



TGGTAGGGCCTACACCTGTCAACATAAATTGGAAGAAATCTGTTTACTCAGMTTGGTGGCACYTTAAATTTTCCATTAGYCCATTGAACTGTACCAGTAAAYTAAAGCC  
AGGARTGGATGGCCAAAAGTTAAACAATGGCCATTGACAGAAGAAAAATAAAGCATTAGTAGAAATTTGTACAGAAATGGAAAAGGAAAGAAAATTTCAAAAATTTGGG  
CCTGAAAAATCCATACAATACTCCAGTATTTGCCATAAAGAAAAAGACAGTACTAAATGGAGAAAAGTGTAGATTTCCAGAGAACTTAATAAGAGAACTCAAGACTTCTGGG  
AAGTTCAATTAGGAATACCACACCAGCAGGGTTAAAAAAGAACAGATCAGTAACAGTACTGGATGTGGGTGATGCATATTTTTCAGTTCCCTTAGATAAAGACTTCAGGAA  
GTATACTGCATTCCACATACCTAGTACAAAATGAGACACCAGGAATTAGGTATCAGTACAATGTACTTCCACAAGGATGGAAAGGATCACCAGCAATATTTCCAAAGTAGC  
ATGACAAAAGATCTTAGAGCCTTTTAGAAAAAGAAAATCCAGACATAGTTATCTAACAATACATGGATGATTTGTATGTAGGATCTGACTTAGAAAAAGGGCAGCATAGAACAA  
AAATAGAGAACTAAGACAACATCTGTTGAGGTGGGATTTACACACCAGACAAAAACATCAGAAAAGAACCTCCATTTCTTTGGATGGGTTATGAACCTCCACCCCGATAA  
ATGGACAGTACAGCCTATAATGCTGCCAGAAAAGGACGGCTGGACTGTCAATGACATACAGAAGTTAGTGGGAAAAGTGAATGGGCAAGTCAGATTTATTCaGGGaTTAA  
GTAAGCAATTTAGTAAACTCCTTcGGGAGCCaAAGCaTTAACAGAAGTAGTACCATTAGCAACTGAGAACTGGCAAGAAAACAGGGAGATTTCTAAAGAAC  
CAGTACATGGGGTACTATGACCATCAAAAAGACTTGATAGCAGAAGTACAGAAGCAGGGGCAAGATCAATGGACATATCAAAATTTATCAAGAGCCATTTAAAAATCTGAA  
AACAGAAAAGTATGCAAAAATGAGGGGTACCCACACTAATGATGCAAAAATTAACAGAGGCAGTGCAAAAATAGCCACAGAAAAGCATAGTAATATGGGAAAAGACTCCT  
AAATTTAAATTTACCCATACAAAAGAAACATGGGAAGCATGGTGGACAGAGTATTGGCAAGCCACCTGGATTCTTGTAGTGGGAGTTTGTCAATACCCACCTTAGTGAAT  
TATGGTACCAGTTAGAAAAAGAACCCATAGTAGGAGCAGAACTTTCTATGTAGATGGGCAGCTAACAGGGAGACTAAATTAGGAAAAGCAGATATGTACTGACAAAGG  
AAGACAAGAGGTTGTTCTTAAGTACACAACCAATCAGAAGACTGAGTTACAAGCAATTTATCTAGCTTTGCAGGATTCGGGATCAGAAGTAAACATAGTAACAGACTC  
CGATATGCATTAGGAATCATTATGACACAACAGATAGAGTATTAGTTCAGTCAAAATATAGAGCAGTAAATAAAGGAAAAGATCTACCTAGCATGGGTTTC  
CAGCACAAAAGGAATTGGaGAAATGAACAACTAGATAAATTAGTCTCCGGAATCAGaAaAGTTCTATTTcTTGGATGGaATAGATaAggCCCAAGAAAGCCATGAAAA  
ATATCACAGTAATTTGGAGGGCAATGGCCAGTGAATTTAACCTGCCACCCTGATGTAGTACAAAAGAAATAGTAACCTGCTGTGATAAATGTAGCAAAAAGGAGAAGCCATGCAT  
GGACAAGTAGACTGTAGTCCAGGAATATGGCAACTAGATTGTACACATCTAGAAGGAAAAATTAATCCTGGTAGCGGTTTATGTAGCCAGTGGATATATAGAAGCAGAAGTTA  
TTCCAGCAGAGACAGGACAGGAAACAGCATACTTCACTTAAAAATTAGCAGGAAGATGGCCAGTAAAAACAATACATACAGACAAATGGCAGCAATTTACCCAGTACTGCAGT  
TAAGGCCCGCTGTTGGTGGGCGGGATCAAGCAGGAATTTGGCATTCCCTACAACCCCAAGTCAAGGAGTAGTGGAGTCCAAGATAAAGAAATTAAGAAAAATATAGGA  
CAGGTAAGAGATCAGGCTGAACACTTAAGACAGCAGTACAAAAGGCAATTTTCAAAAGAAAAGGGGGGATTTGGGGGTACAGTGCAGGGGAAAGAAATAG  
TAGACAATATAGCATCAGACATAACAACTAAAGACTTACAAAAACATAACAAAATTTCAAAATTTTCGGGTTTATTACAGGGACAGCAGAGATCCACTTTGGAAAAGGGCC  
AGCAAACTTCTCTGAAAAGGTGAAGGGCAGTGTGATACAAGATAAATAGTGACATAAAAAGTAGTGCCAAGAAGAAAAGGCAAGATCATTAGGGATTATGGAAAACAGATG  
GCAGGTGATGATTGTGTGGCAGGTAGACAGGATGAGGATTGAACATGGA

>MX-HIV-0401\_complete\_pol\_region (GenBank Accession Number JN157837)

GAGCCAACAGCCACCAGAAAGAGAGCTTCAGGTTTGGGGAAGAGACAACAACACTcCCTCTCAGAAAACAGGAGGGGTCCAGACAAGGAACTGTATCCTTTTTCTTCCTCA  
AATCACTCTTTGGCAACGACCCTCGTCAACAATAAAGATAGGGGACAACATAAGGAAGCTCTATTAGATACAGGGCAGATGATACAGTATTAGAAGAAATGAATTTGTTA  
GAAAGATGAAAACCAAAAATGATAGGGGAATTTGAGGTTTATCAAGGTAAAGACAGTATGATCAGGTACCCATAGAAATCTGTGGACATAAAGCTGTAGGTACAGTATTAG  
TAGGACCTACACCTGTCAACACAATGGAAGAAATCTRTTGTACTCAGATTGGWTGYACTTTAAATTTTCCATTAGTCTATTGAAACTGTACCAGTAAATTAARCCAGG  
AATGGATGGCCAAAAGTAAACAATGGCCATTGACAGAAGAAAAATAAAGCATTAGTAGAAATTCGCACAGAAATGGAAAAGGAAAGAAAATTTCCAGGAATTTGGGCCT  
GAAAATCCATATAATACTCCAATATTTGCCATAAAGAAAAAGACAGTACTAAATGGAGAAAAATAGTAGATTTCCAGAGAACTTAATAAGAGAACTCAAGACTTCTGGGAAG  
TTCAATTAGGAATACCACATCTCTCAGGGCTAAAAAAGAAAAATCAGTAACAGTACTGGATGTGGGTGATGCATATTTTTCAGTCCCTTAGATGAAGACTTCAGAAAGTA  
TACTGCTTTTACCATACCTTAGTACAACAATGAGACACCAGGGATCAGATATCAGTACAATGTGCTTCCACAAGGATGGAAAGGATCACCAGCAATTTTCCAAAGCAGCATG  
ACAAAATCTTAGAACCTTTTGGGAACGATATCCAGATAGTTATCTATCAATACATGGATGATTTATATGTAGGATCTGACTTAGAAATAGGGCAGCATAGAGAAAAA  
TAGAGAACTGAGACAACATCTGTATAAGTGGGGTTTACACACCAGACAAAAACATCAGAAaGAACCTCCATTCCTTTGGATGGGTTATGAACTCCATCTGATAAATG  
GACAGTACAGCCTATAGTGTGCCAGAAAAGACAGCTGGACAGTCAATGACaTACAGAAGTTAGTGGGAAAAATAAATTTGGGCAAGTCAGATTTATGCaGGGATTAAGTA  
AGGCAATTTATGTAACCTCTTAGAGGAGCTAAAGCACTAACAGAAGTAGTACCCTAACAAAAGAGCAGAACTAGAAGTGGCAGAAAACAGGGARATTTTAAACAGCCAG  
TACATGGGGTgTATTATGACCCATCAAAAGATTTAATAGCAGAAATACAGAAGCAGGGACAGGGCCAAATGGACATATCAAAATTTATCAGGAACCAATTTAAAAATCTGAAAAC  
AGGAAAATATGCAAAAATGAGGAGTGGCCACACTAATGATGTAACAATTAACAGAGGCAGTGCAAAAACAGCCACAGAAAGCATAGTAATATGAGGAAAAGACTCTTAAG  
TTTAGATTACCCATACAAAAGCAAGCATGGGAAGCATGGTGGTCAAGTATTGGCAAGCCACTGGATCCCTGAGTGGGAGTTTGTCAATACCTCTCCCTTAGTAAATAAT  
GGTATCAATTAGAGACAGAACCCATAGTAGGAGCAGAAACTTTCTATGTGGATGGGGCAGCTAATAGGAAACTTAAATCAGGTAAGCAGTATGTTACTGACAGAGGAAG  
ACAAAAGGTAGTCCCTTAGCGGACACAACAATCAGAAGACTGAGTTACAAGCAATTTATCTAGCTTTGCAGGATTCAGGATCAGAAGTAAATATAGTAACAGACTCCCAA  
TATGCATTAGGAATTTTCAAGCGCAACCAGATAAGAGTGAATCAGAAATAGTCAAGTAAATAAGAACAGTAAATAAAGGAAAAGGCTACTCTGGCATGGGTACCAG  
CACACAAAAGGAATTTGGAGGTAATGAACAGGTAGACAAATAGTCAAGTAAAGGAATYAGAAAAGTRCTATTYTTTGGATGGAAATAGATAAGGCCCAAGAAAGcCATGAAAAATA  
TCACACTAATTTGGAGGGCAATGGCTAGTGAATTTAACCTGCCACTGTAGTAGCAAAAAGAAATAGTAGCCAGCTGTGATAAATGTCAAGTAAAGGGGAGCCATACATGGA  
CAAGTAGACTGTAGTCCAGGAATATGGCAACTAGATTGTACACATTTAGAAGGAAAAATTTCTGGTAGCAGTACATGTAGCCAGTGGATATATAGAGCAAGACTCATTC  
GAGCAGAGACAGGACAGGAAACAGCATACTTCTTAAATTAGCAGAAGTAGGCCAGTAAAAATGATACATACAGACAATGGCCCAATTTCAAGTAACTAGTAAGTACCGGTTAA  
GGCCGCTGTGGTGGGAGGGATCAAGCAGGAATTTGCAATTTCCATCAATCCCAAGTCAAGGAGTAGTAGAATCTATGAATAAAGAAATTAAGAAAATTTAGGACAG  
GTAAGAGATCAAGCTGAACATCTTAAGACAGCAGTACAGATGGCAGTATTCATCCACAATTTTAAAGAAAAGGGGGGATTTGGGGATACAGTGCAGGGGAAAGAAATAATAG  
ACATAATAGCAACAGACATACAAAGTAAAGAACTACAAAAACAATTTACAAAATTTCAAAATTTTCGGGTTTATTACAGGGACAGCAGAGACCCTTTGGAAAAGGACCAGC  
AAAGCTTCTCTGAAAAGGTGAAGGGCAGTGTATACAGATAAATAGTGACATAAAAAGTAGTGCCAAGAAGAAAAGCAGAAATCATTAGGGATTATGGAAAACAGATGGCA  
GGTGTGATGATTGTGTGGCAAGTAGACAGGATGAGGATTGAACATGGA

>MX-HIV-0422\_complete\_pol\_region (GenBank Accession Number JN157838)

GCCAAACAGCCACCAGAAAGAGAGCTTCAGGTTTGGGAGGAGATAAACAACcCctctCAGAAAACAGGAGGAGCTATATCCTTTGACCTCCCTCAAACTCACTCTTTGGCAGC  
GACCCCTCGTACAGTAAAAATAGGAGGGCACTAAAGGAAGCTCTATTAGATACAGGAGCAGATGATACAGTATTAGAAGAAATGAATTTACCAGGAAGATGGTAAACAAA  
AATGATAAGGGGAATTTGAGGTTTTATCAAAAGTAAAGACAGTATGATCAGGTACCATAGAAATCTGTGGACATAAAGCTATAGGTACAGTATTAAATAGGACCTACACCTGTC  
AACATAATTTGGAAGAAATCTRTTGTACTCAGATTGGMTGYACTTTAAATTTTCCATTAGTCTATTGAACTGTACCAGTAAATTAARCCAGGAATGGATGGCCAAAAG  
TTAAACAATGGCCATTGACAGAAGAAAAGATAAAGCATTAGTAGAAATTTGCACAGAAATGGAAAAGGAAAGAAAATTTCAAAAATTTGGCCGTTGAAATCCATACAATAC  
TCCAATATTTGCCATAAAGAAAAGACAGTACCAATGGAGAAAATTTAGTAGATTTTAGAGAACTTAAACAGGAACCTCAAGACTTCTGGGAGGTTTCAGTTAGGAATACCA  
CATCCCTCAGGGCTAAAAAAGAAAAGTCAAGTAAAGTCTGGATGTGGGTGATGCATATTTTTCAGTTCCCTTAGATCCAGACTTCAGGAAAGTATACCGCATTCACCATAC  
CTAGTAGAAAATGAGACACCAGGGGTTAGATATCAGTACAATGTGCTTCCACAAGGATGGAAAGGATCACCAGCGATATTCCAAAGTAGCATGACAAAAATCTTAGAGCC  
TTTTAGAAAACAATCCAGACATAGTTATCTATCAATACATGGATGATTTGTATGTAGGATCTGATTTAGAAAATAGGGCAGCATAGAACAAAATAGATGAACCTGAGAGAA  
CATTTGTTGAGGTGGGATTTGCCACACCAGACAAAAACACCAGAAaGAACCTCCATTCCTTTGGATGGGTTATGAACCTCCATCCTGATAAATGGACAGTACAGCCTATAG  
TGCTGCCAGAAAAGACAGCTGGACTGTCAATGACaTACAAAAGTTAGTGGGAAAATTAATTTGGGCAAGTCAGATTTATGCaGGGATCAAAGTAAAGCAATTaTGAARCT  
cCTTAGrGGAKCYaAAGCACTAACgaARTAGTACCCTAACARAAGAAGCAGARCTAGAAGTGGCAGAAAACAGRGAGATtCTAAAAGAACAGTACATGGGGTGTATTAT  
GACCCATCAAAAAGACTTAATAGCAGAAATACAGAAAAGGAGCTTAGGCCAATGGACATATCAAAATTTATCAAGAGCCACTTAAGAATCTGAAAACAGGAAAATATGCAAGAA

TGAGGGGTGCCACACTAATGATGTAAACAGTTAACAGAGGCAGTGCAAAAAATAGCCACAGAAAGCATAGTGATATGGGAAAGACTCCTAAATTTAGACTACCCATACA  
AAAGGAAACATGGGAAGCATGGTGGATGGAGTATGGCAAGCCACTTGGATTCTGAAATGGGAATTTGTCAATACCCCTCCCTTAGTGAATTTATGGTACCAGTTAGAGAAA  
GACCCCATAGTAGGAGCAGAAACTTTCTATGTAGATGGAGCAGCTAATAGGGACACTAAACTAGGAAAAGCAGGGTATGTACTGACAGAGGAAGACAAAAGTAGTCTCCC  
TGACTGACACAACAAGTCAGAAGACTGAGTTACAGGCAATTAATCTAGCTTTACAGGATTCAGGGCCAGAAGTAAACATAGTAACAGACTCACAATATGCATTAGGAATAAT  
TCAAGCGCAACCAGATAAGAGTGAATCAGAGGTAGTCAGTCAAATAATAGAACAATTAATAAAAAAGGAAAAAGTCTACCTGACATGGGTACCAGCACACAAAGGaaTTGga  
GGAAATGAAAGAGTAGATAAGTTAGTCAGTGTGGaATCAGAAAAGTACTA TTTTTRGATGGAATAGATaAAGCCcAAGAAGAACATGAGAAGTATCACAGTAATGGAGAG  
CAATGGCTAGTGATTTAACCTACCACCTGTAGTAGCAAAAGAAATAGTAGCCAGCTGTGATAAGTGTGAGTTAAAAGGAGAAGCCATGCATGGACAAGTAGACTGTAGCCC  
AGGAATATGGCAGCTAGATTGTACACACTTAGAAGGAAAAATTTCTGGTAGCAGTTTCATGTAGCCAGTGGATATATAGAAGCAGAAGTTATTCCAGCAGAGACAGGGCAA  
GAAACAGCATACTTTATTTTAAAACTAGCCGGGAGATGGCCAGTAAAAACAATACATACAGACAATGGCAGCAATTTTACCAGTACTACAGTTAAGGCCCTGTGGTGGG  
CGGGGATCAAACAGGAATTTGGTATTCCTACAATCCTCAAAGTCAAGGAGTAGTAGAATCTATGAATAAAGAATTAAGAAAAATAATAGAACAGGTAAGAGATCAGGCTGA  
ACATCTTAAGACAGCAGTACAAATGGCAGTATTCATTCAAAATTTTAAAAAGAAAGGGGGGATTTGGGGGTACAGTGCAGGGGAAAGAATAGTAGACATAATAGCAACAGAC  
ATACAAACTAAAGAATTACAAAAACAAATACAAAAATTTAAAAATTTTCGGGTTTATTACAGGGACAGCAGAGATCCACTTTGGAAAAGACCAGCAAAGCTTCTTTGGaAAG  
GTGAAGGGGCAGTAGTGATACAAGATAATAGTGACATAAAAGTAGTGCCAAGAAGAAAAGCAAAGATCATTAGGGACTATGGAAAACAGATGGCAGGTGATGATGTGTgGC  
AAGTAGACAGGATGAGGATTAGGACATG

PG Hernández-Sánchez, CA García-Sepúlveda  
Laboratorio de Genómica Viral y Humana  
Facultad de Medicina – UASLP  
San Luis Potosí, México  
2011