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>3000-8

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511652

>3000-18

NNNNNNNNGNNNACGTAAGNTGTCGCTTCTCGCTATCATATCATTCGAGCTCTTTTAGAAGGGGAGCTCACTCAAAGAGAGATAGCAGAGAAATACGGAGTCAGTATCGCACAAATTACCAGAGGATCTAATGCCCTTAAAGGATCAGATCCTCAATTTAAAGAGTTTTTACAAAAAGAGATCTGATCTTCTTTTGTAAAATACAAATAAGATTGAAAGTATTTGTATGCACGCGTTGTTAATGAACAAATATTCTGTTTTAGCAGTTTTGGTACGTAAGTATAGCTGCAGCATGCCATGCAAATCAGCTTTTCAAGCTGATTGCTTCCAAGATATTCAAAAATTCATCCTCTTACAGCGTGCCTGGCTTTCTTTTGAAAGCTGGCGCTTATCTACTTGGCGATAGGCCTAATTAAGAAGCCTTTTATTTGATTAAGAGATGTTCTTATAGAAGTAAGAGCGTCTTTTTTGCGCAGGATTATTCTGTCGCCAGTTTTTTCTATGATTTTAACACTATAATTTTATGGAGAAAAGATGTTCAAACATAAACATCCTTTTGGGGGAGCGTTCCTTCCCGAAGAACTATTAGCCCCTATACAGAATCTAAAAGCGGAATGGGAGATTCTCAAAACTCAGCAAAGTTTTTTATCTGAACTAGATTGTATTTTGAAAAACTATGCGGGGAGACAAACTCCTCTGACTGAAGTTAAGAATTTTGCTCGAGCTATTGATGGCCCTAGAGTATTTCTTAAACGCGAAGATCTTTTGCATACAGGAGCACATAAACTGAATAATGCTCTTGGTCAGTGTTTGCTTGCTAAATATCTTGGGAAAACACGTGTTGTAGCTGAAACAGGTGCGGGACAACATGGAGTAGCAACAGCAACAGCGTGTGCTTATCTAGGATTAGATTGTGTAGTATACATGGGGAGCAAAAGATGTGGAACGACAGAAACCAAATGTAGAGAAAATGCGCTTTTTAGGTGCTGAANTCGTTTCTGTAACAAAAGGATCTTGTGGACTCAAANNGNCAGTTAATCAAGNTCTACAAGATGGGNCAACAACANACTCATTTACTCNCTATTGCTTAGGATCGGCCTTAGGACCTTTACCTTATCCCGAANNCGTTCGATTTTTNCAGTCGGTTAAANNNNNTGAANNGAAAGNNNAATCCNTNNNNTTNGCGGNAANGAATCCNGAANTTCC

>3000-30

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>250-1 reverse complement

CANNNGCTNNNNANCANGAATACNGCAACAGGTNCCATTCNCCNCCCATGCTGCGCAACT

GTTGGGAAGGACGATCGGTGCGGGCCTTTTCGCTATTACGCCAGCTGGCGAAAGGGGGAT

GTGCTGCAAGGCGATTAAGTTGGGTAACGCCAGGGTTTTCCCAGTCACGACGTTGTAAAA

CGACGGCCAGTGAATTCCTAATACGACTCACTATAGGGCAAGCAGTGGTATCAACGCAGA

GTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCATTGAGGATCTGATCCTTTAAGGGC

ATTAGATCCTCTGGTAATTTGTGCGATACTGACTCCGTATTTCTCTGCTATCTCTCTTTG

AGTGAGCTCCCCTTCTAAAAGAGCTCGAATGATATGATAGAGAGAAGCGACATCTACNTN

NNNNNNNNNNNNNN

>250-2 reverse complement

ANCNGACGTNTANGAAACCCATTNNTATCCNGNCATTAACCTATAAAAATAGGCGGTNTC

NCNNGGCCCTTTCGTCTCGCGCGTTTCGGTGATGACGGTGAAAACCTCTGACACATGCAG

CTCCCGGAGACGGTCACAGCTTGTCTGTAAGCGGATGCCGGGAGCAGACAAGCCCGTCAG

GGCGCGTCAGCGGGTGTTGGCGGGTGTCGGGGCTGGCTTAACTATGCGGCATCAGAGCAG

ATTGTACTGAGAGTGCACCATATGCGGTGTGAAATACCGCACAGATGCGTAAGGAGAAAA

TACCGCATCAGGCGCCATTCGCCATTCAGGCTGCGCAACTGTTGGGAAGGGCGATCGGTG

CGGGCCTCTTCGCTATTACGCCAGCTGGCGAAAGGGGGATGTGCTGCAAGGCGATTAAGT

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ATACGACTCACTATAGGGCAAGCAGTGGTATCAACGCAGAGTACTTTTTTTTTTTTTTTT

TTTTTTTTTTTTAATTGAGGATCTGATCCTTTAAGGGCATTAGATCCTCTGGTAATTTGT

GCGATACTGACTCCGTATTTCTCTGCTATCTCTCTTTGAGTGAGCTCCCCTTCTAAAAGA

GCTCGAATGATATGATAGCGAGAAGCGACANCTTACNTNNNNNNNNNNNNN

>250-4 reverse complement

GGNGNCGGTNACACNNTATCCCGTAAGCGGAAGCCAGNCNCNCCCNTCCGGGCCCGTCAG

CGGGTGTTGGCGGTTGTCGGGGCTGGCTTAACTATGCGGCATCAGAGCAGATTGTACTGA

GAGTGCACCATATGCGGTGGGAAATACCGCACAGATGCGTAAGGAGAAAATACCGCATCA

GGCGCCATTCGCCATTCAGGCTGCGCAACTGTTGGGAAGGGCGATCGGTGCGGGCCTTTT

CGCTATTACGCCAGCTGGCGAAAGGGGGATGTGCTGCAAGGCGATTAAGTTGGGTAACGC

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CTATAGGGCAAGCAGTGGTATCAACGCAGAGTACTTTTTTTTTTTTTTTTTTTTTTTTTT

TTTTTTCTTTTTTTTTTGAGGATCTGATCCTTTAAGGGCATTAGATCCTCTGGTAATTTG

TGCGATACTGACTCCGTATTTCTCTGCTATCTCTCTTTGAGTGAGCTCCCCTTCTAAAAG

AGCTCGAATGATATGATAGCGAGAAGCGACATCNTACNTNNNNNNNNNNNNN

>250-5 reverse complement

GGNTTNNNNNNCNGGNTTNNGNNNNNNNGNNNNNTTTTTTTANNNNNNNNCCNNNCGTAA

NNNNNNTTTCNNGGANNNNGGAGNNNNNAACCAAGTNNNTTTGANAATAGGNNTTGNGGN

GACCGNNTTGNTTTTGCCCGGCGTCAANACGGGNNNANNNCNNNCCNNTTAGCNNAACTT

TAAAANNGNTCATCATTGGAAAACNNTTNTTCGGGGCGAAAACTTTCAAGGATCTTACCG

CTGTTGAGATCCAGTTCGATGTAACCCNNTCGTGCACCCAACTGATCTTCAGCATCTTTT

ACTTTCACCAGCGTTTCTGGGTGAGCAAAAACAGGAAGGCAAAATGCCGCAAAAAAGGGA

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TGTCGGGGCTGGCTTAACTATGCGGCATCAGAGCAGATTGTACTGAGAGTGCACCATATG

CGGTGTGAAATACCGCACAGATGCGTAAGGAGAAAATACCGCATCAGGCGCCATTCGCCA

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CTGGCGAAAGGGGGATGTGCTGCAAGGCGATTAAGTTGGGTAACGCCAGGGTTTTCCCAG

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ATCTGATCCTTTAAGGGCATTAGATCCTCTGGTAATTTGTGCGATACTGACTCCGTATTT

CTCTGCTATCTCTCTTTGAGTGAGCTCCCCTTCTAAAAGAGCTCGAATGATATGATAGCG

AGAAGCGACANCTTACNNNNNNNNNNNNNN

>250-6 reverse complement

GCCTTNGTAAGAGGTTTTTNNNNANNGGNNNNTACTCAACCAAGTCANTTTNNGAATANG

GTATGCNNNNACCGAGTTGNTNTTGCCCGGCGTCAATACGGGATAANNCCNNNCCANATA

GCAGAACTTTAAAAGTGCTCATCATTGGAAAACGTTTTTCNGGGGGAAAANTTTCAAGGA

TCTTACCGCTGTTGAGATCCAGTTCGATGTAACCCACTCGTGCACCCAACTGATCTTCAG

CATCTTTTACTTTCACCAGCGTTTCTGGGTGAGCAAAAACAGGAAGGCAAAATGCCGCAA

AAAAGGGAATAAGGGCGACACGGAAATGTTGAATACTCATACTCTTCCTTTTTCAATATT

ATTGAAGCATTTATCAGGGTTATTGTCTCATGAGCGGATACATATTTGAATGTATTTAGA

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AAACCATTATTATCATGACATTAACCTATAAAAATAGGCGTATCACGAGGCCCTTTCGTC

TCGCGCGTTTCGGTGATGACGGTGAAAACCTCTGACACATGCAGCTCCCGGAGACGGTCA

CAGCTTGTCTGTAAGCGGATGCCGGGAGCAGACAAGCCCGTCAGGGCGCGTCAGCGGGTG

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ACCATATGCGGTGTGAAATACCGCACAGATGCGTAAGGAGAAAATACCGCATCAGGCGCC

ATTCGCCATTCAGGCTGCGCAACTGTTGGGAAGGGCGATCGGTGCGGGCCTCTTCGCTAT

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GGCAAGCAGTGGTATCAACGCAGAGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT

TTTCAAATTGAGGATCTGATCCTTTAAGGGCATTAGATCCTCTGGTAATTTGTGCGATAC

TGACTCCGTATTTCTCTGCTATCTCTCTTTGAGTGAGCTCCCCTTCTAAAAGAGCTCGAA

TGATATGATAGCGAGAAGCGACANCTNCGTNNNNNNNNNC

>250-7 reverse complement

CNNNNNNTTANNCCNNNNNAAATAGGCGTATCNNNNATNCCCTTTCGTCTTNNNACGTTT

CGGNGATGACGGTNAAAACCTNTGACACATGCAGCTCCCGGAGACGGTCACAGCTTGTCT

GTAAGCGGATGCCGGGAGCAGACAAGCCCGTCAGGGCGCGTCAGCGGGTGTTGGCGGGTG

TCGGGGCTGGCTTAACTATGCGGCATCAGAGCAGATTGTACTGAGAGTGCACCATATGCG

GTGTGAAATACCGCACAGATGCGTAAGGAGAAAATACCGCATCAGGCGCCATTCGCCATT

CAGGCTGCGCAACTGTTGGGAAGGGCGATCGGTGCGGGCCTCTTCGCTATTACGCCAGCT

GGCGAAAGGGGGATGTGCTGCAAGGCGATTAAGTTGGGTAACGCCAGGGTTTTCCCAGTC

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GGTATCAACGCAGAGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGTTTTTTTTTAA

TTGAGGATCTGATCCTTTAAGGGCATTAGATCCTCTGGTAATTTGTGCGATACTGACTCC

GTATTTCTCTGCTATCTCTCTTTGAGTGAGCTCCCCTTCTAAAAGAGCTCGAATGATATG

ATAGCGAGAAGCGACATCTTACGTCNNNNNNNNNN

>400-1 reverse complement

NTNAGATCGTGCNCNCANGCANCNTGTTNTTNCCNTCACACNCCAATACAGAGCANACCA

NTGATNACCNCNTCNCCCTCACTCTNCNGCAANCCNNGGTACNCCCNCCGNGTCCCTTNT

TTTTTTTTCGCTTCTCTTTTCCNAGGAAGCAATCCGCTTGAAAAGCTGATTTGCATGGCA

TGCTGCAGNTATACTTACGTACCAAAACTGCTAAAACAGAATATTTGTTCATTAACAACG

CGTGCATACAAATACTTTCAATCTTATTTGTATTTTACAAAAGAAGATCAGATCTCTTTT

TGTAAAAACTCTTTAAATTGAGGATCTGATCCTTTAAGGGCATTAGATCCTCTGGTAATT

TGTGCGATACTGACTCCGTATTTCTCTGCTATCTCTCTTTGAGTGAGCTCCCCTTCTAAA

AGAGCTCGAATGATATGATAGCGAGAAGCGACATCTTACNTNNNNNNNNNNNN

>400-2 reverse complement

TTTNNNANNCNNNTNNCCGGTGTANTACCCNNNATGTTANGGNACNTCCGCATCANGNCC

ANTCNCCNTCAGAGTGNCANNTGTTGGGAAGGGCGATCGGTGCGGGCCTCTTCGTTATTA

CGCCAGCTGGCGAAAGGGGGATGNGANCAAGGNNANTAAGTTNNGTNANNGCAGGGTTTT

CCCAGTCACGCGTTGTNNAACGACNNCCAGTNAATTCCTAATACGACTCACTATNNGGCA

AGCAGTGGTATNNACGCAGAGTACNTTTTTTTTTTCNTTTTTTTTTTTTTTTTTTCTATG

GCATGCTGCAGCTATACTTACGTACCAAAACTGCTAAAACAGAATANTNNTCATTAACAA

CGCGTGCATACAAATACTTTCAATTTATTTGTATTTTACAAAAGAAGATCAGATCTCTTT

TTGTAAAAACTCTTTAAATTGAGGATCTGATCCTTTAAGGGCATTAGATCCTCTGGTAAT

TTGTGCGATACTGACTCCGTATTTCTCTGCTATCTCTCTTTGAGTGAGCTCCCCTTCTAA

AAGAGCTCGAATGATATGATAGCGAGAAGCGACATNNNNCNTNNNNNNNNNNNNNNN

>400-4 reverse complement

NNNNNNNGAAACNNCTNTGACCAGAGATTACNCCNNNCTTGGCNNACNNANAGCATGTCN

CTNCTCGCNNTCANTTCATTCGCGCTCNCCNTTNACCATTGCNNNCGCAAAGAGGTGGGC

AGGGCGATNCGNGGGCGCTTTTTCGCTATTACCCCAGCNGGCGAAAGGGGGATGTGCTGC

AAGGCGATTAAGTGGGTAACNNNAGGGTTTTCCCAGTCCATGACGTCGTAAAANCACGGC

CNGTGAATTCCTAATACGACTCCCTATAGGGCAAGCAGTGGTATCAACGCAGAGTACTTC

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CTCTTTTTGTAAAAACTCTTTAAATTGAGGATCTGATCCTTTAAGGGCATTAGATCCTCT

GGTAATTTGTGCGATACTGACTCCGTATTTCTCTGCTATCTCTCTTTGAGTGAGCTCCCC

TTCTAAAAGAGCTCGAATGATATGATAGCGAGAAGCGACATCTTACNTCNNNNNNNNNN

>400-5 reverse complement

TGNGNCGNAGGNNTCCNNCNNNANNTTNNCNNNNNGNNTCNAGCNNANANCNCNCNTCAN

NNCANNNACNTCAGGNGNNCACNNTTNGANGGGCNNTNNNTCNGCNTTTCNNNATNNCGC

CAGNGNGAAAGGGGGATGTGCTGCAAGGNNATTAAGTNGGGTAACGCCAGGGTTNNCCCA

GTCCNANNTGTANNAANNCGGCCAGTGNNTCCTNNNACGANNNACTATNNGNNAGCAGNG

GNNNCANNCCNAGTACNTTTTTTTTTCTTTTNTTTTNTTTTTTGGCAATCAGCTGAAAAG

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CATTAACAACGCGTGCATACAAATACTTTCAATCTTATTTGTATTTTACAAAAGAAGATC

AGATCTCTTTTTGTAAAAACTCTTTAAATTGAGGATCTGATCCTTTAAGGGCATTAGATC

CTCTGGTAATTTGTGCGATACTGACTCCGTATTTCTCTGCTATCTCTCTTTGAGTGAGCT

CCCCTTCTAAAAGAGCTCGAATGATATGATAGCGAGAAGCGACATCTTACNTNNNNNNNN

NN

>400-6 reverse complement

NTNGTNNTNAANCNGATNCANAGAGCAGACCAAGCCCGTCAGGNCGCNTCAGCGGGNGTT

GGCGGGNGTCGGGGCTGGTTTAANTATNCGGCATCAGAGCAGATTGTACTGAGAGTGCAC

CATATGCGGTGTGAAATACCGCACAGATGCGTAAGGAGAAAATACCGCATCAGGCGCCAT

TCGCCATTCAGGCTGCGCAACTGTTGGGAAGGGCGATCGGTGCGGGCCTCTTCGCTATTA

CGCCAGCTGGCGAAAGGGGGATGTGCTGCAAGGCGATTAAGTTGGGTAACGCCAGGGTTT

TCCCAGTCACGACGTTGTAAAACGACGGCCAGTGAATTCCTAATACGACTCACTATAGGG

CAAGCAGTGGTATCAACGCAGAGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGCAT

GGCATGCTGCAGCTATACTTACGTACCAAAACTGCTAAAACAGAATATTTGTTCATTAAC

AACGCGTGCATACAAATACTTTCAATCTTATTTGTATTTTACAAAAGAAGATCAGATCTC

TTTTTGTAAAAACTCTTTAAATTGAGGATCTGATCCTTTAAGGGCATTAGATCCTCTGGT

AATTTGTGCGATACTGACTCCGTATTTCTCTGCTATCTNTCTTTGAGTGAGCTCCCCTTC

TAAAAGAGCTCGAATGATATGATAGCGAGAAGCGACATCNNCNTNGNNNNNNNNNNNN

>400-10 reverse complement

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CTTCCTTTTTCCCATNNNTTTGGAGGNNTTTNNCCGGGGTTNTGTTCTCATGNNNCNGAT

ACNTNTTTGANNNNNTTNGGANNAANNACCAAANTGGGGTTNCCGCGCACATTTCCCCGA

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GATCCTCTGGTAATTTGTGCGATACTGACTCCGTATTTCTCTGCTATCTCTCTTTGAGTG

AGCTCCCCTTCTAAAAGAGCTCGAATGATATGATAGCGAGAAGCGACATCNNCNTNNNNN

NNNNNC

>450-1 reverse complement

NNNCNNNCCGAGAATACGAAATTCNNCTCAAAAAAGAGCACCTCNNAAGNNGGAACCCCN

NGCACTTTGTTCATTTCTCCTNNNGTAAATTCNGCTTTCAAANCGAAGCCAGGCGCGCTG

TAAGAGGATGAATTTTTGAATATCTTGGAAGCAATCAGCTTGAAAAGCTGATTTGCATGG

CATGCTGCAGCTATACTTACGTACCAAAACTGCTAAAACAGAATATTTGTTCATTAACAA

CGCGTGCATACAAATACTTTCAATCTTATTTGTATTTTACAAAAGAAGATCAGATCTCTT

TTTGTAAAAACTCTTTAAATTGAGGATCTGATCCTTTAAGGGCATTAGATCCTCTGGTAA

TTTGTGCGATACTGACTCCGTATTTCTCTGCTATCTNTCTTTGAGTGAGCTCCCCTTCTA

AAAGAGCTCGAATGATATGATAGCGAGAAGCGACATCNNCNTNNNNNNNNNNNNC

>450-2 reverse complement

ANNTNCNNNNTNTNNCGCCCCTTTCCTTTTGTTNTTCCCCCCCACTNANAAAAAGCCATC

CANGCNCGAAGCGAGGCGATGAATTTTAAATCTCCNTACAACCTCNCACCAAATTCNCGC

GATAAACNTGCCTTCCACGACATGCACCAGCTCCNCAACCGAACCAAAACTGNTANAACA

GAATATTTGTTCATTAACAACGCGTGCATACAAATACTTTCAATCTTATTTGTATTTTAC

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GGCATTAGATCCTCTGGTAATTTGTGCGATACTGACTCCGTATTTCTCTGCTATCTNNCT

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CNNNNNNNNNNNNNN

>450-3 reverse complement

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>450-5 reverse complement

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>450-6 reverse complement

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>450-11 reverse complement

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>550-2 reverse complement

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>550-4 reverse complement

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>550-6 reverse complement

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>550-11 reverse complement

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April 4 2018

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