```
1)  L. infantum     AGCTGGATCATTTTCCGATGATTACACCCAAAAAAAACATATACAA--CT 50
2)  L. infantum     AGCTGGATCATTTTCCGATGATTACACCCAAAAAAAACATATACAA--CT 50
3)  L. donovani     AGCTGGATCATTTTCCGATGATTACACCCAAAAAAAACATATACAA--CT 50
4)  L. donovani     AGCTGGATCATTTTCCGATGATTACACCCAAAAAAAACATATACAC--CT 50
5)  L. major        AGCTGGATCATTTTCCGATGATTACACCCAAAAAAAACATATACAA--CT 50
6)  L. major        AGCTGGATCATTTTCCGATGATTACACCCAAAAAAAACATATACAA--CT 50
7)  L. tropica      AGCTGGATCATTTTCCGATGATTACACCCAAAAAAAACATATACAAAACT 50
8)  L. tropica      AGCTGGATCATTTTCCGATGATTACACCCAAAAAAAACATATACAAAACT 50
9)  L. aethiopica   AGCTGGATCATTTTCCGATGATTACACCCAAAAAAAACATATACAAAACT 50
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1)  MHOM/TN/1980/IPT1      CGGGGAAGACC-TAT---GTATATATATAGTGTAGGCCTTTCCCACATA- 100
2)  MHOM/ES/1993/PM1       CGGGGAAGACC-TAT---GTATATATATAGTGTAGGCCTTTCCCACATA- 100
3)  MHOM/IN/1980/DD8       CGGGGAAGACC-TAT---GTATATATATAGTGTAGGCCTTTCCCACATA- 100
4)  MHOM/ET/1967/HU3(LV9)  CGGGGAGGACC-TAT---GTATATATATATGTTAGGCCTTTCCCACATA- 100
5)  MHOM/TM/1973/5ASKH     CGGGGAAGGCT-TATTCTATATATATATAGTATAGGCTTTTCCCACATA- 100
6)  MHOM/SN/1996/DPPE23    CGGGGAAGGCT-TATTCTATATATATATAGTATAGGCTTTTCCCACATA- 100
7)  ISER/IL/2002/LRC-L909  CGGGGAGGCCTATATATTATACATTATTATATAGGCCTTT-CCCACCCTT 100
8)  ISER/IL/1998/LRC-L758  CGGGGAGGCCTATATATTATACATTATTATATAGGCCTTT-CCCACACAT 100
9)  MHOM/ET/1972/L102      CGGGGCAGGCGCTATTATATATAT-TATTATAGGACCCTTTCCCACATAC 100
                          *****  * *  ***    ** **         **** *****


1)  MHOM/TN/1980/IPT1      -CACAGCAAAGTTTTGTACTCAAAATTTGCAGTAAAAAAAAGGCCGATC 150
2)  MHOM/ES/1993/PM1       -CACAGCAAAGTTTTGTACTCAAAATTTGCAGTAAAAAAAAGGCCGATC 150
3)  MHOM/IN/1980/DD8       -CACAGCAAAGTTTTGTACTCAAAATTTGCAGTAAAAAAAAGGCCGATC 150
4)  MHOM/ET/1967/HU3(LV9)  -CACAGCAAAGTTTTGTACTCAAAATTTGCAGTAAAAAAAAGGCCGATC 150
5)  MHOM/TM/1973/5ASKH     -CACAGCAAACTTTTATACTCAAAATTTGCAGTAAAAAAG--GCCGATC 150
6)  MHOM/SN/1996/DPPE23    -CACAGCAAACTTTTATACTCAAAATTTGCAGTAAAAAAG--GCCGATC 150
7)  ISER/IL/2002/LRC-L909  CCCCGGCAAACTTTTATACTCAAGTTTGGCAGTAAACAAAAGGCCGATC 150
8)  ISER/IL/1998/LRC-L758  ACACAGCAAACTTTTATACTCGAAGTTTGCAGTAAACAAAAGGCCGATC 150
9)  MHOM/ET/1972/L102      ACACAGCAAACTTTTATACTCGAAGTTTGCAGTAAAGAAAAGGCCGATC 150
                              *** **** ***** *  ** ******** **   *******


1)  MHOM/TN/1980/IPT1      GACGTTATAAC--GCACCGCC------TATACA--AAAGCAAAAATGTCC 200
2)  MHOM/ES/1993/PM1       GACGTTATAAC--GCACCGCC------TATACA--AAAGCAAAAATGTCC 200
3)  MHOM/IN/1980/DD8       GACGTTATAAC--GCACCGCC------TATACA--AAAGCAAAAATGTCC 200
4)  MHOM/ET/1967/HU3(LV9)  GACGTTATAAC--GCACCGCC------TATACA--AAAGCAAAAATGTCC 200
5)  MHOM/TM/1973/5ASKH     GACGTTGTAGAACGCACCGCC------TATACAAAAAGCAAAAATGTCC 200
6)  MHOM/SN/1996/DPPE23    GACGTTGTAGAACGCACCGCC------TATACAAAAAGCAAAAATGTCC 200
7)  ISER/IL/2002/LRC-L909  GACGTTTTACCC--CACCGCC      TATCCCAAAAGCAAAAATGTCC 200
8)  ISER/IL/1998/LRC-L758  GACGTTATAACG--CACCGCC      TATACACAAAGCAAAAATGTCC 200
9)  MHOM/ET/1972/L102      GACGTTATAACGCACCGCCCGCCTATACACAAAAGCAAAAATGTCC 200
                          ****** **    *******       ***   **************


1)  MHOM/TN/1980/IPT1      GTTTATACAAAAAA-TATACGGCGTTTCGGTTTTTGGCGGG--------- 250
2)  MHOM/ES/1993/PM1       GTTTATACAAAAAA-TATACGGCGTTTCGGTTTTTGGCGGG--------- 250
3)  MHOM/IN/1980/DD8       GTTTATACAAAAAA-TATACGGCGTTTCGGTTTTTGGCGGG--------- 250
4)  MHOM/ET/1967/HU3(LV9)  GTTTATACAAAAAA-TATACGGCGTTTCGGTTTTTGGCGGG--------- 250
5)  MHOM/TM/1973/5ASKH     GTTTATACAAAAAAATAGACGGCGTTTCGGTTTTTGGCGGGGAGGGAGAGA 250
6)  MHOM/SN/1996/DPPE23    GTTTATACAAAAAAATAGACGGCGTTTCGGTTTTTGGCGGGGAGGGAGAGA 250
7)  ISER/IL/2002/LRC-L909  GTTTATCCAAATTTA----CCGGCTTTCCGGTTTTGTTGGCGGG------ 250
8)  ISER/IL/1998/LRC-L758  GTTTATACAAATATA----CGGCGTTTC-GGTTTTGTTGG---------- 250
9)  MHOM/ET/1972/L102      GTTTATACAAATATA----CGGCGTTTCGGTTTTTTGTTGGCGGGGGG--- 250
                          ****** ****        * * ***    ****


1)  MHOM/TN/1980/IPT1      ---GTGGGTGCGTGTG--TGGATAACGGCTCACATAACGTGTCGCGAT 298
2)  MHOM/ES/1993/PM1       ---GTGGGTGCGTGTG--TGGATAACGGCTCACATAACGTGTCGCGAT 298
3)  MHOM/IN/1980/DD8       ---GTGGGTGCGTGTG--TGGATAACGGCTCACATAACGTGTCGCGAT 298
4)  MHOM/ET/1967/HU3(LV9)  ---GTGGGTGCGTGTG--TGGATAACGGCTCACATAACGTGTCGCGAT 298
5)  MHOM/TM/1973/5ASKH     GAGGGGGGTGCGTGTGCGTGGATAACGGCTCACATAACGTGTCGCGAT 298
6)  MHOM/SN/1996/DPPE23    GAGGGGGGTGCGTGTGCGTGGATAACGGCTCACATAACGTGTCGCGAT 298
7)  ISER/IL/2002/LRC-L909  GGGGGGGGTCCTTTGTGTGTGTGGATAACGGCTCACATAACGTGTCGCGAT 298
8)  ISER/IL/1998/LRC-L758  CGGGGGGGTGGCGTGTGTGTGTGGATAACGGCTCACATAACGTGTCGCGAT 298
9)  MHOM/ET/1972/L102      ---GGGGGTGCGTGTGTGTGGATAACGGCTCACATAACGTGTCGCGAT 298
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