

Supplementary 1: Reference Sequence: The Mitochondrial sequence (hg38:2013) shows all the 345 CG (underline and bold CG) and 53 red colour with underline and bold CG.

1 GATCACAGGTCTATCACCCCTATTAACCACTCACGGGAGCTCTCCATGCATTTGGTATTTT
61 CGTCTGGGGGGTATGCACGCGATAGCATTGCGAGACCGCTGGAGCCGGAGCACCCCTATGTC
121 GCAGTATCTGTCTTTGATTCCCTGCCTCATCCTATTATTTATCGCACCTACGTTCAATATT
181 ACAGGCGAACATACTTACTAAAAGTGTGTTAATTAATTAATGCTTGTAGGACATAATAATA
241 ACAATTGAATGTCTGCACAGCCACTTTCACACAGACATCATAACAAAAAATTTCCACCA
301 AACCCCCCTCCCCCGCTTCTGGCCACAGCACTTAAACACATCTCTGCCAAACCCCAAAA
361 ACAAGAACCCTAACACCAGCCTAACAGATTCAAATTTTATCTTTTGGCGGTATGCAC
421 TTTTAAACAGTCACCCCCACTAACACATTATTTTCCCCTCCCACCTCCCATACTAAT
481 CTCATCAATACAACCCCGCCCATCCTACCCAGCACACACACCGCTGCTAACCCATA
541 CCCCGAACCAACCAACCCCAAGACACCCCCACAGTTTATGTAGCTTACCTCCTCAAA
601 GCAATACACTGAAAATGTTTAGACGGGCTCACATCACCCCAATAAACAAATAGGTTTGGTC
661 CTAGCCTTTCTATTAGCTCTTAGTAAGATTACACATGCAAGCATCCCCGTTCCAGTGAGT
721 TCACCCTCTAAATCACCACGATCAAAAGGAACAAGCATCAAGCACGCAGCAATGCAGCTC
781 AAAACGCTTAGCCTAGCCACACCCCACGGGAAACAGCAGTGATTAACCTTTAGCAATAA
841 ACGAAAGTTTAACTAAGCTATACTAACCCAGGGTTGGTCAATTTCGTGCCAGCCACCG
901 GGTACACCGATTAACCCAAGTCAATAGAAGCCGCGTAAAGAGTGTTTTAGATCACCC
961 TCCCAATAAAGCTAAAACCTCACCTGAGTTGTAAAAAATCCAGTTGACACAAAATAGAC
1021 TACGAAAGTGGCTTTAACATATCTGAACACACAATAGCTAAGACCCAAACTGGGATTAGA
1081 TACCCCACTATGCTTAGCCCTAAACCTCAACAGTTAAATCAACAAAATGCTCGCCAGAA
1141 CACTACGAGCACAGCTTAAAACTCAAAGGACCTGGCGGTGCTTCATATCCCCTCTAGAGGA
1201 GCCTGTTCTGTAATCGATAAAACCCCGATCAACCTCACCACTCTTGCTCAGCCTATATAC
1261 CGCCATCTTCAGCAAACCCCTGATGAAGGCTACAAAGTAAGCGCAAGTACCCACGTAAAGA
1321 CGTTAGGTC AAGGTGTAGCCCATGAGGTGGCAAGAAATGGGCTACATTTTCTACCCAGA
1381 AAATCACGATAGCCCTTATGAACTTAAGGGTCGAAGGTGGATTTAGCAGTAAACTAAGA
1441 GTAGAGTGCTTAGTTGAACAGGGCCCTGAAGCGCGTACACACCGCCCGTACCCCTCCTCA
1501 AGTATACTTCAAAGGACATTTAACTAAAACCCCTACGCATTTATATAGAGGAGACAAGTC
1561 GTAAACATGGTAAAGTGTACTGGAAAGTGCACCTTGGCGAACCAGAGTGTAGCTTAAACAA
1621 AGCACCCAACTTACACTTAGGAGATTTCAACTTAACTTGACCGCTCTGAGCTAAACCTAG
1681 CCCCAAACCCACTCCACCTTACTACCAGACAACCTTAGCCAAACCATTTACCCAAATAAA
1741 GTATAGGCGATAGAAATGAAACCTGGCGCAATAGATATAGTACCGCAAGGGAAAGATGA
1801 AAAATTATAACCAAGCATAATATAGCAAGGACTAACCCTATACTTCTGCATAATGAAT
1861 TAACTAGAAATAACTTTGCAAGGAGAGCCAAAGCTAAGACCCCGAAACCAGCGAGCTA
1921 CCTAAGAACAGCTAAAAGAGCACACCCGTCTATGTAGCAAAATAGTGGGAAGATTTATAG
1981 GTAGAGGCGACAAACCTACCGAGCCTGGTGATAGCTGGTTGTCCAAGATAGAATCTTAGT
2041 TCAACTTTAAATTTGCCACAGAACCCTCTAAATCCCCTTGTAATTTAACTGTTAGTCC
2101 CAAAGAGGAACAGCTCTTTGGACACTAGGAAAAAACCTTGTAAGAGAGTAAAAAATTTA
2161 CACCCATAGTAGGCCTAAAAAGCAGCCACCAATTAAGAAAGCGTTCAAGCTCAACCCAC
2221 TACCTAAAAAATCCCAAACATATAACTGAACTCCTCACACCCAAATGGACCAATCTATCA
2281 CCCTATAGAAGAACTAATGTTAGTATAAGTAACATGAAAAATCTCCTCCGCATAAGCC
2341 TGCGTCAGATTAACCACTGAACTGACAATTAACAGCCCAATATCTACAATCAACCAACA
2401 AGTCATTATTACCCTCACTGTCAACCAACACAGGCATGCTCATAAGGAAAGGTTAAAAA
2461 AAGTAAAAGGACGCAAACTTACCCCGCCTGTTTACCAAAAACATCACCTCTAGCA
2521 TACCAGTATTAGAGGCACCGCCTGCCAGTGACACATGTTTAACGGCCGCGGTACCCTA
2581 ACCGTGCAAAGGTAGCATAATCACTTGTTCCTTAAATAGGGACCTGTATGAATGGCTCCA
2641 CGAGGGTTCAGCTGTCTCTTACTTTTAAACAGTGAAATTGACCTGCCCGTGAAGAGGCG
2701 GCATAACACAGCAAGACGAGAAAGACCCTATGGAGCTTTAATTTATTAATGCAAACAGTAC
2761 CTAACAAACCCACAGGTCCCTAAACTACCAAACTGCATTAATAATTTCGGTGGGGCGAC
2821 CTCGGAGCAGAACCCAACCTCCGAGCAGTACATGCTAAGACTTACCAGTCAAAGCGAAC
2881 TACTATACTCAATTGATCCAATAACTTGACCAACGGAACAAGTTACCTAGGGATAACAG
2941 CGCAATCCTATTCTAGAGTCCATATCAACAATAGGGTTTCGACCTCGATGTTGGATCAG
3001 GACATCCCGATGGTGCAGCCGCTATTAAGGTTCGTTTGTTCCGATTAAAGTCTCCG
3061 TGATCTGAGTTTACAGACCGGAGTAATCCAGGTCGGTTCATCTACNTTCAAATTCCTCCC
3121 TGTACGAAAGGACAAGAGAAATAAGGCCTACTTCACAAAGCGCCCTCCCCCGTAAATGAT
3181 ATCATCTCAACTTAGTATTATACCCACACCCACCCAAAGAACAGGGTTTGTAAAGATGGCA
3241 GAGCCCGGTAATCGCATAAACTTAAACTTTACAGTCAGAGGTTCAATTCCTCTTCTTA
3301 ACAACATACCCATGGCCAACCTCCTACTCCTCATTTGTACCCATTCATAATCGCAATGGCAT

3361 TCCTAATGCTTACCGAACGAAAAATTCTAGGCTATATACAACTACGCAAAGGCCCAACG
3421 TTGTAGGCCCTACGGGCTACTACAACCTTCGCTGCGCCATAAACTCTTACCAAAG
3481 AGCCCTAAAACCCGCCACATCTACCATCACCTCTACATCACGCCCCGACCTTAGCTC
3541 TCACCATCGCTCTTCTACTATGAACCCCCCTCCCCATACCCAACCCCCCTGGTCAACCTCA
3601 ACCTAGGCCTCCTATTTATTCTAGCCACCTCTAGCCTAGCCGTTTACTCAATCCTCTGAT
3661 CAGGGTGAGCATCAAACTCAAACTACGCCCTGATCGGCGCACTGCGAGCAGTAGCCAAA
3721 CAATCTCATATGAAGTCACCCTAGCCATCATCTACTATCAACATTACTAATAAGTGGCT
3781 CCTTTAACCTCTCCACCCTTATCACAACACAAGAACACCTCTGATTACTCCTGCCATCAT
3841 GACCTTGGCCATAATATGATTTATCTCCACACTAGCAGAGACCAACCGAACCCCTTCG
3901 ACCTTGCGAAGGGGAGTCCGAACTAGTCTCAGGCTTCAACATCGAATACGCGCAGGCC
3961 CCTTCGCCCTATTCTTCATAGCCGAATACACAAACATTATTATAATAAAACCCCTACCA
4021 CTACAATCTTCTAGGAACAACATATGACGCACTCTCCCTGAACTCTACACAACATATT
4081 TTGTCACCAAGACCCTACTTCTAACCTCCCTGTTCTTATGAATCGAACAGCATACCCCC
4141 GATTCGCTACGACCAACTCATAACCTCCTATGAAAAAACTTCCCTACCCTCACCCCTAG
4201 CATTACTTATATGATATGTCTCCATACCCATTACAATCTCCAGCATTCCCCCCAAACCT
4261 AAGAAATATGTCTGATAAAAAGAGTTACTTTGATAGAGTAAATAATAGGAGCTTAAACCC
4321 CTTATTTCTAGGACTATGAGAATCGAACCCATCCCTGAGAATCCAAAATTTCTCGTGCCA
4381 CCTATCACACCCCATCCTAAAGTAAGGTCAGTAAATAAGCTATCGGGCCCATACCCCGA
4441 AAATGTTGGTTATACCCCTTCCCGTACTAATTAATCCCTGGCCCAACCGTCATCTACTC
4501 TACCATCTTTGCAGGCACACTCATCACAGCGCTAAGCTCGCACTGATTTTTTACCTGAGT
4561 AGGCCTAGAAATAAACATGCTAGCTTTTATTCCAGTTCTAACCAAAAAAATAAACCCCTCG
4621 TTCCACAGAAGCTGCCATCAAGTATTTCCCTCACGCAAGCAACCGCATCCATAATCCTTCT
4681 AATAGCTATCCTCTTCAACAATATACTCTCCGGACAATGAACCATAACCAATACTACCAA
4741 TCAATACTCATCATTAATAATCATAATAGCTATAGCAATAAACTAGGAATAGCCCCCTT
4801 TCACTTCTGAGTCCAGAGGTTACCCAAGGCACCCCTCTGACATCCGGCCTGCTTCTTCT
4861 CACATGACAAAAACTAGCCCCATCTCAATCATATACCAAATCTCTCCCTCACTAACGT
4921 AAGCCTTCTCCTCACTCTCTCAATCTTATCCATCATAGCAGGCAGTTGAGGTGGAATAAA
4981 CCAAACCCAGTACGCAAAATCTTAGCATCTCCTCAATTACCCACATAGGATGAATAAT
5041 AGCAGTTCTACCGTACAACCCCTAACATAACCATTTCTTAATTTAACTATTTATATTACCT
5101 AACTACTACCGCATTCTACTACTCAACTTAAACTCCAGCACCCGACCCTACTACTATC
5161 TGCCACCTGAAAACAAGCTAACATGACTAACACCCCTTAATTCATCCACCCCTCCTCCTCCT
5221 AGGAGGCCTGCCCCCGCTAACCGGCTTTTTGCCCCAAATGGGCCATTATCGAAGAATTCAC
5281 AAAAAACAATAGCCTCATCATCCCCACCATCATAGCCACCATCACCCCTCCTAACCTCTA
5341 CTTCTACCTACGCCTAATCTACTCCACCTCAATCACACTACTCCCCATATCTAACAACGT
5401 AAAAAATAAAATGACAGTTTGAACATACAAAACCCACCCCATTCCTCCCCACACTCATCGC
5461 CTTACCCGCTACTCCTACCTATCTCCCTTTTATACTAATAATCTTATAGAAATTTAG
5521 GTTAAATACAGACCAAGAGCCTTCAAAGCCCTCAGTAAGTTGCAATACTTAATTTCTGTA
5581 ACAGCTAAGGACTGCAAAACCCCACTCTGCATCAACTGAACGCAAATCAGCCACTTTAAT
5641 TAAGCTAAGCCCTTACTAGACCAATGGGACTTAAACCCACAAACACTTAGTTAACAGCTA
5701 AGCACCTAATCAACTGGCTTCAATCTACTTCTCCCGCGCGGGAAAAAGGCGGGAGA
5761 AGCCCCGGCAGGTTTGAAGCTGCTTCTTCGAATTTGCAATTCAAATGAAAAACACCTCG
5821 GAGCTGGTAAAAAGAGGCCTAACCCCTGTCTTTAGATTTACAGTCCAATGCTTCACTCAG
5881 CCATTTTACCTACCCCACTGATGTTCGCGACCGTTGACTATTTCTACAAACCACAA
5941 AGACATTTGGAACACTATACCTATTATTCGCGCATGAGCTGGAGTCCTAGGCACAGCTCT
6001 AAGCCTCCTTATTCGAGCCGAGCTGGGCCAGCCAGGCAACCTTCTAGGTAACGACCACAT
6061 CTACAACGTTATCGTCACAGCCCATGCATTTGTAATAATCTTCTCATAGTAATACCCAT
6121 CATAATCGGAGGCTTTGGCAACTGACTAGTTCCCTTAATAATCGGTGCCCCCGATATGGC
6181 GTTTTCCCCGCATAAAACAACATAAGCTTCTGACTCTTACCTCCCTCTCTCCTACTCCTGCT
6241 CGCATCTGCTATAGTGAGGCCGGAGCAGGAACAGGTTGAACAGTCTACCCCTCCCTTAGC
6301 AGGGAACTACTCCCACCCTGGAGCCTCCGTAGACCTAACCATCTTCTCCTTACACCTAGC
6361 AGGTGTCTCCTCTATCTTAGGGCCATCAATTTCAATCACAACAATTATCAATATAAAACC
6421 CCCTGCCATAACCCAATACCAAACGCCCTCTTCGTCTGATCCGTCCATAACACAGCAGT
6481 CCTACTTCTCCTATCTCTCCAGTCTAGCTGCTGGCATCACTATACTACTAACAGACCG
6541 CAACCTCAACACCACCTTCTTCGACCCCGCGGAGGAGGAGACCCATTTCTATACCAACA
6601 CCTATTCTGATTTTTCGGTCACCCCTGAAGTTTATATTCTTATCCTACCAGGCTTCGGAAT
6661 AATCTCCCATATTGTAACTTACTACTCGGAAAAAAGAACCAATTTGGATACATAGGTAT
6721 GGTCTGAGCTATGATATCAATTTGGCTTCTAGGGTTTATCGTGTGAGCACACCATATATT
6781 TACAGTAGGAATAGCGTAGACACACGAGCATATTTCACTCCGCTACCAATAATCATCGC
6841 TATCCCCACCGGCGTCAAAGTATTTAGCTGACTCGCCACACTCCCGGAAGCAATATGAA
6901 ATGATCTGCTGCAGTGCTCTGAGCCCTAGGATTCATCTTTCTTTTACCGTAGGTGGCT
6961 GACTGGCATTGTATTAGCAAACTCATCACTAGACATCGTACTACCGACCGTACTACCGT

7021 TGTAGCCCACTTCCACTATGTCCTATCAATAGGAGCTGTATTTGCCATCATAGGAGGCTT
7081 CATTCACTGATTTCCCTATTCTCAGGCTACACCCTAGACCAAACCTACGCCAAAATCCA
7141 TTTCACTATCATATTCATCGGCGTAAATCTAACTTTCTTCCCACAACACTTTCTCGGCCT
7201 ATCGGAATGCCCCGACGTTACTCGGACTACCCCGATGCATACACCACATGAAACATCCT
7261 ATCATCTGTAGGCTCATTTCATTTCTCTAACAGCAGTAATATTAATAATTTTCATGATTTG
7321 AGAAGCCTTCGCTTCGAAGCGAAAAAGTCTTAATAGTAGAAGAACCCTCCATAAACCTGGA
7381 GTGACTATATGGATGCCCCCACCCTACCACACATCGAAGAACCGTATACATAAAAATC
7441 TAGACAAAAAAGGAAGGAATCGAACCCCCCAAAGCTGGTTTCAAGCCAACCCCATGGCCT
7501 CCATGACTTTTTTCAAAAAGGTATTAGAAAAACCATTTTCATAACTTTGTCAAAGTTAAAT
7561 ATAGGCTAAATCCTATATATCTTAATGGCACATGCAGCGCAAGTAGGTCTACAAGCGCT
7621 ACTTCCCCTATCATAGAAGACTTATCACCTTTTCATGATCACGCCCTCATAATCATTTTC
7681 CTTATCTGCTTCCTAGTCCTGTATGCCCTTTTCTAACACTCACAACAAAACCTAACTAAT
7741 ACTAACATCTCAGACGCTCAGGAAATAGAAACCGTCTGAACCTATCCTGCCCGCCATCATC
7801 CTAGTCCTCATCGCCCTCCCATCCCTACGCATCCTTTACATAACAGACCGAGGTCAACGAT
7861 CCCTCCCTTACCATCAAATCAATTGGCCACCAATGGTACTGAACCTACGAGTACACCGAC
7921 TACGGCGGACTAATCTTCAACTCTACATACTTCCCCCATTTATCCTAGAACAGGCGAC
7981 CTGCGACTCCTTGACGTTGACAATCGAGTAGTACTCCCGATTGAAGCCCCCATCGTATA
8041 ATAATTACATCACAAGACGTCTTGCACTCATGAGCTGTCCCACATTAGGCTTAAAAACA
8101 GATGCAATTCCCGGACGTCTAAACCAAACCACTTTTACCGCTACACGACCGGGGTATAC
8161 TACGGTCAATGCTCTGAAATCTGTGGAGCAAACCACAGTTTCATGCCCATCGTCCTAGAA
8221 TTAATTTCCCCTAAAAATCTTTGAAATAGGGCCCGTATTTACCCTATAGCACCCCTCTAC
8281 CCCCTCTAGAGCCCACTGTAAAGCTAACTTAGCATTAACCTTTTAAAGTTAAAGATTAAGA
8341 GAACCAACACCTCTTTACAGTGAAATGCCCCAACTAAAATACTACCGTATGGCCACCATA
8401 ATTACCCCATACTCCTTACACTATTCCTCATCACCCAACAAAAATATTAACACAAAC
8461 TACCACCTACCTCCCTACCAAAGCCATAAAAAATAAAAAATTAACAAACCCCTGAGAA
8521 CCAAAATGAACCGAAAAATCTGTTCGCTTCATTCATTGCCCCACAATCCTAGGCCCGACCC
8581 CGCGACTGATCATTCTATTTCCCCTCTATTGATCCCCACCTCCAAATATCTCATCA
8641 ACAACCGACTAATCACCACCAACAATGACTAATCAAACCTAACCTCAAACAAATGATAA
8701 CCATACACAACACTAAAGGACGAACCTGACTCTCTTATACTAGTATCCCTAATCATTTTTA
8761 TTGCCACAACCTAACCTCCTCGGACTCCTGCCTCACTCATTTACACCAACCACCCAACCTAT
8821 CTATAAACCTAGCCATGGCCATCCCCTTATGAGCGGGCACAGTGATTATAGGCTTTCGCT
8881 CTAAGATTAAAAAATGCCCTAGCCCACTTCTTACCACAAGGCACACCTACACCCCTTATCC
8941 CCATACTAGTTATTATCGAAACCATCAGCCTACTCATTCACCAATAGCCCTGGCCGTAC
9001 GCCCTAACCGCTAACATTACTGCAGGCCACTACTCATGCACCTAATTGGAAGCGCCACCC
9061 TAGCAATATCAACCATTAACCTTCCCCTACACTTATCATCTTCACAATTTCTAATTTCTAC
9121 TGACTATCCTAGAAATCGCTGTCGCTTAATCCAAGCCTACGTTTTTACACTTCTAGTAA
9181 AGCCTCTACCTGCACCGACAACACATAATGACCACCAATCACATGCCTATCATATAGTAA
9241 ACCCAGCCCATGACCCCTAACAGGGGCCCTCTCAGCCCTCCTAATGACCTCGGCCTAGC
9301 CATGTGATTTCACTTCCACTCCATAACGCTCCTCATACTAGGCCCTACTAACCAACACACT
9361 AACCATATACCAATGATGGCGCGATGTAACACGAGAAAGCACATACCAAGGCCACCACAC
9421 ACCACCTGTCCAAAAAGGCCTTCGGATACGGGATAATCCTATTTATTACCTCAGAAGTTTT
9481 TTTCTTCGCAGGATTTTTCTGAGCCTTTTACCCTCCAGCCTAGCCCTACCCCAATT
9541 AGGAGGGCACTGGCCCCAACAGGCATCACCCCGCTAAATCCCCTAGAAGTCCCACTCCT
9601 AAACACATCCGTATTACTCGCATCAGGAGTATCAATCACCTGAGCTCACCATAGTCTAAT
9661 AGAAAACAACCGAAACCAAAATAATTCAAGCACTGCTTATTACAATTTTACTGGGTCTCTA
9721 TTTTACCCTCCTACAAGCCTCAGAGTACTTCGAGTCTCCCTTCACCATTTCCGACGGCAT
9781 TCTACGGCTCAACATTTTTTTGTAGCCACAGGCTTCCACGGACTTCACGTCATTATTGGCT
9841 AACTTTCTCACTATCTGCTTCATCCGCCAACCTAATATTTCACTTTACATCCAAACATCA
9901 CTTTGGCTTCGAAGCCGCGCCTGATACTGGCATTTTTGTAGATGTGGTTTACTATTTCT
9961 GTATGTCTCCATCTATTGATGAGGGTCTTACTCTTTTAGTATAAAATAGTACCGTAACTT
10021 CCAATTAAGTATTTTGAACAATTCAAAAAGAGTAATAAACTTCGCTTAATTTTTAAT
10081 AATCAACACCCTCCTAGCCTTACTACTAATAATTAATACATTTTACTACCACAACCTCAA
10141 CGGCTACATAGAAAAATCCACCCTTACGAGTCGGGCTTCGACCCTATATCCCCCGCCCG
10201 CGTCCCTTTCTCCATAAAATCTTCTTAGTAGCTATTACCTTCTTATTATTTGATCTAGA
10261 AATTGCCCTCCTTTTACCCTACCATGAGCCCTACAAACAACCTAACCTGCCACTAATAGT
10321 TATGTCATCCCTCTTATTAATCATCATCCTAGCCCTAAGTCTGGCCTATGAGTGACTACA
10381 AAAAGGATTGACTGAACCGAATTGGTATATAGTTTTAAACAAAACGAATGATTTCGACTC
10441 ATTAATTTATGATAATCATATTTACCAAATGCCCTCATTTACATAAAATATTACTAGC
10501 ATTTACCATCTCACTTCTAGGAATACTAGTATATCGCTCACACCTCATATCCTCCCTACT
10561 ATGCCTAGAAGGAATAATACTATCGTGTTTATTATAGCTACTCTCATAACCCCTCAACAC
10621 CCACTCCCTCTTAGCCAATATTGTGCCTATTGCCATACTAGTCTTTGCCGCCTGCGAAGC

10681 AGCGGTGGGCCTAGCCCTACTAGTCTCAATCTCCAACACATATGGCCTAGACTACGTACA
10741 TAACCTAAACCTACTCCAATGCTAAAACATAATCGTCCCAACAATTATATTACTACCACCTG
10801 ACATGACTTTTCCAAAAACACATAATTTGAATCAACACAACCACCCACAGCCTAATTATT
10861 AGCATCATCCCTCTACTATTTTTTAACCAAATCAACAACAACCTATTTAGCTGTTCCCCA
10921 ACCTTTTCCCTCGAACCCCTAACAACCCCTCCTAATACTAACTACCTGACTCCTACCC
10981 CTCACAATCATGGCAAGCCAACGCCACTTATCCAGTGAACCACTATCACGAAAAAACTC
11041 TACCTCTCTATACTAATCTCCCTACAAATCTCCTTAATTATAACATTACAGCCACAGAA
11101 CTAATCATATTTTATATCTTCTTCGAAACCACACTTATCCCCACCTTGGCTATCATCACC
11161 CGATGAGGCAACCAGCCAGAACGCCTGAACGCAGGCACATACTTCCATTCTACACCCTA
11221 GTAGCTCCCTTCCCCTACTCATCGCATAATTTACTCACAACACCCTAGGCTCATA
11281 AACATTCTACTACTCTACTGCCCCAAGAATACTCAAACCTCCTGAGCCAACAACCTTA
11341 ATATGACTAGCTTACACAATAGCTTTTATAGTAAAGATACCTCTTTACGGACTCCACTTA
11401 TGACTCCCTAAAGCCCATGTCGAAGCCCCATCGCTGGGTCAATAGTACTTCGCGAGTA
11461 CTCTTAAAACTAGGCGGCTATGGTATAATACGCCTCACACTCATTTCTCAACCCCTGACA
11521 AAACACATAGCCTACCCCTTCTTGTACTATCCCTATGAGGCATAATTATAACAAGCTCC
11581 ATCTGCCTACGACAAAACAGACCTAAAATCGCTCATTGCATACTCTTCAATCAGCCACATA
11641 GCCCTCGTAGTAACAGCCATTCTCATCCAAACCCCTGAAGCTTCACCGGCGCAGTCATT
11701 CTCATAATCGCCCACGGGCTTACATCCTCATTACTATTCTGCCTAGCAAACCTCAAACC
11761 GAACGCACTCACAGTCGCATCATAATCCTCTCTCAAGGACTTCAAACCTACTCCCCTA
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11881 CTAAGGGAGAACTCTCTGTGCTAGTAACCACGTCTCCTGATCAAATATCACTCTCCTA
11941 CTTACAGGACTCAACATACTAGTCACAGCCCTATACTCCCTCTACATATTTACCACAACA
12001 CAATGGGGCTCACTCACCCACCACATTAACAACATAAAAACCCCTATTCACACGAGAAAAC
12061 ACCCTCATGTTTCATACACCTATCCCCATTTCTCCTCCTATCCCTCAACCCCGACATCATT
12121 ACCGGGTTTTCTCTTGTAATATAGTTTAAACAAAAACATCAGATTGTGAATCTGACAAC
12181 AGAGGCTTACGAACCCCTATTTACCGAGAAAAGCTCACAAGAAGCTGCTAACTCATGCCCC
12241 ATGCTAACAAACATGGCTTTCTCAACTTTTAAAGGATAACAGCTATCCATTGGTCTTAGG
12301 CCCCCAAAATTTGGTGCAACTCCAAATAAAAGTAATAACCATGCACACTATAACCA
12361 CCCTAACCTGACTTCCCTAATTTCCCCCCTTACCACCTCGTTAACCTTAACAAAA
12421 AAAACTCATACCCCATTTATGTAAAATCCATTGTCGCATCCACCTTTATTATCAGTCTCT
12481 TCCCCACAACAATATTCATGTGCCTAGACCAAGAAGTTATTATCTCGAACTGACACTGAG
12541 CCACAACCCAAAACAACCCAGCTCTCCCTAAGCTTCAAACCTAGACTACTTCTCCATAATAT
12601 TCATCCCTGTAGCATTGTTCGTTACATGGTCCATCATAGAATTTCTCACTGTGATATATAA
12661 ACTCAGACCCAAACATTAATCAGTTCTTCAAATATCTACTCATCTTCCCTAATTACCATA
12721 TAATCTTAGTTACCGCTAACAACTTATCCAACCTGTTTCATCGGCTGAGAGGGCGTAGGAA
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12841 TTCAAGCAATCCTATAACAACCGTATCGGCGATATCGGTTTCATCCTCGCCTTAGCATGAT
12901 TTTATCCTACTCCAACCTCATGAGACCCACAACAAATAGCCCTTCTAAACGCTAATCCA
12961 GCCTCACCCCACTACTAGGCCTCCTCCTAGCAGCAGCAGGCAAATCAGCCCAATTAGGTC
13021 TCCACCCCTGACTCCCTCAGCCATAGAAGGCCCCACCCCACTCAGCCCTACTCCACT
13081 CAAGCACTATAGTTGTAGCAGGAATCTTCTTACTCATCGCTTCCACCCCTTAGCAGAAA
13141 ATAGCCCACTAATCAAACCTTAACACTATGCTTAGGCGCTATCACCCTCTGTTCGCAG
13201 CAGTCTGCGCCCTTACACAAAATGACATCAAAAAAATCGTAGCCTTCTCCACTTCAAGTC
13261 AACTAGGACTCATAATAGTTACAATCGGCATCAACCAACCACACCTAGCATTCCTGCACA
13321 TCTGTACCCACGCCTTCTTCAAAGCCATACTATTTATGTGCTCGGGTCCATCATCCACA
13381 ACCTTAACAATGAACAAGATATTCGAAAAATAGGAGGACTACTCAAACCATACCTCTCA
13441 CTTCAACCTCCCTCACCATTGGCAGCCTAGCATTAGCAGGAATACCTTTCTCACAGGTT
13501 TCTACTCCAAAGACCACATCATCGAAACCGCAAAACATATCATACACAAACGCCTGAGCCC
13561 TATCTATTACTCTCATCGCTACCTCCCTGACAAGCGCCTATAGCACTCGAATAATTCTTC
13621 TCACCCTAACAGGTCAACCTCGCTTCCCCACCCTTACTAACATTACGAAAAATAACCCCA
13681 CCCTACTAAACCCCATTTAACGCCTGGCAGCCGGAAGCCTATTCGCAGGATTTCTCATTA
13741 CTAACAACATTTCCCCCGCATCCCCCTTCAAACAACAATCCCCCTTACTTAAACTCA
13801 CAGCCCTCGCTGTCACTTTCTTAGGACTTCTAACAGCCCTAGACCTCAACTACCTAACCA
13861 ACAAACCTTAAATAAAAATCCCCACTATGCACATTTTATTTCTCCAACATACTCGGATTCT
13921 ACCCTAGCATCACACACCGCACAATCCCTATCTAGGCCTTCTTACGAGCCAAAACCTGC
13981 CCCTACTCCTCCTAGACCTAACCTGACTAGAAAAGCTATTACCTAAAACAATTTACAGC
14041 ACCAAATCTCCACCTCCATCATCACCCTCAACCCAAAAAGGCATAATTAAACTTTACTTCC
14101 TCTCTTTCTTCTTCCCCTCATCCTAACCTACTCCTAATCACATAACCTATTTCCCGA
14161 GCAATCTCAATTACAATATATACCAACAACAATGTTCAACCAGTAACTACTACTAAT
14221 CACGCCCATAAATCATACAAAGCCCCCGCACCAATAGGATCCTCCCGAATCAACCCCTGAC
14281 CCCTCTCCTTCATAAATATTAGCTTCTTACTACTATTAAAGTTTACCACAACCACCACC

