterium sp. 455mf' (NZ_FO0B00000000)	<i>Mycobacterium neglectum</i> CECT 8778	17.9	[14.9 - 21.5]	19.8	[17.6 - 22.2]	17.5	[14.9 - 20.5]	1.27
'Mycobacterium sp. 455mf' (NZ_FO0B00000000)	<i>Mycobacterium angelicum</i> DSM 45057	15.4	[12.5 - 18.9]	19.8	[17.6 - 22.2]	15.5	[13.0 - 18.4]	0.34
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium pinnipedii</i> ATCC BAA-688	14.7	[11.8 - 18.1]	19.8	[17.6 - 22.2]	14.8	[12.4 - 17.7]	1.25
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium caprae</i> ATCC BAA-824	14.5	[11.7 - 17.9]	19.8	[17.6 - 22.2]	14.7	[12.2 - 17.5]	2.36
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium syngnathidarum</i> 27335	18.8	[15.7 - 22.4]	19.8	[17.6 - 22.2]	18.2	[15.6 - 21.2]	0.64
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium microti</i> ATCC 19422	14.5	[11.6 - 17.9]	19.8	[17.6 - 22.2]	14.6	[12.2 - 17.5]	2.6
'Mycobacterium sp. 455mf' (NZ_FO0B00000000)	<i>Mycobacterium decipiens</i> TBL 1200985	14.9	[12.0 - 18.3]	19.8	[17.6 - 22.2]	15.0	[12.5 - 17.8]	1.1
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium canariasense</i> CCUG 47953	14.9	[12.0 - 18.3]	19.8	[17.6 - 22.2]	15.0	[12.5 - 17.9]	1.4
'Mycobacterium intracellulare ATCC 13950' (NC_016946)	<i>Mycobacterium setense</i> DSM 45070	16.6	[13.6 - 20.1]	19.8	[17.6 - 22.2]	16.5	[13.9 - 19.4]	1.68
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium wolinskyi</i> ATCC 700010	14.3	[11.5 - 17.7]	19.8	[17.6 - 22.2]	14.5	[12.1 - 17.4]	0.81
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium wolinskyi</i> ATCC 700010	14.3	[11.5 - 17.7]	19.8	[17.6 - 22.2]	14.5	[12.1 - 17.4]	0.83

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD000000000)	<i>Mycobacterium setense</i> DSM 45070	16.4	[13.4 - 19.9]	19.8	[17.6 - 22.3]	16.3	[13.8 - 19.2]	1.54
'Mycobacterium kansasii' (NZ_PQOU000000000)	<i>Mycobacterium lehmannii</i> CECT 8763	15.0	[12.1 - 18.4]	19.8	[17.6 - 22.2]	15.1	[12.6 - 17.9]	0.64
'Mycobacterium colombiense' (NZ_LZSX000000000)	<i>Mycobacterium neglectum</i> CECT 8778	15.4	[12.5 - 18.9]	19.8	[17.6 - 22.2]	15.5	[13.0 - 18.4]	1.88
'Mycobacterium sp. GA-1199' (NZ_LQIX000000000)	<i>Mycobacterium gastri</i> DSM 43505	15.3	[12.4 - 18.7]	19.8	[17.6 - 22.2]	15.4	[12.9 - 18.2]	0.65
'Mycobacterium chimaera' (NZ_LJHL000000000)	<i>Mycobacterium syngnathidarum</i> 27335	16.1	[13.1 - 19.5]	19.8	[17.6 - 22.2]	16.0	[13.5 - 18.9]	1.44
'Mycobacterium sp. 455mf' (NZ_FOQB000000000)	'Mycobacterium kansasii' (NZ_NKRE000000000)	15.0	[12.1 - 18.4]	19.8	[17.6 - 22.2]	15.1	[12.6 - 17.9]	0.43
'Mycobacterium kansasii' (NZ_PQOU000000000)	<i>Mycobacterium fortuitum</i> subsp. <i>acetamidolyticum</i> JCM 6368	14.7	[11.8 - 18.1]	19.8	[17.6 - 22.2]	14.8	[12.3 - 17.7]	0.08
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER000000000)	<i>Mycobacterium wolinskyi</i> ATCC 700010	14.3	[11.5 - 17.7]	19.8	[17.6 - 22.2]	14.5	[12.1 - 17.4]	0.82
'Mycobacterium kansasii' (NZ_NKRE000000000)	<i>Mycobacterium novocastrense</i> JCM 18114	15.0	[12.1 - 18.4]	19.8	[17.6 - 22.2]	15.1	[12.6 - 17.9]	0.66
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium gastri</i> DSM 43505	14.9	[12.0 - 18.3]	19.8	[17.6 - 22.2]	15.0	[12.5 - 17.9]	1.73
'Mycobacterium sp. GA-1199' (NZ_LQIX000000000)	'Mycobacterium tuberculosis' (NZ_MMLR000000000)	14.7	[11.8 - 18.1]	19.8	[17.6 - 22.2]	14.8	[12.3 - 17.7]	1.23
'Mycobacterium kansasii' (NZ_LWCL000000000)	<i>Mycobacterium peregrinum</i> DSM 43271	14.4	[11.6 - 17.8]	19.8	[17.6 - 22.2]	14.6	[12.2 - 17.5]	0.08
'Mycobacterium kansasii' (NZ_NKRE000000000)	<i>Mycobacterium mageritense</i> CIP 104973	14.8	[11.9 - 18.2]	19.8	[17.6 - 22.2]	14.9	[12.4 - 17.8]	0.76
'Mycobacterium sp. GA-1199' (NZ_LQIX000000000)	<i>Mycobacterium tuberculosis</i> H37Rv	14.7	[11.8 - 18.1]	19.8	[17.6 - 22.2]	14.8	[12.3 - 17.7]	1.23
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium boenickei</i> CIP 107829	14.7	[11.8 - 18.1]	19.8	[17.6 - 22.2]	14.8	[12.3 - 17.7]	1.07
'Mycobacterium kansasii' (NZ_LWCL000000000)	<i>Mycobacterium lehmannii</i> CECT 8763	15.0	[12.1 - 18.4]	19.8	[17.6 - 22.2]	15.1	[12.6 - 18.0]	0.55
'Mycobacterium colombiense' (NZ_MBEO000000000)	<i>Mycobacterium syngnathidarum</i> 27335	16.3	[13.3 - 19.8]	19.8	[17.6 - 22.2]	16.2	[13.6 - 19.1]	1.34
'Mycobacterium marinum' (NZ_PQBM000000000)	<i>Mycobacterium boenickei</i> CIP 107829	14.7	[11.8 - 18.1]	19.8	[17.6 - 22.2]	14.8	[12.4 - 17.7]	1.28
'Mycobacterium tuberculosis' (NZ_MMLR000000000)	<i>Mycobacterium lehmannii</i> CECT 8763	14.6	[11.8 - 18.0]	19.8	[17.6 - 22.2]	14.8	[12.3 - 17.6]	1.12
'Mycobacterium sp. 455mf' (NZ_FOQB000000000)	'Mycobacterium colombiense' (NZ_MBEO000000000)	17.2	[14.1 - 20.7]	19.8	[17.6 - 22.2]	16.9	[14.3 - 19.9]	0.93
'Mycobacterium sp. 455mf' (NZ_FOQB000000000)	<i>Mycobacterium attenuatum</i> MK41	14.6	[11.7 - 18.0]	19.8	[17.6 - 22.2]	14.7	[12.3 - 17.6]	0.83
'Mycobacterium sp. 455mf' (NZ_FOQB000000000)	'Mycobacterium colombiense' (NZ_LZSX000000000)	17.0	[14.0 - 20.6]	19.8	[17.6 - 22.2]	16.8	[14.2 - 19.8]	0.6

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium colombiense</i> CECT 3035	17.7	[14.6 - 21.2]	19.8	[17.6 - 22.2]	17.3	[14.7 - 20.3]	1.23
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	14.6	[11.8 - 18.1]	19.8	[17.6 - 22.2]	14.8	[12.3 - 17.7]	1.24
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium bovis</i> ATCC 19210	14.4	[11.6 - 17.8]	19.8	[17.6 - 22.2]	14.6	[12.1 - 17.4]	2.38
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium persicum</i> DSM 104278	14.8	[12.0 - 18.3]	19.8	[17.6 - 22.2]	15.0	[12.5 - 17.8]	1.74
'Mycobacterium sp. 455mf' (NZ_FO0B00000000)	<i>Mycobacterium pseudokansasii</i> MK142	14.9	[12.0 - 18.3]	19.7	[17.5 - 22.2]	15.0	[12.5 - 17.9]	0.4
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium boenickei</i> CIP 107829	14.8	[12.0 - 18.3]	19.7	[17.5 - 22.1]	15.0	[12.5 - 17.8]	1.15
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium peregrinum</i> DSM 43271	16.4	[13.4 - 19.9]	19.7	[17.5 - 22.1]	16.3	[13.7 - 19.2]	1.29
'Mycobacterium sp. djl-10' (NZ_CP016640)	'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	14.5	[11.7 - 17.9]	19.7	[17.5 - 22.1]	14.7	[12.2 - 17.6]	2.33
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium septicum</i> DSM 44393	15.0	[12.2 - 18.5]	19.7	[17.5 - 22.1]	15.1	[12.6 - 18.0]	0.54
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium fortuitum</i> DSM 46621	14.4	[11.5 - 17.8]	19.7	[17.5 - 22.1]	14.6	[12.1 - 17.4]	0.74
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium africanum</i> ATCC 25420	14.6	[11.7 - 18.0]	19.7	[17.5 - 22.1]	14.7	[12.3 - 17.6]	2.39
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium vaccae</i> ATCC 15483	15.1	[12.2 - 18.5]	19.7	[17.5 - 22.1]	15.2	[12.7 - 18.1]	2.49
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium aichiense</i> NCTC 10820	14.6	[11.8 - 18.0]	19.7	[17.5 - 22.1]	14.8	[12.3 - 17.6]	1.04
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium fortuitum</i> subsp. <i>acetamidolyticum</i> JCM 6368	14.7	[11.8 - 18.1]	19.7	[17.5 - 22.1]	14.8	[12.4 - 17.7]	0.17
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium setense</i> DSM 45070	14.4	[11.5 - 17.8]	19.7	[17.5 - 22.1]	14.6	[12.1 - 17.4]	0.82
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium aichiense</i> NCTC 10820	14.7	[11.8 - 18.1]	19.7	[17.5 - 22.1]	14.8	[12.3 - 17.7]	0.97
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium lehmannii</i> CECT 8763	14.7	[11.8 - 18.1]	19.7	[17.5 - 22.1]	14.8	[12.3 - 17.7]	1.25
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium setense</i> DSM 45070	14.4	[11.5 - 17.7]	19.7	[17.5 - 22.1]	14.5	[12.1 - 17.4]	0.83
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium canariense</i> CCUG 47953	14.6	[11.8 - 18.0]	19.7	[17.5 - 22.1]	14.8	[12.3 - 17.6]	1.99
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium setense</i> DSM 45070	14.4	[11.5 - 17.8]	19.7	[17.5 - 22.1]	14.6	[12.1 - 17.4]	0.8
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium tokaiense</i> NCTC 10821	14.5	[11.6 - 17.9]	19.7	[17.5 - 22.1]	14.6	[12.2 - 17.5]	2.24
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium boenickei</i> CIP 107829	14.8	[12.0 - 18.3]	19.7	[17.5 - 22.1]	15.0	[12.5 - 17.8]	1.16

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium neglectum</i> CECT 8778	15.9	[12.9 - 19.3]	19.7	[17.5 - 22.1]	15.8	[13.3 - 18.7]	2.21
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium canariense</i> CCUG 47953	14.7	[11.8 - 18.1]	19.7	[17.5 - 22.1]	14.8	[12.4 - 17.7]	1.98
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	'Mycobacterium colombiense' (NZ_LZSX00000000)	17.0	[14.0 - 20.6]	19.7	[17.5 - 22.1]	16.8	[14.2 - 19.8]	0.37
'Mycobacterium sp. 455mf' (NZ_FOQB00000000)	<i>Mycobacterium marinum</i> CCUG 20998	14.7	[11.8 - 18.1]	19.7	[17.5 - 22.1]	14.8	[12.3 - 17.7]	0.9
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium fortuitum</i> subsp. <i>acetamidolyticum</i> JCM 6368	16.2	[13.3 - 19.7]	19.7	[17.5 - 22.1]	16.1	[13.6 - 19.1]	1.53
'Mycobacterium marinum' (NZ_CP025779)	'Mycobacterium sp. 455mf' (NZ_FOQB00000000)	14.6	[11.8 - 18.0]	19.7	[17.5 - 22.1]	14.8	[12.3 - 17.6]	0.92
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium neworleansense</i> ATCC 49404	14.8	[11.9 - 18.2]	19.7	[17.5 - 22.1]	14.9	[12.4 - 17.8]	1.08
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium mageritense</i> CIP 104973	14.3	[11.5 - 17.7]	19.7	[17.5 - 22.1]	14.5	[12.1 - 17.3]	1.33
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium aichiense</i> NCTC 10820	18.7	[15.6 - 22.3]	19.7	[17.5 - 22.1]	18.1	[15.5 - 21.1]	0.11
'Mycobacterium sp. djl-10' (NZ_CP016640)	'Mycobacterium tuberculosis' (NZ_MMLR00000000)	14.5	[11.7 - 17.9]	19.7	[17.5 - 22.1]	14.7	[12.2 - 17.6]	2.32
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium africanum</i> ATCC 25420	14.7	[11.8 - 18.1]	19.7	[17.5 - 22.2]	14.8	[12.4 - 17.7]	1.3
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium setense</i> DSM 45070	16.6	[13.6 - 20.1]	19.7	[17.5 - 22.1]	16.4	[13.9 - 19.4]	1.12
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium peregrinum</i> DSM 43271	14.3	[11.5 - 17.7]	19.7	[17.5 - 22.1]	14.5	[12.1 - 17.3]	0.56
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium caprae</i> ATCC BAA-824	14.7	[11.8 - 18.1]	19.7	[17.5 - 22.1]	14.8	[12.4 - 17.7]	1.28
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium tokaiense</i> NCTC 10821	14.5	[11.6 - 17.9]	19.7	[17.5 - 22.1]	14.6	[12.2 - 17.5]	2.25
'Mycobacterium colombiense' (NZ_MBEO00000000)	<i>Mycobacterium septicum</i> DSM 44393	17.1	[14.1 - 20.7]	19.7	[17.5 - 22.1]	16.9	[14.3 - 19.8]	0.82
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium wolinskyi</i> ATCC 700010	14.9	[12.0 - 18.3]	19.7	[17.5 - 22.1]	15.0	[12.5 - 17.9]	0.24
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium pinnipedii</i> ATCC BAA-688	14.5	[11.7 - 17.9]	19.7	[17.5 - 22.1]	14.7	[12.2 - 17.6]	2.34
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium aichiense</i> NCTC 10820	14.7	[11.8 - 18.1]	19.7	[17.5 - 22.1]	14.8	[12.3 - 17.7]	1.26
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium fortuitum</i> DSM 46621	14.4	[11.6 - 17.8]	19.7	[17.5 - 22.0]	14.6	[12.1 - 17.4]	0.45
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium peregrinum</i> DSM 43271	14.3	[11.5 - 17.7]	19.7	[17.5 - 22.1]	14.5	[12.1 - 17.4]	0.78



Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium setense</i> DSM 45070	16.2	[13.2 - 19.7]	19.7	[17.5 - 22.1]	16.1	[13.6 - 19.0]	1.16
'Mycobacterium sp. 455mf' (NZ_FOQB00000000)	<i>Mycobacterium vulneris</i> DSM 45247	16.6	[13.6 - 20.1]	19.7	[17.5 - 22.1]	16.4	[13.9 - 19.4]	0.15
'Mycobacterium sp. 455mf' (NZ_FOQB00000000)	'Mycobacterium marinum E11' (NZ_HG917972)	14.7	[11.8 - 18.1]	19.7	[17.5 - 22.1]	14.8	[12.3 - 17.7]	0.85
'Mycobacterium sp. djl-10' (NZ_CP016640)	'Mycobacterium marinum E11' (NZ_HG917972)	14.5	[11.7 - 17.9]	19.7	[17.5 - 22.1]	14.7	[12.2 - 17.5]	2.17
'Mycobacterium sp. 455mf' (NZ_FOQB00000000)	<i>Mycobacterium nebraskense</i> DSM 44803	16.0	[13.0 - 19.5]	19.7	[17.5 - 22.1]	15.9	[13.4 - 18.8]	0.01
'Mycobacterium sp. djl-10' (NZ_CP016640)	'Mycobacterium marinum' (NZ_PQBM00000000)	14.5	[11.7 - 17.9]	19.7	[17.5 - 22.1]	14.7	[12.2 - 17.5]	2.45
'Mycobacterium chimaera' (NZ_MNAM00000000)	<i>Mycobacterium syngnathidarum</i> 27335	16.2	[13.2 - 19.7]	19.7	[17.5 - 22.1]	16.1	[13.5 - 19.0]	1.38
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium aichiense</i> NCTC 10820	14.9	[12.0 - 18.3]	19.7	[17.5 - 22.1]	15.0	[12.5 - 17.9]	0.64
'Mycobacterium chimaera' (NZ_CP012885)	<i>Mycobacterium setense</i> DSM 45070	16.3	[13.4 - 19.8]	19.7	[17.5 - 22.1]	16.2	[13.7 - 19.1]	1.38
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium neworleansense</i> ATCC 49404	15.0	[12.1 - 18.4]	19.7	[17.5 - 22.1]	15.1	[12.6 - 18.0]	0.75
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium wolinskyi</i> ATCC 700010	14.6	[11.8 - 18.0]	19.7	[17.5 - 22.1]	14.8	[12.3 - 17.6]	0.24
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium innocens</i> MK13	15.2	[12.3 - 18.6]	19.7	[17.5 - 22.1]	15.3	[12.8 - 18.2]	0.74
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium lehmannii</i> CECT 8763	14.6	[11.8 - 18.1]	19.7	[17.5 - 22.1]	14.8	[12.3 - 17.6]	0.97
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium tuberculosis</i> H37Rv	14.5	[11.7 - 17.9]	19.7	[17.5 - 22.1]	14.7	[12.2 - 17.5]	2.32
'Mycobacterium sp. djl-10' (NZ_CP016640)	'Mycobacterium tuberculosis' (NZ_FPVV00000000)	14.5	[11.7 - 17.9]	19.7	[17.5 - 22.1]	14.7	[12.2 - 17.5]	2.34
'Mycobacterium chimaera' (NZ_LJHL00000000)	<i>Mycobacterium setense</i> DSM 45070	16.2	[13.2 - 19.7]	19.7	[17.5 - 22.1]	16.1	[13.6 - 19.0]	1.23
'Mycobacterium sp. 455mf' (NZ_FOQB00000000)	'Mycobacterium marinum' (NZ_PQBM00000000)	14.7	[11.8 - 18.1]	19.7	[17.5 - 22.1]	14.8	[12.3 - 17.7]	1.13
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium neworleansense</i> ATCC 49404	14.8	[11.9 - 18.2]	19.7	[17.5 - 22.1]	14.9	[12.4 - 17.8]	1.36
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium pseudoshottsii</i> JCM 15466	14.5	[11.7 - 17.9]	19.7	[17.5 - 22.1]	14.7	[12.2 - 17.5]	2.22
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium neworleansense</i> ATCC 49404	14.7	[11.9 - 18.2]	19.7	[17.5 - 22.1]	14.9	[12.4 - 17.7]	1.15
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium septicum</i> DSM 44393	14.7	[11.9 - 18.1]	19.7	[17.5 - 22.1]	14.8	[12.4 - 17.7]	1.11
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium aichiense</i> NCTC 10820	14.9	[12.0 - 18.3]	19.7	[17.5 - 22.1]	15.0	[12.5 - 17.9]	0.56

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium tokaiense</i> NCTC 10821	14.5	[11.6 - 17.9]	19.7	[17.5 - 22.1]	14.6	[12.2 - 17.5]	2.22
'Mycobacterium colombiense' (NZ_LZSX00000000)	<i>Mycobacterium fortuitum</i> subsp. <i>acetamidolyticum</i> JCM 6368	16.1	[13.1 - 19.6]	19.7	[17.5 - 22.1]	16.0	[13.5 - 18.9]	1.2
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium fortuitum</i> DSM 46621	14.4	[11.5 - 17.8]	19.7	[17.5 - 22.1]	14.6	[12.1 - 17.4]	0.52
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium marseillense</i> DSM 45437	17.2	[14.2 - 20.7]	19.7	[17.5 - 22.1]	16.9	[14.3 - 19.9]	0.86
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium pseudoshottsii</i> JCM 15466	14.7	[11.8 - 18.1]	19.7	[17.5 - 22.1]	14.8	[12.4 - 17.7]	1.14
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium canariense</i> CCUG 47953	14.7	[11.8 - 18.1]	19.7	[17.5 - 22.1]	14.8	[12.3 - 17.7]	1.97
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium mageritense</i> CIP 104973	14.3	[11.5 - 17.7]	19.7	[17.5 - 22.1]	14.5	[12.0 - 17.3]	1.35
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium mageritense</i> CIP 104973	14.3	[11.5 - 17.7]	19.7	[17.5 - 22.1]	14.5	[12.0 - 17.3]	1.34
'Mycobacterium sp. djl-10' (NZ_CP016640)	' <i>Mycobacterium kansasii</i> ' (NZ_NKRE00000000)	15.0	[12.1 - 18.4]	19.7	[17.5 - 22.1]	15.1	[12.6 - 18.0]	1.75
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium mageritense</i> CIP 104973	14.4	[11.6 - 17.8]	19.6	[17.4 - 22.0]	14.6	[12.1 - 17.4]	1.47
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium decipiens</i> TBL 1200985	15.0	[12.1 - 18.4]	19.6	[17.4 - 22.0]	15.1	[12.6 - 17.9]	1.34
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium angelicum</i> DSM 45057	15.6	[12.7 - 19.1]	19.6	[17.4 - 22.0]	15.6	[13.1 - 18.5]	0.57
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium synnathidarum</i> 27335	14.7	[11.8 - 18.1]	19.6	[17.4 - 22.0]	14.8	[12.4 - 17.7]	0.03
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium vaccae</i> ATCC 15483	14.8	[11.9 - 18.2]	19.6	[17.4 - 22.0]	14.9	[12.4 - 17.8]	2.98
'Mycobacterium colombiense' (NZ_LZLH00000000)	<i>Mycobacterium neglectum</i> CECT 8778	15.8	[12.9 - 19.3]	19.6	[17.4 - 22.0]	15.8	[13.3 - 18.7]	2.18
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium vaccae</i> ATCC 15483	15.1	[12.2 - 18.5]	19.6	[17.4 - 22.0]	15.1	[12.7 - 18.0]	2.4
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium fortuitum</i> DSM 46621	14.9	[12.0 - 18.3]	19.6	[17.4 - 22.0]	15.0	[12.5 - 17.8]	0.03
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium novocastrense</i> JCM 18114	14.6	[11.7 - 18.0]	19.6	[17.4 - 22.0]	14.7	[12.3 - 17.6]	1.07
'Mycobacterium sp. 455mf' (NZ_FOOB00000000)	<i>Mycobacterium pseudoshottsii</i> JCM 15466	14.8	[11.9 - 18.2]	19.6	[17.4 - 21.9]	14.9	[12.4 - 17.7]	0.9
'Mycobacterium sp. djl-10' (NZ_CP016640)	' <i>Mycobacterium marinum</i> ' (NZ_CP025779)	14.5	[11.7 - 17.9]	19.6	[17.4 - 22.0]	14.7	[12.2 - 17.5]	2.24
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium vaccae</i> ATCC 15483	15.3	[12.4 - 18.8]	19.6	[17.4 - 22.0]	15.4	[12.9 - 18.3]	2.4
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium neworleansense</i> ATCC 49404	15.0	[12.1 - 18.4]	19.6	[17.4 - 22.0]	15.1	[12.6 - 17.9]	0.66

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium peregrinum</i> DSM 43271	14.7	[11.8 - 18.1]	19.6	[17.4 - 22.0]	14.8	[12.3 - 17.7]	0.07
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium novocastrense</i> JCM 18114	14.6	[11.7 - 18.0]	19.6	[17.4 - 22.0]	14.7	[12.3 - 17.6]	1.36
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium neworleansense</i> ATCC 49404	15.2	[12.3 - 18.6]	19.6	[17.4 - 22.0]	15.2	[12.8 - 18.1]	0.66
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium lehmannii</i> CECT 8763	14.6	[11.8 - 18.0]	19.6	[17.4 - 22.0]	14.8	[12.3 - 17.6]	1.04
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium synnathidarum</i> 27335	14.7	[11.8 - 18.1]	19.6	[17.4 - 22.0]	14.8	[12.3 - 17.7]	0.11
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium setense</i> DSM 45070	14.7	[11.8 - 18.1]	19.6	[17.4 - 22.0]	14.8	[12.4 - 17.7]	0.24
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium vulneris</i> DSM 45247	16.6	[13.6 - 20.1]	19.6	[17.4 - 22.0]	16.4	[13.8 - 19.3]	0.08
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium neumannii</i> CECT 8766	15.3	[12.4 - 18.7]	19.6	[17.4 - 22.0]	15.3	[12.8 - 18.2]	0.6
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium septicum</i> DSM 44393	14.7	[11.9 - 18.1]	19.6	[17.4 - 22.0]	14.9	[12.4 - 17.7]	1.12
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium septicum</i> DSM 44393	14.7	[11.8 - 18.1]	19.6	[17.4 - 22.0]	14.8	[12.4 - 17.7]	1.13
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium neglectum</i> CECT 8778	14.2	[11.4 - 17.6]	19.6	[17.4 - 22.0]	14.4	[12.0 - 17.2]	0.84
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium vaccae</i> ATCC 15483	14.8	[11.9 - 18.2]	19.6	[17.4 - 22.0]	14.9	[12.4 - 17.8]	2.97
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium tokaiense</i> NCTC 10821	14.9	[12.0 - 18.3]	19.6	[17.4 - 22.0]	15.0	[12.5 - 17.9]	1.66
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium novocastrense</i> JCM 18114	14.6	[11.7 - 18.0]	19.6	[17.4 - 22.0]	14.7	[12.3 - 17.6]	1.14
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium vaccae</i> ATCC 15483	14.8	[11.9 - 18.2]	19.6	[17.4 - 22.0]	14.9	[12.4 - 17.8]	2.99
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium aichiense</i> NCTC 10820	15.4	[12.5 - 18.8]	19.6	[17.4 - 22.0]	15.4	[12.9 - 18.3]	0.55
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium marinum</i> CCUG 20998	14.6	[11.7 - 18.0]	19.6	[17.4 - 22.0]	14.7	[12.3 - 17.6]	2.22
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium peregrinum</i> DSM 43271	14.4	[11.5 - 17.7]	19.6	[17.4 - 22.0]	14.5	[12.1 - 17.4]	0.49
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium septicum</i> DSM 44393	14.8	[11.9 - 18.2]	19.5	[17.3 - 21.9]	14.9	[12.4 - 17.8]	0.96
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium septicum</i> DSM 44393	14.8	[11.9 - 18.2]	19.5	[17.3 - 21.9]	14.9	[12.4 - 17.8]	1.24
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium vaccae</i> ATCC 15483	14.9	[12.0 - 18.3]	19.5	[17.3 - 21.9]	15.0	[12.5 - 17.8]	2.89
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium fortuitum</i> subsp. <i>acetamidolyticum</i> JCM 6368	14.4	[11.5 - 17.8]	19.5	[17.3 - 21.9]	14.5	[12.1 - 17.4]	0.25
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium wolinskyi</i> ATCC 700010	14.4	[11.6 - 17.8]	19.5	[17.3 - 21.9]	14.6	[12.2 - 17.5]	0.94

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium mageritense</i> CIP 104973	14.4	[11.6 - 17.8]	19.5	[17.4 - 21.9]	14.6	[12.1 - 17.4]	1.18
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium neumannii</i> CECT 8766	14.5	[11.7 - 17.9]	19.5	[17.3 - 21.9]	14.7	[12.2 - 17.5]	1.02
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium fortuitum</i> subsp. <i>acetamidolyticum</i> JCM 6368	14.9	[12.0 - 18.3]	19.5	[17.3 - 21.9]	15.0	[12.5 - 17.8]	0.17
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium neglectum</i> CECT 8778	16.6	[13.6 - 20.1]	19.5	[17.3 - 21.9]	16.4	[13.8 - 19.3]	2.6
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium peregrinum</i> DSM 43271	14.4	[11.6 - 17.8]	19.5	[17.3 - 21.9]	14.6	[12.1 - 17.4]	0.64
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium wolinskyi</i> ATCC 700010	14.4	[11.6 - 17.8]	19.5	[17.3 - 21.9]	14.6	[12.2 - 17.5]	0.73
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium neumannii</i> CECT 8766	14.5	[11.7 - 17.9]	19.5	[17.3 - 21.9]	14.7	[12.2 - 17.6]	1.31
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium wolinskyi</i> ATCC 700010	14.4	[11.6 - 17.8]	19.5	[17.3 - 21.9]	14.6	[12.1 - 17.4]	0.65
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium fortuitum</i> subsp. <i>acetamidolyticum</i> JCM 6368	14.3	[11.5 - 17.7]	19.5	[17.3 - 21.9]	14.5	[12.1 - 17.4]	0.32
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium decipiens</i> TBL 1200985	14.6	[11.7 - 18.0]	19.5	[17.3 - 21.9]	14.7	[12.3 - 17.6]	2.43
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium mageritense</i> CIP 104973	14.4	[11.6 - 17.8]	19.5	[17.3 - 21.9]	14.6	[12.1 - 17.4]	1.25
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium lehmannii</i> CECT 8763	15.3	[12.4 - 18.7]	19.5	[17.3 - 21.9]	15.3	[12.8 - 18.2]	0.55
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium setense</i> DSM 45070	14.7	[11.8 - 18.1]	19.5	[17.3 - 21.9]	14.8	[12.4 - 17.7]	0.32
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium septicum</i> DSM 44393	14.7	[11.9 - 18.1]	19.5	[17.3 - 21.9]	14.9	[12.4 - 17.7]	1.03
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium aichiense</i> NCTC 10820	14.8	[12.0 - 18.3]	19.5	[17.3 - 21.9]	14.9	[12.5 - 17.8]	1.15
'Mycobacterium sp. 455mf' (NZ_FOBB00000000)	<i>Mycobacterium szulgai</i> DSM 44166	15.3	[12.4 - 18.7]	19.5	[17.3 - 21.9]	15.3	[12.8 - 18.2]	0.77
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium aichiense</i> NCTC 10820	14.8	[11.9 - 18.2]	19.5	[17.3 - 21.9]	14.9	[12.5 - 17.8]	1.12
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium vaccae</i> ATCC 15483	14.9	[12.0 - 18.3]	19.5	[17.4 - 21.9]	15.0	[12.5 - 17.9]	3.1
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium attenuatum</i> MK41	14.9	[12.0 - 18.3]	19.5	[17.3 - 21.9]	15.0	[12.5 - 17.9]	1.07
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium gilvum</i> NCTC 10742	14.9	[12.0 - 18.3]	19.5	[17.3 - 21.9]	15.0	[12.5 - 17.8]	1.54
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium vaccae</i> ATCC 15483	14.9	[12.0 - 18.3]	19.5	[17.3 - 21.9]	15.0	[12.5 - 17.9]	2.82
'Mycobacterium kansasii' (NZ_PQOU00000000)	<i>Mycobacterium neglectum</i> CECT 8778	14.2	[11.4 - 17.6]	19.5	[17.3 - 21.9]	14.4	[12.0 - 17.3]	0.76

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium aichiense</i> NCTC 10820	14.8	[11.9 - 18.2]	19.5	[17.3 - 21.9]	14.9	[12.5 - 17.8]	1.13
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium fortuitum</i> subsp. <i>acetamidolyticum</i> JCM 6368	14.4	[11.5 - 17.7]	19.5	[17.3 - 21.9]	14.5	[12.1 - 17.4]	0.53
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium tokaiense</i> NCTC 10821	14.5	[11.7 - 17.9]	19.5	[17.3 - 21.8]	14.7	[12.2 - 17.5]	2.36
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium neumannii</i> CECT 8766	14.5	[11.6 - 17.9]	19.5	[17.3 - 21.9]	14.7	[12.2 - 17.5]	1.09
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium gilvum</i> NCTC 10742	14.4	[11.6 - 17.8]	19.5	[17.3 - 21.9]	14.6	[12.2 - 17.5]	2.16
'Mycobacterium kansasii' (NZ_LWCL00000000)	<i>Mycobacterium gilvum</i> NCTC 10742	14.7	[11.8 - 18.1]	19.5	[17.3 - 21.9]	14.8	[12.4 - 17.7]	1.46
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium fortuitum</i> DSM 46621	14.5	[11.6 - 17.9]	19.4	[17.2 - 21.8]	14.6	[12.2 - 17.5]	0.62
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium neglectum</i> CECT 8778	14.4	[11.6 - 17.8]	19.4	[17.2 - 21.8]	14.6	[12.2 - 17.5]	0.84
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium neworleansense</i> ATCC 49404	14.9	[12.1 - 18.4]	19.4	[17.3 - 21.8]	15.0	[12.6 - 17.9]	1.25
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium gilvum</i> NCTC 10742	14.4	[11.6 - 17.8]	19.4	[17.2 - 21.8]	14.6	[12.2 - 17.5]	1.87
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium neworleansense</i> ATCC 49404	15.0	[12.1 - 18.4]	19.4	[17.2 - 21.8]	15.0	[12.6 - 17.9]	1.24
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium tokaiense</i> NCTC 10821	14.5	[11.7 - 17.9]	19.4	[17.2 - 21.8]	14.7	[12.2 - 17.5]	2.14
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium fortuitum</i> subsp. <i>acetamidolyticum</i> JCM 6368	14.4	[11.6 - 17.8]	19.4	[17.2 - 21.8]	14.6	[12.2 - 17.5]	0.42
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium syngnathidarum</i> 27335	14.4	[11.6 - 17.8]	19.4	[17.2 - 21.8]	14.6	[12.2 - 17.4]	0.61
'Mycobacterium sp. 455mf' (NZ_FOQB00000000)	<i>Mycobacterium haemophilum</i> ATCC 29548	14.4	[11.6 - 17.8]	19.4	[17.2 - 21.8]	14.6	[12.2 - 17.5]	2.67
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium basiliense</i> 901379	14.0	[11.2 - 17.4]	19.4	[17.2 - 21.7]	14.3	[11.8 - 17.1]	2.91
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium fortuitum</i> subsp. <i>acetamidolyticum</i> JCM 6368	14.4	[11.6 - 17.8]	19.4	[17.2 - 21.8]	14.6	[12.2 - 17.5]	0.41
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium peregrinum</i> DSM 43271	14.4	[11.6 - 17.8]	19.4	[17.3 - 21.8]	14.6	[12.1 - 17.4]	0.66
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium fortuitum</i> subsp. <i>acetamidolyticum</i> JCM 6368	14.4	[11.6 - 17.8]	19.4	[17.2 - 21.8]	14.6	[12.2 - 17.5]	0.4
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium tokaiense</i> NCTC 10821	14.5	[11.7 - 17.9]	19.4	[17.3 - 21.8]	14.7	[12.2 - 17.5]	2.07
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium gilvum</i> NCTC 10742	14.4	[11.6 - 17.8]	19.4	[17.2 - 21.8]	14.6	[12.1 - 17.4]	1.94

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium haemophilum</i> ATCC 29548	14.2	[11.4 - 17.6]	19.4	[17.2 - 21.8]	14.4	[12.0 - 17.3]	2.9
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium fortuitum</i> DSM 46621	14.5	[11.7 - 17.9]	19.4	[17.2 - 21.8]	14.7	[12.2 - 17.5]	0.6
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium syngnathidarum</i> 27335	14.5	[11.6 - 17.9]	19.4	[17.2 - 21.8]	14.6	[12.2 - 17.5]	0.59
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium syngnathidarum</i> 27335	14.4	[11.6 - 17.8]	19.4	[17.2 - 21.8]	14.6	[12.2 - 17.5]	0.6
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium peregrinum</i> DSM 43271	14.4	[11.6 - 17.8]	19.4	[17.3 - 21.8]	14.6	[12.1 - 17.4]	0.65
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium neworleansense</i> ATCC 49404	15.0	[12.1 - 18.4]	19.4	[17.2 - 21.8]	15.0	[12.6 - 17.9]	1.23
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium setense</i> DSM 45070	14.4	[11.6 - 17.8]	19.4	[17.2 - 21.8]	14.6	[12.1 - 17.4]	0.94
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium neglectum</i> CECT 8778	14.1	[11.3 - 17.5]	19.3	[17.1 - 21.7]	14.3	[11.9 - 17.1]	0.14
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium gilvum</i> NCTC 10742	14.7	[11.8 - 18.1]	19.3	[17.1 - 21.7]	14.8	[12.3 - 17.7]	2.02
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium setense</i> DSM 45070	14.4	[11.6 - 17.8]	19.3	[17.2 - 21.7]	14.6	[12.1 - 17.4]	0.72
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium neglectum</i> CECT 8778	14.1	[11.3 - 17.5]	19.3	[17.1 - 21.7]	14.3	[11.9 - 17.1]	0.36
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium gilvum</i> NCTC 10742	14.7	[11.8 - 18.1]	19.3	[17.1 - 21.7]	14.8	[12.3 - 17.7]	2.05
'Mycobacterium marinum' (NZ_PQBM00000000)	<i>Mycobacterium syngnathidarum</i> 27335	14.6	[11.8 - 18.0]	19.3	[17.1 - 21.7]	14.8	[12.3 - 17.6]	0.73
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium gilvum</i> NCTC 10742	14.7	[11.8 - 18.1]	19.3	[17.1 - 21.7]	14.8	[12.3 - 17.7]	2.04
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium szulgai</i> DSM 44166	15.5	[12.6 - 19.0]	19.3	[17.2 - 21.7]	15.5	[13.0 - 18.4]	1.0
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium gilvum</i> NCTC 10742	14.9	[12.0 - 18.3]	19.3	[17.1 - 21.7]	15.0	[12.5 - 17.9]	1.46
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium fortuitum</i> DSM 46621	14.5	[11.6 - 17.9]	19.3	[17.2 - 21.7]	14.6	[12.2 - 17.5]	0.61
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium setense</i> DSM 45070	15.0	[12.1 - 18.4]	19.3	[17.1 - 21.7]	15.1	[12.6 - 17.9]	0.24
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium setense</i> DSM 45070	14.4	[11.6 - 17.8]	19.3	[17.2 - 21.7]	14.6	[12.1 - 17.4]	0.65
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium neglectum</i> CECT 8778	14.1	[11.3 - 17.5]	19.2	[17.0 - 21.6]	14.3	[11.9 - 17.1]	0.43
'Mycobacterium marinum E11' (NZ_HG917972)	<i>Mycobacterium syngnathidarum</i> 27335	14.6	[11.8 - 18.1]	19.2	[17.0 - 21.6]	14.8	[12.3 - 17.6]	0.44

Query	Subject	$d_0$	C.I. $d_0$	$d_4$	C.I. $d_4$	$d_6$	C.I. $d_6$	Diff. G+C Percent
'Mycobacterium marinum' (NZ_CP025779)	<i>Mycobacterium</i> <i>syngnathidarum</i> 27335	14.6	[11.8 - 18.1]	19.2	[17.0 - 21.6]	14.8	[12.3 - 17.6]	0.51
'Mycobacterium tuberculosis' (NZ_FPVV00000000)	<i>Mycobacterium</i> <i>neglectum</i> CECT 8778	14.2	[11.4 - 17.6]	19.2	[17.0 - 21.6]	14.4	[12.0 - 17.2]	0.25
'Mycobacterium kansasii' (NZ_NKRE00000000)	<i>Mycobacterium</i> <i>syngnathidarum</i> 27335	15.0	[12.1 - 18.4]	19.2	[17.0 - 21.6]	15.1	[12.6 - 18.0]	0.02
'Mycobacterium tuberculosis' (NZ_MMLR00000000)	<i>Mycobacterium</i> <i>neglectum</i> CECT 8778	14.2	[11.4 - 17.6]	19.2	[17.0 - 21.6]	14.4	[12.0 - 17.2]	0.28
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER00000000)	<i>Mycobacterium</i> <i>neglectum</i> CECT 8778	14.2	[11.4 - 17.6]	19.2	[17.0 - 21.6]	14.4	[12.0 - 17.2]	0.26
'Mycobacterium sp. djl-10' (NZ_CP016640)	<i>Mycobacterium</i> <i>haemophilum</i> ATCC 29548	14.0	[11.2 - 17.4]	19.1	[16.9 - 21.4]	14.3	[11.8 - 17.1]	3.99
'Mycobacterium sp. 455mf' (NZ_FOBB00000000)	<i>Mycobacterium</i> <i>basiliense</i> 901379	14.3	[11.5 - 17.7]	19.0	[16.8 - 21.4]	14.5	[12.0 - 17.3]	1.59
'Mycobacterium sp. GA-1199' (NZ_LQIX00000000)	<i>Mycobacterium</i> <i>basiliense</i> 901379	14.1	[11.3 - 17.5]	19.0	[16.9 - 21.4]	14.3	[11.9 - 17.1]	1.83

Table 4: Strains in your dataset

Joint dataset of automatically determined closest type strains (if this mode was chosen), manually selected type strains (if selected accordingly) and the provided user strains, if provided (marked in yellow).

Strain	Authority	Other deposits	Synonyms	Base pairs	Percent G+C	No. proteins	Goldstamp	Bioproject accession	Biosample accession	Assembly accession	IMG OID
<i>Mycobacterium kansasii</i> ATCC 12478	Hauduroy 1955 emend. Nouioui et al. 2018	CIP 104589; DSM 44162; JCM 6379; NCTC 13024	<i>Mycobacterium kansasii</i>	6577 228	66.2	5866	Gp0001632	PRJNA30907	SAMN02603596	GCA_000157895	2563366550
<i>Mycobacterium bovis</i> ATCC 19210	Karlson and Lessel 1970	CIP 105234; NCTC 10772	<i>Mycobacterium bovis</i> ; <i>Mycobacterium bovis</i> subsp. <i>bovis</i>	4303 498	65.6	4048		PRJNA377261	SAMN06462278	GCA_002982285	
<i>Mycobacterium africanum</i> ATCC 25420	Castets et al. 1969	CIP 105147	<i>Mycobacterium africanum</i>	4351 982	65.5	4043		PRJNA224116	SAMN06462277	GCF_002982335	
<i>Mycobacterium pinnipedii</i> ATCC BAA-688	Cousins et al. 2003	6482; NCTC 13288	<i>Mycobacterium pinnipedii</i>	4324 277	65.6	4036		PRJNA224116	SAMN06462281	GCF_002982275	
<i>Mycobacterium marinum</i> CCUG 20998	Aronson 1926	CIP 104528; ATCC 927; CCUG 20998; CCUG 27843; DSM 43225; DSM 44344; JCM 12275; NCTC 2275	<i>Mycobacterium marinum</i>	6453 310	65.7	5434	Gp0371789	PRJNA414525	SAMN07792364	GCA_003391395	
<i>Mycobacterium aichiense</i> NCTC 10820	(ex Tsukamura 1973) Tsukamura 1981	49 005; 5545; CIP 106808; ATCC 27280; DSM 44147; JCM 6376; NCTC 10820; LMG 19259	<i>Mycobacterium aichiense</i> ; <i>Mycolicibacterium aichiense</i>	5924 247	66.7	5664	Gp0384463	PRJEB6403	SAMEA4076713	GCA_900453085	



Strain	Authority	Other deposits	Synonyms	Base pairs	Percent G+C	No. proteins	Goldstamp	Bioproject accession	Biosample accession	Assembly accession	IMG OID
<i>Mycobacterium attenuatum</i> MK41	Tagini et al. 2019	CCUG 72127; DSM 107153	<i>Mycobacterium attenuatum</i>	6517 254	65.8	5863		PRJNA224116	SAMEA4938330	GCF_900566085	
<i>Mycobacterium intracellulare</i> ATCC 13950	(Cuttino and McCabe 1949) Runyon 1965 emend. Castejon et al. 2018	CIP 104243; CCUG 28005; DSM 43223; JCM 6384; NCTC 13025; TMC 1406	<i>Mycobacterium intracellulare</i> ; <i>Mycobacterium intracellulare</i> subsp. <i>intracellulare</i> ; <i>Nocardia intracellularis</i>	5402 402	68.1	5144	Gp0018287	PRJNA82157	SAMN02603186	GCA_000277125	2519103109
<i>Mycobacterium tuberculosis</i> H37Rv	(Zopf 1883) Lehmann and Neumann 1896 emend. Riojas et al. 2018	ATCC 27294; NCTC 13114; NCTC 13144	<i>Bacterium tuberculosis</i> ; <i>Mycobacterium tuberculosis</i> ; <i>Mycobacterium tuberculosis</i> subsp. <i>tuberculosis</i>	4411 532	65.6	4018	Gp0000774	PRJNA224	SAMEA3138326	GCA_000195955	637000173
<i>Mycobacterium syngnathidarum</i> 27335	Fogelson et al. 2018	ATCC TSD-89; DSM 105112	<i>Mycobacterium syngnathidarum</i>	6308 756	66.2	5898	Gp0367581	PRJNA347845	SAMN05897976	GCA_001942625	
<i>Mycobacterium innocens</i> MK13	Tagini et al. 2019	CCUG 72126; DSM 107161	<i>Mycobacterium innocens</i>	6183 215	66.1	5768		PRJNA224116	SAMEA4938327	GCF_900566055	
<i>Mycobacterium fortuitum</i> DSM 46621	da Costa Cruz 1938 emend. Nouiou et al. 2018	6841; CIP 104534; ATCC 6841; CCUG 20994; DSM 46621; JCM 6387; IFO 13159; IFO (now NBRC) 13159; NBRC 13159; NCTC 10394	<i>Mycobacterium fortuitum</i> ; <i>Mycobacterium fortuitum</i> subsp. <i>fortuitum</i> ; <i>Mycolicibacterium fortuitum</i> ; <i>Mycolicibacterium fortuitum</i> subsp. <i>fortuitum</i>	6294 841	66.2	6241	Gp0024153	PRJNA170443	SAMN02470125	GCA_000295855	2519899744

Strain	Authority	Other deposits	Synonyms	Base pairs	Percent G+C	No. proteins	Goldstamp	Bioproject accession	Biosample accession	Assembly accession	IMG OID
<i>Mycobacterium basiliense</i> 901379	Seth-Smith et al. 2019	CIP 111488; DSM 104308; CCOS 1136	<i>Mycobacterium basiliense</i>	5607 630	65.0	4800	Gp0444202	PRJEB23647	SAMEA104628733	GCA_900292015	
<i>Mycobacterium lehmannii</i> CECT 8763	Nouioui et al. 2017	40; DSM 43219; SN 1900	<i>Mycobacterium lehmannii</i>	5496 052	66.7	5353	Gp0377154	PRJNA391443	SAMN07269029	GCA_002245535	
<i>Mycobacterium neumannii</i> CECT 8766	Nouioui et al. 2017	2409; DSM 43532; SN 1904	<i>Mycobacterium neumannii</i>	5376 327	66.8	5141	Gp0377139	PRJNA391446	SAMN07269033	GCA_002245615	
<i>Mycobacterium caprae</i> ATCC BAA-824	(Aranaz et al. 1999) Aranaz et al. 2003	CIP 105776; gM-1; spc-1	<i>Mycobacterium bovis</i> subsp. <i>caprae</i> ; <i>Mycobacterium caprae</i> ; <i>Mycobacterium tuberculosis</i> subsp. <i>caprae</i>	4304 249	65.6	4039		PRJNA224116	SAMN06462279	GCF_002982225	
<i>Mycobacterium microti</i> ATCC 19422	Reed 1957	CIP 104256; DSM 44155; NCTC 8710	<i>Mycobacterium microti</i>	4241 638	65.3	4102		PRJNA224116	SAMN06462280	GCF_002982215	
<i>Mycobacterium fortuitum</i> subsp. <i>acetamidolyticum</i> JCM 6368	Tsukamura et al. 1986	CIP 105423; ATCC 35931; DSM 44220; NCH E11620	<i>Mycobacterium fortuitum</i> subsp. <i>acetamidolyticum</i> ; <i>Mycolicibacterium fortuitum</i> subsp. <i>acetamidolyticum</i>	7101 703	66.0	6981	Gp0386333	PRJDB4227	SAMD00041174	GCA_001570465	
<i>Mycobacterium novocastrense</i> JCM 18114	Shojaei et al. 1997	73; CIP 105546; DSM 44203	<i>Mycobacterium novocastrense</i> ; <i>Mycolicibacterium novocastrense</i>	6224 010	66.8	6161	Gp0144885	PRJDB4227	SAMD00041175	GCA_001570485	
<i>Mycobacterium gilvum</i> NCTC 10742	Stanford and Gunthorpe 1971	CIP 106743; ATCC 43909; DSM 45363; JCM 15464	<i>Mycobacterium gilvum</i> ; <i>Mycolicibacterium gilvum</i>	6432 993	67.6	6108	Gp0384464	PRJEB6403	SAMEA4076702	GCA_900454025	

Strain	Authority	Other deposits	Synonyms	Base pairs	Percent G+C	No. proteins	Goldstamp	Bioproject accession	Biosample accession	Assembly accession	IMG OID
<i>Mycobacterium tokaiense</i> NCTC 10821	(ex Tsukamura 1973) Tsukamura 1981	47503; 47503 (previously strain 5553); 5553; CIP 106807; ATCC 27282; DSM 44635; JCM 6373; NCTC 10821	<i>Mycobacterium tokaiense</i> ; <i>Mycolicibacterium tokaiense</i>	6428810	67.8	6224	Gp0384462	PRJEB6403	SAMEA37369168	GCA_900453365	
<i>Mycobacterium avium</i> subsp. <i>silvaticum</i> ATCC 49884	Thorel et al. 1990	6409; CIP 103317; CCUG 47446; DSM 44175	<i>Mycobacterium avium</i> subsp. <i>silvaticum</i>	4654797	69.2	4259	Gp0048453	PRJNA219418	SAMN02470590	GCA_000504975	2568526319
<i>Mycobacterium neglectum</i> CECT 8778	Nouioui et al. 2019	DSM 44756; BN3150	<i>Mycobacterium neglectum</i>	6198025	65.3	6103	Gp0370461	PRJNA401517	SAMN07606483	GCA_002591975	
<i>Mycobacterium boenickei</i> CIP 107829	Schinsky et al. 2004 emend. Nouioui et al. 2018	CIP 107829; ATCC 49935; CCUG 47580; DSM 44677; JCM 15653; W5998	<i>Mycobacterium boenickei</i> ; <i>Mycolicibacterium boenickei</i>	6506908	66.8	6266	Gp0377659	PRJEB19486	SAMEA92028418	GCA_900166915	
<i>Mycobacterium paraintracellulare</i> KCTC 29084	Lee et al. 2016 emend. Nouioui et al. 2018	KCTC 29084; JCM 30622; MOTT64	<i>Mycobacterium paraintracellulare</i>	5501090	68.1	5249	Gp0016728	PRJNA82155	SAMN02603185	GCA_000276825	2512564041
<i>Mycobacterium bouchedurhonesense</i> DSM 45439	Ben Salah et al. 2009 emend. Nouioui et al. 2018	4355387; CIP 109827; CCUG 56331; CSUR P34	<i>Mycobacterium bouchedurhonesense</i>	5897311	68.6	5642		PRJNA224116	SAMN06064234	GCF_002086165	

Strain	Authority	Other deposits	Synonyms	Base pairs	Percent G+C	No. proteins	Goldstamp	Bioproject accession	Biosample accession	Assembly accession	IMG OID
<i>Mycobacterium marseillense</i> DSM 45437	Ben Salah et al. 2009 emend. Nouioui et al. 2018	5356591; CIP 109828; CCUG 56325; DSM 45437; JCM 17324; CSUR P30	<i>Mycobacterium marseillense</i>	5456 846	67.7	5064		PRJNA224116	SAMN06064246	GCF_002086345	
<i>Mycobacterium paraseoulense</i> DSM 45000	Lee et al. 2010 emend. Nouioui et al. 2018	31118; KCTC 19145; DSM 45000; JCM 16952	<i>Mycobacterium paraseoulense</i>	6078 491	67.9	5705		PRJNA224116	SAMN06064254	GCF_002086475	
<i>Mycobacterium arosiense</i> DSM 45069	Bang et al. 2008 emend. Nouioui et al. 2018	ATCC BAA-1401; T1921	<i>Mycobacterium arosiense</i>	5980 205	66.8	5647		PRJNA224116	SAMN06064229	GCF_002086125	
<i>Mycobacterium wolinskyi</i> ATCC 700010	Brown et al. 1999 emend. Nouioui et al. 2018	CIP 106348; CCUG 47168; DSM 44493; JCM 13393; MO739	<i>Mycobacterium wolinskyi</i> ; <i>Mycolicibacterium wolinskyi</i>	7516 859	66.4	7073		PRJNA299467	SAMN04216957	GCA_002101965	
<i>Mycobacterium vulneris</i> DSM 45247	van Ingen et al. 2009 emend. Nouioui et al. 2018	CIP 109859; JCM 18115; NLA00070 0772	<i>Mycobacterium vulneris</i> ; <i>Mycolicibacterium vulneris</i>	6266 718	66.8	5622		PRJNA354248	SAMN06651660	GCA_002104765	
<i>Mycobacterium nebraskense</i> DSM 44803	Mohamed et al. 2004 emend. Nouioui et al. 2018	ATCC BAA-837; UNMC-MY 1349	<i>Mycobacterium nebraskense</i>	6727 177	66.6	6329		PRJNA224116	SAMN04216938	GCF_002102255	
<i>Mycobacterium canariasense</i> CCUG 47953	Jiménez et al. 2004	502329; CIP 107998; CCUG 47953; DSM 44828; JCM 15298	<i>Mycobacterium canariasense</i> ; <i>Mycolicibacterium canariasense</i>	6755 573	67.6	6807		PRJNA224116	SAMN04216915	GCF_002101555	

Strain	Authority	Other deposits	Synonyms	Base pairs	Percent G+C	No. proteins	Goldstamp	Bioproject accession	Biosample accession	Assembly accession	IMG OID
<i>Mycobacterium lacus</i> DSM 44577	Turenne et al. 2002 emend. Nouioui et al. 2018	ATCC BAA-323; DSM 44577; JCM 15657; NRCM 0-255	<i>Mycobacterium lacus</i>	4905288	66.9	4547		PRJNA224116	SAMN04216936	GCF_002102215	
<i>Mycobacterium peregrinum</i> DSM 43271	(ex Bojalil et al. 1962) Kusunoki and Ezaki 1992 emend. Nouioui et al. 2018	CIP 105382; ATCC 14467; CCUG 27976; JCM 12142; NCTC 10264	<i>Mycobacterium peregrinum</i> ; <i>Mycolicibacterium peregrinum</i>	7050152	66.3	6807		PRJNA224116	SAMN04216946	GCF_002102345	
<i>Mycobacterium szulgai</i> DSM 44166	Marks et al. 1972 emend. Nouioui et al. 2018	CIP 104532; ATCC 35799; CCUG 37675; JCM 6383; NCTC 10831	<i>Mycobacterium szulgai</i>	6672659	65.8	5433		PRJNA299467	SAMN04216953	GCA_002116635	
<i>Mycobacterium gastri</i> DSM 43505	Wayne 1966	CIP 104530; ATCC 15754; CCUG 20995; JCM 12407	<i>Mycobacterium gastri</i>	5816659	66.2	5243		PRJNA224116	SAMN04216928	GCF_002102175	
<i>Mycobacterium intracellulare</i> subsp. <i>chimaera</i> DSM 44623	(Tortoli et al. 2004) Nouioui et al. 2018	CIP 107892; CCUG 50989; DSM 44623; JCM 14737; NCTC 13781; FI-01069; FI-0169	<i>Mycobacterium chimaera</i> ; <i>Mycobacterium intracellulare</i> subsp. <i>chimaera</i>	6086879	67.7	5704		PRJNA224116	SAMN04216918	GCF_002101575	
<i>Mycobacterium persicum</i> DSM 104278	Shahraki et al. 2017	AFPC-000227; CIP 111197	<i>Mycobacterium persicum</i>	6172209	66.2	5630		PRJNA224116	SAMN06064255	GCF_002086675	

Strain	Authority	Other deposits	Synonyms	Base pairs	Percent G+C	No. proteins	Goldstamp	Bioproject accession	Biosample accession	Assembly accession	IMG OID
<i>Mycobacterium bohemicum</i> DSM 44277	Reischl et al. 1998 emend. Nouioui et al. 2018	CIP 105808; CIP 105811; JCM 12402	<i>Mycobacterium bohemicum</i>	5084 288	68.8	4840	Gp0102125	PRJEB5741	SAMEA3305052	GCA_001053185	
<i>Mycobacterium mageritense</i> CIP 104973	Domenech et al. 1997 emend. Nouioui et al. 2018	938; CIP 104973; ATCC 700351; CCUG 37984; DSM 44476; JCM 12375	<i>Mycobacterium mageritense</i> ; <i>Mycolicibacterium mageritense</i>	7966 607	66.9	7675	Gp0100984	PRJEB5749	SAMEA3138978	GCA_000612825	
<i>Mycobacterium haemophilum</i> ATCC 29548	Sompolinsky et al. 1978 emend. Nouioui et al. 2018	CIP 105049; CCUG 47452; DSM 44634; JCM 15465; NCTC 11185	<i>Mycobacterium haemophilum</i>	4235 763	63.9	3728	Gp0120738	PRJNA171821	SAMN01918491	GCA_000340435	
<i>Mycobacterium neworleansense</i> ATCC 49404	Schinsky et al. 2004 emend. Nouioui et al. 2018	DSM 44679; JCM 15659; W6705	<i>Mycobacterium neworleansense</i> ; <i>Mycolicibacterium neworleansense</i>	6287 317	66.8	5997	Gp0143714	PRJEB9831	SAMEA3481574	GCA_001245615	
<i>Mycobacterium setense</i> DSM 45070	Lamy et al. 2008 emend. Nouioui et al. 2018	ABO-M06; CIP 109395; JCM 15660	<i>Mycobacterium setense</i> ; <i>Mycolicibacterium setense</i>	6265 049	66.4	5597	Gp0118825	PRJNA268140	SAMN01174788	GCA_000805385	

Strain	Authority	Other deposits	Synonyms	Base pairs	Percent G+C	No. proteins	Goldstamp	Bioproject accession	Biosample accession	Assembly accession	IMG OID
<i>Mycobacterium vaccae</i> ATCC 15483	Bönicke and Juhasz 1964 emend. Nouioui et al. 2018	CIP 105934; CCUG 21003; DSM 43292; JCM 6389; IFO 14118; IFO (now NBRC) 14118; NBRC 14118; NCTC 10916; HAMB1 2276	<i>Mycobacterium vaccae</i> ; <i>Mycolicibacterium vaccae</i>	6235754	68.6	5722	Gp0120737	PRJNA210723	SAMN03702434	GCA_001655245	
<i>Mycobacterium avium</i> ATCC 25291	Chester 1901 emend. Thorel et al. 1990	CIP 104244; ATCC 25291; CCUG 20992; DSM 44156; NCTC 13034; no type strain designated originally	<i>Mycobacterium avium</i> ; <i>Mycobacterium avium</i> subsp. <i>avium</i>	4857981	69.2	4625	Gp0004133	PRJNA30909	SAMN02470543	GCA_000174035	645058725
<i>Mycobacterium pseudoshottsii</i> JCM 15466	Rhodes et al. 2005 emend. Nouioui et al. 2018	ATCC BAA-883; DSM 45108; NCTC 13318; L15	<i>Mycobacterium pseudoshottsii</i>	5937868	65.7	5719		PRJDB4345	SAMD00042842	GCA_001515365	
<i>Mycobacterium houstonense</i> ATCC 49403	Schinsky et al. 2004 emend. Nouioui et al. 2018	DSM 44676; JCM 15656; W5198	<i>Mycobacterium houstonense</i> ; <i>Mycolicibacterium houstonense</i>	6383321	67.0	6407	Gp0150602	PRJEB13221	SAMEA3913388	GCA_900078665	
<i>Mycobacterium septicum</i> DSM 44393	Schinsky et al. 2000 emend. Nouioui et al. 2018	CIP 106642; ATCC 700731; CCUG 43574; DSM 44393; JCM 14743; W4964	<i>Mycobacterium septicum</i> ; <i>Mycolicibacterium septicum</i>	6872298	66.7	6601	Gp0028415	PRJEB4006	SAMEA2272699	GCA_000455325	2551306423

Strain	Authority	Other deposits	Synonyms	Base pairs	Percent G+C	No. proteins	Goldstamp	Bioproject accession	Biosample accession	Assembly accession	IMG OID
<i>Mycobacterium decipiens</i> TBL 1200985	Brown-Elliott et al. 2018	ATCC TSD-117; DSM 105360	<i>Mycobacterium decipiens</i>	5216 890	65.5	4492		PRJNA354248	SAMN06651657	GCA_002104675	
<i>Mycobacterium intracellulare</i> subsp. <i>yongonense</i> 05-1390	(Kim et al. 2013) Castejon et al. 2018 emend. Nouioui et al. 2018	KCTC 19555; DSM 45126	<i>Mycobacterium intracellulare</i> subsp. <i>yongonense</i> ; <i>Mycobacterium yongonense</i>	5662 088	67.9	5390	Gp0020550	PRJNA82265	SAMN02603187	GCA_000418535	
<i>Mycobacterium colombiense</i> CECT 3035	Murcia et al. 2006 emend. Nouioui et al. 2018	10B; CIP 108962; DSM 45105; JCM 16228	<i>Mycobacterium colombiense</i>	5579 559	68.1	5197	Gp0011488	PRJNA67689	SAMN00622208	GCA_000222105	2562617111
<i>Mycobacterium pseudokansasii</i> MK142	Tagini et al. 2019	CCUG 72128; DSM 107152	<i>Mycobacterium pseudokansasii</i>	6425 785	66.2	5829		PRJNA224116	SAMEA4938324	GCF_900566075	
<i>Mycobacterium angelicum</i> DSM 45057	Pourahmad et al. 2015	126/5/03; CIP 109313	<i>Mycobacterium angelicum</i>	6653 205	66.3	5865		PRJNA354248	SAMN06064227	GCA_002086155	
' <i>Mycobacterium intracellulare</i> ATCC 13950' (NC_016946)				5402 402	68.1	5036					
' <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> JTC 1285' (NZ_AGAL00000000)				4745 157	69.3	5361					
' <i>Mycobacterium avium</i> subsp. <i>hominissuis</i> ' (NZ_BDOB00000000)				5208 636	69.1	5029					
' <i>Mycobacterium avium</i> subsp. <i>hominissuis</i> ' (NZ_BDOP00000000)				5463 470	68.9	5337					
' <i>Mycobacterium chimaera</i> ' (NZ_CP012885)				5852 822	67.8	5451					



Strain	Authority	Other deposits	Synonyms	Base pairs	Percent G+C	No. proteins	Goldstamp	Bioproject accession	Biosample accession	Assembly accession	IMG OID
'Mycobacterium sp. djl-10' (NZ_CP016640)				6395 946	67.9	6149					
'Mycobacterium marinum' (NZ_CP025779)				6467 358	65.7	5475					
'Mycobacterium sp. 455mF' (NZ_FOOB000000)				6739 133	66.6	6426					
'Mycobacterium tuberculosis' (NZ_FPVV000000)				4353 708	65.6	4070					
'Mycobacterium marinum E11' (NZ_HG917972)				6336 293	65.8	5332					
'Mycobacterium tuberculosis BTB09-184' (NZ_JKER000000)				4398 418	65.6	4086					
'Mycobacterium chimaera' (NZ_LJHL000000)				6087 047	67.6	5790					
'Mycobacterium sp. GA-1199' (NZ_LQIX000000)				5438 806	66.8	5159					
'Mycobacterium kansasii' (NZ_LWCL000000)				6358 301	66.2	5721					
'Mycobacterium intracellulare' (NZ_LZIO000000)				5660 297	67.9	5454					
'Mycobacterium colombiense' (NZ_LZLH000000)				5617 729	67.5	5462					

Strain	Authority	Other deposits	Synonyms	Base pairs	Percent G+C	No. proteins	Goldstamp	Bioproject accession	Biosample accession	Assembly accession	IMG OID
'Mycobacterium colombiense' (NZ_LZSX000000)				5547515	67.2	5231					
'Mycobacterium colombiense' (NZ_MBE000000)				5561014	67.5	5295					
'Mycobacterium tuberculosis' (NZ_MMLR000000)				4405534	65.6	4081					
'Mycobacterium chimaera' (NZ_MNAM000000)				6454529	67.6	6100					
'Mycobacterium kansasii' (NZ_NKRE000000)				6101088	66.2	5799					
'Mycobacterium marinum' (NZ_PQBM000000)				6266443	65.5	5768					
'Mycobacterium kansasii' (NZ_PQOU000000)				6228381	66.1	5716					
'Mycobacterium intracellulare subsp. yongonense' (NZ_PSQD000000)				5528112	68.0	5469					

## Methods, Results and References

The genome sequence data were uploaded to the Type (Strain) Genome Server (TYGS), a free bioinformatics platform available under <https://tygs.dsmz.de>, for a whole genome-based taxonomic analysis [1]. The analysis also made use of recently introduced methodological updates and features [2]. Information on nomenclature, synonymy and associated taxonomic literature was provided by TYGS's sister database, the List of Prokaryotic names with Standing in Nomenclature (LPSN, available at <https://lpsn.dsmz.de>) [2]. The results were provided by the TYGS on 2019-10-02. The TYGS analysis was subdivided into the following steps:

### Determination of closely related type strains

Determination of closest type strain genomes was done in two complementary ways: First, all user genomes were compared against all type strain genomes available in the TYGS database via the MASH algorithm, a fast approximation of intergenomic relatedness [3], and, the ten type strains with the smallest MASH distances chosen per user genome. Second, an additional set of ten closely related type strains was determined via the 16S rDNA gene sequences. These were extracted from the user genomes using RNAmmer [4] and each sequence was subsequently BLASTed [5] against the 16S rDNA gene sequence of each of the currently 22753 type strains available in the TYGS database. This was used as a proxy to find the best 50 matching type strains (according to the bitscore) for each user genome and to subsequently calculate precise distances using the Genome BLAST Distance Phylogeny approach (GBDP) under the algorithm 'coverage' and distance formula  $d_5$  [6]. These distances were finally used to determine the 10 closest type strain genomes for each of the user genomes.

### Pairwise comparison of genome sequences

For the phylogenomic inference, all pairwise comparisons among the set of genomes were conducted using GBDP and accurate intergenomic distances inferred under the algorithm 'trimming' and distance formula  $d_5$  [6]. 100 distance replicates were calculated each. Digital DDH values and confidence intervals were calculated using the recommended settings of the GGDC 4.0 [2,6].

### Phylogenetic inference

The resulting intergenomic distances were used to infer a balanced minimum evolution tree with branch support via FASTME 2.1.6.1 including SPR postprocessing [7]. Branch support was inferred from 100 pseudo-bootstrap replicates each. The trees were rooted at the midpoint [8] and visualized with PhyD3 [9].

### Type-based species and subspecies clustering

The type-based species clustering using a 70% dDDH radius around each of the 54 type strains was done as previously described [1]. The resulting groups are shown in Table 1 and 4. Subspecies clustering was done using a 79% dDDH threshold as previously introduced [10].

## Results

### Type-based species and subspecies clustering

The resulting species and subspecies clusters are listed in Table 4, whereas the taxonomic identification of the query strains is found in Table 1. Briefly, the clustering yielded 47 species clusters and the provided query strains were assigned to 11 of these. Moreover, user strains were located in 13 of 50 subspecies clusters.

### Figure caption SSU tree

**Figure 1.** Tree inferred with FastME 2.1.6.1 [7] from GBDP distances calculated from 16S rDNA gene sequences. The branch lengths are scaled in terms of GBDP distance formula  $d_5$ . The numbers above branches are GBDP pseudo-bootstrap support values > 60 % from 100 replications, with an average branch support of 57.7 %. The tree was rooted at the midpoint [8].

### Figure caption genome tree

**Figure 2.** Tree inferred with FastME 2.1.6.1 [7] from GBDP distances calculated from genome sequences. The branch lengths are scaled in terms of GBDP distance formula  $d_5$ . The numbers above branches are GBDP pseudo-bootstrap support values > 60 % from 100 replications, with an average branch support of 73.3 %. The tree was rooted at the midpoint [8].

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