

**Supplemental Table 1.** Consensus ancestral sequence of the S segment. This reconstructed reference genome helps identify mutations accumulated during viral evolution and their possible relation to neurological manifestations

| Segment S for Node 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AGCGCACCGGGGATCTTAGGCATT'TTGGTTGCGCT'TTCTTTTACCACACTGGGTGTCAGTCCCAGTTC'TT'TGTTGCC'TAGACAGCACCAGAGGGATCCATCG<br>AACCATGGGGCAGATCGTAACATTCTTGCAGGAAGTGCCCTCAAAGGAAATAAAATCCT'TT'TTGTGGACACCA'TCTTAGA'GGA'GGTGA'TCAACATTGTCCTTATT<br>GCACTAACACCATCCTCGCAGTCGTGAA'GGGCATC'TACAATT'TTGCCACCTGTGGCC'TATTTCGATTGATCAGCTTCC'TCCGAAGTCAGTCCTGTC'TGGCA'GATC<br>CTGTGGCATGTACGGTCTCAAGGGAACCAACATA'GACAAGGGA'GTACACAGA'GTTC'AAA'ACTGTTGA'GGGACCTC'GATA'TGGCA'GCACTCTTGACCAACCAGCA<br>ACATGACCATGCCATATCTCATGTTCAGCAACAAACACCCACCTCTACATCA'GGGTGGGCAA'TGA'GTCA'GGACTAGAACTAACCTTGACCATATTACACTAGCATT<br>ATCAATCACAGCTTTTATCTAGAGAAGTCAACCTCTCAGGTGACCACAACAAGAAGGCCCTCTAAGACCACGCTCTCATGAGAATAATCTAA'GCCTTTGTCCACC<br>TAACCAAACCAGGGAACCTTAATCAATATGAAAGCAATGAGTTGTGACTTGT'TGCTCAATGGAGCTCGGGCTGGCAAGATCGGAGTCCAATACAACCTGAGACA<br>CTGATATGCACTAGATGCAGAGTTGCTCACCAA'TCAGTGTGGGACCATTGCCAAGACAGAAGGTGGCATCC'TAGACAAAACAGGGGCAGGTTGATT'TACATCTC<br>GATGCAGTACAAGCATGGACTGCTTGC'GGTGGGAACTACA'GAAGGAGGTTTAC'GAATGGCCCCGACCATACAAACTGAGATGGCAAGACCACCCGGTACATCCT<br>GACCCCTGCTTGGAGGGTTACCAATGTC'TGA'TGAAAA'TCCAAAATACA'ACTGACACTGGGAAAACCACTGTCAGTTT'TCAAGACCA'TATAAACCCATGGGTAT<br>CTAGGGTTCACCTGTCAAAAGGAGCA'GGAAC'TTCCACGCTA'GAAGGAGGCAATATTTTGGAGACA'TTCTCAAGGTGTCACCTTGACTCTGACTGGTA'TCCTC<br>AAATCCACTCTTCAGGGAACGAAACCCCTGGGGGTTATTGTTT'GAGACACCCCTGGCAAAGT'GGA'TGC'TTATTGCAGCC'GAAGTGTTTGT'TGTCA'GG<br>AACACAGCAGTTTGGGAAGTGAATGA'GAATCATGATAACAGGAAGAAT'TCTGTGACATGCTGA'GGCTGA'TT'GACTTCAACAAGAAGCTATCA'GAAAGCTGA<br>AAGCAGAAACTCAGACGAGCATACATCTGATCAGCAAAGCA'GTCAACGCTGGCTGA'TCTCTGA'TCAACTGCTGATGAAGAACCATTGAGA'GATCTCA'TGAGG<br>GTGCTTACTGCAACTACACCCAAATTTTGGTACCTCAATCACAATGACA'GGGAAAACCTCACTCC'CCAGGTGAAACTGGCTTGTAAACAAACAATTCC'TACCT<br>GAACGACACCCACTTCTGTAATGACATTGAACAAGAA'GCCGACATCCTGATTACAGA'GATGTTGA'GGAA'GGA'GTATA'TGGACAGGCA'GGGAAAAACCCCTAG<br>CTTTAGTAGACCTCTTTGT'TTACACCACAGGGTTTACCA'GTGCTGTCA'TCAGCACACTCTTCTCC'GGAATATGGTCA'TTACCTGGTC'GGAATCCCA'CCCAT<br>GAGAACTCCTTGAATCATAAAAGGCGAACCATTA'AACTAAT'TGATA'TT'GCCC'TAGCCACACA'GATTCAACAACATGGGAAAATGCAGCTGTGGTCCATAA<br>CAAAATCTAAAGAAACAAGCAACCTGGTGTGGAAGCCAAAAGGA'ACTCCTGAAAGACGCTAAAGAACACAGACCCCTCC'CCGAGACCACCGCTTCGGCGGTG<br>GGTCTCGGGGGCTGGAGTGACTGTTCCTTGATGGCCCCGTGGCCACCGGTCTC'GAAAGAGGC'GGCGGTGTCAGGA'GGCAGAAAAGGTGC'GGAAGCTTACC<br>GTTCTTACAGTGCAAAAAGCTGCTT'TGGGAAATGATGTTTGAACACCAAGTCTTGGGTA'GAATGTTGTGA'ACTGGTCTCAGA'ACC'GGCA'TATGGAGCCCCCT<br>GTCACGGCTGCCTCAAAACATGATGCAGTCCATCA'GTGCACAGTGA'GGTTCACCGGGGGCGGGGCTGGGGGGTAATCTCTTCTT'GCCACC'TCTCTTCTTTT<br>TCACAACCACTCCAGTATGCTTTTAGAGTCCACATGCACAAGTGACC'GTA'TTATCCCATCTGTGAGGT'TTGGACACGACTTGATCTCAAATTCCCTGGAATC<br>ATCCTTTTGACTAGGGTCAGGTCAACATCAATCAGTTTAAAAATCTCTCTTCCCTGGAA'GTCAAGAA'GGTCAACTAGACTTCTTGATGTCATCA'GAACCTTGACT<br>GGTCATAACCATGTTCTGAGGCA'GCACCCCAATGACAGA'ACTGGTCAACCTG'GTGAGCATCGAAAAGGTCCGCCATATCAATGCC'GTGA'GAGTATTTGGTAT<br>CTTTCAAGTTTGAACCGTTTAAATAAGCCAACATTTGGGCA'GTGATGTCTCCTGTAGAA'GTGTGGTGA'TGTACTGCTCTTCTTA'GGTTGGTAAATGCT<br>ATTTCCACAGGGTCAAGTAGGTGGTCTCTCAATGTCAATCCAAGTATTGTC'GTTTGGGTCAAGTTCCCCCATTGCCTCTTGAATACCA'TTA'ACTGACTGTAGGT<br>CAGGCCAGCCAGTGGCAACCTTGCAGCTGAACGGCTGGTCTGTTGGA'GTGGCACTGCCAGCTTTTGGATGCAGGCTCCGCATCTGACTTCTGGTCAGATCCA<br>CAGTCGTGTTTCCCATGCCCTCCCACAATCTGTGTTCTAGAAGCTATGTAA'GGCCA'GCCATCACC'TGAAAGACAAAGTTTGTAGAGGATGTTTTCATAAGGGT<br>TCCTCTCGCCAGGTTTGTG'GAAACAAACATACCCTGASTTCTCTTGACCTTCAAGA'TAGCCTTCAA'GAGGCCATCGATGTGTATGGTGCACTATGA'TTGTCT<br>CCAACATGTTTCCACCATCAACATAGAAGCTCCAGTCTTTCACTG'GACGTCCAGGCTGACC'GATGAGTTGTAACCTGAAATGTTGA'TGGAGCTCTTCTCTGT<br>ATTAATTTTGGATCTCCAGAAATTGATGGCTCTGA'GTCA'GCCTGTCAAGGTCACAAAGTTTGGGTACTTA'GCTGTGTAAAGCAGACCCAGGGCTGTCTCTATA<br>AACGCTTGTACCACATCATTCAGAGCAGCCCCCTCTTGGTTGGTCATACATGCAAT'TGTCAAACCCGGCATA'GTGCCAAACTA'GATTGTTCAGCA'GCCATGGGTC<br>TTTCACATCCCAAACCTCTCACCACACCATTTCCCCCAGGATGAGCCCCCTGCTGA'GCACCACTCAT'TCCGACTGTC'TTAGGA'ACTCTTCTCTGGTCAA'GTGTC<br>GGTGAGGTTAGGTTACCCATATAAACCCCTGAACCCAGAGGCTGTTTCTGCTCTAATGATCTTGGCCTTCAGCTAGATCTCAA'GGTCAGCCGCCA'GAACCACTCA<br>GGTCATCCGAGGTCAGTTCTAGTCCCACCTCTCAAACACTCTTCTGTGTGCTGACTTTAAATCCATAAGCATGTGGACA'GCCTGGTCATA'TCAGGTCCTCAA<br>TCTTTAGTTCAGAGTCAGGTCATCTCATCCCTTTTA'GAAAGACTCTTGTCTCAACACCCGCTGCACATTGCCGACCTGAGAGAA'GTGACCAAACCAACAAGGC<br>CACACGTTGCAGAA'TTGCTTAGCATCTCTCAAACACTCTTGCTT'GACAGTTTGGGTCACTAGACTGACAACTCTCTCTCAAAGACTGCTGCCACATGAAGCTC<br>TTCACTTCTTGGAGAAAGTCA'TCATTGGGCTCAAAGGTGTGGAGATTCA'GACAGAGAGTGCAGACTATCCACTGAGTAGCTCAATGCAAATGCGCAATCCA<br>ATATGCCTAGGATCCACTGTGCGCTAATGGATTGCATCATGTTCTGATGCTGCTGTGTCAGGAGGACTAAATGCATCGGTTCTCAGGGCTGTATTGCCAGGGAC<br>ATGGTGTTTAGAACATCAACACCAAAAAGTCGTCTGTAAATGACGCGCCCCGTGACCCACCGCCAAAAGGCGGTGGGTACGCGGG |

**Supplemental Table 2.** Consensus ancestral sequence of the L segment. Mutational changes in the RNA polymerase gene may play a role in viral adaptation and neurovirulence

| Segment L for Node 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CGCGCGTCCCTCGAAGCG-GGTTCGCGCC--<br>CGCGCACCGGGATCCTA GGC GTA GTTTGGTCGCCTTTCC TTGAGTACTGAATAAATATAAATCTTTC TGGATCACCA TCTA GAGAATCTGTGCAAGACTGCCC<br>TCAACTTCTCTGCAAAAATGGGTAACAG-CAAAC-AAG-CCAAGC-GTCTCCCAACACACAAACACTATCCTACAGAACACAC GACAVTCAATAGAACCCCA-<br>CAGTCACAGTGTTCAGGAAATGA GAACGTCTGAATGTCACCCA GTCTCTATACA TTTA GCGCGACA GAACTGACAACGTGTTGCTGA GTTTCCCAACATA GCTCTG<br>ATTAAGTGCAATGACCATTATTTGGTGTCTC GAAGAGAATGTCTAAACCTACTCCTGAGAATCTCTGATA GTTGTVC CATTGTGTTGAAACCTCTACCCACAACV<br>TTCACAGTTCCTCGTCCGCAAGTGCACACCTC CAAAAGACTAAATCATAACCCTGAACACCCACACACTTCCACC-TACAGTCCCTGAATCG-<br>CCACCGCCCCCAACACTCCCATCTCTCCCGGAGGCCCA GGGGGGGCCCCCCCCCGGGGGGGGCGA GCTCTCCCCTCATC-<br>ATCCCGGGGGGTTGCTCA TCCTC GATGCAC-<br>CGTTACTCGATGTTTTCAATGGA GTTTGATGCTACCTCGTCAGCCC TTACAGGTATATCCCC TTTA GAATTTCAAGTTTCC-AGC-<br>TTGACTCTGATATCACACGCTTTTGACACATTTGAATA TATGACACTTTAAAAGTTTGTGAA TTCACCCAATCGCCAAAT-TTCAATAGATTCTCTAAAA-<br>TTCCTTCTAGGTCCTCGGTCCGACC GCCCACACC TCATCAACAATTGA-CAA-TCCTCTATTTGCA TAGCAACCTTAAT-<br>ATTTGTGGGGTTGTCTGCA TATAAGTCAACACTCCCTTCAGCACC TTA GAAAAAGTCC TAGAAAGTGGGAAATTC AACCTCTTTT TTTCAA TCTA GCGCCCCAAA<br>TGCCTTCAGATT-ATATCGTCTGTAACTCAATGAAAACCTTTAAA-CCTGACACTTTC TTACCACC TACCACAAGGCACC-<br>TTATTGACACTCACCGGGACTTCTTGATT-<br>CAATTAGGTCCACGAATACGGACGGGGAAGTGA GACTAGCACTGAATATTTGTCACTTAGCTCTACATAAAATTTA TCTAAACATTTC-A-<br>ACTAATTGATCCCATCA-GAGACTCTCATTTGTA TGACTCTG-TAGATTTGTCTCAATTAACAACCTCAGCAAT-<br>ATCTCAVIVTAAATCGACACTGCCATCTTCCCTTTGCAACATGGGTGCA GATGCAACAAGTCTTAAACCATCTGACAC-<br>ATATGGGTTCTACTGACCCA GACTAAAT-CCAGACA GCTCCACAC TCGCCACA TTCAACATCCCTGGTTTTTT GTTCTAGAA GTCCCTTA TATTCA T-<br>ATGGATGCTACTGTCAATTC TGTGAA-<br>AATACCAATTTTTCTTTATAACTTTGTACTTTGTGAGAATTTCTTTA TATGCAGAATTTGCATGGTTGCTGTCCCTTATCAGATCTTCACCTTACA GAATTTATCC<br>TATCAAAACAATCTCCCTATGTGAGCAGAGCTTTCTTCTTGCAG-C-CAACTGAACCTGAGATTTCTTAAAAATGATCCATA VAACTTAATGTGATTCT-<br>ACAACCTTCAAGTTTGACACAGCATAACCCATAAT-<br>TACTTACATCATGTCTCAACATTTGCTCTA TCAACATTTTTCTGTGTAACTA TCAACGCAAAGTTA GACAATGCACC TAACTTAA GTAGACTTTTCATCCGTTTGTCT<br>TAGTTTTTAAACCTCATGTGGAACAGCTCA GTTGTAGACTCGGAATGACTCCAATGTA GATGTGGAAATTAATAATGG-<br>TTAACCCAAAGAAGTGTATGGATGAAAAGAACAATTGAATTTTGAAATTTGTTCCAAATCTGA TGA GGACTCACTACTATTTTCTTVACCA TAGG-<br>TCAGATTGTCTTATGTGTCTAA-<br>GCACACAAGGCCCGGATGGTCACTTGCTTTAACTA TGTACAGGTCTTTATTTTTCTTTTACCAGATGACTCATAAGACCCACATTTTTCACAVATCATCTCTAA<br>TGCAACGTGACACACATCTAGATTTTATGGA TTTAAATTTTA TCCTA GCCGAATACATTGTCTTAC TGACTTGAAAGTGCATTTCA TAATCCTATGGTACTAAGT<br>GTCTTCAACCCAAAACCAAGGATAAGTTCT-<br>CTTATAGAATGCAACATATGATTTAAACCTACTTTATCTTCAAATA GTTTTA TTACTTTA GGCTTCAVGGGCAAATAC GTCAAAAAGAGGTTGTGATCACACCTG<br>TTTAAAAACACTGGCCTTTGCGCA G-TTTAACTTC-AACAATACCCA TTCTCC-<br>AGTTCACGTGCAAGTTGCTAGC GCAATGAAAAATAATCTTATAAAATAGCTCTTGTTCATTGGTCCAAAATTTCTCCACTTTCACTTCCACTTCAATTGAATTGAG<br>CCGTCTCTAACATT-ACTGAATCTGACAATATTA GATCATTTTAGGATTTTTC AACATATCA TTACTT-CACATCTA-<br>ACATATTAGATTACATGTCTTTAATGTATACGAATTC TGGTCCG CCTTTTGGGTCTCGAACACACTTGTCTACCCAG-<br>CTTTTCATAACCCAAATCAACCTGAGTTCTGCAATA GATCACTGGAATGCA GATTTGTTCATTGATTCCGTCAGCATCTTCTGCCACC TTTGGTGAAATTGAT<br>GGA-<br>ACTTTCGATTGTAATGTCTTGATTAAAGTTGGAAGTTTTCCTTTTACAGVT TAACTCCACTA GAGGACATTACCTTTGTCTCAAAAACCAGTCTTAAAGGATG<br>AGGGGTGGATAACTTCAACCA GCTATA TTTTAACACCCCTTAAGGCTTTTC GGGACCACAACAACCTTGCAAATTACAAAAAATTTTAAAGCC-<br>TCATCGGACCCCTTCAAAACAACCTAATCAAAAATTTCTTCATC-<br>ATTTGCCGTCTTTATTTTATTAACACTTTTCTAGTGTCTACTTTCTAATAAAAAAGAGTTTCCAGTAGTTTCTCATCAGGAAATAAAATTTTCAATTTGTCTTT<br>GGAGCCGCTAACCTCTTGACCCATGAATCCAAATTTGT-<br>ACTTTGACATCTTGATTTTCA TTCA GTTCCAAAAAAGGGGTAGCA GGCTATCTAGACTATCTCCTGGCA GAAATATGTTTGA TGGAGAATAAAATGCTTACCTC<br>TCTTTGATATTTGCCTCACAATA TCAATCCGGACACAACATTA GCAACCCACTGAAGA GGTAGGAGGGCCAATGACAAAGGA GATGGA GAAAAACTCACAATA<br>CAAAAGGACTACCGTATCAATAGTTTCTGCCAATTGAGGTGGTGTTTTACACTTTACATTTATGTAAACGCTGCGGCAACAACTTTGTCAACAATGGTCTTCTTC<br>ACCCCTGATAAAGAATCTTGACTTCAACTCTGCAACCAATGATGACATGAAAAATTGCC GATCACACCTTTTGGGATTACACAAA-<br>TTGTTGGATTTTGAACACACAACAATCGTGGAACCTCAGAC-GTTTCTAAGCACTCCCAA-CA TCTGAATCTTCTTGTAAGGCTTTGTG-<br>CCCAAGGTGCTTGGTTGTTGAAAAAAGAGTCTTTGATTATCACTACA GTCTAA GCGTCATCTCAGACATTACATCA GACAACACATCGAATCCA TAATTTTC<br>GGAATTGCTCAGTACAAACTGGAGGAA TACATAAAAAATCAGTGAGAGGA TCCGTA GTGTAGTAT-<br>CCGTGACTTTTGCCCATGTCTACTACGGACATAATGTGA GGC GGAATTCACCATTTAACTG-AA GTT-TCCTCAAAGAACTGTCTTTTATT-<br>GACTGCTACATCCCCATTTCAATTAATCCTA GT-GCCTTTTATCAACGCCTTTC TCATACAGTACGCTTCAAC-<br>ACATTGATAGGTGAAACTTCTACCTTTTCTGGACATGCCACGTGAGTATAGTTGACACCTCTATAATCAA GATCTA TTATTTGATATGCTTACAAGGATTTT<br>TAAGCATCAATTTTAGATTTTGTAAAAATGCCAACAAAAGAGVAGGACACATACTTGGTGCC CATTTTGACTGATACCATTGGAATAAGAAAAATCACCATTTT<br>TCACACCGATCATCAGATCAACGATTGCTTTTCAAATTCTTTTTCAT CGATTGAGGCAACTCTA-TTAGTTAGTT-<br>CCTACTTTTGTCTTAAGGCTTC GAAGAAGTCTTCTACCA GGTGA TGACCA GTATGTGCTGCC GGAAGATCTTGTAACAACCTTTGTGTTAAGGTACCCCAT<br>GTACATGCTCTCTGTTGCCACCAACTGTCTGAATGCAATGAGACACTTATAGGTCAACCAAAATTTAAGACTTCC TGTGTGATTGCGCC TAATAGTCTTGTA<br>ATAAGTGGGTGA-TCTTCAGAATAAAACCACAAAATTTT TAATGTGGCA GTCGTGAA GTGAGTTATA TCCAGTTTTTGTGT- |

---

ATATGCCCTCTGAATTGCTTTCTCTTTTACTAATTCTCACATCTTCATTGAGTTTAA-  
TCTCTCATACGTGAAACCCACACTTGATCTATTTTGTGTCTGTACCTTCCTAGTTGTGATCAAACTTTACTTGTAACTAGGGACTTAAAACTTAAAGTA  
TTCTTCTCTTCATAAGTTTGTGTGCACATTTTGTGGCAGCAATCCTAAAGGACAGACATCTAGCA-  
TTCTTCACGGAAGAACTATTTTCTTTAAATTTTCTGATGA-TTCTAAACTGCTGTGTCACA-  
AACTTTATCAGCTCATAACTTTACCTGGCAACATCGCTGCAGACTCGGGA TCAAAATCCTTAACATCATGACTCGATATCTCACCTCTAAT-  
ACTTTTATCTCCTTAGGATTTGACAATAGATTGTCCAGAGAATTGTTT-TATTTGCCCTGAATCATCAGTT-  
CGCTTGGAGTTTAAACCTTGTTGTGTAGTCCCA GTAATTGTATTTTGTCTTAACCGTATCTATAACAGAATACTT-  
ATCTCGCTTCGCGCTTCAAATGGCAA GAGTTC TCAAGTGGTAATCAATTTTC -TTTCGATCTATATCTAGTAA-  
CTCTACATACAACGAGGACAATTCTCTTGATTGTCTTATCTTTAGATCCTTTTGAAC TACCAAAATTATTCA GCGTCTCCTATTTTCTAATCA TGAA GTTC  
-TTGGATCAGGATTTA GATTGTACTTTCTTTGTGTGCAAAC TTTCTGCCACTTACGAAACAGATA -TGCTACCATTAATTTTATAGTCA TACTTTAA-A-  
TATAATATT-CCTGCATCATCTAATTTTGGCATAACAACACTTTAATGAAGA TCTCGATCA GTCCA GCGCAGT-GCACACCGTACTTGTTA-  
ACTCGGATCAGTGGGCTCCATTTTTAATTC CCCATCAAC-  
TTAACTTACCCTTTGAATTA AAVAAAGATACAAAAGAAGGTAAAC TTTCTTTTGAACACCAGGTTTTTCAAATCTTCAGTGTCCATTAAATCATTTGTGCATTC  
ATCTTTTCAAAGA AACTTTTTCACCCTCTCTCAATCAAGATATCCTACTCGTCTCA GGTGAVTTTCTA GTCAAATATGGGTTCAACAACCGCACTACCAAAT  
TT-AC TTTGCGTTCATGA ACTTCTCAAAACATTTTATTTGATTTGTACTCTATCTGGTGTATAGGTCTTTTCTAATCGAT-  
TTTTAGATGGCAGATGTA GCTAACATTCAGAA GAAACGTCAACCTTCTTGTGAAAAC-AGCTTTGCATCTGAATCATCACCTAA GATCA GAAT-AC-  
ACTTTCATTTCTAACCTATGCACCAGGA-TTTGAATTA GGGTTGCATTC TACTTCCAATTTGTGACAAACAGTCTCATCCATCA GCTCCACATGATGA GTTTG-  
TTAACATATGCCATTATAAAGTACTTACTCTTTGGAGAAATGTTGTATTTCA TTTGAGCAATTCCTTTTGGTTGGCGACTCAGTA TAATCAAAACTGACCAA  
AACCATTATCAATACTGCGGACCTAATCTTCTTCAACTC -CCTTCCAAC TCTTATCA TCATCCACCCA G-GGATCATTGC-  
TCAACTATTCTGTGAACACTTCAGCGGAAAAATATGGGCA GAAAGAATGTTTTTGGATCACTATAAAATGATCCCA GTTCTGACA-CTCACCA TTTTGA AAA-  
ATGAATGGAATAACACCTTGA-CGCGCACC GTCTTTTGTCTAAAG-A GAACACCAAATGCAC T-TTAGTTAACAAAAACCTTTGCA-  
ATAAGCTTCTTCCATTTAGCTCTCACCGTACCCGAATA TCT-  
GAACCTTCATTTTCAATTTGGAATCAACTTA GACGAACATGATGCTTAAATTGA TATTAACCACACCTAAA GATATTGACGACACAGTCTCAACAATCTCTTAA  
ATTACCGTCA GTGATTTTCTGTACTTATGCTAACATTTTCCATCCGATCAA GGAATGTTTCTTACTTTGTTCAGTCA TATAACCTTGC CAATTTCTCATCA  
TTGGTIVTCACTCCGCAAAGATCCTTAGCTAATCAAAATAACT-ATCAAAGTCTGGTGTGTTTCTCAAATTTGCTTATGTAAT-  
TCAGATTTATCGTTGTATCGCTTTA GAACATTTCAACAAC TTTCTTAAACCACTTCTGACTTTCAAATCTTAACTTCTATA GTTTTGCAATATTAAATTAAG  
-  
ATTTGCTTAATTTTGTGCTCA TAAGTCTCTTGTGCGATCCA GAATTTACCAC TCTACTTCCACTCAATCCATGCTTTTTCAGATCTCTCTTCGTGACTCT  
AAAGAACTAATATCATCTGAACAATTATGAATCATGATCTTACCACCCTTCT-AATCTTCTATCCCTTCA GACATTT-TTCTCATGT-  
AACAACAAAATTTAACTGATCAGATCGAAAAGTACTAGTCTTTTCTTCTGGTCTTTAAGATCTTTAAAC TTTTGTTTATTTGCA GAATGATCTCAAGTCTC  
TCATGTAATCTTCTCCTCTAGTTTGGTTAGCTTCTGGGCTATT-  
AGVTTATCCAAATTATTAAGGTTCTTGTGCCCACATTTTCTGTACTTACATCTTCACAAAACCAATTACGTAGTCATCAAATCCATGATTTCTGTACCAT  
CAGAATCTTAGCGACAGTCTGCGGCACCTGTAGCTG-CTGATGCGCATATAATC-CATT-ATTGACATTTT-AGTAAT-  
CCTTTTGTGAGTCTGATCAGATCAGATTTCCCTA GACTTTT-TTGGAGACTCCTTTCTTGAACCA-  
CTTTTGTAGATAAGAATATTTGATCA GTTCTTCCCTATCTGTGATTCTACCGCATCACCTGTTAAATCTTCTTTAATGCCGTAAACAATGATGCATTTACCCT  
CTCATCTGAAGAGTTTGTATGATTCAAACCATTTCTTTGACAATTCTAGATTCTCCAACCCCAAGCGTTGACT-  
TTAGTCTTGATAGACTATGACATAGTCTATGATA TCTGACTCTTCAAATCTATTTCA GCACTAGCTTTTGCATCTTTCAATA GTTACA TCAGCAACCTCTTA  
ATTTTCACTCACCCAATCAGGCATAAAATTTCTGCTTGGATTT-C TCTGCCCCTCAACAAGGGGAAC TGAAGTCAATCC-  
CCTTTTGTAGGCTTTTTTGA GCTTTA-TAGTTTTTTCATGTCTATTTCTATTTCTTCC TCAAA-  
TCATCGGGATTTTGTAACTTTACAAAACGACTCCA GCACAATTAGAGGTTT-  
CTTGTCACTTTGAAACCATCAGGTATCACATTTGGTACACATTTGGTGGCTTTAGAGA TCAATCCCATTTCTCA GCGAGTATTATA TCTACAAATCTTTCTTGTG  
ATGCCACTGTTCTGTTCGCAAGCTAAGTTTGTGCA GGA TTGCAGACTTAAATTTCAACAAACAAAGATAACCAGCTTCC TTTGACCCCTCAATGACTAACACA  
CTCGGATGATTTGCCAAAGAAATGCGACCTTTTGATCTGCAAGTTT-TCC TCTCAGGTAA GTCTTTTCTAAT-  
ACATCTTTGACTTAAGACATGGTTTCTTCGATGCTTCA TCCATGCCTCA TGTTCTCTCGCTTAGCAT-TATTTGTGTGCGAGCGC-GT-  
GTTTTACTATCCGATACGGTCCCTTA-  
GGGCACAGAAGACACAAGAAGVCTTCAAGACAATAAATTTAAATTACCTTACTGCC TAGGATCCACTGTGCGCTTTTTCAACTGCGCAAAGCAATG

---