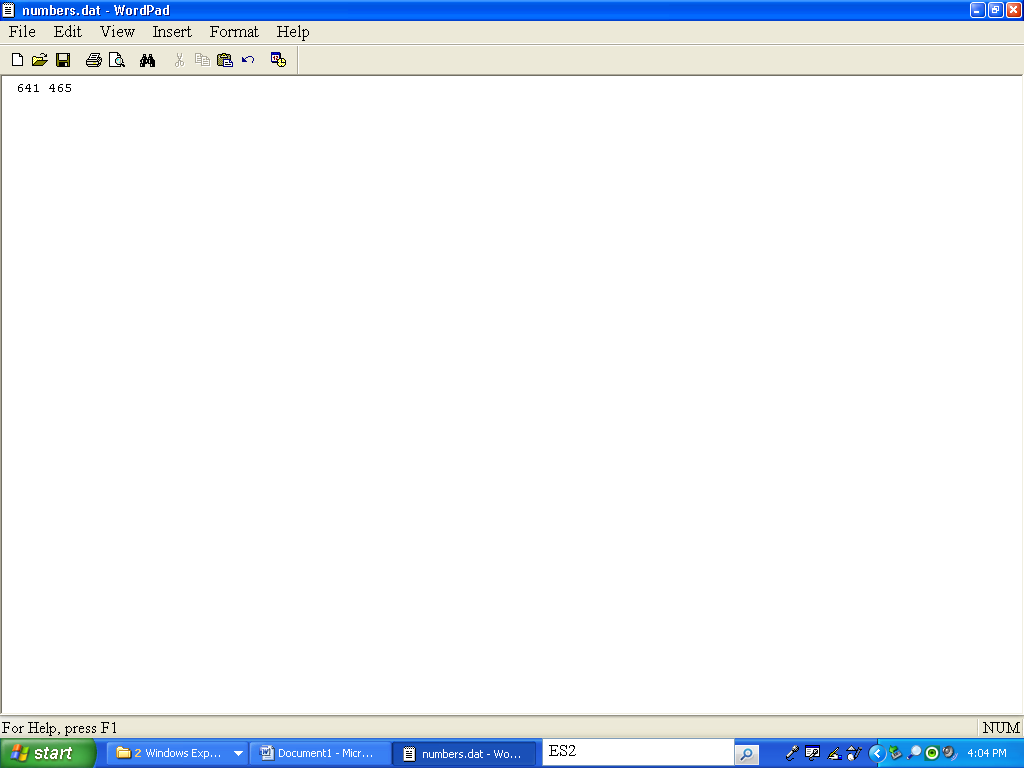
4Aug2013

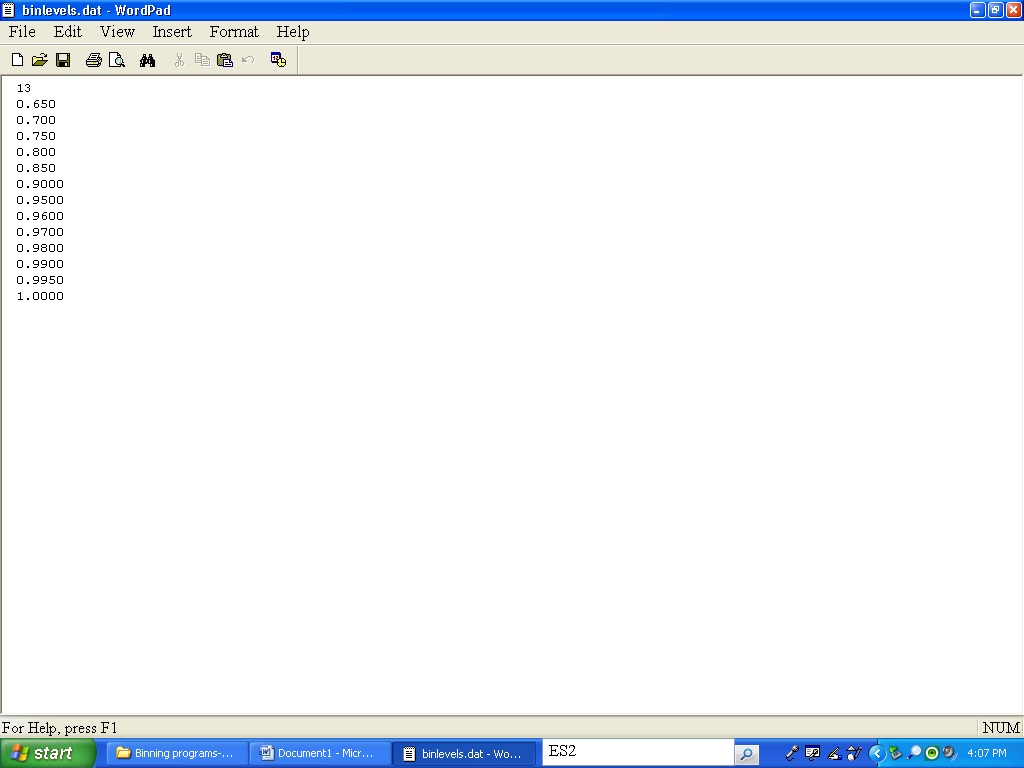
***Manual binning for Salinity strains***

Provided fasta as input (see appendix) (did not contain outgroup!!)

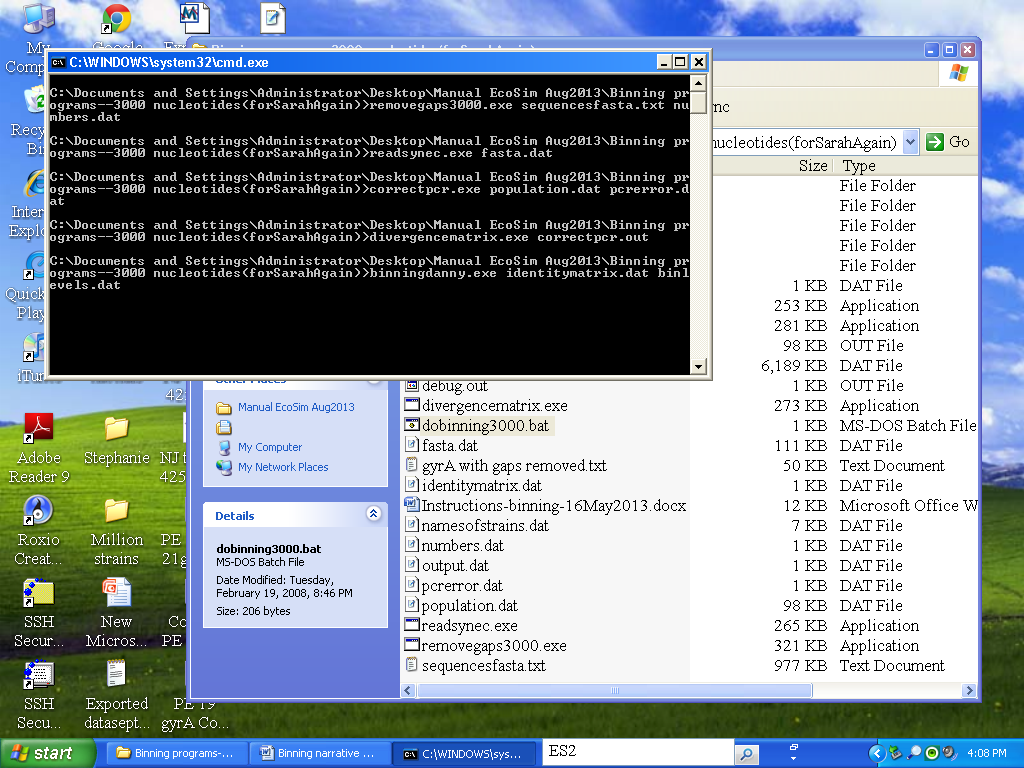
As well as stats for the fasta file (number of sequences number of nucleotide sites usable in sequences)



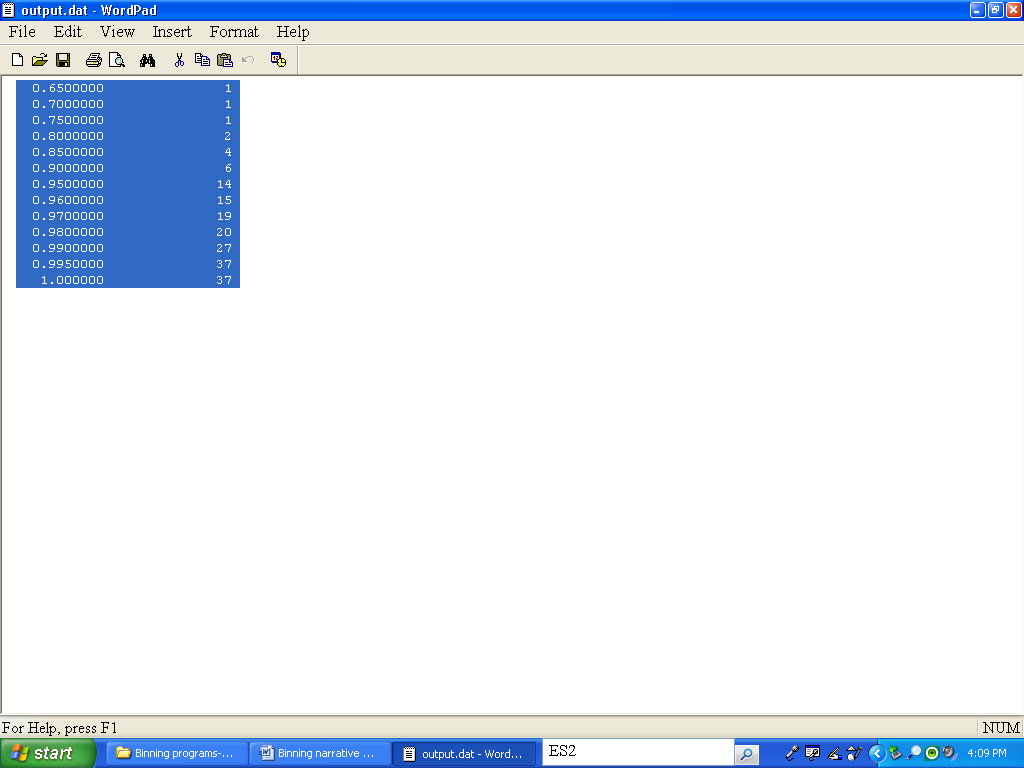
Chose the number of binning levels I want



Right clicked doBinning3000.bat (NOT .exe) and chose open



YAY!!! Output.dat



0.6500000 1

0.7000000 1

0.7500000 1

0.8000000 2

0.8500000 4

0.9000000 6

0.9500000 14

0.9600000 15

0.9700000 19

0.9800000 20

0.9900000 27

0.9950000 37

1.000000 37

>S7B4

-----------------------------------------------------------------------------------------------------------------------------GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AA-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N12A18

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>M7C7

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>N9B22

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>N9B11

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>S11c8

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGTTG--ACGKTCAGCC?AAAGTTTAATCTAAC??GG-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S4B5

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>96x4

-----------------------------------------------------------------------------------------------------------------------------GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N14B4

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCA--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>96x8

-----------------------------------------------------------------------------------------------------------------------------GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>96x9

-----------------------------------------------------------------------------------------------------------------------------GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S15C4

-----------------------------------------------------------------------------------------------CGGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTG-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S11c1

-----------------------------------------------------------------------------------------------------------------------------GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-TACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N11C10

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGTTG--ACGGTCAGCCCAAAGTTTTAAATCTAAGCA-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M19B2

------------------------------------------------------------------CTTCCRGATGTT-CG?GACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTGC-AA-------------CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTCATAA-CCTGCTTGCRCTGKTTG--RCSGTCAGCCAAA?T--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>15A1

------------------------------------------------------------------YTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTTGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTT-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGKTG--ACGGTCRGCCCAAAGTW------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9B2

------------------------------------------------------------------TYTYCMGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTT-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGTTG--ACGGTCAGCCAAAAGT-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>972x1

-----------------------------------------------------------------------------------------------------------------------------GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T20C15

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGTTG--ACSGTCAGCCMAAAGTTTTAATCTAAG?T?-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N16A8

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTTGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTT-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGTTG--ACGGTCAGCCCAAAGTTT?AATCTAAC--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N18A14

------------------------------------------------------------------CTCCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAT-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGTTG--ACGGTCAGCCAAAAGTTTTAATCTAAAGCA-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>105x1

-----------------------------------------------------------------------------------------------------------------------------GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M12C8

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGTTG--ACG--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N16B5

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCGGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATTG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCCATTACC--TTGGAA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M15C13

------------------------------------------------------------------YTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGKTG--ACGGTCAGCCAAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N17A2

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTTGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTT-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGKTG--ACGGTCAGCCAAAGTTTAATCTA?C?CGGG-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S1b3

------------------------------------------------------------------CTTCCAGRTGTT-YGTGACGGTTT-WAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATTG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGTTG--ACSGTCAGCCAAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>96x3

-----------------------------------------------------------------------------------------------------------------------------GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N13A1

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-TACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGTTG--ACGGTCAGCCCAAAGT-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S15c8

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGTTG--ACGGTCAGCCCAAAGTTTTAATCTAAGCAT-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T7C8.F

----------------------------------------------------------------------------------GACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGTTG--ACSGTCAGCCCAAAGT-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N13C8

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCGGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATTG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAACCCTGCTTGCACTTGTTG--ACSGTCAGCCAAAAGT-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>98x5

-----------------------------------------------------------------------------------------------------------------------------GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-TACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S12c13

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGTTG--ACGGTCAGCCAAARTTTTAATCTAAGCATG-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N14B2

------------------------------------------------------------------YTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-GG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGTTG--ACGGTCAGCCCAAAGTTWTAATCTAA?A?G-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N15B4

---------------------------------------------------------------------------GTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCT-GCAC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N17A5

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGKTG--ACGGTCAGCCCAAAGTWTA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S3B4

------------------------------------------------------------------YTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGKTG--ACGGTCAGCCAAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>96x7

-----------------------------------------------------------------------------------------------------------------------------GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9C7

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCGGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATTG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGTTG--ACGGTCAGCCAAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N12A5

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGKTG--ACGGTCAGCC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M2B1

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGTTG--ACGGTCAGCCAAARKT-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N2A2

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTKGTTG--ACGKYCAGCCAAAGTWTAATCTA------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S9C2

---------------------------------------------------------------------------GTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCT-GCAC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N15A11

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGKTG--ACGGTCAGCCAAAGTTTTAATCTAACTCGG-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S18c7

---------------------------------------------------------------------------GTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCGGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATTG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCAC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N1B4

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTGGTTG--ACSGTCAGCCAAAGTWTA-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N14B5

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGTTG--ACGGTCAGCCMAAAGTTTAATCTAAGCATG-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N15A8

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGKTG--ACSGTCAGCCAAAAGTWTTAATCTAAG?TC-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S8B2

-----------------------------------------------------------------------------------------------------------------------------GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-TACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M2C7

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGTTG--ACGGTCAGCC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>96x2

-----------------------------------------------------------------------------------------------------------------------------GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCCAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAAAC-------------AA--CTGC----------------TCTAC--AA--CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N7B3

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGKTG--ACGGTCRCCMAAWRT--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S3c2

------------------------------------------------------------------TTCCAGAATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGTTG--ACGGTCAGCC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T18B2

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGKTG--ACGGTCAGCCAAAAKWTTA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>97x3

-----------------------------------------------------------------------------------------------------------------------------GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T5c13

----------------------------------------------------------------------------------GACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAACCTGCCTTGCACYTKKTG--ACSGTCAGCCAAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N13C11 R

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAT-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTKGTTG--ACGGTCAGCCAAAGT--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S18c2

------------------------------------------------------------------YTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCGGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATTG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTGGTTG--ACG--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M10C6

-----------------------------------------------------------------TCTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCGGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATTG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAACCCTGCTTGCACTTGTTG--ACSGTCAGCCAAAAGT-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S4C6

-----------------------------------------------------------------------------------------------------------------------------GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N7A1

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-TACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTKGTTG--ACGGTCAGCCCAAAGTWTTA---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S15c7

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGTTG--ACGGTCAGCCMAAAGTWTAATCTAA?ATGC-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S10c8

-----------------------------------------------------------------------------------------------------------------------------GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T15C11

------------------------------------------------------------------TTCYASAATGTT-YGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACYT-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9A8

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGATT-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGKWWYMACCCTGCTTGCACTTGTTGG-ACSGTCAGCCAAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9A7

------------------------------------------------------------------TTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-CT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGKTG--ACGGTCAGCC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S3B1

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N10B4

------------------------------------------------------------------YTCCCAGATGTT-CGKGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAT-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGTKR--ACG--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>98x4

-----------------------------------------------------------------------------------------------------------------------------GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-C--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S16C3

-------------------------------------------------------------------------------CG--------------------TGCACAG-AATGAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAATTCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--CCCCT-CC--CGGTGATTCT-GCTG-TTTACGAAG-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCATGGAAACTTCGGTTTCTGTTGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGTTCGGAAAAAGAGCCGGTTGTTATGCC-TGCGAGATTTCCGAACTTGCTTGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGTGTTTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAGATCATTCCTGGACCCGACTTCCCTACAGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGA-AAGGCCTATGAAACAGGCCGGGGATCAATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTAT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTA--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-AAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CCAAT-GCCAAT-G-TACTGTT-AA-----------A-TAA------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>97x1

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCT-CA--CGGTGATTCT-GCTG-TTTACGAAG-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCATGGAAACTTCGG-TTCTGTTGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGTTCGGAAAAAGAGCCGGTTGTTATGCC-TGCGAGATTTCCGAACTTGCTTGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGTGTTTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAGATCATTCCTGGACCCGACTTCCCTACAGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGA-AAGGCCTATGAAACAGGCCGGGGATCAATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTAT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTA--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-AAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCCAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S17c3

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCT-CA--CGGTGATTCT-GCTG-TTTACGAAG-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCATGGAAACTTCGG-TTCTGTTGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGTTCGGAAAAAGAGCCGGTTGTTATGCC-TGCGAGATTTCCGAACTTGCTTGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGTGTTTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAGATCATTCCTGGACCCGACTTCCCTACAGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGA-AAGGCCTATGAAACAGGCCGGGGATCAATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTAT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTA--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-AAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCCAAATG-TACTGTT-AA-------------TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTTGKTG--ACGGCCRSCC?AAAGTATTGAGCTTGA?CA-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S18c5

---------------------------------------------------------------------------GTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GTA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCT-CA--CGGTGATTCT-GCTG-TTTACGAAG-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCATGGAAACTTCGG-TTCTGTTGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGTTCGGAAAAAGAGCCGGTTGTTATGCC-TGCGAGATTTCCGAACTTGCTTGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGTGTTTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAGATCATTCCTGGACCCGACTTCCCTACAGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGA-AAGGCCTATGAAACAGGCCGGGGATCAATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTAT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTA--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-AAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCCAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTCGGCGC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S4C2

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCT-CA--CGGTGATTCT-GCTG-TTTACGAAG-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCATGGAAACTTCGG-TTCTGTTGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGTTCGGAAAAAGAGCCGGTTGTTATGCC-TGCGAGATTTCCGAACTTGCTTGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGTGTTTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAGATCATTCCTGGACCCGACTTCCCTACAGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGA-AAGGCCTATGAAACAGGCCGGGGATCAATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTAT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTA--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-AAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCCAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S18c4

---------------------------------------------------------------------------GTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCTGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCT-CA--CGGTGATTCT-GCTG-TTTACGAAG-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCATGGAAACTTCGG-TTCTGTTGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGTTCGGAAAAAGAGCCGGTTGTTATGCC-TGCGAGATTTCCGAACTTGCTTGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGTGTTTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAGATCATTCCTGGACCCGACTTCCCTACAGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGA-AAGGCCTATGAAACAGGCCGGGGATCAATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTAT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTA--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-AAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCCAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S16c9

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCT-CA--CGGTGATTCT-GCTG-TTTACGAAG-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCATGGAAACTTCGG-TTCTGTTGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGTTCGGAAAAAGAGCCGGTTGTTATGCC-TGCGAGATTTCCGAACTTGCTTGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGTGTTTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAGATCATTCCTGGACCCGACTTCCCTACAGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGA-AAGGCCTATGAAACAGGCCGGGGATCAATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGCAAA----GT-AATCATTAT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTA--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-AAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCCAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----AT-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M18B3

------------------------------------------------------------------YTTCCGGATGTA-AGGGACGGTCT-GAAGCCGG--TGCATAG-AA-GAA-TATTGTAC-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAC----AAGCC-AT---AC-AAAAAA-TCGGCGCGGATCG-TC-GGCG-AAGTCATC-GGTAAATATCA--C-CCG-CA--TGGTGACTCT-GCCG-TTTATGAAG-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTATATGCTTGTT-CAAGGCCATGGAAACTTCGG-TTCTGTCGACGGCGACTCCGCTGCGGCCATGCGTTATACAGAAGCAAGAATGTCGAAAATATCCATGGAAATCCTGCGAGACATTAATAAAGATACGATCGATTATCA-GGACAACTATGACGGGTCTGAAAAAGAACCGGTTGTCATGCC-TGCCAGATTTCCAAACCTGCTGGTCAACGGAGCTGCCGGGA-TTGCGGTAGGTATGGCGACGAATATCCCGCCACATCAGCTTGGTGAGATTATTGACGGGGTTTTAGCCGTCAGTAAAAACCCTGAAATCACGCTTCCGGAGTTGATGGACATCATTCCGGGACCGGATTTCCCGACAGCAGGGCTGATCATGGG-CAGAAGCGGAATCCGC-AAAGCTTATGAAACAGGAAGAGGTTCGATCACGATTCGGGCAAAGGCTCAAAT-CGAAGAAACATCCTCCGGCAAA-CAGGT-CATCATTAT-TACGGAAATA-CCTTATC-AGGTGAATAA-AGCGAAACTG-ATCG-AA-AAAATCGC-CGATCTT--GTCCGCGATAAG-AAAAT-CGA-AGGGAT-AACAGA--TCTC-CGTG--ATGAATC-AG-ACCGAA-A-CGG-CAT-G--AG-GATC-GTCA-TCG--AGCTGAGAC-GAGACG-CAAAT-GCAAAT-G-TTCTGTT-AA-----------A-TAA-TTTGTA--CAAGCA-------------GA--CGGC----------------ACTTC--AAA-CATC----ATTTGGGATCAA-TCTTTTAGCGCTCGTCG--ATGGACAGCC?AA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9C8

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---AATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTG--ACGGTCAGCC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N10B1

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGKTG--ACSGTCRCCCGAAGTWTW-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M8B7

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTG--ACGGTCAGCCSAAAGT-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9A14

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTG--ACGGTCAGCCGAAGT--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S12b2

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CG-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S16B4

------------------------------------------------------------------------------------------------CGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--CCCCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CC-------------------------TA------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>101x1

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CG-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N17A3

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTG--ACSGTCAGCCGAAGTTTTAATCTAAGCATG-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N13C9

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTG--ACSGTCAGCCGAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>101x2

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-C--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>21b6

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CG-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>16b1

----------------------------------------------------------------------------TT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGATT-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAACCTGCTTGGCGCTTGTTGA-CCGGTCARCCCARAAGT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>22a2

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CG-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N19A17

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---AATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTG--ACGGTCAGCC?AAAGTTTAATCTAAC?CGG-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N19A2

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCT?GTTG--AC-GTCAGCCGAAGTTTAA?TAGA?G?????----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N19A13

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTG--ACGGTCAGCCAAAGTTTTAATCTAAC?CGG-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>19b1

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CG-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S13b2

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTG--ACGGTCAGCC?AAAGTTTAATCTAAC?CGG-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T10C12

------------------------------------------------------------------YTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGKTG--ACSGTCAGCC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M7C9

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCA-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAA-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTG--ACGGTCAGCCCAAARTT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S11c6

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTG--ACGGTCAGCCGAAAGTTTTAATCTAAGCAT-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M10C8

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTG----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S10c5

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---AATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CG-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S12c2

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---AATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCA-CACCCGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGGTTTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AA-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N10C6

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCA-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTG--ACGGTCAGCCGAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>93x1

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CG-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N5B2

----------------------------------------------------------------------------TT-CGKGATGGTTTTAAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATCGGGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACC-------------AA--ATGC----------------GCTAC--AAA-CGTC----TTTTGGTATACAACCTGCTTGCSCTTGTKR--ACGKYCASCCGAAWTWTT-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N15A1

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---AATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGCCGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACG-------------AR--RSKG----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTG--ACGGTCAGCCCAAAGTTTAATCTA?C?CGG-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9B15

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCA-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTG--ACGGTCAGCCGAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9A4

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAACCCTGCTTGCGCTTGTTG--ACSGTCAGCCGAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T8B1.F

--------------------------------------------------------------------------------------------AAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTKGTTG--ACSGTCAGCCGAAAGT-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S20B2

---------------------------------------------------------------------------GTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---AATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCCTGCGC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S17B1

-----------------------------------------------------------------------------------------------CGGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---AATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CC-------------------------TA------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S14b5

------------------------------------------------------------------------------------------------CGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CAC-CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGGTTTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-----------------------------------C------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S13C2f

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCA-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-C--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>98x2

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---AATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCA-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CG-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T17B1

--------------------------------------------------------------------------------------------------------------C-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTG--ACGGTCAGCCGAAAGTWTWATCTAA?CAGC-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S1B5

---------------------------------------------------------------------------GTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCA-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M20B4

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAA-CCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATAC-AAAMCA-------------AA--CTGC----------------GCTAC--AAA-CGTT----TTTTGGTATCAACCGGGCTTGCGCTTGTTGG-AC---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M16B3

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTKGTTG--ACGKYCAGCCGAAGTWTA-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S19C4

---------------------------------------------------------------------------GTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---AATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCCTGCGC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>98x10

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CG-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N12A10

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---AATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAACCCTGCTTGCGCTTGTTG--AC---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9A1

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGKTG--ACSGTCAGCCGAAAGTWTTA---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N5A1

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTG--ACSGTCAGCCGAAAGTWT-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9C20Forwa

-----------------------------------------------------------------TCTTCCAGATGTT-CGTGATGGTTT-AAAGCCCGGGTTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGKTG--ACGGTCAGCCGAAAGTTWT----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N12A9

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGKTG--ACGGTCAGCCGAAAGT-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S10b4

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTG--AC?GTCAGCCGAAGTTTAATCTAC??G???-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9B1

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGKTG--ACGGTCAGCCGAAGTWTW-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>96x11

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CG-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S20C6

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATAC-CAAACA-------------AA--CTGC----------------GCTAC--AAA-C--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T18C7

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA-CCTGC----------------GCTAC--AAA-CGTC---TTTTTGGTATCAA-CCTGCTTGCGCTKGTTG--ACSGTCAGCCSAAAAGTTTTTAAATCTAAA-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S18c14

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---AATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCA-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAACCCTGCTTGCGCTTGTTG--ACSGTCAGCCGAAAGT-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9C17

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCA-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAA-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCCAACCTGCTTGCGCTTGTTG--ACSGTCAGCCGAAAGTTW-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M8B10

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAATTCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCA-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGGTTTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AA-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T4c8

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTGGTTG--ACGGTCAGCCGAAGTWTWA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S8C11

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCAACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTG--ACSGTCAGCCGAAAGT-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N4C6

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CG-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T5c12

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGKTG--ACGGTCAGCCGAAAGTWTTAATCTAAGCAT-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S18c11

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CG-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S11c12

------------------------------------------------------------------------------------------------CGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGGTTTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CC-------------------------TA------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S11c3

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGKTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTG--ACGGTCAGCCGAAA---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S14C1xII

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CG-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N2A5

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTG--ACGGTCAGCCRAAGTTTTAATCTAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>103x9

---------------------------------------------------------------------------GTT-CGTGATGGTTT-GAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---AATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCCTGCGC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9B4

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAACCCTGCTTGCGCTTGTTG--ACSGTCAGCCGAAAGT-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S9B2

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CG-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>97x2

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTG--ACGGTCAGCCGAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N16B4

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTCAAG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-C--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9A6

------------------------------------------------------------------YTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCA-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAACCCTGCTTGCGCTTGTTG--ACGGTCAGCC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S8B3

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGGTTG-ACGGTCAGCCRAAGTWTTA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S20C2

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTG--ACGGTCAGCCGAARKTTTTAAATCTAAGCA-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9A13

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATGCCCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAACCCTGCTTGCGCTTGTGG--AC---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N18A16

------------------------------------------------------------------------------------------------CGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGGTTTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CC-------------------------TA------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T15B4

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---AATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTKGTTG--ACGGTCRGCCCRAAGT-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S13c7M

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTW-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTGGTTG--ACSGTCAGCCGAAA---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M20B3

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CG-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S19B1

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CG-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>22a3

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC------CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>93x2

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTG--ACGGTCAGCC?AAAGT-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>19b3a

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CG-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>21b4

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTGGT?G--AC---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9A12

----------------------------------------------------------------------------TT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC---TTTTTGGTATCAA-CCTGCTTGCGCTTGTGR--MCGGTCAGCCRAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T4c7

------------------------------------------------------------------------------------------------CGG--TTCATAG-ACGGGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CC-------------------------TA------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M13C9

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CG-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S16B5

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTKGTTG--ACSGTCAGCCGAAAGT-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>98x3

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCA-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATGCCCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-C?TATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCA--CCTGCTTGC?CTTGTTG--ACGGTCA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N12A14

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CYTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-C--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S20B4

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CG-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S4C4

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---AATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGCCGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGKTG--ACSGTCRGCCCRAAGTWTA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S12c5

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCA-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTG--ACGGTCAGCCGAAAGTTTTAAATCTAAAGC-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N2B2

-------------------------------------------------------------------------------------------------------------A------TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---AATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGGTTTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-G-----AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA----------------------------------------------------CCTAT---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S12c6

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATGCCCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S8C6

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAACCCTGCTTGCGCTTGTTG--ACGGTCAGC--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S11b1II

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTG--ACGGTCAGCCRAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T14C8 F

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCACAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CAGC----------------CCTTC--AAA-CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T5b6

------------------------------------------------------------------YTTCCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCA-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATCG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATCCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGATAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGACTGATCTTGGG-GAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGCTCCATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTKGCSCYKTGWYG--ACGCMMAAYY-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M7C8

------------------------------------------------------------------CTTCCGGACGTT-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTGTG---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>19b5

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCAGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTKGCSCYKTGTYG--AC---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T20C2

------------------------------------------------------------------YTTCCGGACGTT-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAACTTGGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTGGTTG--ACGGACAGCC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T15B1

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTT-GAACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAACTTGGTA--CAAGCA-------------GA--CAGC----------------TCTTC--AAA-C--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N6B5

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCAGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M20B2

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAAACCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGAGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GAGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAM-MA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>102x5

------------------------------------------------------------------CTTCCGGACGTT-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGACC-TT-GGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCT-TTGGCGCTGTGACG-ACGCCAA?TTGG?----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S10c7

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCTAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>19b7

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--CGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCACAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CAGC----------------TCTTC--AAA-CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T14B4

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCAGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------AATAACTTGGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AA--C?-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S4C11

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGTYT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCAGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTGGTTG--ACGGACAGCCGAAA---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>103x6

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCA-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATCG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATCCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGACTGATCTTGGG-GAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGCTCCATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTTGKTG--ACGGACRSCSAAAGTRT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S20c7

------------------------------------------------------------------YTTCCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CAGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTGTG---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M19B3

------------------------------------------------------------------CTTCCGGACGTT-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-TGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCACAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CAGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTGGTTG--ACGAMCAGCCGAAGT--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N1B5

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCAGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9B17

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGACCCTT-GGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCTAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GAGATG-CAAAT-GCTAAT-G-TACTGGTTAA-----------A-TAACTTGGTA--CAAGCA-------------GA--CCGC--------------TTCTTTC--AAA-CATC----ATTCGGCATTAATCTTTTTGGCGCTTGKTG--ACGRACCGCCGAAAGT-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T20C13

------------------------------------------------------------------TTTCCGGACGTT-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTGGTTG--ACGGMCAGCCGAAAGT-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>105x3

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCACAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-C--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T20B3

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-TGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCACAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CAGC----------------TCTTC--AA-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M18B4

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGGCTGTAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGACCCTT-GGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAAATCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCAGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------AATAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTTGKTG--ACGGACAGCCGAAAG--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>103x5

-----------------------------------------------------------------------------------------------------------------------------GCA-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATCG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATCCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGATAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGACTGATCTTGGG-GAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGCTCCATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-C-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------AATAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-C--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S6B5

------------------------------------------------------------------------------------------------CGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGACC-TT-GGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAGCAAATGGTCAGAATGGCGCAGGATTTTTAACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGGTTTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCTAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A---A-T--------------------------AA-----C----------------TT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N17A12

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCAGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGTTTACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG-GGTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--C------------------AA------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S10c12M

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCAGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-----T-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAM-MA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S17B3

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S13c8

------------------------------------------------------------------YTTCCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTK-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S8C7

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--CGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCACAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CAGC----------------TCTTC--AAA-CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S5C1

------------------------------------------------------------------TTTCCGGACGTT-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--CGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCACAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTGGTTG--ACGRACMGCCGAAGKTRTYSR--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T8B2.F

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCAGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG-AAACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTTGKTG--ACG--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>103x7

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG-AAACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------G---CTGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTTGKTG--ACGGACAGCCAAATT--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N1B3

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N12A16

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CTGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTKGTTG--ACGGACAGCCGAAAG--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T19B4

------------------------------------------------------------------CTTCCGGACGTT-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC---------------TTCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTKGCSCYKTGTTG--ACGA-CAGCCAAATT--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S12c1

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCAAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAAACCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGAGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCTGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC---------------TTCTTC--AAA-C--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9C1

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--CGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCACAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CAGC----------------TCTTC--AAA-CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T5b7

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CTGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTTGTTG--ACGGACRRCCCAAAGTATTGAGCT?AAGCA-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N6B3

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S7B1

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAM-CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>103x2

-----------------------------------------------------------------------------------------------------------------------------GCA-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATCG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATCCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGATAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGACTGATCTTGGG-GAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGCTCCATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S11c14

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCA-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATCG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATCCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGATAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGACTGATCTTGGG-GAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGCTCCATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC---------------TTCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTTK----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S17C5

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CAGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTTGTTG--ACGGACAGCCCAAAGTATGACTTGACA?CG-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S4C12

------------------------------------------------------------------CTTCCGGACGTT-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTTGKTG--ACGGACAGCCGAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>105x4

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC---------------TTCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTAGCGCTTGTTG--ACGGACAGCCGAAGTATGACTAAC??G???-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N5B5

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCAAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAAACCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGAGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCTGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTTGKTG--ACGRMCAGCCGAARGTATGACTTAACT?GG-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N18A19

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-TGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCTAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S4C1

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-TGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCACAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GACTCAGC----------------TCTTC---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N18A20

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CAGC----------------TCTTC--AAA-CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T7C12.F

------------------------------------------------------------------CTTCCGGACGTT-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--CGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCACAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CAGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTGGTTG--ACGGACAGC--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S18b4

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC---------------TTCTTC--AAA-C--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S6B2

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCAGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTTG----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>101x4

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTGGTTG--ACGGACA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>106x1

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCAGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC---------------TTCTTC--AAA-C--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S8C1I

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CAC-CGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGGTTTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCACAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CAGC----------------TCTTC--A------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S19B3

------------------------------------------------------------------------------------------------CGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAATTCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--CGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCACAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTG-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T18B3

------------------------------------------------------------------YTTCCGGACGTT-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTKGTTG--ACGGACAGCCGAAAGTATTGAGCTTGA?CA-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>97x6

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCA-A-TGAA-CGACC-TT-GGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATCG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATCCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGATAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGACTGATCTTGGG-GAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGCTCCATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTTGTTGA-C?GGACAGCCGAAAGTATTGAGCTTGAAG------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S8C2I

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCA-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATCG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATCCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGATAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGACTGATCTTGGG-GAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGCTCCATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTTGTTG--ACGGACAGCC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S13c4

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTKGTTG--ACGGACAGCC?AAATATTGACTTAACATCG-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S12c8

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CAGC----------------TCTTC--AAA-CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S12c10

------------------------------------------------------------------CTTCCGGACGTT-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGACC-TT-GGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCACAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--ACGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTTGTTG--ACGGMCAGCCGAAAKTWTTGAGCTTGAAGC-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9B3

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--CGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCACAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CAGC----------------TCTTC--AAA-CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S13c9

-------------------------------------------------------------------TTCCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCTKGCTGTTTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CAGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTGTG---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>102x1

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTAGCGCTGGTTG--ACGGACAGCC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S12c9

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTTGTTG--ACGGACAGCCGAAGTATGACTAAC??GGG------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>103x3

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCACAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T18C8

------------------------------------------------------------------CTTCCGGACGTT-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCACAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTGTG---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N16B1

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCTAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N18A18

------------------------------------------------------------------CTTCCGGACGTT-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTKGTTG--ACGGACASSCCRAAGTWTGGAGCTTGA?CA-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>103x1

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S4b4I

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CAGC----------------TCTTC--AAA-CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>96x12

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCTAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAAACCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGGA-C-CGG-TAT-G--GG-CATC-GTCC-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CTGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTTGTG---ACG--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T15C7

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--CGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCACAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CAGC----------------TCTTC--AAA-C--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S8C10

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--CGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCACAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CAGC----------------TCTTC--AAA-C--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>101x3

------------------------------------------------------------------CTTCCGGACGTT-AGAGACGGTYT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9A24

----------------------------------------------------------------YTTYCCGGGACGTT-AGAGACGKTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGATGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTGTGWYG-ACGSMMARYYGA-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>105x7

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGTTCAGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTTGKTG--ACGGAC-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>103x4

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--CGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCACAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N15B5

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T19C6

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGTTCAGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTTGKTG--ACGGACAGCCSAAAGTATGACTAAC??GGG-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M18B5

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TCGGGCG-AAGTTATC-GKTAATTACCA--C-CCG-CA--CGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCACAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CAGC----------------T-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>98x11

------------------------------------------------------------------------------------------------CGG--TGCACAG-AA-GAA-TATTGTAT-GCA-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAAATCCGCGCGTATCG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATCCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGATAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGACTGATCTTGGG-GAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGCTCCATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGAACGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTT--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>102x7

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T17B5

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CTGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTTGKTG--ACGGACRSCMAAWWGTATTGAGCTTAACTG-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>105x5

------------------------------------------------------------------CTTCCGGACGTT-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAATCTTTTGGGCGCTTGTTG--WCGRMCAGCCGAAAKTWTTS---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S15B1

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>19b6

------------------------------------------------------------------CTTCCGGACGTT-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCACAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTTGTTG--ACGGACAGCC?AAAGTATTGAGCTTGAAGC-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N17A4

------------------------------------------------------------------TTCCCGGACGTT-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTKGTTG--ACGGACAGCC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T20C9 not

------------------------------------------------------------------CTTCCGGACGTT-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTTGTTG--ACGGACAGCCCAAAGTATTGAGCTTGAAC?-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>98x7a

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-TGCGAGATTTTCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCACAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CAGC----------------TCTTC--AAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S11c7

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CAGC----------------TCTTC--AAA-CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S4B2

------------------------------------------------------------------TTTCCGGACGTT-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTTGTTG--AC?GACAGCCCAAGTATGACTGAC?CG???-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N18A13

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTKGA---TAAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CAGC----------------TCTTC--AAA-CATC----ATTCGGCATTAATCTTTTTGGCGCTTGT---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S5B1

------------------------------------------------------------------CTTCCGGACGTT-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGGG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--CGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCACAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CAGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTGTG---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>102x2

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCA-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATCG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATCCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGACTGATCTTGGG-GAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGCTCCATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTKGTTG--ACGGACAGCCSAARKTRKTGACTTGAACAT-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S10c3

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCGCCA--CGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGGTTTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAAAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCACAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CAGC----------------TCTTC---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M11C10

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CAGC----------------TCTTC--AAA-CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S6b4

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CAGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTT-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S16b1

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-TGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCTAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AA--CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S11b3

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--CGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCACAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CAGC----------------TCTTC--AAA-CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>102x6

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTKG-----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CAGC----------------TCTTC--AAA-CATC----ATTCGGCATTAATCTTTTTGGCGCTTGT---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>102X8

------------------------------------------------------------------CTTCCGGACGTT-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCACAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CAGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTGTG---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S18c1

-----------------------------------------------------------------------------------------T-GAGGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAKAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGATGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAACCTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC---ATTTCGGCATTAA-TCTTTTGGCGCTKSKTYG-RCRGAC-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T8c1

------------------------------------------------------------------------------------------------CGG--TGCACAG-AA-GAAATATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--CCCCGGCA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-----------------------------------C------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>102x9

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCAGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N5B4

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAAGCCGAC-CT-TGG---GATGCAC---A--ATCGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAATCTTTTTAGCGCTTG?TTG-ACGGACAGCCGAAA---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T17B3

------------------------------------------------------------------CTTCCGGACGTT-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--CGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCACAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CAGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTKGTTG--ACG--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T19C8 not

------------------------------------------------------------------CTTCCGGACGTT-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTK------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S15B2

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCAGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTTGKTG--ACG--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S8B1

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCATAG-AC-GGA-TTTTGTAT-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-CCGTTACATGCTTGTT-GACGGTCACGGGAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCTATGCGTTATACAGAAGCAAGAATGTCTAAGATTTCAATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCCGTTGTTATGCC-TTCAAGGTTTCCGAATCTGCTCGTGAACGGCGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGATGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCAGAGCTCATGGAAGTCATTCCAGGGCCTGATTTCCCGACTGCCGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CTTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N11C8

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCATAG-AC-GGA-TTTTGTAT-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-CCGTTACATGCTTGTT-GACGGTCACGGGAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCTATGCGTTATACAGAAGCAAGAATGTCTAAGATTTCAATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCCGTTGTTATGCC-TTCAAGGTTTCCGAATCTGCTCGTGAACGGCGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGATGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCAGAGCTCATGGAAGTCATTCCAGGGCCTGATTTCCCGACTGCCGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CTTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAACCCTGCTTGCGCTTGTTG--ACGGCCAGCCGAAR---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T12C18

-----------------------------------------------------------------------------------------------------------------------------GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CAC-CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-CCGTTACATGCTTGTT-GACGGTCACGGGAACTTCGGTTTCTGTTGACGGAGACTCAGCGGCTGCTATGCGTTATACAGAAGCAAGAATGTCTAAGATTTCAATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCCGTTGTTATGCC-TTCAAGGTTTCCGAATCTGCTCGTGAACGGCGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGATGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCAGAGCTCATGGAAGTCATTCCAGGGCCTGATTTCCCGACTGCCGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CTTATA--CAAACA-------------AA--CTGC----------------GCTAC--A------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N14B3

------------------------------------------------------------------------------------------------CGG--TTCATAG-AC-GGA-TTTTGTAT-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-CCGTTACATGCTTGTT-GACGGTCACGGGAACTTCGGTTTCTGTTGACGGAGACTCAGCGGCTGCTATGCGTTATACAGAAGCAAGAATGTCTAAGATTTCAATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCCGTTGTTATGCC-TTCAAGGTTTCCGAATCTGCTCGTGAACGGCGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGATGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCAGAGCTCATGGAAGTCATTCCAGGGCCTGATTTCCCGACTGCCGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA--------------------------------CT--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M16B4

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAACCGGG-TTCATAG-AC-GGA-TTTTGTAT-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-CCGTTACATGCTTGTT-GACGGTCACGGGAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCTATGCGTTATACAGAAGCAAGAATGTCTAAGATTTCAATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCCGTTGTTATGCC-TTCAAGGTTTCCGAATCTGCTCGTGAACGGCGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGATGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCAGAGCTCATGGAAGTCATTCCAGGGCCTGATTTCCCGACTGCCGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CTTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAACCCTGCTTGCGCTTGTTG--ACGGCCAGCCGAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M10C12

-----------------------------------------------------------------------------------------------------------------------------GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-CCGTTACATGCTTGTT-GACGGTCACGGGAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCTATGCGTTATACAGAAGCAAGAATGTCTAAGATTTCAATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCCGTTGTTATGCC-TTCAAGGTTTCCGAATCTGCTCGTGAACGGCGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGATGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCAGAGCTCATGGAAGTCATTCCAGGGCCTGATTTCCCGACTGCCGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CTTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CG-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M13C8

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAA----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCACAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCCGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGATGGTGTACTTGCTGTCAGTGAGAACTCGGACATCACAATCTCGGAACTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGT-AAGGCATACGAATCTGGTCGAGGTTCTATTACGATTCGGGCAAAAGCTGAGAT-CGATCAAACATCTTCAGGCAAA-GAAAG-AATTGTCGT-AACAGAGATT-CCTTACC-AAGTAAACAA-GGCTAAATTA-ATCG-AG-AAAATTGC-AGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TTTA-CGCG--ATGAATC-AG-ACCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTGC--AAA-CATC----TTTTGGTATTAA-CCTGCTTGCGCTKGTTG--ACSGTCAGCCGAAAGT-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S12c4

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCATAG-AC-GGA-TTTTGTAT-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-CCGTTACATGCTTGTT-GACGGTCACGGGAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCTATGCGTTATACAGAAGCAAGAATGTCTAAGATTTCAATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCCGTTGTTATGCC-TTCAAGGTTTCCGAATCTGCTCGTGAACGGCGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGATGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCAGAGCTCATGGAAGTCATTCCAGGGCCTGATTTCCCGACTGCCGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CTTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAACCCTGCTTGCGCTTGTTG--ACGGCCAGCCGAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S13c5F

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCATAG-AC-GGA-TTTTGTAT-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-CCGTTACATGCTTGTT-GACGGTCACGGGAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCTATGCGTTATACAGAAGCAAGAATGTCTAAGATTTCAATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCCGTTGTTATGCC-TTCAAGGTTTCCGAATCTGCTCGTGAACGGCGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGATGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCAGAGCTCATGGAAGTCATTCCAGGGCCTGATTTCCCGACTGCCGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CTTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAACCCTGCTTGCGCTKGTTG--ACGGCCAGCCGAAAGTWT-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N13C10

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCATAG-AC-GGA-TTTTGTAT-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-CCGTTACATGCTTGTT-GACGGTCACGGGAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCTATGCGTTATACAGAAGCAAGAATGTCTAAGATTTCAATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCCGTTGTTATGCC-TTCAAGGTTTCCGAATCTGCTCGTGAACGGCGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGATGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCAGAGCTCATGGAAGTCATTCCAGGGCCTGATTTCCCGACTGCCGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CTTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAACCCTGCTTGCGCTGGTTG--ACGGCCAGCCSAAAGTWT-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>97x7

------------------------------------------------------------------YTTYCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCATAG-AC-GGA-TTTTGTAT-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-CCGTTACATGCTTGTT-GACGGTCACGGGAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCTATGCGTTATACAGAAGCAAGAATGTCTAAGATTTCAATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCCGTTGTTATGCC-TTCAAGGTTTCCGAATCTGCTCGTGAACGGCGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGATGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCAGAGCTCATGGAAGTCATTCCAGGGCCTGATTTCCCGACTGCCGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CTTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCYK?GTTG-ACGGCCAGCCGAAAGTWTAATCTAAGCAT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S8c1.2

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCATAG-AC-GGA-TTTTGTAT-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-CCGTTACATGCTTGTT-GACGGTCACGGGAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCTATGCGTTATACAGAAGCAAGAATGTCTAAGATTTCAATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCCGTTGTTATGCC-TTCAAGGTTTCCGAATCTGCTCGTGAACGGCGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGATGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCAGAGCTCATGGAAGTCATTCCAGGGCCTGATTTCCCGACTGCCGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CTTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTG--ACGGCCAGCC?AAAGTTTAATCTAAC??GG-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T5c8

------------------------------------------------------------------CTGCCGGATGTG-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCG-A-TGAA-TGA-T-TT-AGG---CATG-AC---G--AGTGAC----AAGCC-GT---AT-AAAAAA-TCGGCTCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--T-CCT-CA--CGGTGATTCA-GCGG-TATATGAAT-CTATGGTCAGAATGGCGCAGGATTTC-AACTA-CCGTTATATGCTTGTC-GACGGTCATGGAAACTTTGG-TTCTGTAGACGGAGACTCAGCCGCTGCGATGCGTTACACCGAAGCCAGAATGTCTAAGATCGCCATGGAAATTCTGCGAGACATTACAAAAGACACGATTGATTATCA-AGATAACTATGATGGGTCAGAGAGAGAACCTGTTGTCATGCC-GTCAAGATTCCCAAACCTGCTTGTAAATGGAGCAGCCGGAA-TTGCAGTCGGAATGGCTACAAATATTCCGCCGCACCAGCTTGGAGAAATTATTGACGGAGTGCTTGCCGTAAGCGAGAACAAGGACATAACAATCCAAGAGCTGATGGAATTCATTCCTGGACCGGATTTCCCGACTGCCGGACAAATTTTAGG-CAGAAGCGGAATCCGC-AAGGCATATGAATCCGGAAGAGGTTCTATTACGATTCGGGCAAAAGCAGAAAT-TGAAGAAACTTCGTCAGGGAAA-GAAAG-AATTTTAGT-AACAGAACTC-CCTTATC-AGGTGAATAA-AGCGCGTCTA-ATTG-AG-AAGATTGC-TGATCTT--GTCAGGGATAAG-AAAAT-TGA-AGGAAT-AACTGA--TTTG-CGTG--ATGAATC-TG-ACCGTA-A-TGG-TAT-G--CG-GATT-GTCA-TTG-AAATC-AGAC-GAGATG-CCAAT-GCGCAT-G-TTATCCT-GA-----------A-CAA-CCTGTA--CAAACA-------------GA--CAGC----------------CCTGC--AAA-CCTC----CTTCGGGATTAA-TATGCTCGCGCTKGTTG--ACG--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M11C8

------------------------------------------------------------------CTTCCGGATGTC-CGTGACGGTTT-AAAACCAG--TTCACAG-AC-GGA-TTTTGTAC-GCG-A-TGAA-TGA-T-CT-GGG---AATG-AC---C--AGTGAC----AAGGC-GT---AT-AAAAAA-TCTGCGCGTATTG-TC-GGAG-AAGTTATC-GGTAAGTACCA--C-CCT-CA--CGGGGATTCC-GCAG-TATATGAAT-CCATGGTCAGGATGGCGCAGGACTTC-AACTA-CCGTTATATGCTTGTC-GACGGTCATGGAAACTTTGG-TTCTGTAGACGGAGACTCAGCCGCTGCGATGCGGTACACCGAAGCCAGAATGTCTAAGATCGCCATGGAAATTCTGCGAGACATTACAAAAGACACGATTGATTATCA-AGATAACTATGATGGTTCAGAGAGAGAACCTGTTGTCATGCC-GTCAAGATTCCCAAACCTGCTTGTAAATGGAGCAGCCGGTA-TTGCAGTCGGAATGGCTACAAATATACCGCCGCACCAGCTTGGAGAAATTATTGACGGAGTGCTTGCCGTAAGCGAGAACAAGGACATAACAATCCAAGAGCTGATGGAATTCATTCCTGGGCCGGATTTCCCGACTGCCGGACAAATTTTAGG-CAGAAGCGGAATCCGC-AAGGCATATGAATCCGGAAGAGGTTCTATTACGATTCGGGCAAAAGCAGAAAT-CGAAGAAACTCCATCAGGGAAA-GAAAG-AATTTTAGT-AACAGAACTC-CCTTATC-AGGTGAATAA-AGCGCGTCTA-ATTG-AG-AAGATTGC-TGATCTT--GTCAGGGATAAG-AAAAT-TGA-AGGAAT-AACTGA--TTTG-CGTG--ATGAATC-TG-ACCGTA-A-CGG-TAT-G--CG-GATT-GTCA-TTG-AAATC-AGAC-GAGATG-CCAAT-GCGCAT-G-TTATCCT-GA-----------A-CAA-TCTGTA--CAAACA-------------AA--CGGC----------------CCTGC--AAA-CTTC----CTTCGGGATTAA-CCTGCTGGCGCTKGTTG--ACGKCGAGCCGAAG---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M19C8

------------------------------------------------------------------TTCCCGGATKTC-CGTGACGGTTT-AAAACCAG--TTCACAG-AC-GGA-TTTTGTAC-GCG-A-TGAA-TGA-T-CT-GGG---AATG-AC---C--AGTGAC----AAGGC-GT---AT-AAAAAA-TCTGCGCGTATTG-TC-GGAG-AAGTTATC-GGTAAGTACCA--C-CCT-CA--CGGGGATTCC-GCAG-TATATGAAT-CCATGGTCAGGATGGCGCAGGACTTC-AACTA-CCGTTATATGCTTGTC-GACGGTCATGGAAACTTTGG-TTCTGTAGACGGAGACTCAGCCGCTGCGATGCGGTACACCGAAGCCAGAATGTCTAAGATCGCCATGGAAATTCTGCGAGACATTACAAAAGACACGATTGATTATCA-AGATAACTATGATGGTTCAGAGAGAGAACCTGTTGTCATGCC-GTCAAGATTCCCAAACCTGCTTGTAAATGGAGCAGCCGGTA-TTGCAGTCGGAATGGCTACAAATATACCGCCGCACCAGCTTGGAGAAATTATTGACGGAGTGCTTGCCGTAAGCGAGAACAAGGACATAACAATCCAAGAGCTGATGGAATTCATTCCTGGGCCGGATTTCCCGACTGCCGGACAAATTTTAGG-CAGAAGCGGAATCCGC-AAGGCATATGAATCCGGAAGAGGTTCTATTACGATTCGGGCAAAAGCAGAAAT-CGAAGAAACTCCATCAGGGAAA-GAAAG-AATTTTAGT-AACAGAACTC-CCTTATC-AGGTGAATAA-AGCGCGTCTA-ATTG-AG-AAGATTGC-TGATCTT--GTCAGGGATAAG-AAAAT-TGA-AGGAAT-AACTGA--TTTG-CGTG--ATGAATC-TG-ACCGTA-A-CGG-TAT-G--CG-GATT-GTCA-TTG-AAATC-AGAC-GAGATG-CCAAT-GCGCAT-G-TTATCCT-GA-----------A-CAA-TCTGTA--CAAACA-------------AA--CGGC----------------CCTGC--AAA-CTTC----CTTCGGGATTAA-CCTGCTGGCGCTTGT---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N12A15

-------------------------------------------------------------------TTCC--------CGTGACGGTTT-AAAACCAG--TTCACAG-AC-GGA-TTTTGTAC-GCG-A-TGAA-TGA-T-TT-GGG---AATG-AC---C--AGTGAC----AAGGC-GT---AT-AAAAAA-TCTGCGCGTATTG-TC-GGAG-AAGTTATC-GGTAAGTACCA--C-CCTTCA--CGGGGATTCC-GCAG-TATATGAAT-CCATGGTCAGGATGGCGCAGGACTTC-AACTA-CCGTTATATGCTTGTC-GACGGTCATGGAAACTTTGG-TTCTGTAGACGGAGACTCAGCCGCTGCGATGCGGTACACCGAAGCCAGAATGTCTAAGATCGCCATGGAAATTCTGCGAGACATTACAAAAGACACGATTGATTATCA-AGATAACTATGATGGTTCAGAGAGAGAACCTGTTGTCATGCC-GTCAAGATTCCCAAACCTGCTTGTAAATGGAGCAGCCGGTA-TTGCAGTCGGAATGGCTACAAATATACCGCCGCACCAGCTTGGAGAAATTATTGACGGAGTGCTTGCCGTAAGCGAGAACAAGGACATAACAATCCAAGAGCTGATGGAATTCATTCCTGGGCCGGATTTCCCGACTGCCGGACAAATTTTAGG-CAGAAGCGGAATCCGC-AAGGCATATGAATCCGGAAGAGGTTCTATTACGATTCGGGCAAAAGCAGAAAT-CGAAGAAACTCCATCAGGGAAA-GAAAG-AATTTTAGT-AACAGAACTC-CCTTATC-AGGTGAATAA-AGCGCGTCTA-ATTG-AG-AAGATTGC-TGATCTT--GTCAGGGATAAG-AAAAT-TGA-AGGAAT-AACTGA--TTTG-CGTG--ATGAATC-TG-ACCGTA-A-CGG-TAT-G--CG-GATT-GTCA-TTG-AAATC-AGAC-GAGATG-CCAAT-GCGCAT-G-TTATCCT-GA-----------A-CAA-TCTGTA--CAAACA-------------AA--CGGC----------------CCTGC--AAA-CTTC----CTTCGGGATTAA-CCTGCTGGCGCTTG----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S17c9

------------------------------------------------------------------CTTCCGGATGTC-CGTGACGGTTT-AAAACCAG--TTCACAG-AC-GGA-TTTTGTAC-GCG-A-TGAA-TGA-T-CT-GGG---AATG-AC---C--AGTGAC----AAGGC-GT---AT-AAAAAA-TCTGCGCGTATTG-TC-GGAG-AAGTTATC-GGTAAGTACCA--C-CCT-CA--CGGGGATTCC-GCAG-TATATGAAT-CCATGGTCAGGATGGCGCAGGACTTC-AACTA-CCGTTATATGCTTGTC-GACGGTCATGGAAACTTTGG-TTCTGTAGACGGAGACTCAGCCGCTGCGATGCGGTACACCGAAGCCAGAATGTCTAAGATCGCCATGGAAATTCTGCGAGACATTACAAAAGACACGATTGATTATCA-AGATAACTATGATGGTTCAGAGAGAGAACCTGTTGTCATGCC-GTCAAGATTCCCAAACCTGCTTGTAAATGGAGCAGCCGGTA-TTGCAGTCGGAATGGCTACAAATATACCGCCGCACCAGCTTGGAGAAATTATTGACGGAGTGCTTGCCGTAAGCGAGAACAAGGACATAACAATCCAAGAGCTGATGGAATTCATTCCTGGGCCGGATTTCCCGACTGCCGGACAAATTTTAGG-CAGAAGCGGAATCCGC-AAGGCATATGAATCCGGAAGAGGTTCTATTACGATTCGGGCAAAAGCAGAAAT-CGAAGAAACTCCATCAGGGAAA-GAAAG-AATTTTAGT-AACAGAACTC-CCTTATC-AGGTGAATAA-AGCGCGTCTA-ATTG-AG-AAGATTGC-TGATCTT--GTCAGGGATAAG-AAAAT-TGA-AGGAAT-AACTGA--TTTG-CGTG--ATGAATC-TG-ACCGTA-A-CGG-TAT-G--CG-GATT-GTCA-TTG-AAATC-AGAC-GAGATG-CCAAT-GCGCAT-G-TTATCCT-GA-----------A-CAA-TCTGTA--CAAACA-------------AA--CGGC----------------CCTGC--AAA-CTTC----CTTCGGGATTAACCCTGCTGGCGCTKGTTG--ACGGCGAGCCGAAGGT-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T14B5

------------------------------------------------------------------CTTCCGGATGTC-CGTGACGGTTT-AAAACCAG--TTCACAG-AC-GGA-TTTTGTAC-GCG-A-TGAA-TGA-T-CT-GGG---AATG-AC---C--AGTGAC----AAGGC-GT---AT-AAAAAA-TCTGCGCGTATTG-TC-GGAG-AAGTTATC-GGTAAGTACCA--C-CCT-CA--CGGGGATTCC-GCAG-TATATGAAT-CCATGGTCAGGATGGCGCAGGACTTC-AACTA-CCGTTATATGCTTGTC-GACGGTCATGGAAACTTTGG-TTCTGTAGACGGAGACTCAGCCGCTGCGATGCGGTACACCGAAGCCAGAATGTCTAAGATCGCCATGGAAATTCTGCGAGACATTACAAAAGACACGATTGATTATCA-AGATAACTATGATGGTTCAGAGAGAGAACCTGTTGTCATGCC-GTCAAGATTCCCAAACCTGCTTGTAAATGGAGCAGCCGGTA-TTGCAGTCGGAATGGCTACAAATATACCGCCGCACCAGCTTGGAGAAATTATTGACGGAGTGCTTGCCGTAAGCGAGAACAAGGACATAACAATCCAAGAGCTGATGGAATTCATTCCTGGGCCGGATTTCCCGACTGCCGGACAAATTTTAGG-CAGAAGCGGAATCCGC-AAGGCATATGAATCCGGAAGAGGTTCTATTACGATTCGGGCAAAAGCAGAAAT-CGAAGAAACTCCATCAGGGAAA-GAAAG-AATTTTAGT-AACAGAACTC-CCTTATC-AGGTGAATAA-AGCGCGTCTA-ATTG-AG-AAGATTGC-TGATCTT--GTCAGGGATAAG-AAAAT-TGA-AGGAAT-AACTGA--TTTG-CGTG--ATGAATC-TG-ACCGTA-A-CGG-TAT-G--CG-GATT-GTCA-TTG-AAATC-AGAC-GAGATG-CCAAT-GCGCAT-G-TTATCCT-GA-----------A-CAA-TCTGTA--CAAACA-------------AA--CGGC----------------CCTGC--AAA-CTTC----CTTCGGGA?TAA-CCTGCTGGCGCT?GT?G--ACGGCGAGCCAA?GTATTAATTAA?CATGC-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M2C6

---------------------------------------------------------------------------GTG-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCG-A-TGAA-TGA-T-TT-AGG---CATG-AC---G--AGTGAC----AAGCC-GT---AT-AAAAAA-TCGGCTCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--T-CCT-CA--CGGTGATTCA-GCGG-TATATGAAT-CTATGGTCAGAATGGCGCAGGATTTC-AACTA-CCGTTATATGCTTGTC-GACGGTCATGGAAACTTTGG-TTCTGTAGACGGAGACTCAGCCGCTGCGATGCGTTACACCGAAGCCAGAATGTCTAAGATCGCCATGGAAATTCTGCGAGACATTACTAAAGACACGATTGATTATCA-AGATAACTATGACGGGTCAGAGAGAGAACCTGTTGTCATGCC-GTCTAGATTTCCAAACCTGCTTGTAAATGGAGCAGCCGGAA-TTGCAGTCGGAATGGCTACAAATATTCCGCCGCACCAGCTTGGAGAAATTATTGACGGAGTGCTTGCCGTAAGCGAGAACAAGGACATAACAATCCAAGAGCTGATGGAATTCATTCCTGGACCGGATTTCCCGACTGCCGGACAAATTTTAGG-CAGAAGCGGAATCCGC-AAGGCATATGAATCCGGAAGAGGTTCTATTACGATTCGGGCAAAAGCAGAAAT-TGAAGAAACTTCGTCAGGGAAA-GAAAG-AATTTTAGT-AACAGAACTC-CCTTATC-AGGTGAATAA-AGCGCGTCTA-ATTG-AG-AAGATTGC-TGATCTT--GTCAGGGATAAG-AAAAT-TGA-AGGAAT-AACTGA--TTTG-CGTG--ATGAATC-TG-ACCGTA-A-CGG-TAT-G--CG-GATT-GTCA-TTG-AAATC-AGAC-GAGATG-CCAAT-GCGCAT-G-TTATCCT-GA-----------A-CAA-CCTGTA--CAAACA-------------GA--CAGC----------------CCTGC--AAA-CTTC----CTTCGGGATTAA-TATGCTGGCGC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M14C11

------------------------------------------------------------------CTTCCGGATGTC-CGTGACGGTTT-AAAACCAG--TTCACCG-AC-GGA-TTTTATAC-GCG-A-TGAA-TGA-T-CT-GGG---AATG-AC---C--AGTGAC----AAGGC-GT---AT-AAAAAA-TCTGCGCGTATTG-TC-GGAG-AAGTTATC-GGTAAGTACCA--C-CCT-CA--CGGGGATTCC-GCAG-TATATGAAT-CCATGGTCAGGATGGCGCAGGACTTC-AACTA-CCGTTATATGCTTGTC-GACGGTCATGGAAACTTTGG-TTCTGTAGACGGAGACTCAGCCGCTGCGATGCGGTACACCGAAGCCAGAATGTCTAAGATCGCCATGGAAATTCTGCGAGACATTACAAAAGACACGATTGATTATCA-AGATAACTATGATGGTTCAGAGAGAGAACCTGTTGTCATGCC-GTCAAGATTCCCAAACCTGCTTGTAAATGGAGCAGCCGGTA-TTGCAGTCGGAATGGCTACAAATATACCGCCGCACCAGCTTGGAGAAATTATTGACGGAGTGCTTGCCGTAAGCGAGAACAAGGACATAACAATCCAAGAGCTGATGGAATTCATTCCTGGGCCGGATTTCCCGACTGCCGGACAAATTTTAGG-CAGAAGCGGAATCCGC-AAGGCATATGAATCCGGAAGAGGTTCTATTACGATTCGGGCAAAAGCAGAAAT-CGAAGAAACTCCATCAGGGAAA-GAAAG-AATTTTAGT-AACAGAACTC-CCTTATC-AGGTGAATAA-AGCGCGTCTA-ATTG-AG-AAGATTGC-TGATCTT--GTCAGGGATAAG-AAAAT-TGA-AGGAAT-AACTGA--TTTG-CGTG--ATGAATC-TG-ACCGTA-A-CGG-TAT-G--CG-GATT-GTCA-TTG-AAATC-AGAC-GAGATG-CCAAT-GCGCAT-G-TTATCCT-GA-----------A-CAA-TCTGTA--CAAACA-------------AA--CGGC----------------CCTGC--AAM-YTYC----CTTCGGGATTAACCCTGCTGGCGCTTGTTG--ACGGCGAGCC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M20C8

------------------------------------------------------------------TTYCGGGATGTC-CGTGACGGTTT-AAAACCAG--TTCACAG-AC-GGA-TTTTGTAC-GCG-A-TGAA-TGA-T-CT-GGG---AATG-AC---C--AGTGAC----AAGGC-GT---AT-AAAAAA-TCTGCGCGTATTG-TC-GGAG-AAGTTATC-GGTAAGTACCA--C-CCT-CA--CGGGGATTCC-GCAG-TATATGAAT-CCATGGTCAGGATGGCGCAGGACTTC-AACTA-CCGTTATATGCTTGTC-GACGGTCATGGAAACTTTGG-TTCTGTAGACGGAGACTCAGCCGCTGCGATGCGGTACACCGAAGCCAGAATGTCTAAGATCGCCATGGAAATTCTGCGAGACATTACAAAAGACACGATTGATTATCA-AGATAACTATGATGGTTCAGAGAGAGAACCTGTTGTCATGCC-GTCAAGATTCCCAAACCTGCTTGTAAATGGAGCAGCCGGTA-TTGCAGTCGGAATGGCTACAAATATACCGCCGCACCAGCTTGGAGAAATTATTGACGGAGTGCTTGCCGTAAGCGAGAACAAGGACATAACAATCCAAGAGCTGATGGAATTCATTCCTGGGCCGGATTTCCCGACTGCCGGACAAATTTTAGG-CAGAAGCGGAATCCGC-AAGGCATATGAATCCGGAAGAGGTTCTATTACGATTCGGGCAAAAGCAGAAAT-CGAAGAAACTCCATCAGGGAAA-GAAAG-AATTTTAGT-AACAGAACTC-CCTTATC-AGGTGAATAA-AGCGCGTCTA-ATTG-AG-AAGATTGC-TGATCTT--GTCAGGGATAAG-AAAAT-TGA-AGGAAT-AACTGA--TTTG-CGTG--ATGAATC-TG-ACCGTA-A-CGG-TAT-G--CG-GATT-GTCA-TTG-AAATC-AGAC-GAGATG-CCAAT-GCGCAT-G-TTATCCT-GA-----------A-CAA-TCTGTA--CAAACA-------------AA--CGGC----------------CCTGC--AAA-CTTC----CTTCGGGATTAA-CCTGCTGGCGCTTGTKG--ACGGCGAGCCRAAGTTAT-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9A22

------------------------------------------------------------------YTTCCGGATGTC-CGTGACGGTTT-AAAACCAG--TTCACCG-AC-GGA-TTTTATAC-GCG-A-TGAA-TGA-T-CT-GGG---AATG-AC---C--AGTGAC----AAGGC-GT---AT-AAAAAA-TCTGCGCGTATTG-TC-GGAG-AAGTTATC-GGTAAGTACCA--C-CCT-CA--CGGGGATTCC-GCAG-TATATGAAT-CCATGGTCAGGATGGCGCAGGACTTC-AACTA-CCGTTATATGCTTGTC-GACGGTCATGGAAACTTTGG-TTCTGTAGACGGAGACTCAGCCGCTGCGATGCGGTACACCGAAGCCAGAATGTCTAAGATCGCCATGGAAATTCTGCGAGACATTACAAAAGACACGATTGATTATCA-AGATAACTATGATGGTTCAGAGAGAGAACCTGTTGTCATGCC-GTCAAGATTCCCAAACCTGCTTGTAAATGGAGCAGCCGGTA-TTGCAGTCGGAATGGCTACAAATATACCGCCGCACCAGCTTGGAGAAATTATTGACGGAGTGCTTGCCGTAAGCGAGAACAAGGACATAACAATCCAAGAGCTGATGGAATTCATTCCTGGGCCGGATTTCCCGACTGCCGGACAAATTTTAGG-CAGAAGCGGAATCCGC-AAGGCATATGAATCCGGAAGAGGTTCTATTACGATTCGGGCAAAAGCAGAAAT-CGAAGAAACTCCATCAGGGAAA-GAAAG-AATTTTAGT-AACAGAACTC-CCTTATC-AGGTGAATAA-AGCGCGTCTA-ATTG-AG-AAGATTGC-TGATCTT--GTCAGGGATAAG-AAAAT-TGA-AGGAAT-AACTGA--TTTG-CGTG--ATGAATC-TG-ACCGTA-A-CGG-TAT-G--CG-GATT-GTCA-TTG-AAATC-AGAC-GAGATG-CCAAT-GCGCAT-G-TTATCCT-GA-----------A-CAA-TCTGTA--CAAACA-------------AA--CGGC----------------CCTGC--AAA-CTTC----CTTCGGGATTAA-CCTGCTGGCGCTTGTTG--ACGGC?AGCCAA-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9A16

------------------------------------------------GTTATCGTATCCCGGGCTCTTCCGGATGTC-CGTGACGGTTT-AAAACCAG--TTCACAG-AC-GGA-TTTTGTAC-GCG-A-TGAA-TGA-T-CT-GGG---AATG-AC---C--AGTGAC----AAGGC-GT---AT-AAAAAA-TCTGCGCGTATTG-TC-GGAG-AAGTTATC-GGTAAGTACCA--C-CCT-CA--CGGGGATTCC-GCAG-TATATGAAT-CCATGGTCAGGATGGCGCAGGACTTC-AACTA-CCGTTATATGCTTGTC-GACGGTCATGGAAACTTTGG-TTCTGTAGACGGAGACTCAGCCGCTGCGATGCGGTACACCGAAGCCAGAATGTCTAAGATCGCCATGGAAATTCTGCGAGACATTACAAAAGACACGATTGATTATCA-AGATAACTATGATGGTTCAGAGAGAGAACCTGTTGTCATGCC-GTCAAGATTCCCAAACCTGCTTGTAAATGGAGCAGCCGGTA-TTGCAGTCGGAATGGCTACAAATATACCGCCGCACCAGCTTGGAGAAATTATTGACGGAGTGCTTGCCGTAAGCGAGAACAAGGACATACCAATCCAAGAGCTGATGGAATTCATTCCTGGGCCGGATTTCCCGACTGCCGGACAAATTTTAGG-CAGAAGCGGAATCCGC-AAGGCGTATGAATCCGGAAGAGGTTCTATTACGATTCGGGCAAAAGCAGAAAT-TGAAGAAACACCGTCAGGGAAA-GAAAG-AATTTTAGT-AACAGAACTC-CCTTACC-AGGTGAATAA-AGCGCGTCTA-ATTG-AG-AAGATTGC-TGATCTT--GTCAGGGATAAG-AAAAT-TGA-AGGAAT-AACTGA--TTTG-CGTG--ATGAGTC-TG-ACCGTA-A-CGG-TAT-G--CG-GATT-GTCA-TTG-AAATC-AGAC-GAGATG-CCAAT-GCACAT-G-TTATCCT-GA-----------A-CAA-TCTGTA--CAAACA-------------AA--CGGC----------------CCTGC--AAA-CTTC----CTTCGGGATTAA-CCTGCTGGCG--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M18B2

------------------------------------------------------------------CTTCCGGATGTC-CGTGACGGTTT-AAAACCAG--TTCACCG-AC-GGA-TTTTATAC-GCG-A-TGAA-TGA-T-CT-GGG---AATG-AC---C--AGTGAC----AAGGC-GT---AT-AAAAAA-TCTGCGCGTATTG-TC-GGAG-AAGTTATC-GGTAAGTACCA--C-CCT-CA--CGGGGATTCC-GCAG-TATATGAAT-CCATGGTCAGGATGGCGCAGGACTTC-AACTA-CCGTTATATGCTTGTC-GACGGTCATGGAAACTTTGG-TTCTGTAGACGGAGACTCAGCCGCTGCGATGCGGTACACCGAAGCCAGAATGTCTAAGATCGCCATGGAAATTCTGCGAGACATTACAAAAGACACGATTGATTATCA-AGATAACTATGATGGTTCAGAGAGAGAACCTGTTGTCATGCC-GTCAAGATTCCCAAACCTGCTTGTAAATGGAGCAGCCGGTA-TTGCAGTCGGAATGGCTACAAATATACCGCCGCACCAGCTTGGAGAAATTATTGACGGAGTGCTTGCCGTAAGCGAGAACAAGGACATAACAATCCAAGAGCTGATGGAATTCATTCCTGGGCCGGATTTCCCGACTGCCGGACAAATTTTAGG-CAGAAGCGGAATCCGC-AAGGCATATGAATCCGGAAGAGGTTCTATTACGATTCGGGCAAAAGCAGAAAT-CGAAGAAACTCCATCAGGGAAA-GAAAG-AATTTTAGT-AACAGAACTC-CCTTATC-AGGTGAATAA-AGCGCGTCTA-ATTG-AG-AAGATTGC-TGATCTT--GTCAGGGATAAG-AAAAT-TGA-AGGAAT-AACTGA--TTTG-CGTG--ATGAATC-TG-ACCGTA-A-CGG-TAT-G--CG-GATT-GTCA-TTG-AAATC-AGAC-GAGATG-CCAAT-GCGCAT-G-TTATCCT-GA-----------A-CAA-TCTGTA--CAAACA-------------AA--CGGC----------------CCTGC--AAA-CTTC----CTTCGGGATTAACCCTGCTGGCGCTTGT---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S9C1

------------------------------------------------GTTATTGTTTCCCGTGCTCTTCCTGATGTA-AGAGACGGACT-GAAGCCGG--TGCATAG-AA-GAA-TTTTGTAC-GCG-A-TGAA-TGA-C-CT-TGG---GATG-AC---A--AGCGAC----AAACC-AT---AC-AAAAAA-TCTGCCCGGATTG-TC-GGCG-AAGTTATT-GGTAAGTACCA--T-CCG-CA--CGGTGATTCT-GCCG-TTTACGAAG-CGATGGTCAGGATGGCCCAGGATTTC-AACTA-TCGCTATATGCTTGTT-CAAGGCCATGGGAACTTCGG-TTCTGTCGATGGCGATTCAGCAGCTGCGATGCGTTATACAGAAGCGAGAATGTCGAAAATATCCATGGAAATCCTGCGCGACATCAACAAGGATACGATTGACTATCA-AGACAACTATGACGGATCTGAAAGAGAACCGATTGTCATGCC-TGCCAGATTTCCAAACCTGTTGGTTAACGGTGCAGCCGGGA-TTGCAGTCGGAATGGCGACAAATATCCCGCCGCATCAACTTGGCGAAGTCGTTGACGGGGTTTTGGCAGTCAGCAAGAACCCTGATATTTCGCTTGCGGAATTGATGGAAATCATCCCGGGCCCTGATTTCCCGACGGCAGGTTTGATCTTGGG-AAGAAGCGGAATCCGC-AAAGCTTATGAAACAGGCCGCGGATCGATTACGCTTCGAGCCAAAGCGCAAAT-TGAAGAAACATCATCCGGCAAA-CCGGT-TATCATTGT-TACGGAAATA-CCGTATC-AGGTGAATAA-AGCAAAACTG-ATTG-AA-AAAATCGC-TGATCTT--GTCCGCGACAAG-AAAAT-CGA-GGGCAT-TACAGA--TCTT-CGCG--ATGAATC-AG-ACCGAA-A-CGG-AAT-G--CG-GATT-GTCA-TCG--AGCTGAGAA-GAGACG-CAAAT-GCCAAC-G-TTCTGTT-AA-----------A-TAA-TTTGTA--CAAGCA-------------GA--CCGC----------------ACTTC--AAA-CATC----ATTTGGGATCAA-TCTTTTGGCG--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S18c8

------------------------------------------------------------------CTTCCGGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTGTAT-GCA-A-TGAA-CGA-T-TT-GGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCACGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--TGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGGGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCAATGGAGATCCTTCGAGACATCACAAAAGACACAATCGATTATCA-GGATAACTATGACGGATCAGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTAAACGGTGCTGCGGGAA-TCGCGGTAGGTATGGCAACAAACATTCCTCCGCATCAGCTGGGAGAAGTCATTGACGGTGTACTTGCTGTCAGTGAAAATCCTGAAATCACAATACAGGAGCTTATGGAGGTTATTCCAGGTCCTGACTTCCCGACTGCGGGTCAAATCTTAGG-ACGCAGTGGCATCCGA-AAAGCATACGAATCTGGCCGAGGCTCTATCACAATCCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCAGGTAAA-GAAAG-AATTATTGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAGATTGC-TGATCTC--GTAAGGGACAAG-AAGAT-AGA-GGGCAT-TACAGA--TCTG-CGTG--ATGAGTC-AG-ACCGTA-C-AGG-AAT-G--AG-AGTT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTTT-AA-----------A-CAA-TCTTTA--CAAACA-------------AA--CTGC----------------TTTGC--AAA-CATC----TTTTGGTATCAACCCTGCTTGCACTTGTTG--ATGGTCAGCCGAAGGTTTTAATTTAAGCA------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T5B10

-----------------------------------------------------------------------------------------------------------------------------GCA-A-TGAA-CGA-T-TT-GGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCACGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--TGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGGGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCAATGGAGATCCTTCGAGACATCACAAAAGACACAATCGATTATCA-GGATAACTATGACGGATCAGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTAAACGGTGCTGCGGGAA-TCGCGGTAGGTATGGCAACAAACATTCCTCCACACCAGCTGGGAGAAGTCATTGACGGTGTACTTGCTGTCAGTGAAAATCCTGAAATCACAATACAGGAGCTTATGGAGATTATTCCAGGTCCTGACTTCCCGACTGCGGGTCAAATCTTAGG-ACGCAGTGGCATCCGA-AAAGCATACGAATCTGGCCGAGGCTCTATCACAATCCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCAGGTAAA-GAAAG-AATTATTGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAGATTGC-TGATCTC--GTAAGGGACAAG-AAGAT-AGA-GGGCAT-TACAGA--TCTG-CGTG--ATGAATC-AG-ACCGTA-C-AGG-AAT-G--AG-AGTT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTTT-AA-----------A-CAA-TCTTTA--CAAACA-------------AA--CTGC----------------TTTGC--AAA-C--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M15B5

---------------------------------------------------------------------------GTT-CGAGACGGTTT-GAAACCGG--TTCATAG-AC-GGA-TTTTGTAT-GCA-A-TGAA-TGA-T-TT-AGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCTCAGGATTTC-AACTA-CCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCGGCCATGCGTTATACAGAAGCACGAATGTCTAAAATCTCAATGGAGATTCTTCGCGACATCACAAAAGACACAATCGATTACCA-GGATAACTATGACGGGTCAGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGCA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTGGGAGAAATCATTGATGGTGTACTTGCTGTCAGTGAGAATCCGGACATTACAATTCCAGAACTTATGGAAGTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCAGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCGGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATTG-AG-AAAATTGC-TGATCTC--GTAAGGGACAAA-AAGAT-AGA-GGGTAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCGAAT-G-TCATCTT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGCATCAA-CCTGCCTGCAC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M15B4

------------------------------------------------------------------------------------------------CGG--TTCACAG-AC-GGA-TTTTGTAT-GCA-A-TGAA-CGA-T-TT-GGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCACGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--TGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGGGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCAATGGAGATCCTTCGAGACATCACAAAAGACACAATCGATTATCA-GGATAACTATGACGGATCAGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTAAACGGTGCTGCGGGAA-TCGCGGTAGGTATGGCAACAAACATTCCTCCGCATCAGCTGGGAGAAGTCATTGACGGTGTACTTGCTGTCAGTGAAAATCCTGAAATCACAATACAGGAGCTTATGGAGGTTATTCCAGGTCCTGACTTCCCGACTGCGGGTCAAATCTTAGG-ACGCAGTGGCATCCGA-AAAGCATACGAATCTGGCCGAGGCTCTATCACAATCCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCAGGTAAA-GAAAG-AATTATTGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAGATTGC-TGATCTC--GTAAGGGACAAG-AAGAT-AGA-GGGCAT-TACAGA--TCTG-CGTG--ATGAGTC-AG-ACCGTA-C-AGG-AAT-G--AG-AGTT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTTT-AA-----------A-CAA----------------------------------------------------TCTT----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T9C1 F

------------------------------------------------GTTATCGTGTCCCGTGCTCTTCCGGATGTT-CGTGACGGTTT-AAAACCGG--TTCATAG-AC-GGA-TTTTGTAT-GCA-A-TGAA-TGA-T-TT-AGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCTCAGGATTTC-AACTA-CCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCGGCCATGCGTTATACAGAAGCACGAATGTCTAAAATCTCAATGGAGATTCTTCGCGACATCACAAAAGACACAATCGATTACCA-GGATAACTATGACGGGTCAGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGCA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTGGGAGAAATCATTGACGGTGTACTTGCTGTTAGTGAGAATCCGGACATTACAATTCCAGAGCTTATGGAAGTCATTCCAGGGCCTGATTTCCCGACCGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCAGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCGGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATTG-AG-AAAATTGC-TGATCTC--GTAAGGGACAAA-AAGAT-AGA-GGGTAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCGAAT-G-TTATCTT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGCATCAA-CCTGCTTGCG--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S20C5

---------------------------------------------------------------------------GTT-CGAGACGGTTT-AAAACCGG--TTCATAG-AC-GGA-TTTTGTAT-GCA-A-TGAA-TGA-T-TT-AGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCTCAGGATTTC-AACTA-CCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCGGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCAATGGAGATTCTTCGCGACATCACAAAAGACACAATCGATTACCA-GGATAACTATGACGGGTCAGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGCA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTGGGAGAAATCATTGATGGTGTACTTGCTGTCAGTGAGAATCCGGACATTACCATTCCAGAGCTTATGGAAGTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCAGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCGGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATTG-AG-AAAATTGC-TGATCTC--GTAAGGGACAAA-AAGAT-AGA-GGGTAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TCATCTT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGCATCAA-CCTGCTTGCAC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S9B4

-----------------------------------------------------------------------------------------------------------------------------GCA-A-TGAA-CGA-T-TT-GGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCACGTATCG-TC-GGAG-AAGTGATC-GGGAAATACCA--C-CCA-CA--TGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGGGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCAATGGAGATTCTTCGAGACATCACAAAAGACACAATCGATTATCA-GGATAACTATGACGGATCAGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTTCCGAATCTGCTCGTAAACGGTGCTGCGGGAA-TTGCGGTAGGTATGGCAACAAACATTCCTCCACACCAGCTGGGAGAAGTTATTGACGGTGTACTTGCTGTCAGTGAAAATCCTGAAATCACAATACAGGATCTTATGGAGGTTATTCCAGGTCCTGACTTCCCGACTGCGGGTCAAATCTTAGG-ACGCAGTGGCATCCGA-AAAGCATACGAAACTGGCCGAGGCTCTATCACAATCCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAACTA-ATCG-AG-AAGATTGC-TGATCTT--GTAAGGGACAAG-AAGAT-AGA-GGGTAT-TACAGA--TCTG-CGTG--ATGAATC-AG-ACCGTA-C-AGG-AAT-G--AG-AGTT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTTT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TTTGC--AAA-CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9B23

------------------------------------------------GTTATCGTGTCCCGTGCTCTTCCGGATGTT-CGTGACGGTTT-AAAACCGG--TTCATAG-AC-GGA-TTTTGTAT-GCA-A-TGAA-TGA-T-TT-AGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCTCAGGATTTC-AACTA-CCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCGGCCATGCGTTATACAGAAGCACGAATGTCTAAAATCTCAATGGAGATTCTTCGCGACATCACAAAAGACACAATCGATTACCA-GGATAACTATGACGGGTCAGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGCA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTGGGAGAAATCATTGACGGTGTACTTGCTGTTAGTGAGAATCCGGACATTACAATTCCAGAGCTTATGGAAGTCATTCCAGGGCCTGATTTCCCGACCGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCAGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCGGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATTG-AG-AAAATTGC-TGATCTC--GTAAGGGACAAA-AAGAT-AGA-GGGTAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCGAAT-G-TTATCTT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGCATCAA-CCTGCTTGCG--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T5b2

------------------------------------------------------------------YTTCCGGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTGTAT-GCA-A-TGAA-CGA-T-TT-GGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCACGTATCG-TC-GGAG-AAGTGATC-GGGAAATACCA--C-CCA-CA--TGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGGGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCAATGGAGATTCTTCGAGACATCACAAAAGACACAATCGATTATCA-GGATAACTATGACGGATCAGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTTCCGAATCTGCTCGTAAACGGTGCTGCGGGAA-TTGCGGTAGGTATGGCAACAAACATTCCTCCACACCAGCTGGGAGAAGTTATTGACGGTGTACTTGCTGTCAGTGAAAATCCTGAAATCACAATACAGGATCTTATGGAGGTTATTCCAGGTCCTGACTTCCCGACTGCGGGTCAAATCTTAGG-ACGCAGTGGCATCCGA-AAAGCATACGAAACTGGCCGAGGCTCTATCACAATCCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAACTA-ATCG-AG-AAGATTGC-TGATCTT--GTAAGGGACAAG-AAGAT-AGA-GGGTAT-TACAGA--TCTG-CGTG--ATGAATC-AG-ACCGTA-C-AGG-AAT-G--AG-AGTT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTTT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TTTGC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTKGTTG--ACGGTCAGCCGAAGTWT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N16A11

-----------------------------------------------------------------------------------------------------------------------------GCA-A-TGAA-TGA-T-TT-AGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAG-TCTGCTCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-CCGTTATATGCTAGTT-GACGGCCACGGAAACTTCGG-TTCTGTTGACGGGGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATTTCGATGGAAATACTGCGAGACATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGATCGGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTAAACGGTGCTGCCGGCA-TTGCGGTTGGTATGGCAACAAACATTCCTCCGCACCAGCTCGGTGAAATTATTGACGGCGTACTTGCGGTCAGTGAGAATCCGGATATTACAATTCAAGAGCTGATGGAAGTCATCCCAGGTCCTGATTTCCCGACTGCTGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATATGAATCCGGCCGAGGCTCTATTACAATTCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCAGGTAAA-GAACG-AATTATCGT-TACCGAGATT-CCTTACC-AAGTAAACAA-GGCAAAATTA-ATCG-AA-AAAATCGC-TGATCTC--GTTAGAGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAATC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-GA-----------A-CAA-CCTATA--TAAACA-------------AA--CTGC----------------TCTTC--AAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S12c15

---------------------------------------------------------------------------GTT-CGAGACGGTTT-AAAACCGG--TTCATAG-AC-GGA-TTTTGTAT-GCA-A-TGAA-TGA-T-TT-AGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCTCAGGATTTC-AACTA-CCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCGGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCAATGGAGATTCTTCGCGACATCACAAAAGACACAATCGATTACCA-GGATAACTATGACGGGTCAGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGCA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTGGGAGAAATCATTGATGGTGTACTTGCTGTCAGTGAGAATCCGGACATTACCATTCCAGAGCTTATGGAAGTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCAGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCGGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATTG-AG-AAAATTGC-TGATCTC--GTAAGGGACAAA-AAGAT-AGA-GGGTAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TCATCTT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGCATCAA-CCTGCTTGCAC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N11B5

------------------------------------------------------------------CTTCCGGATGTT-CGTGACGGTTT-AAAACCGG--TTCATAG-AC-GGA-TTTTGTAT-GCA-A-TGAA-CGA-T-TT-GGG---CATG-AC---C--AGTGAC----AAGCC-TT---AT-AACAAA-TCCGCACGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--TGGTGATTCA-GCGG-TATATGAATCCCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGGGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCAATGGAGATCCTTCGAGACATCACAAAAGACACAATCGATTATCA-GGATAACTATGACGGATCAGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTAAACGGTGCTGCGGGAA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCATCAGCTGGGAGAAGTCATTGACGGTGTACTTGCTGTCAGTGAAAATCCTGAAATCACAATACAGGAGCTTATGGAGGTTATTCCAGGTCCTGACTTCCCGACTGCGGGTCAAATCTTAGG-ACGCAGTGGCATCCGA-AAAGCATACGAATCTGGCCGAGGCTCTATCACAATCCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAGATTGC-TGATCTC--GTAAGGGACAAG-AAGAT-AGA-GGGCAT-TACAGA--TCTG-CGTG--ATGAATC-AG-ACCGTA-C-AGG-AAT-G--AG-AGTT-GTCA-TGG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTTT-AA-----------A-CAA-TCTATA--CAAACA-------------AA--CTGC----------------TTTKS--MAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTGTGRYCGWCGSYSAGYMKAMSSG-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>97x5

------------------------------------------------GTTATTGTGTCCCGGGCTCTTCCGGATGTT-CGTGACGGTTT-ACAACCGG--TTCATAG-AC-GGA-TTTTGTAT-GCA-A-TGAA-CGA-T-TT-GGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCACGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--TGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGGGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCAATGGAGATCCTTCGAGACATCACAAAAGACACAATCGATTATCA-GGATAACTATGACGGATCAGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTAAACGGTGCTGCGGGAA-TTGCGGTAGGTATGGCAACAAACATTCCTCCACACCAGCTGGGAGAAGTTATTGACGGTGTACTTGCTGTCAGTGAAAATCCTGAAATCACAATACAGGATCTTATGGAGGTTATTCCAGGTCCTGACTTCCCGACTGCGGGTCAAATCTTAGG-ACGCAGTGGCATCCGA-AAAGCATACGAAACTGGCCGAGGCTCTATCACAATCCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAACTA-ATCG-AG-AAGATTGC-TGATCTT--GTAAGGGACAAG-AAGAT-AGA-GGGTAT-TACAGA--TCTG-CGTG--ATGAATC-AG-ACCGTA-C-AGG-AAT-G--AG-AGTT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTTT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TTTGC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCA--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M16B1

------------------------------------------------------------------YTTCCGGATGTT-CGTGACGGTTT-AAAACCGG--TTCATAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-AGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAG-TCTGCTCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-CCGTTATATGCTAGTT-GACGGCCACGGAAACTTCGG-TTCTGTTGACGGGGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATTTCGATGGAAATACTGCGAGACATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGATCGGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTAAACGGTGCTGCCGGCA-TTGCGGTTGGTATGGCAACAAACATTCCTCCGCACCAGCTCGGTGAAATTATTGACGGCGTACTTGCGGTCAGTGAGAATCCGGATATTACAATTCAAGAGCTGATGGAAGTCATCCCAGGTCCTGATTTCCCGACTGCTGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATATGAATCCGGCCGAGGCTCTATTACAATTCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCAGGTAAA-GAACG-AATTATCGT-TACCGAGATT-CCTTACC-AAGTAAACAA-GGCAAAATTA-ATCG-AA-AAAATCGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAATC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-GA-----------A-CAA-CCTATA--TAAACA-------------AA--CTGC----------------TCTTC--AAA-CATC----TTTTGGCATTAACCCTGCTTGCACTTGTTG--ACGGTCAGCCGAAAGT-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S12b1

-----------------------------------------------------------------------------------------------------------------------------GCA-A-TGAA-TGA-T-TT-AGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAG-TCTGCTCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA-CC-CCG-CA-CCGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-CCGTTATATGCTAGTT-GACGGCCACGGAAACTTCGGTTTCTGTTGACGGGGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATTTCGATGGAAATACTGCGAGACATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGATCGGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTAAACGGTGCTGCCGGCA-TTGCGGTTGGTATGGCAACAAACATTCCTCCGCACCAGCTCGGTGAAATTATTGACGGCGTACTTGCGGTCAGTGAGAATCCGGATATTACAATTCAAGAGCTGATGGAAGTCATCCCAGGTCCTGATTTCCCGACTGCTGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATATGAATCCGGCCGAGGCTCTATTACAATTCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCAGGTAAA-GAACG-AATTATCGT-TACCGAGATT-CCTTACC-AAGTAAACAA-GGCAAAATTA-ATCG-AA-AAAATCGC-TGATCTC--GTTAGGGACAAG-AAGATAAGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAATC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-GA-----------A-CAA-CCTATA--TAAACA-------------AA--CTGC----------------TCT-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S9B5

-----------------------------------------------------------------------------------------------------------------------------GCA-A-TGAA-TGA-T-TT-AGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAG-TCTGCTCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-CCGTTATATGCTAGTT-GACGGCCACGGAAACTTCGG-TTCTGTTGACGGGGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATTTCGATGGAAATACTGCGAGACATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGATCGGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTAAACGGTGCTGCCGGCA-TTGCGGTTGGTATGGCAACAAACATTCCTCCGCACCAGCTCGGTGAAATTATTGACGGCGTACTTGCGGTCAGTGAGAATCCGGATATTACAATTCAAGAGCTGATGGAAGTCATCCCAGGTCCTGATTTCCCGACTGCTGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATATGAATCCGGCCGAGGCTCTATTACAATTCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCAGGTAAA-GAACG-AATTATCGT-TACCGAGATT-CCTTACC-AAGTAAACAA-GGCAAAATTA-ATCG-AA-AAAATCGC-TGATCTC--GTTAGGGACAAG-AAGATAAGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAATC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-GA-----------A-CAA-CCTATA--TAAACA-------------AA--CTGC----------------TCTTC--AAA-C--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M12C10

------------------------------------------------------------------CTTCCGGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTGTAT-GCA-A-TGAA-CGA-T-TT-GGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCACGTATCG-TC-GGAG-AAGTGATC-GGGAAATACCA--C-CCG-CA--TGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGGGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCAATGGAGATCCTTCGAGACATCACAAAAGACACAATCGATTATCA-GGATAACTATGACGGATCAGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTAAACGGTGCTGCGGGAA-TCGCGGTAGGTATGGCAACAAACATTCCTCCGCATCAGCTGGGAGAAGTCATTGACGGTGTACTTGCTGTCAGTGAAAATCCTGAAATCACAATACAGGAGCTTATGGAGGTTATTCCAGGTCCTGACTTCCCGACTGCGGGTCAAATCTTAGG-ACGCAGTGGCATCCGA-AAAGCATACGAATCTGGCCGAGGCTCTATCACAATCCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCAGGTAAA-GAAAG-AATTATTGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAGATTGC-TGATCTC--GTAAGGGACAAG-AAGAT-AGA-GGGTAT-TACAGA--TCTG-CGTG--ATGAATC-AG-ACCGTA-C-AGG-AAT-G--AG-AGTT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTTT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TTTGC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTKGTTG--ACGGTCRCCSARWRT--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N1B1

------------------------------------------------------------------YTTCCGGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTGTAT-GCA-A-TGAA-CGA-T-TT-GGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCACGTATCG-TC-GGAG-AAGTGATC-GGGAAATACCA--C-CCA-CA--TGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGGGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCAATGGAGATTCTTCGAGACATCACAAAAGACACAATCGATTATCA-GGATAACTATGACGGATCAGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTTCCGAATCTGCTCGTAAACGGTGCTGCGGGAA-TTGCGGTAGGTATGGCAACAAACATTCCTCCACACCAGCTGGGAGAAGTTATTGACGGTGTACTTGCTGTCAGTGAAAATCCTGAAATCACAATACAGGATCTTATGGAGGTTATTCCAGGTCCTGACTTCCCGACTGCGGGTCAAATCTTAGG-ACGCAGTGGCATCCGA-AAAGCATACGAAACTGGCCGAGGCTCTATCACAATCCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAACTA-ATCG-AG-AAGATTGC-TGATCTT--GTAAGGGACAAG-AAGAT-AGA-GGGTAT-TACAGA--TCTG-CGTG--ATGAATC-AG-ACCGTA-C-AGG-AAT-G--AG-AGTT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTTT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TTTGC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTKGTTG--ACGGTCAGCCGAAGTWT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T14B1

------------------------------------------------------------------CTTCCGGATGTT-CGTGACGGTTT-AAAACCGG--TTCATAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-AGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAG-TCTGCTCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-CCGTTATATGCTAGTT-GACGGCCACGGAAACTTCGG-TTCTGTTGACGGGGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATTTCGATGGAAATACTGCGAGACATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGATCGGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTAAACGGTGCTGCCGGCA-TTGCGGTTGGTATGGCAACAAACATTCCTCCGCACCAGCTCGGTGAAATTATTGACGGCGTACTTGCGGTCAGTGAGAATCCGGATATTACAATTCAAGAGCTGATGGAAGTCATCCCAGGTCCTGATTTCCCGACTGCTGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATATGAATCCGGCCGAGGCTCTATTACAATTCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCAGGTAAA-GAACG-AATTATCGT-TACCGAGATT-CCTTACC-AAGTAAACAA-GGCAAAATTA-ATCG-AA-AAAATCGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAATC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-GA-----------A-CAA-CCTATA--TAAACA-------------AA--CTGC----------------TCTTC--AAA-CATC----TTTTGGCATTAA-CCTGCTTGCACTTGKTG--ACGGTC-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9B9

------------------------------------------------GTTATTGTGTCTCGTGCTCTTCCGGATGTT-CGTGACGGGTT-AAAACCGG--TTCACAG-AC-GGA-TTTTGTAT-GCC-A-TGAA-CGA-T-TT-GGG---CATG-AC---G--AGCGAC----AAGCC-TT---AT-AAAAAA-TCCGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGACTCA-GCGG-TATACGAAT-CCATGGTCAGAATGGCTCAGGACTTC-AACTA-CCGTTATATGCTTGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGCGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACGATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTTGTAAACGGCGCTGCTGGTA-TTGCGGTAGGTATGGCGACAAACATCCCTCCGCACCAGCTTGGAGAAATCATTGATGGCGTACTTGCGGTCAGTGAGAGCCCGGACATTACAATTCAGGAGCTGATGGAGGTCATTCCAGGGCCTGACTTCCCGACTGCGGGCCAAATTCTGGG-ACGCAGCGGTATTCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATTCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCAGGCAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATTG-AG-AAAATTGC-TGATCTT--GTTAGGGATAAG-AAGAT-AGA-GGGCAT-CACAGA--TTTG-CGTG--ATGAATC-AG-ACCGTA-C-AGG-CAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-GA-----------A-CAA-TCTTTA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCA--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S10c10

------------------------------------------------GTTATTGTGTCCCGTGCTCTTCCAGATGTA-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTGTAT-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-AT---AT-AAAAAA-TCCGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-CCGTTACATGCTCGTT-GACGGTCACGGGAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGATGGGTCAGAAAGAGAACCCGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATCCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCTGAGCTGATGGAAGTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATTACGATTCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-TAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCG--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S10c6M

-------------------------------------------------------------------------ATGTA-CGTGACGGTTT-AAAACCGG--TTCATAG-ACGGGA-TTTTGTAT-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-AT---AT-AAAAAA-TCCGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-CCGTTACATGCTCGTT-GACGGTCACGGGAACTTCGG-TTCTGTTGATGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGATGGGTCAGAAAGAGAACCCGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATCCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCTGAGCTGATGGAAGTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATTACGATTCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CTTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCGCTKGTTG--ACGGTCAGCCAAAGTTTTAATCTAAGCATG-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S4B4

------------------------------------------------GTTATCGTATCCCGGGCGCTTCCGGATGTG-CGTGACGGTCT-GAAGCCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-AGG---CATG-AC---C--AGTGAC----AAGCC-AT---AT-AAAAAA-TCTGCCCGTATCG-TC-GGTG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--CGGTGATTCA-GCGG-TTTACGAAT-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-CCGCTACATGCTTGTT-GACGGACACGGCAACTTCGG-TTCGGTAGACGGCGACTCAGCGGCTGCGATGCGTTATACAGAAGCGAGAATGTCAAAAATCGCAATGGAAATTCTGCGTGACATTACGAAAGACACGATTGACTATCA-AGACAACTATGACGGTTCAGAAAGAGAACCAGCCGTCATGCC-TTCAAGATTTCCGAATCTGCTCGTGAACGGGGCTGCCGGTA-TTGCGGTCGGAATGGCGACAAACATTCCTCCGCATCAGCTTGGGGAAGTCATTGACGGCGTGCTTGCCGTAAGTGAAAATCCAGAGATTACAATCCAAGAGCTGATGGAATACATCCCGGGACCGGATTTCCCGACGGCCGGCCAGATTTTAGG-CCGGAGCGGCATCCGT-AAGGCATATGAATCCGGACGGGGATCCATTACGATCCGGGCTAAGGCTGAAAT-CGAACAGACATCATCAGGAAAA-GAAAG-AATTATTGT-CACGGAACTT-CCTTATC-AGGTGAACAA-GGCGAGATTA-ATTG-AA-AAAATCGC-AGATCTT--GTCCGGGACAAA-AAAAT-CGA-AGGAAT-TACCGA--TCTG-CGTG--ACGAATC-CG-ACCGTA-A-CGG-AAT-G--AG-AGTC-GTCA-TTG-AGCTC-CGCC-GTGACG-CCAAT-GCTCAC-G-TCATTTT-GA-----------A-TAA-CCTGTA--CAAACA-------------AA--CGGC----------------TCTGC--AGA-CGTC----TTTCGGAATCAA-CCTGCTGGCG--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S3B5

------------------------------------------------GTTATTGTGTCCCGTGCTCTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAATATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATAG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTT-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCA--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>97x4

-----------------------------------------------------------------------------------------------------------------------------GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-CCGTTACATGCTTGTT-GACGGTCACGGGAACTTCGGTTTCTGTTGACGGAGACTCAGCGGCTGCTATGCGTTATACAGAAGCAAGAATGTCTAAGATTTCAATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCCGTTGTTATGCC-TTCAAGGTTTCCGAATCTGCTCGTGAACGGCGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGATGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCAGAGCTCATGGAAGTCATTCCAGGGCCTGATTTCCCGACTGCCGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CTTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N17A11

---------------------------------------------------------------------------------------------AACCGG--TTCATAG-AC-GGA-TTTTGTAT-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-CCGTTACATGCTTGTT-GACGGTCACGGGAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCTATGCGTTATACAGAAGCAAGAATGTCTAAGATTTCAATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCCGTTGTTATGCC-TTCAAGGTTTCCGAATCTGCTCGTGAACGGCGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGATGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCAGAGCTCATGGAAGTCATTCCAGGGCCTGATTTCCCGACTGCCGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CTTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-MGTC----TTTTGGTATCAA-CCTGCTTGCGCTGTG----ACGGCCGCCGAAGTATAC-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9B16

--------------------------------------------------------------------------------GTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTGGTTG--ACGGTCRGCCCAAAGTWTW----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S10c11M

----------------------------------------------------------------TCTTCCAGAATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATTG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTKGTTG--ACGGTCAGCC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T15C10

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCCTTT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGTTG--ACGGTCAGCC?AAAGTTTAAATCTAAGCAT-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S12c3

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGGTTTAAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTKGTTG--ACGGTCAGCCCAAAGT-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S13c3

-------------------------------------------------------------------------ATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-TACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGTTG--ACGGTCAGCCAAA?TTTTAATCTA??TCGG-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S8A2.2

-----------------------------------------------------------------------------------ACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGTTG--ACGGTCAGCCAAAGTWTAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9C5

-----------------------------------------------------------------------------------------------------------------------------GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGGTTTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AA-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S1b2

-----------------------------------------------------------------YTTTCCAGATGTTCCGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAAATCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGTTG--ACGGTCASC--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S18c9

----------------------------------------------------------------------------------GACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-TACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGTTG--ACSGTCAGCCCAAAGT-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N1C7

----------------------------------------------------------------------------TT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-TACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGTTG--ACGGTCAGCCCAAA---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M19B1

--------------------------------------------------------------------CCAGAATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAAATCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGKTG--ACGGTCAGCCAAARKWTWTAAATCTAAAGC-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N13B5

-----------------------------------------------------------------------------------------------------------------------------GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-TACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T7C10.F

----------------------------------------------------------------------------TT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTG--ACGGTCAGCC?AA??TTTAATCTAAC?CGG-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S18B2

------------------------------------------------------------------TTT----------CGTGATGGTTT-AAAGCCGG--TTCATAG-ACGGRA-TTTTGTAT-GCT-A-TGAA-TGATT-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9A9

-----------------------------------------------------------------------------T-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCA-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTG--ACGGTCAGCC?AAGTTTAATCTA?C?CGG------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T5b5

----------------------------------------------------------------TCTTCCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTG--ACSGTCAGCCGAAAGTWT-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M7C6

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTG--ACSGTCAGCCGAAAGT-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N15A9

------------------------------------------------------------------------------------------------CGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA----------------------------------------------------CCTAT---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>98x6

----------------------------------------------------------------------------TT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCA-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTG--ACSGTCAGCCGAAAGTTTAATCTAAGCATG-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N19A14

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TTGGGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N11B4

----------------------------------------------------------------------------TT-CGTGATGGTTT-GAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TATTGGTATCAA-CCTGCTGC----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S20C4

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTG---------------------GAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GA----AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-AT-----C---G-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--YAAACA-------------AA--CTGC----------------GCTAC--AAC----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M8B8

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGGTTTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S19C1

------------------------------------------------------------------TTTCG--------ATGGATGGTTT-WAAGCCGCG-TTCATAG-ACGGGAATTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---AATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCA-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAAGGATTTCAACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTYCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTMCC-AAGTAAATAA-GGCGAAATTA-ATCG-AGAAAATTTGC-TGATCTC-GTTAAGAGACAAAAAAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG-GATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATTCAGAC-GCGAATGCCAATGGCAAAT-GTTTATTCT-AA-----------A-CAA-CCTATA--CCAAMC-------------AAMCYKGC----------------GCTAY--MAA-MGYG---TYTTTGGTAWYMAACCTGCYTTGGCGCTTGTTGGACGKYCRCC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S14b2

------------------------------------------------------------------------------------------------CGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCA-CAC-CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGGTTTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-----------------------------------C--------------------C---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N15A7

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>106x3

----------------------------------------------------------------------------TT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---AATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S9B1

-----------------------------------------------------------------YTTCCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TTGGGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTG--ACGGTCAGCCGAAAGT-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S4C3

----------------------------------------------------------------------------TT-CGTGATGGGTTTAAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCA-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACC-------------AA-ACTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTTG-ACGGTCA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S7B3

-------------------------------------------------------------------YTYCMGATTT--CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---AATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CTTGCTTGCGCTTGKTG--ACGGTCASCCRAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N10B5

-----------------------------------------------------------------YTTTCCAGATGTTTCGTGATGGTTTAAAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TTGGGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA-CAAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC---YTTTGGGTATCAW-SCTG--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S13C1

------------------------------------------------GTTATCGTATCCCGGGCGCTTCCGGATGTG-CGTGACGGTCT-GAAGCCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-AGG---CATG-AC---C--AGTGAC----AAGCC-AT---AT-AAAAAA-TCTGCCCGTATCG-TC-GGTG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--CGGTGATTCA-GCGG-TTTACGAAT-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-CCGCTACATGCTTGTT-GACGGACACGGCAACTTCGG-TTCGGTAGACGGCGACTCAGCGGCTGCGATGCGTTATACAGAAGCGAGAATGTCAAAAATCGCAATGGAAATTCTGCGTGACATTACGAAAGACACGATTGACTATCA-AGACAACTATGACGGTTCAGAAAGAGAACCAGCCGTCATGCC-TTCAAGATTTCCGAATCTGCTCGTGAACGGGGCTGCCGGTA-TTGCGGTCGGAATGGCGACAAACATTCCTCCGCATCAGCTTGGGGAAGTCATTGACGGCGTGCTTGCCGTAAGTGAAAATCCAGAGATTACAATCCAAGAGCTGATGGAATACATCCCGGGACCGGATTTCCCGACGGCCGGCCAGATTTTAGG-CCGGAGCGGCATCCGT-AAGGCATATGAATCCGGACGGGGATCCATTACGATCCGGGCTAAGGCTGAAAT-CGAACAGACATCATCAGGAAAA-GAAAG-AATTATTGT-CACGGAACTT-CCTTATC-AGGTGAACAA-GGCGAGATTA-ATTG-AA-AAAATCGC-AGATCTT--GTCCGGGACAAA-AAAAT-CGA-AGGAAT-TACCGA--TCTG-CGTG--ACGAATC-CG-ACCGTA-A-CGG-AAT-G--AG-AGTC-GTCA-TTG-AGCTC-CGCC-GTGACG-CCAAT-GCTCAC-G-TCATTTT-GA-----------A-TAA-CCTGTA--CAAACA-------------AA--CGGC----------------TCTGC--AGA-CGTC----TTTCGGAATCAA-CCTGCTGGCG--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>96x1

------------------------------------------------GTTATTGTGTCCCGTGCTCTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAATATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATAG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTT-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCA--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S9B3

-----------------------------------------------------------------------------------------------------------------------------GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-CCGTTACATGCTTGTT-GACGGTCACGGGAACTTCGGTTTCTGTTGACGGAGACTCAGCGGCTGCTATGCGTTATACAGAAGCAAGAATGTCTAAGATTTCAATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCCGTTGTTATGCC-TTCAAGGTTTCCGAATCTGCTCGTGAACGGCGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGATGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCAGAGCTCATGGAAGTCATTCCAGGGCCTGATTTCCCGACTGCCGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CTTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N13C6

---------------------------------------------------------------------------------------------AACCGG--TTCATAG-AC-GGA-TTTTGTAT-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-CCGTTACATGCTTGTT-GACGGTCACGGGAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCTATGCGTTATACAGAAGCAAGAATGTCTAAGATTTCAATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCCGTTGTTATGCC-TTCAAGGTTTCCGAATCTGCTCGTGAACGGCGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGATGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCAGAGCTCATGGAAGTCATTCCAGGGCCTGATTTCCCGACTGCCGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CTTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-MGTC----TTTTGGTATCAA-CCTGCTTGCGCTGTG----ACGGCCGCCGAAGTATAC-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9B27

------------------------------------------------------------------------------------------------CGG--TTCATAG-AC-GGA-TTTTGTAT-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-CCGTTACATGCTTGTT-GACGGTCACGGGAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCTATGCGTTATACAGAAGCAAGAATGTCTAAGATTTCAATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCCGTTGTTATGCC-TTCAAGGTTTCCGAATCTGCTCGTGAACGGCGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGATGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCAGAGCTCATGGAAGTCATTCCAGGGCCTGATTTCCCGACTGCCGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAAAAAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CTT--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S20B1

------------------------------------------------------------------------------------------------CGG--TTCATAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-AGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAG-TCTGCTCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-CCGTTATATGCTAGTT-GACGGCCACGGAAACTTCGG-TTCTGTTGACGGGGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATTTCGATGGAAATACTGCGAGACATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGATCGGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTAAACGGTGCTGCCGGCA-TTGCGGTTGGTATGGCAACAAACATTCCTCCGCACCAGCTCGGTGAAATTATTGACGGCGTACTTGCGGTCAGTGAGAATCCGGATATTACAATTCAAGAGCTGATGGAAGTCATCCCAGGTCCTGATTTCCCGACTGCTGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATATGAATCCGGCCGAGGCTCTATTACAATTCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCAGGTAAA-GAACG-AATTATCGT-TACCGAGATT-CCTTACC-AAGTAAACAA-GGCAAAATTA-ATCG-AA-AAAATCGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAATC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-GA-----------A-CAA-CC-------------------------TA------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N10B3

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGSG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCAGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTTGKTG--ACGGACAGCCCAAAGTATGACTAAC??G???????TTT?TTG-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S16B2

------------------------------------------------------------------------------------------------CGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGATGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTG-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S10c2

------------------------------------------------------------------------------------------------CGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGGTTTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACCTGAAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A--------------------------------TA------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S16B3

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGGTTTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CTGC----------------TCTTC--AA-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N6B1

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGGTTTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCTAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GAGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S13c5M

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGGTTTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CAGC----------------TCTTC--A?-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S14c2M

------------------------------------------------------------------TTTCCGGACGTTAAGAGACGGGCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAAATCCGCGCGTATTG-TC-GGSG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCAGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTTGTTG--ACGGACAGC--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S16C1

------------------------------------------------------------------CTTCCGGATGTT-CGTGACGGTTT-AAAACCGG--TTCATAG-AC-GGA-TTTTGTAT-GCA-A-TGAA-CGA-T-TT-GGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCACGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--TGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGGGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCAATGGAGATCCTTCGAGACATCACAAAAGACACAATCGATTATCA-GGATAACTATGACGGATCAGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTTCCGAATCTGCTCGTAAACGGTGCTGCGGGAA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCATCAGCTGGGAGAAGTCATTGACGGTGTACTTGCTGTTAGTGAAAATCCTGAAATCACAATACAGGAGCTTATGGAGGTTATTCCAGGTCCTGACTTCCCGACTGCGGGTCAAATCTTAGG-ACGCAGTGGCATCCGA-AAAGCATACGAATCTGGCCGAGGCTCTATCACAATCCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCAGGTAAA-GAAAGAAATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAGATTGC-TGATCTC--GTAAGGGACAAG-AAGAT-AGA-GGGCAT-TACAGA--TCTG-CGTG--ATGAATC-AG-ACCGTA-C-AGG-AAT-G--AG-AGTT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTTT-AA-----------A-CAA-TCTATA--CAAACA-------------AA--CTGC----------------TTTGC--AAA-CATC----TTTTGGTATCAA-CCTGCT?GC?CT?GTTG--AC-GTCACCCAAG?TT?ATCAAC?CGGGGG-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S13C2M

------------------------------------------------------------------------------------------------CGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCAAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAAACCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGAGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCTGGTAAA-??M?T-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S17b2

-------------------------------------------------------------------TTYCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCA-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATCG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATCCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGATAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGACTGATCTTGGG-GAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGCTCCATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAATCTTTTTGGCGCTGGTTG--ACGGACAGCC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N19A1

----------------------------------------------------------------------------TT-CGTGACGGTTT-AAAACCGG--TTCATAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-AGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAG-TCTGCTCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-CCGTTATATGCTAGTT-GACGGCCACGGAAACTTCGG-TTCTGTTGACGGGGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATTTCGATGGAAATACTGCGAGACATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGATCGGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTAAACGGTGCTGCCGGCA-TTGCGGTTGGTATGGCAACAAACATTCCTCCGCACCAGCTCGGTGAAATTATTGACGGCGTACTTGCGGTCAGTGAGAATCCGGATATTACAATTCAAGAGCTGATGGAAGTCATCCCAGGTCCTGATTTCCCGACTGCTGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATATGAATCCGGCCGAGGCTCTATTACAATTCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCAGGTAAA-GAACG-AATTATCGT-TACCGAGATT-CCTTACC-AAGTAAACAA-GGCAAAATTA-ATCG-AA-AAAATCGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAATC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-T-ATTCT-GA-----------A-CAA-CCTATA--TAAACA-------------AA--CTGC----------------TCTTC--AAA-CATC----TTTTGGCATTAACCCTGCTTGCACTTGTTG--ACGGTCAGCCGAAAGTTWTAATCTAAGCXG-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S4C10

------------------------------------------------------------------------------------------------CGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-----T-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG-AACTGAGAAAAGGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTG-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S4C8

------------------------------------------------------------------------------------------------CGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGXG-AAGTTATC-GGTAAGTACCA--C-CCT-CCACCGGTGATTCQ-GCTG-TATACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCATGGAAACTTCGGTTTCTGTTGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGTTCGGAAAAAGAGCCGGTTGTTATGCC-TGCGAGATTTCCGAACTTGCTTGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGTGTTTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAGATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGA-AAGGCCTATGAATCAGGCCGGGGATCAATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTAT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTA--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-C-CGG-AAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CCAAT-GCCAAT-G---------TA-----------A-----CTGTTA---------------------AA-----------------------------TAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T17B2

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGSR-AAGTTATC-GGTAAGTACCA--C-CCT-CA--CGGTGATTCT-GCTG-TTTACGAAG-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCATGGAAACTTCGG-TTCTGTTGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGTTCGGAAAAAGAGCCGGTTGTTATGCC-TGCGAGATTTCCGAACTTGCTTGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGTGTTTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAGATCATTCCTGGACCCGACTTCCCTACAGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGA-AAGGCCTATGAAACAGGCCGGGGATCAATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTAT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTA--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-C-CGG-AAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCCAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTTGTTG--ACGGCCAGCCGAAAKTA------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N15A2

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--CCCCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CMARCA-------------GA--CCGC----------------TCTTC--AA-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T6c7

-------------------------------------------------------------------------------------------------------------AA-----TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAAATCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCAAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAAACCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGAGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCTGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCG-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T5b3

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCACCC-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGGTTTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCTAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAAACCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG-AACTGAGAAAAGGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AA-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9B24

------------------------------------------------------------------------------------------------CGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA---------C----------------------TTGT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S11c10

------------------------------------------------------------------------------------------------CGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA---------C----------------------TTGT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S20c8

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTTATGCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-KGSR-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCAGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-C-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTTGKTG--ACGGACAGCCGAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S14c4

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGGCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-TGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTAGGYYKGCG-AAGTTATC-GGTAAGTACCA--CCCCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCTAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGGTAATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAAAGGCAAGGCTGAATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAGAAAAAT-CGACGGCTAT-TACGGTATCTTC-CGCG-AATGAATC-AGAACCCCGAACCGG-TATGGCGCATCGTT-CCCA-TTG--AACT-GGAT-ARWAAG--GGAT-GCAAATGGCTAATGGT-AC---TGKTGAAAA-TAA-CTTGTA--CAAAGCGSA----------RA--CCGC----------------TYTTC--AAA-CAWC--AATTTCGGCATTAA-TCTTTTA-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M11C7

------------------------------------------------------------------------------------------------CGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGATGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG-AAACTGAGAAAGGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA--------------------------------CT--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S8B5

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGACC-TT-GGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGGTTTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AA-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S15c9

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAATTATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAATTCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGGTTAA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CAGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTKGTTG--ACGGACAGCCGAAAGTATTG---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S11b4

--------------------------------------------------------------CTTYTTCCGGAACGTTAAGAGACGGTYTGAAGCCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAATTCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG-AACTGAGAAAGGGGATG-CAAAT-GCTAAT-G-TACTGGTTAA-----------A-TAA-CTTGTA--CAAGCA-------------RA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTTGTTG--ACGGACAGCCGAAA---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S17B4

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGGTTTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG-AAACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--A------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S17B5

------------------------------------------------------------------------------------------------CGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAATTCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCACCC-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGGTTTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCTAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAAACCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG-AAACTGAGAA---AAGG---GAT-GCAAAT-G-CT------AA-----------T--------GTA--CTGTTA-------------AA-----------------------------TAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M20B1

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCT-CAC-CGGTGATTCT-GCTG-TTTACGAAG-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCATGGAAACTTCGG-TTCTGTTGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGTTCGGAAAAAGAGCCGGTTGTTATGCC-TGCGAGATTTCCGAACTTGCTTGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGTGTTTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAGATCATTCCTGGACCCGACTTCCCTACAGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGA-AAGGCCTATGAAACAGGCCGGGGATCAATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTAT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTA--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-AAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCCAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-C--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N12A6

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---ATTAAAAAAATCCGCGCGTATTG-TCGGGCG-AAGTTATC-GGTAAGTACCA--CCCCT-CA--CGGTGATTCT-GCTG-TTTACGAAG-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCATGGAAACTTCGG-TTCTGTTGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGTTCGGAAAAAGAGCCGGTTGTTATGCC-TGCGAGATTTCCGAACTTGCTTGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGTGTTTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAGATCATTCCTGGACCCGACTTCCCTACAGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGA-AAGGCCTATGAAACAGGCCGGGGATCAATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTAT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTA-ATCG-AA-AAAATCGC-CGATCTA--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-AAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCCAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCT-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S15C2

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCGCA-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-KGCG-AAGTTATC-GGTAAGTACCA--C-CCT-CA--CGGTGATTCT-GCTG-TTTACGAAG-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCATGGAAACTTCGG-TTCTGTTGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGTTCGGAAAAAGAGCCGGTTGTTATGCC-TGCGAGATTTCCGAACTTGCTTGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGTGTTTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAGATCATTCCTGGACCCGACTTCCCTACAGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGA-AAGGCCTATGAAACAGGCCGGGGATCAATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTAT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTA--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-AAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAATGCCAAAT-G-TACTGTT-AA-----------AATAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTTGKTG--ACGGCCAGCCGAAAGTATTGRGCTTGAAGCATGCTG?A?nAATTTTC?-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S8C1II

------------------------------------------------------------------------GA?GTA-AGAGACGGTYT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAATTCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCT-CA--CGGTGATTCT-GCTG-TTTACGAAG-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCATGGAAACTTCGG-TTCTGTTGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGTTCGGAAAAAGAGCCGGTTGTTATGCC-TGCGAGATTTCCGAACTTGCTTGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGTGTTTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAGATCATTCCTGGACCCGACTTCCCTACAGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGA-AAGGCCTATGAAACAGGCCGGGGATCAATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTAT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTA--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-AAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCCAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------RA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAW-YYTTTTGSC---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N14A1

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCTTCA--CGGTGATTCT-GCTG-TTTACGAAG-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCATGGAAACTTCGG-TTCTGTTGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGTTCGGAAAAAGAGCCGGTTGTTATGCC-TGCGAGATTTCCGAACTTGCTTGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGTGTTTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAGATCATTCCTGGACCCGACTTCCCTACAGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGA-AAGGCCTATGAAACAGGCCGGGGATCAATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTAT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTA--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-AAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCCAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-C--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N11C7

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCT-CAC-CGGTGATTCT-GCTG-TTTACGAAG-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCATGGAAACTTCGG-TTCTGTTGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGTTCGGAAAAAGAGCCGGTTGTTATGCC-TGCGAGATTTCCGAACTTGCTTGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGTGTTTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAGATCATTCCTGGACCCGACTTCCCTACAGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGA-AAGGCCTATGAAACAGGCCGGGGATCAATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTAT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTA--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-AAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCCAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-C--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S5B2

------------------------------------------------------------------------------------------------CGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCT-CAC-CGGTGATTCT-GCTG-TTTACGAAG-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCATGGAAACTTCGGTTTCTGTTGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGTTCGGAAAAAGAGCCGGTTGTTATGCC-TGCGAGATTTCCGAACTTGCTTGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGTGTTTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAGATCATTCCTGGACCCGACTTCCCTACAGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGA-AAGGCCTATGAAACAGGCCGGGGATCAATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTAT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTA--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-AAT-G--CG-CATC-GTCA-TTG--AACTGAGAA---AAGG---GAT-GCAAAT-G-----------------------CCAA---TGTA--CTGTTA-------------AA-----------------------------TAA-CT-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S15B3

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-ACCGCGCGTATTG-TC?GGCG-AAGTTATC-GGTAAGTACCA--C-CCT-CA--CGGTGATTCT-GCTG-TTTACGAAG-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCATGGAAACTTCGG-TTCTGTTGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGTTCGGAAAAAGAGCCGGTTGTTATGCC-TGCGAGATTTCCGAACTTGCTTGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGTGTTTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAGATCATTCCTGGACCCGACTTCCCTACAGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGA-AAGGCCTATGAAACAGGCCGGGGATCAATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTAT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTA--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-AAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCCAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTTGTTG--ACGGCCAGCC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S18B1

-----------------------------------------------------------------CTTCCCGGACGTT-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGKGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTKGTTG--ACGRACMGCCRAARKTRTYSR--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>98x7b

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGGTTTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCACAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG-AAACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S10c1

-----------------------------------------------------------------------------------------------------------------------------GCA-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAATTCCGCGCGTATCG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATCCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGACTGATCTTGGG-GAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGCTCCATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AA--CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S20B5

------------------------------------------------------------------YTTYCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCA-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAATTCCGCGCGTATCG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATCCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGATAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGACTGATCTTGGG-GAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGCTCCATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC-CAAA-CATC---ATTCGGGCATTAA-TCTTTTGGCGCTTGKTG--ACGGACAGCC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S6C1

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGTTG--ACSGTCAGCCMAAAGTTTTAATCTAAG?T?-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S10c14

-----------------------------------------------------------------YTTCCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TTGGGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTG--ACGGTCAGCCGAAAGT-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S14c2F

----------------------------------------------------------------------------TT-CGTGATGGGTTTAAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCA-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACC-------------AA-ACTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTTG-ACGGTCA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T18C10

-------------------------------------------------------------------YTYCMGATTT--CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---AATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CTTGCTTGCGCTTGKTG--ACGGTCASCCRAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T20C8

-----------------------------------------------------------------YTTTCCAGATGTTTCGTGATGGTTTAAAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TTGGGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATAC-AAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC---YTTTGGGTATCAW-SCTG--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S8C3

----------------------------------------------------------------------------TT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTG--ACGKY------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S17C4

------------------------------------------------------------------------------------------------CGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA----------------------------------------------------CCTAT---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9B19

----------------------------------------------------------------------------TT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAACCCTGCTTGCGCTTGTTG--ACSGTCAGCCGAAAGT-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N5B3

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TTGGGG---GATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAACCCTGCTTGCGCT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S15B5

------------------------------------------------------------------------------------------------CGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA----------------------------------------------------CCTAT---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T5c10\_

-------------------------------------------------------------------------ATGTA-CGTGACGGTTT-AAAACCGG--TTCATAG-AC-GGA-TTTTGTAT-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-AT---AT-AAAAAA-TCCGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--T-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-CCGTTACATGCTCGTT-GACGGTCACGGGAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGATGGGTCAGAAAGAGAACCCGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATCCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCTGAGCTGATGGAAGTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGTAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATTACGATTCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTG--ACGGTCAGCCAAAAGTWTTAATCTAAGCATGCGGGGG??TTTTCC?-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S14b4

------------------------------------------------------------------TTT----------CGTGACGGTTT-AAAACCGG--TTCATAG-ACGGRA-TTTTGTAT-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCCCTT---AT-AAAAAA-TCGGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-CCGTTACATGCTCGTT-GACGGTCACGGGAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATTTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCCGTTGTAATGCC-TTCAAGATTTCCGAATCTGCTTGTAAACGGCGCTGCCGGCA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCATCAGCTTGGAGAAATCATTGACGGTGTACTAGCTGTCAGTGAGAATCCGGACATGACAATCTCAGAGCTTATGGAAGTTATTCCAGGGCCAGATTTCCCGACTGCCGGGCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAAACGGGCCGAGGCTCTATTACGATTCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AGGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAA-AAGAT-AGA-GGGCAT-TACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AGATC-AGAC-GCGATG-GCAAT-GCGAAT-G-TTATTTT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CATC----TTTTGGTATCAA-TCTGCTTGCGCTTGTTG--ACGGCCAGCCGAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S11c4

------------------------------------------------------------------CTTCCGGATGTCCGTGAACGGTTTAAAACCCAG--TTCACCG-AC-GGA-TTTTATAC-GCG-A-TGAA-TGA-T-CT-GGG---AATG-AC---C--AGTGAC----AAGGC-GT---AT-AAAAAA-TCTGCGCGTATTG-TC-GGAG-AAGTTATC-GGTAAGTACCA--C-CCT-CA--CGGGGATTCC-GCAG-TATATGAAT-CCATGGTCAGGATGGCGCAGGACTTC-AACTA-CCGTTATATGCTTGTC-GACGGTCATGGAAACTTTGG-TTCTGTAGACGGAGACTCAGCCGCTGCGATGCGGTACACCGAAGCCAGAATGTCTAAGATCGCCATGGAAATTCTGCGAGACATTACAAAAGACACGATTGATTATCA-AGATAACTATGATGGTTCAGAGAGAGAACCTGTTGTCATGCC-GTCAAGATTCCCAAACCTGCTTGTAAATGGAGCAGCCGGTA-TTGCAGTCGGAATGGCTACAAATATACCGCCGCACCAGCTTGGAGAAATTATTGACGGAGTGCTTGCCGTAAGCGAGAACAAGGACATAACAATCCAAGAGCTGATGGAATTCATTCCTGGGCCGGATTTCCCGACTGCCGGACAAATTTTAGG-CAGAAGCGGAATCCGC-AAGGCATATGAATCCGGAAGAGGTTCTATTACGATTCGGGCAAAAGCAGAAAT-CGAAGAAACTCCATCAGGGAAA-GAAAG-AATTTTAGT-AACAGAACTC-CCTTATC-AGGTGAATAA-AGCGCGTCTA-ATTG-AG-AAGATTGC-TGATCTT--GTCAGGGATAAG-AAAAT-TGA-AGGAAT-AACTGA--TTTG-CGTG--ATGAATC-TG-ACCGTA-A-CGG-TAT-G--CG-GATT-GTCA-TTG-AAATC-AGAC-GAGATG-CCAAT-GCGCAT-G-TTATCCT-GA-----------A-CAA-TCTGTA--CAAACC-------------AAACCGGC----------------CCTGC--AAA-CTTC----CTTCGGGATTAACCCTGCTGGCGCTTGTGG--ACGGCGAGCCRA-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T8c4

------------------------------------------------------------------CTTCCGGATGTC-CGTGACGGTTTTAAAACCAG--TTCACAG-AC-GGA-TTTTGTAC-GCG-A-TGAA-TGA-T-CTGGGG---AATG-AC---C--AGTGAC----AAGGC-GT---AT-AAAAAA-TCTGCGCGTATTG-TC-GGAG-AAGTTATC-GGTAAGTACCA--C-CCT-CA--CGGGGATTCC-GCAG-TATATGAAT-CCATGGTCAGGATGGCGCAGGACTTC-AACTA-CCGTTATATGCTTGTC-GACGGTCATGGAAACTTTGG-TTCTGTAGACGGAGACTCAGCCGCTGCGATGCGGTACACCGAAGCCAGAATGTCTAAGATCGCCATGGAAATTCTGCGAGACATTACAAAAGACACGATTGATTATCA-AGATAACTATGATGGTTCAGAGAGAGAACCTGTTGTCATGCC-GTCAAGATTCCCAAACCTGCTTGTAAATGGAGCAGCCGGTA-TTGCAGTCGGAATGGCTACAAATATACCGCCGCACCAGCTTGGAGAAATTATTGACGGAGTGCTTGCCGTAAGCGAGAACAAGGACATAACAATCCAAGAGCTGATGGAATTCATTCCTGGGCCGGATTTCCCGACTGCCGGACAAATTTTAGG-CAGAAGCGGAATCCGC-AAGGCATATGAATCCGGAAGAGGTTCTATTACGATTCGGGCAAAAGCAGAAAT-CGAAGAAACTCCATCAGGGAAA-GAAAG-AATTTTAGT-AACAGAACTC-CCTTATC-AGGTGAATAA-AGCGCGTCTA-ATTG-AG-AAGATTGC-TGATCTT--GTCAGGGATAAG-AAAAT-TGA-AGGAAT-AACTGA--TTTG-CGTG--ATGAATC-TG-ACCGTA-A-CGG-TAT-G--CG-GATT-GTCA-TTG-AAATC-AGAC-GAGATG-CCAAT-GCGCAT-G-TTATCCT-GA-----------A-CAA-TCTGTA--CAAACA-------------AA--CGGC----------------CCTGC--AAA-CTTC----CTTCGGGATTAA-CCTGCTGGCGCTTGTTG--ACGGCGAGCCGAAG---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N11B3I

------------------------------------------------------------------------------------------------CAG--TTCACAG-AC-GGA-TTTTATAC-GCG-A-TGAA-TGA-T-TT-AGG---CATG-AC---G--AGTGAC----AAGCC-GT---AT-AAAAAA-TCGGCTCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--T-CCT-CA--CGGTGATTCA-GCGG-TATATGAAT-CTATGGTCAGAATGGCGCAGGATTTC-AACTA-CCGTTATATGCTTGTC-GACGGTCATGGAAACTTTGG-TTCTGTAGACGGAGACTCAGCCGCTGCGATGCGTTACACCGAAGCCAGAATGTCTAAGATCGCCATGGAAATTCTGCGAGACATTACTAAAGACACGATTGATTATCA-AGATAACTATGACGGGTCAGAGAGAGAACCTGTTGTCATGCC-GTCTAGATTTCCAAACCTGCTTGTAAATGGAGCAGCCGGAA-TTGCAGTCGGAATGGCTACAAATATTCCGCCGCACCAGCTTGGAGAAATTATTGACGGAGTGCTTGCCGTAAGCGAGAACAAGGACATAACAATCCAAGAGCTGATGGAATTCATTCCTGGACCGGATTTCCCGACTGCCGGACAAATTTTAGG-CAGAAGCGGAATCCGC-AAGGCATATGAATCCGGAAGAGGTTCTATTACGATTCGGGCAAAAGCAGAAAT-TGAAGAAACTTCGTCAGGGAAA-GAAAG-AATTTTAGT-AACAGAACTC-CCTTATC-AGGTGAATAA-AGCGCGTCTA-ATTG-AG-AAGATTGC-TGATCTT--GTCAGGGATAAG-AAAAT-TGA-AGGAAT-AACTGA--TTTG-CGTG--ATGAATC-TG-ACCGTA-A-CGG-TAT-G--CG-GATT-GTCA-TTG-AAATC-AGAC-GAGATG-CCAAT-GCGCAT-G-TTATCCT-GA-----------A-CAA---------C----------------------CTGT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>97x8

-----------------------------------------------------------------CTTCCGGGATGTC-CGTGACGGTTTTAAAACCAG--TTCACAG-AC-GGA-TTTTGTAC-GCG-A-TGAA-TGA-T-CT-GGG---AATG-AC---C--AGTGAC----AAGGC-GT---AT-AAAAAA-TCTGCGCGTATTG-TC-GGAG-AAGTTATC-GGTAAGTACCA--C-CCT-CA--CGGGGATTCC-GCAG-TATATGAAT-CCATGGTCAGGATGGCGCAGGACTTC-AACTA-CCGTTATATGCTTGTC-GACGGTCATGGAAACTTTGG-TTCTGTAGACGGAGACTCAGCCGCTGCGATGCGGTACACCGAAGCCAGAATGTCTAAGATCGCCATGGAAATTCTGCGAGACATTACAAAAGACACGATTGATTATCA-AGATAACTATGATGGTTCAGAGAGAGAACCTGTTGTCATGCC-GTCAAGATTCCCAAACCTGCTTGTAAATGGAGCAGCCGGTA-TTGCAGTCGGAATGGCTACAAATATACCGCCGCACCAGCTTGGAGAAATTATTGACGGAGTGCTTGCCGTAAGCGAGAACAAGGACATAACAATCCAAGAGCTGATGGAATTCATTCCTGGGCCGGATTTCCCGACTGCCGGACAAATTTTAGG-CAGAAGCGGAATCCGC-AAGGCATATGAATCCGGAAGAGGTTCTATTACGATTCGGGCAAAAGCAGAAAT-CGAAGAAACTCCATCAGGGAAA-GAAAG-AATTTTAGT-AACAGAACTC-CCTTATC-AGGTGAATAA-AGCGCGTCTA-ATTG-AG-AAGATTGC-TGATCTT--GTCAGGGATAAG-AAAAT-TGA-AGGAAT-AACTGA--TTTG-CGTG--ATGAATC-TG-ACCGTA-A-CGG-TAT-G--CG-GATT-GTCA-TTG-AAATC-AGAC-GAGATG-CCAAT-GCGCAT-G-TTATCCT-GA-----------A-CAA-TCTGTA--CAAACA-------------AA--CGGC----------------CCTGC--AAA-CTTC----CTTCGGGATTAACCCTGCTGGCGCTKGTTG--ACGGCGAGCCGAAGGTAT-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S17C1F

------------------------------------------------------------------CTTCCGGATGTC-CGTGACGGTTTAAAACCCAG--TTCACCG-AC-GGA-TTTTATAC-GCG-A-TGAA-TGA-T-CT-GGG---AATG-AC---C--AGTGAC----AAGGC-GT---AT-AAAAAA-TCTGCGCGTATTG-TC-GGAG-AAGTTATC-GGTAAGTACCA--C-CCTCCA--CGGGGATTCC-GCAG-TATATGAAT-CCATGGTCAGGATGGCGCAGGACTTC-AACTA-CCGTTATATGCTTGTC-GACGGTCATGGAAACTTTGG-TTCTGTAGACGGAGACTCAGCCGCTGCGATGCGGTACACCGAAGCCAGAATGTCTAAGATCGCCATGGAAATTCTGCGAGACATTACAAAAGACACGATTGATTATCA-AGATAACTATGATGGTTCAGAGAGAGAACCTGTTGTCATGCC-GTCAAGATTCCCAAACCTGCTTGTAAATGGAGCAGCCGGTA-TTGCAGTCGGAATGGCTACAAATATACCGCCGCACCAGCTTGGAGAAATTATTGACGGAGTGCTTGCCGTAAGCGAGAACAAGGACATAACAATCCAAGAGCTGATGGAATTCATTCCTGGGCCGGATTTCCCGACTGCCGGACAAATTTTAGG-CAGAAGCGGAATCCGC-AAGGCATATGAATCCGGAAGAGGTTCTATTACGATTCGGGCAAAAGCAGAAAT-CGAAGAAACTCCATCAGGGAAA-GAAAG-AATTTTAGT-AACAGAACTC-CCTTATC-AGGTGAATAA-AGCGCGTCTA-ATTG-AG-AAGATTGC-TGATCTT--GTCAGGGATAAG-AAAAT-TGA-AGGAAT-AACTGA--TTTG-CGTG--ATGAATC-TG-ACCGTA-A-CGG-TAT-G--CG-GATT-GTCA-TTG-AAATC-AGAC-GAGATG-CCAAT-GCGCAT-G-TTATCCT-GA-----------A-CAA-TCTGTA--CAAACA-------------AA--CGGC----------------CCTGC--AAA-CTTC----CTTCGGGATTAACCCTGCTGGCGCTKGTTG--ACGGC?RCCCAA-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T15C14

------------------------------------------------------------------TTCCCGGATGTC-CGTGACGGTTTWAAACCCAG--TTCACAG-AC-GGA-TTTTGTAC-GCG-A-TGAA-TGA-T-CT-GGG---AATG-AC---C--AGTGAC----AAGGC-GT---AT-AAAAAA-TCTGCGCGTATTG-TC-GGAG-AAGTTATC-GGTAAGTACCA--C-CCTCCA--CGGGGATTCC-GCAG-TATATGAAT-CCATGGTCAGGATGGCGCAGGACTTC-AACTA-CCGTTATATGCTTGTC-GACGGTCATGGAAACTTTGG-TTCTGTAGACGGAGACTCAGCCGCTGCGATGCGGTACACCGAAGCCAGAATGTCTAAGATCGCCATGGAAATTCTGCGAGACATTACAAAAGACACGATTGATTATCA-AGATAACTATGATGGTTCAGAGAGAGAACCTGTTGTCATGCC-GTCAAGATTCCCAAACCTGCTTGTAAATGGAGCAGCCGGTA-TTGCAGTCGGAATGGCTACAAATATACCGCCGCACCAGCTTGGAGAAATTATTGACGGAGTGCTTGCCGTAAGCGAGAACAAGGACATAACAATCCAAGAGCTGATGGAATTCATTCCTGGGCCGGATTTCCCGACTGCCGGACAAATTTTAGG-CAGAAGCGGAATCCGC-AAGGCATATGAATCCGGAAGAGGTTCTATTACGATTCGGGCAAAAGCAGAAAT-CGAAGAAACTCCATCAGGGAAA-GAAAG-AATTTTAGT-AACAGAACTC-CCTTATC-AGGTGAATAA-AGCGCGTCTA-ATTG-AG-AAGATTGC-TGATCTT--GTCAGGGATAAG-AAAAT-TGA-AGGAAT-AACTGA--TTTG-CGTG--ATGAATC-TG-ACCGTA-A-CGG-TAT-G--CG-GATT-GTCA-TTG-AAATC-AGAC-GAGATG-CCAATGCGTCAT-G-TTATCCTGAA-----------A-CAA-TCTGTA--CAAMCC-------------AAA?CGGC----------------CCTGC--AAACCTTC----CTTCGGGATTAACCCTGCTGGCGCTTGTTG--ACGGCGAGCCAAAGT--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S12b4

-------------------------------------------------------------------TTCCGGATGTC-CGTGACGGTTT-AAAACCAG--TTCACCG-AC-GGA-TTTTATAC-GCG-A-TGAA-TGA-T-CT-GGG---AATG-AC---C--AGTGAC----AAGGC-GT---AT-AAAAAA-TCTGCGCGTATTG-TC-GGAG-AAGTTATC-GGTAAGTACCA--C-CCT-CA--CGGGGATTCC-GCAG-TATATGAAT-CCATGGTCAGGATGGCGCAGGACTTC-AACTA-CCGTTATATGCTTGTC-GACGGTCATGGAAACTTTGG-TTCTGTAGACGGAGACTCAGCCGCTGCGATGCGGTACACCGAAGCCAGAATGTCTAAGATCGCCATGGAAATTCTGCGAGACATTACAAAAGACACGATTGATTATCA-AGATAACTATGATGGTTCAGAGAGAGAACCTGTTGTCATGCC-GTCAAGATTCCCAAACCTGCTTGTAAATGGAGCAGCCGGTA-TTGCAGTCGGAATGGCTACAAATATACCGCCGCACCAGCTTGGAGAAATTATTGACGGAGTGCTTGCCGTAAGCGAGAACAAGGACATAACAATCCAAGAGCTGATGGAATTCATTCCTGGGCCGGATTTCCCGACTGCCGGACAAATTTTAGG-CAGAAGCGGAATCCGC-AAGGCATATGAATCCGGAAGAGGTTCTATTACGATTCGGGCAAAAGCAGAAAT-CGAAGAAACTCCATCAGGGAAA-GAAAG-AATTTTAGT-AACAGAACTC-CCTTATC-AGGTGAATAA-AGCGCGTCTA-ATTG-AG-AAGATTGC-TGATCTT--GTCAGGGATAAG-AAAAT-TGA-AGGAAT-AACTGA--TTTG-CGTG--ATGAATC-TG-ACCGTA-A-CGG-TAT-G--CG-GATT-GTCA-TTG-AAATC-AGAC-GAGATG-CCAAT-GCGCAT-G-TTATCCT-GA-----------A-CAA-TCTGTA--CAAACA-------------AA--CGGC----------------CCTGC--AAA-CTTC----CTTCGGGATTAA-CCTGCTGGCGCTTGTTG--ACGGCGASCCRARGTT-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N18A15

------------------------------------------------------------------CTTCCGGATGTC-CGTGACGGTTTTAAAACCAG--TTCACAG-AC-GGA-TTTTGTAC-GCG-A-TGAA-TGA-T-CT-GGG---AATG-AC---C--AGTGAC----AAGGC-GT---AT-AAAAAA-TCTGCGCGTATTG-TC-GGAG-AAGTTATC-GGTAAGTACCA--C-CCT-CA--CGGGGATTCC-GCAG-TATATGAAT-CCATGGTCAGGATGGCGCAGGACTTC-AACTA-CCGTTATATGCTTGTC-GACGGTCATGGAAACTTTGG-TTCTGTAGACGGAGACTCAGCCGCTGCGATGCGGTACACCGAAGCCAGAATGTCTAAGATCGCCATGGAAATTCTGCGAGACATTACAAAAGACACGATTGATTATCA-AGATAACTATGATGGTTCAGAGAGAGAACCTGTTGTCATGCC-GTCAAGATTCCCAAACCTGCTTGTAAATGGAGCAGCCGGTA-TTGCAGTCGGAATGGCTACAAATATACCGCCGCACCAGCTTGGAGAAATTATTGACGGAGTGCTTGCCGTAAGCGAGAACAAGGACATAACAATCCAAGAGCTGATGGAATTCATTCCTGGGCCGGATTTCCCGACTGCCGGACAAATTTTAGG-CAGAAGCGGAATCCGC-AAGGCATATGAATCCGGAAGAGGTTCTATTACGATTCGGGCAAAAGCAGAAAT-CGAAGAAACTCCATCAGGGAAA-GAAAG-AATTTTAGT-AACAGAACTC-CCTTATC-AGGTGAATAA-AGCGCGTCTA-ATTG-AG-AAGATTGC-TGATCTT--GTCAGGGATAAG-AAAAT-TGA-AGGAAT-AACTGA--TTTG-CGTG--ATGAATC-TG-ACCGTA-A-CGG-TAT-G--CG-GATT-GTCA-TTG-AAATC-AGAC-GAGATG-CCAAT-GCGCAT-G-TTATCCT-GA-----------A-CAA-TCTGTA--CAAACA-------------AA--CGGC----------------CCTGC--AAA-CTTC----CTTCGGGATTAA-CCTGCTGGCGCTTGTTG--ACGGCGAGCCGAAG---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T11B2

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCACCC-TCACCGCACGGTGATTCT-GCTG-TTTACGAAG-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCATGGAAACTTCGG-TTCTGTTGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGTTCGGAAAAAGAGCCGGTTGTTATGCC-TGCGAGATTTCCGAACTTGCTTGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGTGTTTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAGATCATTCCTGGACCCGACTTCCCTACAGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGA-AAGGCCTATGAAACAGGCCGGGGATCAATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTAT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTA--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-AAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCCAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M15C12

------------------------------------------------------------------CTTCCGGACGTA-ASAGACGGTCT-GAMGCCGG--TGCACMG-AA-RAA-TATTGTWT-GCG-A-TGAA-SGA-C-CT-TGG---GATG-CA---C--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTTATGCC-CGCGAGATTTCCAAACCTGCTTGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATTCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGAAATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGATTTCCCAACAGCAGGGCTGATCTTGGG-GAGAAGCGGCATCCGG-AAAGCCTATGAAACAGGCCGGGGATCCATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATAAT-TACGGAAATA-CCGTATC-AGGTGAATAA-AGCTAGGCTG-ATCG-AA-AAAATCGC-CGATCTA--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-CAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAC-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTTGKTG--ACGRMCAGCCGAARKTRKTGAGCTTGA?CA-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N17A8

---------------------------------------------TGCCAGGTTACTGG??AA?AACTTGAACAAGCA----GACCGCTCTTCA?ACAT--CATTCGGCAT-TAA-TCTTTTG--GCG-C-TTGT-TGA-C----GGC---CA---?CCGAA--AGTATT----GAGCT-TG---AA-GCAATG-CCTG-GAGCATTC-TT-GA---AAGTTATC-GGTAAGTACCA--C-CCT-CA--CGGTGATTCT-GCTG-TTTACGAAG-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCATGGAAACTTCGG-TTCTGTTGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGTTCGGAAAAAGAGCCGGTTGTTATGCC-TGCGAGATTTCCGAACTTGCTTGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGTGTTTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAGATCATTCCTGGACCCGACTTCCCTACAGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGA-AAGGCCTATGAAACAGGCCGGGGATCAATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTAT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTA--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGTA-C-AGG-AAT-G--CG-AATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCCAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTKGTTG--ACGGCCAGCCGAARKTRKTGAGCTTGAAGC-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S15c5

------------------------------------------------------------------CTTCCGGACGTT-AGAGACGGTCTGAAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGSG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTGGTTG--ACGRMCAGCCGAARKTRTTSMG-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9A23

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-TGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCACAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG-AAACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA-----C----------------A?T??------CAGC----T------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M15B3

-----------------------------------------------------------------TTCCCGGGACGTAAGAGAMCGGGTCTGAAGCCSGGTTGCACAGAAGRAWWTTKTRTTATGGCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGGC-CCGT-AT-AAGAAATTCCGCGCGTATTG-TC-GGCG-AAGTTATTCGGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTTTAA-----------A-TAA-CTTGTA--CAAGCA-------------RA--CAGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTTG----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M20C7

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--CGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCACAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGKTTAA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AA-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9A20

------------------------------------------------------------------YTTCCGGACGTT-AGAGACGGTTT-GAA?CCGG--TGCACAG-AA-GRA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGGG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--CGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTTAAACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCACAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-ARGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CAGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTTGKTG--ACGGACAGCCAAAGT--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9B25

------------------------------------------------------------------CGTTTAG------ARRRACGGTCT-GAARCCCGGGTGCACAG-AAGRAWTTATTGTATTGCG-A-TGAA-CGAAC-CT-TGG---GATGAAC---A--AGTGAT----AAGCC-GT---AT-AAGAAATTCCGCGCGTATTG-TC-GGCGGAAGTTATC-GGTAAGTACCA--CCCCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTTGTTG--ACGGACAGCCAAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S18c12

------------------------------------------------------------------CTTCCGGACGTT-AGAGACGGGTYTGAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC--AA--GGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGSG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTTTAACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTWCCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATTG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG-AAACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTTGKTG--ACSGACAGCCGAAAG--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S11c13

------------------------------------------------------------------------------------------------CGG--TGCACAG-AA-GAA-TATTGTAT-GCA-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAATTCCGCGCGTATCG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGGTTTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATCCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGATAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGACTGATCTTGGG-GAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGCTCCATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGCAAA-----T-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTT--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T14B2

------------------------------------------------------------------YTTCCGGATGTC-CGTGACGGGTTTAAAACCAG--TTCACAG-AC-GGA-TTTTGTAC-GCG-A-TGAA-TGA-T-CT-GGG---AATG-AC---C--AGTGAC----AAGGC-GT---AT-AAAAAA-TCTGCGCGTATTG-TC-GGAG-AAGTTATC-GGTAAGTACCA--C-CCT-CA--CGGGGATTCC-GCAG-TATATGAAT-CCATGGTCAGGATGGCGCAGGACTTC-AACTA-CCGTTATATGCTTGTC-GACGGTCATGGAAACTTTGG-TTCTGTAGACGGAGACTCAGCCGCTGCGATGCGGTACACCGAAGCCAGAATGTCTAAGATCGCCATGGAAATTCTGCGAGACATTACAAAAGACACGATTGATTATCA-AGATAACTATGATGGTTCAGAGAGAGAACCTGTTGTCATGCC-GTCAAGATTCCCAAACCTGCTTGTAAATGGAGCAGCCGGTA-TTGCAGTCGGAATGGCTACAAATATACCGCCGCACCAGCTTGGAGAAATTATTGACGGAGTGCTTGCCGTAAGCGAGAACAAGGACATAACAATCCAAGAGCTGATGGAATTCATTCCTGGGCCGGATTTCCCGACTGCCGGACAAATTTTAGG-CAGAAGCGGAATCCGC-AAGGCATATGAATCCGGAAGAGGTTCTATTACGATTCGGGCAAAAGCAGAAAT-CGAAGAAACTCCATCAGGGAAA-GAAAG-AATTTTAGT-AACAGAACTC-CCTTATC-AGGTGAATAA-AGCGCGTCTA-ATTG-AG-AAGATTGC-TGATCTT--GTCAGGGATAAG-AAAAT-TGA-AGGAAT-AACTGA--TTTG-CGTG--ATGAATC-TG-ACCGTA-A-CGG-TAT-G--CG-GATT-GTCA-TTG-AAATC-AGAC-GAGATG-CCAAT-GCGCAT-G-TTATCCT-GA-----------A-CAA-TCTGTA--CAAACA-------------AA--CGGC----------------CCTGC--AAA-CTTC----CTTCGGGATTAA-CCTGCTGGCGCTTGKTG--ACGGC------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N5B1

-----------------------------------------------------------------CTTCCCGGATGTC-CGTGACGGTTT-AAAACCAG--TTCACAG-AC-GGA-TTTTGTAC-GCG-A-TGAA-TGA-T-CT-GGG---AATG-AC---C--AGTGAC----AAGGC-GT---AT-AAAAAA-TCTGCGCGTATTG-TC-GGAG-AAGTTATC-GGTAAGTACCA--C-CCT-CA--CGGGGATTCC-GCAG-TATATGAAT-CCATGGTCAGGATGGCGCAGGACTTC-AACTA-CCGTTATATGCTTGTC-GACGGTCATGGAAACTTTGG-TTCTGTAGACGGAGACTCAGCCGCTGCGATGCGGTACACCGAAGCCAGAATGTCTAAGATCGCCATGGAAATTCTGCGAGACATTACAAAAGACACGATTGATTATCA-AGATAACTATGATGGTTCAGAGAGAGAACCTGTTGTCATGCC-GTCAAGATTCCCAAACCTGCTTGTAAATGGAGCAGCCGGTA-TTGCAGTCGGAATGGCTACAAATATACCGCCGCACCAGCTTGGAGAAATTATTGACGGAGTGCTTGCCGTAAGCGAGAACAAGGACATAACAATCCAAGAGCTGATGGAATTCATTCCTGGGCCGGATTTCCCGACTGCCGGACAAATTTTAGG-CAGAAGCGGAATCCGC-AAGGCATATGAATCCGGAAGAGGTTCTATTACGATTCGGGCAAAAGCAGAAAT-CGAAGAAACTCCATCAGGGAAA-GAAAG-AATTTTAGT-AACAGAACTC-CCTTATC-AGGTGAATAA-AGCGCGTCTA-ATTG-AG-AAGATTGC-TGATCTT--GTCAGGGATAAG-AAAAT-TGA-AGGAAT-AACTGA--TTTG-CGTG--ATGAATC-TG-ACCGTA-A-CGG-TAT-G--CG-GATT-GTCA-TTG-AAATC-AGAC-GAGATG-CCAAT-GCGCAT-G-TTATCCT-GA-----------A-CAA-TCTGTA--CAAACA-------------AA--CGGC----------------CCTGC--AAA-CTTC----CTTCGGGATTAACCCTGCTGGCGCTGGTTG--ACGGCGAGCCGAAGTTATA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S6B3

------------------------------------------------------------------CTTCCGGATGTC-CGTGACGGTTT-AAAACCAGT-TCCACAG-AC-GGA-TTTTGTAC-GCG-A-TGAA-TGA-T-CT-GGG---AATG-AC---C--AGTGAC----AAGGC-GT---AT-AAAAAA-TCTGCGCGTATTG-TC-GGAG-AAGTTATC-GGTAAGTACCA--C-CCT-CA--CGGGGATTCC-GCAG-TATATGAAT-CCATGGTCAGGATGGCGCAGGACTTC-AACTA-CCGTTATATGCTTGTC-GACGGTCATGGAAACTTTGG-TTCTGTAGACGGAGACTCAGCCGCTGCGATGCGGTACACCGAAGCCAGAATGTCTAAGATCGCCATGGAAATTCTGCGAGACATTACAAAAGACACGATTGATTATCA-AGATAACTATGATGGTTCAGAGAGAGAACCTGTTGTCATGCC-GTCAAGATTCCCAAACCTGCTTGTAAATGGAGCAGCCGGTA-TTGCAGTCGGAATGGCTACAAATATACCGCCGCACCAGCTTGGAGAAATTATTGACGGAGTGCTTGCCGTAAGCGAGAACAAGGACATAACAATCCAAGAGCTGATGGAATTCATTCCTGGGCCGGATTTCCCGACTGCCGGACAAATTTTAGG-CAGAAGCGGAATCCGC-AAGGCATATGAATCCGGAAGAGGTTCTATTACGATTCGGGCAAAAGCAGAAAT-CGAAGAAACTCCATCAGGGAAA-GAAAG-AATTTTAGT-AACAGAACTC-CCTTATC-AGGTGAATAA-AGCGCGTCTA-ATTG-AG-AAGATTGC-TGATCTT--GTCAGGGATAAGAAAAAT-TGA-AGGAAT-AACTGA--TTTG-CGTG--ATGAATC-TG-ACCGTA-A-CGG-TAT-G--CG-GATT-GTCA-TTG-AAATC-AGAC-GAGATG-CCAAT-GCGCAT-G-TTATCCT-GA-----------A-CAA-TCTGTA--CAAACA-------------AA--CGGC----------------CCTGC--AAA-CTTC---CCTTCGGGATTAA-CCTGCTGGCGCTTGT---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N13C7

------------------------------------------------------------------CTTCCGGATGTC-CGTGACGGTTT-AAAACCAG--TTCACAG-AC-GGA-TTTTGTAC-GCG-A-TGAA-TGA-T-CT-GGG---AATG-AC---C--AGTGAC---AAGGGC-GT---AT-AAAAAA-TCTGCGCGTATTG-TC-GGAG-AAGTTATC-GGTAAGTACCA--C-CCT-CA--CGGGGATTCC-GCAG-TATATGAAT-CCATGGTCAGGATGGCGCAGGACTTC-AACTA-CCGTTATATGCTTGTC-GACGGTCATGGAAACTTTGG-TTCTGTAGACGGAGACTCAGCCGCTGCGATGCGGTACACCGAAGCCAGAATGTCTAAGATCGCCATGGAAATTCTGCGAGACATTACAAAAGACACGATTGATTATCA-AGATAACTATGATGGTTCAGAGAGAGAACCTGTTGTCATGCC-GTCAAGATTCCCAAACCTGCTTGTAAATGGAGCAGCCGGTA-TTGCAGTCGGAATGGCTACAAATATACCGCCGCACCAGCTTGGAGAAATTATTGACGGAGTGCTTGCCGTAAGCGAGAACAAGGACATAACAATCCAAGAGCTGATGGAATTCATTCCTGGGCCGGATTTCCCGACTGCCGGACAAATTTTAGG-CAGAAGCGGAATCCGC-AAGGCATATGAATCCGGAAGAGGTTCTATTACGATTCGGGCAAAAGCAGAAAT-CGAAGAAACTCCATCAGGGAAA-GAAAG-AATTTTAGT-AACAGAACTC-CCTTATC-AGGTGAATAA-AGCGCGTCTA-ATTG-AG-AAGATTGC-TGATCTT--GTCAGGGATAAG-AAAAT-TGA-AGGAAT-AACTGA--TTTG-CGTG--ATGAATC-TG-ACCGTA-A-CGG-TAT-G--CG-GATT-GTCA-TTG-AAATC-AGAC-GAGATG-CCAAT-GCGCAT-G-TTATCCT-GA-----------A-CAA-TCTGTA--CAAACA-------------AM--CGGC----------------CCTGC--AAA-CTTY--CYTYCGGGGATTAA-CCTGCTGGCGCTTGKTG--ACG--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S4C9

------------------------------------------------------------------CTTCCGGATGTCCGTGAACGGTTT-AAAACCAG--TTCACAG-AC-GGA-TTTTGTAC-GCG-A-TGAA-TGA-T-CT-GGG---AATG-AC---C--AGTGAC----AAGGC-GT---AT-AAAAAA-TCTGCGCGTATTG-TC-GGAG-AAGTTATC-GGTAAGTACCA--C-CCT-CA--CGGGGATTCC-GCAG-TATATGAAT-CCATGGTCAGGATGGCGCAGGACTTC-AACTA-CCGTTATATGCTTGTC-GACGGTCATGGAAACTTTGG-TTCTGTAGACGGAGACTCAGCCGCTGCGATGCGGTACACCGAAGCCAGAATGTCTAAGATCGCCATGGAAATTCTGCGAGACATTACAAAAGACACGATTGATTATCA-AGATAACTATGATGGTTCAGAGAGAGAACCTGTTGTCATGCC-GTCAAGATTCCCAAACCTGCTTGTAAATGGAGCAGCCGGTA-TTGCAGTCGGAATGGCTACAAATATACCGCCGCACCAGCTTGGAGAAATTATTGACGGAGTGCTTGCCGTAAGCGAGAACAAGGACATAACAATCCAAGAGCTGATGGAATTCATTCCTGGGCCGGATTTCCCGACTGCCGGACAAATTTTAGG-CAGAAGCGGAATCCGC-AAGGCATATGAATCCGGAAGAGGTTCTATTACGATTCGGGCAAAAGCAGAAAT-CGAAGAAACTCCATCAGGGAAA-GAAAG-AATTTTAGT-AACAGAACTC-CCTTATC-AGGTGAATAA-AGCGCGTCTA-ATTG-AG-AAGATTGC-TGATCTT--GTCAGGGATAAG-AAAAT-TGA-AGGAAT-AACTGA--TTTG-CGTG--ATGAATC-TG-ACCGTA-A-CGG-TAT-G--CG-GATT-GTCA-TTG-AAATC-AGAC-GAGATG-CCAAT-GCGCAT-G-TTATCCT-GA-----------A-CAA-TCTGTA--CAAACA-------------AA--CGGC----------------CCTGC--AAA-CTTC----CTTCGGGATTAA-CCTGCTGGCGCTTGTTG--ACGGCGAGCCGAAGGT-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N1C6

------------------------------------------------------------------CTTCCGGATGTC-CGTGACGGTTTTAAAACCAG--TTCACAG-AC-GGA-TTTTGTAC-GCG-A-TGAA-TGA-T-CT-GGG---AATG-AC---C--AGTGAC----AAGGC-GT---AT-AAAAAA-TCTGCGCGTATTG-TC-GGAG-AAGTTATC-GGTAAGTACCA--C-CCT-CA--CGGGGATTCC-GCAG-TATATGAAT-CCATGGTCAGGATGGCGCAGGACTTC-AACTA-CCGTTATATGCTTGTC-GACGGTCATGGAAACTTTGG-TTCTGTAGACGGAGACTCAGCCGCTGCGATGCGGTACACCGAAGCCAGAATGTCTAAGATCGCCATGGAAATTCTGCGAGACATTACAAAAGACACGATTGATTATCA-AGATAACTATGATGGTTCAGAGAGAGAACCTGTTGTCATGCC-GTCAAGATTCCCAAACCTGCTTGTAAATGGAGCAGCCGGTA-TTGCAGTCGGAATGGCTACAAATATACCGCCGCACCAGCTTGGAGAAATTATTGACGGAGTGCTTGCCGTAAGCGAGAACAAGGACATAACAATCCAAGAGCTGATGGAATTCATTCCTGGGCCGGATTTCCCGACTGCCGGACAAATTTTAGG-CAGAAGCGGAATCCGC-AAGGCATATGAATCCGGAAGAGGTTCTATTACGATTCGGGCAAAAGCAGAAAT-CGAAGAAACTCCATCAGGGAAA-GAAAG-AATTTTAGT-AACAGAACTC-CCTTATC-AGGTGAATAA-AGCGCGTCTA-ATTG-AG-AAGATTGC-TGATCTT--GTCAGGGATAAG-AAAAT-TGA-AGGAAT-AACTGA--TTTG-CGTG--ATGAATC-TG-ACCGTA-A-CGG-TAT-G--CG-GATT-GTCA-TTGAAAATC-AGAC-GAGATG-CCAAT-GCGCAT-G-TTATCCT-GA-----------A-CAA-TCTGTA--CAAACA-------------AA--CGGC----------------CCTGC--AAA-CTTC----CTTCGGGATTAA-CCTGCTGGCGCTTGTTG--ACGGCGAGCCAA-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9C15

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAATTCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------RA--CTGC----------------TCTTC--AAA-C--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M19B5

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGGTTTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCAGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG-AAACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGKTTAA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AA-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S8C8

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGACC-TT-GGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGTTCAGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-----T-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-C--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T4c9

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGGCTGTAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCGCA-TGAA-CGACC-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-KGSR-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTTGTTG--ACGGACAGCCGAAAGTWTKKAGCT?AAGCAATGCTG?????TTTTTCCT----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M14C13

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAATTCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACCAAAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-A-CGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGGTTAA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAAATCTYTTTG-GCSCTTGGTGACGRACCASCCAAAKTRT-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N5A4

------------------------------------------------------------------CTTCCGGACGCTAAGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGSG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTAGCGCTTGTTG--ACGGACAGCCGAAAGTATTGAGCTTAAGCATGCGGGGG?TTTTTTT??TTGGGGG----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9A19

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGSG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCAAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAAACCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGAGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCTGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTKGTTG--ACGGACAGCCGAAAGTATTGAGCTTAAGCATGCTG?GAA?TTTTTTTTG----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9a21

------------------------------------------------------------------YTTCCGGATGTA-AGGGACGGTCTGAAAGCCGG--TGCATAG-AA-GAA-TATTGTAC-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAC----AAGCC-AT---AC-AAAAAA-TCGGCGCGGATCG-TC-GGCG-AAGTCATC-GGTAAATATCA--C-CCG-CA--TGGTGACTCT-GCCG-TTTATGAAG-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTATATGCTTGTT-CAAGGCCATGGAAACTTCGG-TTCTGTCGACGGCGACTCCGCTGCGGCCATGCGTTATACAGAAGCAAGAATGTCGAAAATATCCATGGAAATCCTGCGAGACATTAATAAAGATACGATCGATTATCA-GGACAACTATGACGGGTCTGAAAAAGAACCGGTTGTCATGCC-TGCCAGATTTCCAAACCTGCTGGTCAACGGAGCTGCCGGGA-TTGCGGTAGGTATGGCGACGAATATCCCGCCACATCAGCTTGGTGAGATTATTGACGGGGTTTTAGCCGTCAGTAAAAACCCTGAAATCACGCTTCCGGAGTTGATGGACATCATTCCGGGACCGGATTTCCCGACAGCAGGGCTGATCATGGG-CAGAAGCGGAATCCGC-AAAGCTTATGAAACAGGAAGAGGTTCGATCACGATTCGGGCAAAGGCTCAAAT-CGAAGAAACATCCTCCGGCAAA-CAGGT-CATCATTAT-TACGGAAATA-CCTTATC-AGGTGAATAA-AGCGAAACTG-ATCG-AA-AAAATCGC-CGATCTT--GTCCGCGATAAG-AAAAT-CGA-AGGGAT-AACAGA--TCTC-CGTG--ATGAATC-AG-ACCGAA-A-CGG-CAT-G--AG-GATC-GTCA-TCG--AGCTGAGAC-GAGACG-CAAAT-GCAAAT-G-TTCTGTT-AA-----------A-TAA-TTTGTA--CAAGCA-------------GA--CGGC----------------ACTTC--AAA-CATC----ATTTGGGATCAA-TCTTTTAGCGCTCGTCG--ATGGACAGCC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9A18

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGGTTTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCAAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAAACCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------AATAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M20B5

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAATTCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCTAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>103x8

------------------------------------------------------------------CTTCCGGACGATAAGAGACGGGCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCGCA-TGAA-CGA-C-CT-TGG---GATG-AC--AA--GGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGSG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCTAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GAGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTTGTTG--ACGGACAGCCGAAAGTWTTGAGCTTAAGCATGCG?GG??TTTTTTCT?T----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S4C5

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCAGAAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCTAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTAGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAGAAAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AGAACCGGAAC-CGG-TAT-G--CG-CATC-GTCA-TTG-AAACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TTCTGTT-AA-----------A-AAA-?TTGTA--CAAGCA-------------GA--CCGC----------------TCTTC---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S17c8

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGGCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTTATGCG-A-TGAA-TGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGSG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCTAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTAGCGCTGTG---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S18c13

-----------------------------------------------------------------CTTCCCGGACGTAAGGAGACGGTCTGAARGCCCGG-TGCACAG-AAAGAA-TATTGTAT-GCGCA-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---ATTAAAAAA-TCCGCGCGTATTG-TC-GGSG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCTAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTAGCGCTGGTTG--ACGGACAGCCGAAA---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N6B2

------------------------------------------------------------------------------------------------CGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAATTCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--CCCCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCTAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAAACCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTT--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S13c11

---------------------------------------------------------------------------------------TCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGGG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCTAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAAACCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTTGGTG--ACGGACAGCCGAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S16c8

---------------------------------------------------------------------------------AGACGGGCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-TGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCTAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AR-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------RA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTWRMSCYKTGTYG--ACGSACAA---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N2A4

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-G?A-TTTTATAC-GCA-AGTGAAGTGA-T-TT-GGG---CATGCAC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCGCTC-KKRR-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTKGTTG--ACG--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S18b3

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGGC--CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTTGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTT-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------AACAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGKTG--ACGGTCAGCCAAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>22a1

-----------------------------------------------------------------------------------------------------------------------------GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--CCCCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA---------TTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----T------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N16A9

--------------------------------------------------------------------------TTTT-CGTGATGGGTTTAAAGCCSGGTTTCATAG-ACSGRATTTTTGTAT-GCT-A-TGAATTGA-T-TTGGGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAATCCCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTTGGACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTG--ACGGTCAGCCGAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S11b5

---------------------------------------------------------------------------------TGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTGGTTG--ACGGTCRGCC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9C2

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTTAAAAACCGG--TTCACAG-AC-GGATTTTTATAC-GCA-A-TGAA-TGA-T-TT-GGGGC-CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATTG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGTTG--ACGGTCAGCCAAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9B20

-----------------------------------------------------------------------------------------------------------------------------GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGGTTTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAGAAAGAT-AGA-GGGCAT-TACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAATGGKTAAT-GTTTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCT-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S13c6

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCA-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGGTTTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-C--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T16B2 R

----------------------------------------------------------------------------TT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGATTTTTGTAT-GCT-A-TGAA-TGATT-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAACCGTC----TTTTGGTATCAA-CCTGCTTGCGCTGGTTG--ACGGTCAGCCGAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N15B2

------------------------------------------------------------------TTCCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGATTTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-TACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAMCA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGTTG--ACGGTCAGCCAAAAGT-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9C3

---------------------------------------------------------------------------------------TTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-AGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTKGTTG--ACGGT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>16A1

-----------------------------------------------------------------CTTCCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTG--ACGGTCAGCCGAAGTTTTAAATCTAAGCATGCGGGG???TTT?TCTTG?G---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S17c7

------------------------------------------------------------------------------------------------CGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--CCCCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGGTTTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCT--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>16B2

------------------------------------------------------------------TTT----------CGTGACGGTTTTAAAACCSGGTTTCMCAG-AC-GGA-TTTTATAC-GCA-A-TGAA-KGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCGCTC-KGRR-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGGGTAT-G--AG-AATTGGTCATTTG-AAATC-AGAC-GCGATGCCCAATGGGTAAT-G-TTATTCT-AA-----------AACAA-TCTGTAACCAAACA-------------AA--CTGG---------------CTCTACCAAAA-CATTCTYTTTTGGK?WYMAA-CCTGCTTGCACTTGGTTGACSGGTCARCCCAAAAAGTTWTAAAATCTAAGGCAATGG---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T12C1

------------------------------------------------------------------------------------------------CGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAATTCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGGTTTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCT--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M16B5

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCAACA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-C--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S7B5

------------------------------------------------------------------YTTCCAGATGTT-CGTGATGGTTTAAAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCA-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAACCCTGCTTGCGCTGGTTG--ACGKYCAGCCAAAGTWTTA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S8C12

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAATTCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-------------CAA-CCTATA--CAAAC?-------------AA--CTGC----------------GCTAC--AA?-CG-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N17A9

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAATTCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-C--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N2A1

------------------------------------------------------------------YTTCCAGATGTT-CGTGACGGTTTTAAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAACCCTGCTTGCACTTGTTG--ACGGTCAGCCAAAAGT-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N18A17

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAATTCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCA-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAAAAAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG-AATGAGTC-AG-ATCGTA-C-AGGTTAT-G--AGSAATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S13c7F

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAATTCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------M-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-C--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T14B3 F

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAATTCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGAGGGGMAT-CACAGA--TCTG-CGTG-AATGAGTC-AG-ATCGTA-CA?GG-TAT-G--AG-AATT-GTCATTTG-AAATCGAGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCYTAA-----------A-CAA-CCTATA--CRAACA-------------AA--CTGS--------------------Y---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S15B4

------------------------------------------------------------------------------------------------CGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAATTCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGGTTTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCT--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>21b5

----------------------------------------------------------------------------------------------------------AG-AC-GGA-TTTTGTAT-GCW-A-TGAA-CGA-T-TT-GGG---CATG-AC--CA--AGTGAC----MAGCC-TT---AT-AAAAAA-TCCGCACGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--TGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGGGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCAATGGAGATCCTTCGAGACATCACAAAAGACACAATCGATTATCA-GGATAACTATGACGGATCAGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTAAACGGTGCTGCGGGAA-TCGCGGTAGGTATGGCAACAAACATTCCTCCACACCAGCTGGGAGAAGTCATTGACGGTGTACTTGCTGTCAGTGAAAATCCTGAAATCACAATACAGGAGCTTATGGAGATTATTCCAGGTCCTGACTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGTGGCATCCGA-AAAGCATACGAATCTGGCCGAGGCTCTATCACAATCCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCAGGTAAA-GAAAG-AATTATTGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAGATTGC-TGATCTC--GTAAGGGACAAG-AAGAT-AGA-GGGCAT-TACAGA--TCTG-CGTG--ATGAATC-AGAACCGTA-C-AGGGAAT-G--AG-AGTT-GTCA-TTG-AAATCAAGAC-GCGATG-CCAAT-GCAAAT-G-TTATTTT-AA-----------A-CAA-TCTTTT-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9C19

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAATTCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTKGTTG--ACSGTCAGCC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S8B4

-----------------------------------------------------------------------------------------------------------------------------GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGGTTTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTMC--AA--CA-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>106x4

-----------------------------------------------------------------------------------------------------------------------------GCA-A-TGAA-TGA-T-TT-AGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAATTCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCTCAGGATTTC-AACTA-CCGTTATATGCTTGTT-GATGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCGGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAGATTCTTCGCGACATTACAAAAGACACAATTGATTACCA-GGATAACTATGACGGGTCAGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCAAATCTGCTCGTGAACGGTGCTGCCGGCA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTGGGAGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAATCCGGATATTACAATTCCAGAGCTTATGGAAGTCATTCCAGGGCCCGATTTCCCGACCGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCAGGCCGAGGCTCTATCACGATTCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCGGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATTG-AG-AAAATTGC-CGATCTC--GTAAGGGACAAA-AAGAT-AGA-GGGTAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCGAAT-G-TCATCTT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-C--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M18B1

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTKGTTG--ACGGTCAGCCAAAGTWTTA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M19C9

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAATTCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCA-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTGG--ACSGTCAGCCRAAGTWT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>98x9

------------------------------------------------------------------TTYGRGGATGGT---------TTTAAAGCCCGGGTTYCATAG-AC-GGA-TTTTKTAT-GCTTA-TGAA-TGA-T-TTGGGG---GATG-AM-CGR--AGTGAW--TAARGGC-TT---AT-AAAAAAATCCGCGCGTATCG-TT-GGAGAAAGTTATCGGGAAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-WGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AGAAATT-GTCACTTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCYTAA-----------AACAA-CCTATA--CAAACA-------------AA--CTGC----------------GYTAC--AAA-CGTC----TTTTKGGGTTTTAYCWGCYTGCTSYGSTTTG-ACGKYCAGCCRAAWATWYTTAAATCTAAAGCAA?TGCCTGA?C??TACCT?--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>102x3

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTTAAAGGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCYKTGWYG-ACGGTC-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>102x4

------------------------------------------------------------------------------------CGGTTT-------------CATAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-AGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAG-TCTGCTCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCACCC-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTACCCGTTATATGCTAGTT-GACGGCCACGGAAACTTCGGTTTCTGTTGACGGGGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATTTCGATGGAAATACTGCGAGACATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGATCGGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTAAACGGTGCTGCCGGCA-TTGCGGTTGGTATGGCAACAAACATTCCTCCGCACCAGCTCGGTGAAATTATTGACGGCGTACTTGCGGTCAGTGAGAATCCGGATATTACAATTCAAGAGCTGATGGAAGTCATCCCAGGTCCTGATTTCCCGACTGCTGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATATGAATCCGGCCGAGGCTCTATTACAATTCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCAGGTAAA-GAACG-AATTATCGT-TACCGAGATT-CCTTACC-AAGTAAACAA-GGCAAAATTA-ATCG-AA-AAAATCGC-TGATCTC--GTTAGGGACAAGAAAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAATC-AG-ATCGTA-C-AGG-TAT-G--AGAAATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-GA-----------A---------------------------------------C------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S14C1I

------------------------------------------------------------------YTTCCAGATGTT-CGTGACGGTTTAAAACCCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCGGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATTG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CC----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S14B1

------------------------------------------------------------------YTTCCAGATGTT-CGKGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAAATCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCA-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTKR--ACGGTCAGCC?AAAGTTTAATCTAAC?CGGGG---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9C16

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTTAAAACCCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAACCCTGCTTGCACTTGKTG--ACSGTCAGCCAAAGTTWWAATCTAAC---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S17C6

------------------------------------------------------------------YTTCCAGATKTT-CGTGATGGTTT-AAAGCCGGG-TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTG--ACGGTCAGCCRAAGTT-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>98x1

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAACCCTGCTTGCGCT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9A5

------------------------------------------------------------------TTCCCAGATGTT-CGTGACGGTTT-AAAACCSGGTTYCMCAG-AC-GGATTTTTATAT-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCCTTT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGTTG--ACGGTCAGCCAAAGTWTTAATCTAA?ATGCGGGGG??TTT??TTTGGGGG---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9A10

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGGTTTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CYTATA-?CAAACA-------------AA--CTGC----------------GCTAC--AAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T12C4

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGTGR--MCGGTCAGCCAAAAG--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M13B10

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGGTTTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-C--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S15C6

------------------------------------------------------------------CTTCCGGATGTT-CGTGACGGTTT-AAAACCGGT-TTCATAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-AGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAG-TCTGCTCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-CCGTTATATGCTAGTT-GACGGCCACGGAAACTTCGG-TTCTGTTGACGGGGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATTTCGATGGAAATACTGCGAGACATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGATCGGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTAAACGGTGCTGCCGGCA-TTGCGGTTGGTATGGCAACAAACATTCCTCCGCACCAGCTCGGTGAAATTATTGACGGCGTACTTGCGGTCAGTGAGAATCCGGATATTACAATTCAAGAGCTGATGGAAGTCATCCCAGGTCCTGATTTCCCGACTGCTGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATATGAATCCGGCCGAGGCTCTATTACAATTCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCAGGTAAA-GAACG-AATTATCGT-TACCGAGATT-CCTTACC-AAGTAAACAA-GGCAAAATTA-ATCG-AA-AAAATCGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAATC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-GA-----------A-CAA-CCTATA--TAAACA-------------AA--CTGC----------------TCTTC--AAA-CATC----TTTTGGCATTAA-CCTGCTTGCACTTGTTG--ACGGTCAGCCGAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9B21

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGGAATGA-T-TT-GGG---AATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAACCCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGKTG--ACGGTCRCC?AAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S12c7

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTTAAAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTGGTTG--ACGGTCRGCCCAARTTTTA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N11C11

------------------------------------------------------------------TTTCCAGATGTTTCGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTG--ACGGTCAGCCCAAAGTTTTTAAATCT?AAGCATGCTG??CCC?TTTTCCTGGG------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9A15

------------------------------------------------------------------CTTCCAGATGTTTCGTGATGGTTTAAAGCCCGG--TTCATAG-AC-GGA-TTTTKTAT-KST-W-TGAA-TGA-T-TT-GGG---AATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAATTCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGC---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T14C6

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAATTCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-C--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9B28

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-C--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S17C2

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTTTAAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M15B2

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTTAAAACCCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTGGTTG--ACGGTCAGCCAAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S11b2

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TTGGGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGAGGGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------AACAA-CCTATA-C?AAMCA-------------AA--CTGC----------------GCTAC--A------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M11C9

-----------------------------------------------------------------CTTYCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTKGTTG--ACGGTCAGCCGAAAGTTTAATCTAACA?CGGGGG???TTTTC?TG?GGGG---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N20B2

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGGTTTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-C--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M8B6

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTTAAAACCCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTGGTTG--ACGGTCAGCCAAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S12c11

-----------------------------------------------------------------------------------------------------------------------------GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGGTTTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA----------MA-YAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>16B3

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGGTTTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------A?-----?----------------?C???--CYG-CGCT-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S10c13

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TTGGGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-C--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>97x9

------------------------------------------------------------------YTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TTGGGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGATCCGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTACCCTTACCAAGTTAAATAAAGGCGAAATTTAATCG-AG-AAAATTGCTTGATCTC--GTTAGAGACAAA-AAGATTAGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-CAAGG-TAT-G--AG-AATT-GTCA-TTG-AAATCCAGAC-GCGATG-CCAAT-GCAAAATG-TTATTTCYTA-----------AMCAA-CCTATA--CAAACC-------------AA-ACTGC----------------GCTAC--AAA--ATS-GYCTTTTGGTAWCAA-CCTGCYTGSSCYKT-----GWYGWCG----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T15B5

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TTGGGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAACCCTGCTTGCGCTTGTTG--ACGGTCAGCCGAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S18c3

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAACCGGT-TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-TACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGTTG--ACGGTCAGCCCAAAGTTTTAATCTAAC??GGGGG????????T?TTGG?----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>19b2

-----------------------------------------------------------------------------------------------------------------------------GCA-A-TGAA-CGA-T-TT-GGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCACGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--TGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGGTTTCTGTTGACGGGGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCAATGGAGATCCTTCGAGACATCACAAAAGACACAATCGATTATCA-GGATAACTATGACGGATCAGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTAAACGGTGCTGCGGGAA-TTGCGGTAGGTATGGCAACAAACATTCCTCCACACCAGCTGGGAGAAGTTATTGACGGTGTACTTGCTGTCAGTGAAAATCCTGAAATCACAATACAGGATCTTATGGAGGTTATTCCAGGTCCTGACTTCCCGACTGCGGGTCAAATCTTAGG-ACGCAGTGGCATCCGA-AAAGCATACGAAACTGGCCGAGGCTCTATCACAATCCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAACTA-ATCG-AG-AAGATTGC-TGATCTT--GTAAGGGACAAG-AAGAT-AGA-GGGTAT-TACAGA--TCTG-CGTG--ATGAATC-AG-ACCGTA-C-AGGRAAT-G--AG-AGTT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTTT-AA-----------A-CAA-TCTGTM--CAMACA-------------AA--CTGC----------------TTTGC--AA-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S11c11

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAATTCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AGAAAAATTGC-TGATCTC--GTTAGAGACAAAAAAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTGA------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S12b5

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAATTCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-C--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>M12C6

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--CCCCA-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTG--ACGKYCAGCC?AAAGTTTAATCTAA?AT?CGGGG?------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S6B1

-------------------------------------------------------------------------------------GGKTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAATTCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTG--ACGGTCAGCCGAAAGT-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S7B2

------------------------------------------------------------------YTTCCAGATGTT-CGTGACGGTTTTAAAACCGG--TTCACAG-AC-GAA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGTTG--ACGGTCAGCCAAAGTTTAATCTAA-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>96x10

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTTAAAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCGGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATTG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AR-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTACCA--CCTGCTTGC?CT?GTTG--ACGGTCACCCAAA?TTTAAT?AAAGCGGGG-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N7B4

-----------------------------------------------------------------------------------------------------------------------------GCA-ATTGAA-CGA-T-TT-GGG--CCATG-MC--AA--GGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCACGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--TGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGGGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCAATGGAGATCCTTCGAGACATCACAAAAGACACAATCGATTATCA-GGATAACTATGACGGATCAGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTAAACGGTGCTGCGGGAA-TCGCGGTAGGTATGGCAACAAACATTCCTCCGCATCAGCTGGGAGAAGTCATTGACGGTGTACTTGCTGTCAGTGAAAATCCTGAAATCACAATACAGGAGCTTATGGAGGTTATTCCAGGTCCTGACTTCCCGACTGCGGGTCAAATCTTAGG-ACGCAGTGGCATCCGA-AAAGCATACGAATCTGGCCGAGGCTCTATCACAATCCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAGATTGC-TGATCTC--GTAAGGGACAAGAAAGAT-AGA-GGGCAT-TACAGA--TCTGCCGTG--ATGAGTC-AGAACCGTA-C-AGG-AAT-G--AG-AGTT-GTCA-TTG-AAATCAGAAC-CCGATG-CCAATGGCAAAT-G-TTATTTTT?A-----------AACAA-TCTTTA--CAAAC?--------------------------------------------AAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9B18

-----------------------------------------------------------------------------------------------------------------------------GCA-A-TGAA-TGA-T-TT-AGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGAGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCTCAGGATTTC-AACTA-CCGTTATATGCTTGTT-GATGGTCACGGAAACTTCGG-TTCTGTTGATGGAGACTCAGCGGCGGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAGATTCTTCGCGACATCACAAAAGACACAATTGATTACCA-GGATAACTATGACGGGTCAGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGCA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTGGGAGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAATCCGGACATTACCATTCCAGAGCTTATGGAAGTCATTCCAGGGCCCGATTTCCCGACCGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCAGGCCGAGGCTCTATCACGATTCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCGGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATTG-AG-AAAATTGC-CGATCTC--GTAAGGGACAAA-AAGAT-AGA-GGGTAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTGAAAATC-AGAC-GCGATG-CCAAT-GCGAAT-G-TCATCTT-AA-----------A-CAA-TCTGTA--CMAACA-------------AA--CTGC----------------TYYWM--MAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S18c10

-----------------------------------------------------------------------------------------------------------------------------GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCAGGGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCCTTTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTGAAAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AA-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S4C7

------------------------------------------------GTTATCGTGTCCCGTGCTCTTCCGGATGTT-CGTGACGGTTT-AAAACCGG--TTCATAG-AC-GGA-TTTTGTAT-GCA-A-TGAA-TGA-T-TT-AGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCTCAGGATTTC-AACTA-CCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCGGCCATGCGTTATACAGAAGCACGAATGTCTAAAATCTCAATGGAGATTCTTCGCGACATCACAAAAGACACAATCGATTACCA-GGATAACTATGACGGGTCAGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGCA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTGGGAGAAATCATTGACGGTGTACTTGCTGTTAGTGAGAATCCGGACATTACAATTCCAGAGCTTATGGAAGTCATTCCAGGGCCTGATTTCCCGACCGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCAGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCGGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATTG-AG-AAAATTGC-TGATCTC--GTAAGGGACAAA-AAGAT-AGA-GGGTAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCGAAT-G-TTATCTT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGCATCAA-CCTGCTTGCGCT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N16B2

------------------------------------------------GTTATTGTGTCTCGTGCTCTTCCGGATGTT-CGTGACGGGTT-AAAACCGG--TTCACAG-AC-GGA-TTTTGTAT-GCC-A-TGAA-CGA-T-TT-GGG---CATG-AC---G--AGCGAC----AAGCC-TT---AT-AAAAAA-TCCGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGACTCA-GCGG-TATACGAAT-CCATGGTCAGAATGGCTCAGGACTTC-AACTA-CCGTTATATGCTTGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGCGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACGATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTTGTAAACGGCGCTGCTGGTA-TTGCGGTAGGTATGGCGACAAACATCCCTCCGCACCAGCTTGGAGAAATCATTGATGGCGTACTTGCGGTCAGTGAGAGCCCGGACATTACAATTCAGGAGCTGATGGAGGTCATTCCAGGGCCTGACTTCCCGACTGCGGGCCAAATTCTGGG-ACGCAGCGGTATTCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATTCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCAGGCAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATTG-AG-AAAATTGC-TGATCTT--GTTAGGGATAAG-AAGAT-AGA-GGGCAT-CACAGA--TTTG-CGTG--ATGAATC-AG-ACCGTA-C-AGG-CAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-GA-----------A-CAA-TCTTTA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S12b3

------------------------------------------------GTTATTGTTTCCCGTGCTCTTCCTGATGTA-AGAGACGGACT-GAAGCCGG--TGCATAG-AA-GAA-TTTTGTAC-GCG-A-TGAA-TGA-C-CT-TGG---GATG-AC---A--AGCGAC----AAACC-AT---AC-AAAAAA-TCTGCCCGGATTG-TC-GGCG-AAGTTATT-GGTAAGTACCA--T-CCG-CA--CGGTGATTCT-GCCG-TTTACGAAG-CGATGGTCAGGATGGCCCAGGATTTC-AACTA-TCGCTATATGCTTGTT-CAAGGCCATGGGAACTTCGG-TTCTGTCGATGGCGATTCAGCAGCTGCGATGCGTTATACAGAAGCGAGAATGTCGAAAATATCCATGGAAATCCTGCGCGACATCAACAAGGATACGATTGACTATCA-AGACAACTATGACGGATCTGAAAGAGAACCGATTGTCATGCC-TGCCAGATTTCCAAACCTGTTGGTTAACGGTGCAGCCGGGA-TTGCAGTCGGAATGGCGACAAATATCCCGCCGCATCAACTTGGCGAAGTCGTTGACGGGGTTTTGGCAGTCAGCAAGAACCCTGATATTTCGCTTGCGGAATTGATGGAAATCATCCCGGGCCCTGATTTCCCGACGGCAGGTTTGATCTTGGG-AAGAAGCGGAATCCGC-AAAGCTTATGAAACAGGCCGCGGATCGATTACGCTTCGAGCCAAAGCGCAAAT-TGAAGAAACATCATCCGGCAAA-CCGGT-TATCATTGT-TACGGAAATA-CCGTATC-AGGTGAATAA-AGCAAAACTG-ATTG-AA-AAAATCGC-TGATCTT--GTCCGCGACAAG-AAAAT-CGA-GGGCAT-TACAGA--TCTT-CGCG--ATGAATC-AG-ACCGAA-A-CGG-AAT-G--CG-GATT-GTCA-TCG--AGCTGAGAA-GAGACG-CAAAT-GCCAAC-G-TTCTGTT-AA-----------A-TAA-TTTGTA--CAAGCA-------------GA--CCGC----------------ACTTC--AAA-CATC----ATTTGGGATCAA-TCTTTTGGCGCT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S12c14

------------------------------------------------GTTATTGTGTCCCGTGCTCTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAATATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATAG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTT-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T7C9.F

------------------------------------------------GTTATTGTGTCCCGTGCTCTTCCAGATGTA-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTGTAT-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-AT---AT-AAAAAA-TCCGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-CCGTTACATGCTCGTT-GACGGTCACGGGAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGATGGGTCAGAAAGAGAACCCGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATCCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCTGAGCTGATGGAAGTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATTACGATTCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-TAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCGCT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N16A12

------------------------------------------------GTTATCGTGTCCCGTGCTCTTCCGGATGTT-CGTGACGGTTT-AAAACCGG--TTCATAG-AC-GGA-TTTTGTAT-GCA-A-TGAA-TGA-T-TT-AGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCTCAGGATTTC-AACTA-CCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCGGCCATGCGTTATACAGAAGCACGAATGTCTAAAATCTCAATGGAGATTCTTCGCGACATCACAAAAGACACAATCGATTACCA-GGATAACTATGACGGGTCAGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGCA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTGGGAGAAATCATTGACGGTGTACTTGCTGTTAGTGAGAATCCGGACATTACAATTCCAGAGCTTATGGAAGTCATTCCAGGGCCTGATTTCCCGACCGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCAGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCGGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATTG-AG-AAAATTGC-TGATCTC--GTAAGGGACAAA-AAGAT-AGA-GGGTAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCGAAT-G-TTATCTT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGCATCAA-CCTGCTTGCGCT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N16A7

------------------------------------------------GTTATTGTGTCCCGGGCTCTTCCGGATGTT-CGTGACGGTTT-ACAACCGG--TTCATAG-AC-GGA-TTTTGTAT-GCA-A-TGAA-CGA-T-TT-GGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCACGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--TGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGGGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCAATGGAGATCCTTCGAGACATCACAAAAGACACAATCGATTATCA-GGATAACTATGACGGATCAGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTAAACGGTGCTGCGGGAA-TTGCGGTAGGTATGGCAACAAACATTCCTCCACACCAGCTGGGAGAAGTTATTGACGGTGTACTTGCTGTCAGTGAAAATCCTGAAATCACAATACAGGATCTTATGGAGGTTATTCCAGGTCCTGACTTCCCGACTGCGGGTCAAATCTTAGG-ACGCAGTGGCATCCGA-AAAGCATACGAAACTGGCCGAGGCTCTATCACAATCCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAACTA-ATCG-AG-AAGATTGC-TGATCTT--GTAAGGGACAAG-AAGAT-AGA-GGGTAT-TACAGA--TCTG-CGTG--ATGAATC-AG-ACCGTA-C-AGG-AAT-G--AG-AGTT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTTT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TTTGC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>19b4x1

------------------------------------------------GTTATCGTATCCCGGGCGCTTCCGGATGTG-CGTGACGGTCT-GAAGCCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-AGG---CATG-AC---C--AGTGAC----AAGCC-AT---AT-AAAAAA-TCTGCCCGTATCG-TC-GGTG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--CGGTGATTCA-GCGG-TTTACGAAT-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-CCGCTACATGCTTGTT-GACGGACACGGCAACTTCGG-TTCGGTAGACGGCGACTCAGCGGCTGCGATGCGTTATACAGAAGCGAGAATGTCAAAAATCGCAATGGAAATTCTGCGTGACATTACGAAAGACACGATTGACTATCA-AGACAACTATGACGGTTCAGAAAGAGAACCAGCCGTCATGCC-TTCAAGATTTCCGAATCTGCTCGTGAACGGGGCTGCCGGTA-TTGCGGTCGGAATGGCGACAAACATTCCTCCGCATCAGCTTGGGGAAGTCATTGACGGCGTGCTTGCCGTAAGTGAAAATCCAGAGATTACAATCCAAGAGCTGATGGAATACATCCCGGGACCGGATTTCCCGACGGCCGGCCAGATTTTAGG-CCGGAGCGGCATCCGT-AAGGCATATGAATCCGGACGGGGATCCATTACGATCCGGGCTAAGGCTGAAAT-CGAACAGACATCATCAGGAAAA-GAAAG-AATTATTGT-CACGGAACTT-CCTTATC-AGGTGAACAA-GGCGAGATTA-ATTG-AA-AAAATCGC-AGATCTT--GTCCGGGACAAA-AAAAT-CGA-AGGAAT-TACCGA--TCTG-CGTG--ACGAATC-CG-ACCGTA-A-CGG-AAT-G--AG-AGTC-GTCA-TTG-AGCTC-CGCC-GTGACG-CCAAT-GCTCAC-G-TCATTTT-GA-----------A-TAA-CCTGTA--CAAACA-------------AA--CGGC----------------TCTGC--AGA-CGTC----TTTCGGAATCAA-CCTGCTGGCGCT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T18C9

------------------------------------------------GTTATCGTGTCCCGTGCTCTTCCGGATGTT-CGTGACGGTTT-AAAACCGG--TTCATAG-AC-GGA-TTTTGTAT-GCA-A-TGAA-TGA-T-TT-AGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCTCAGGATTTC-AACTA-CCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCGGCCATGCGTTATACAGAAGCACGAATGTCTAAAATCTCAATGGAGATTCTTCGCGACATCACAAAAGACACAATCGATTACCA-GGATAACTATGACGGGTCAGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGCA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTGGGAGAAATCATTGACGGTGTACTTGCTGTTAGTGAGAATCCGGACATTACAATTCCAGAGCTTATGGAAGTCATTCCAGGGCCTGATTTCCCGACCGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCAGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCGGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATTG-AG-AAAATTGC-TGATCTC--GTAAGGGACAAA-AAGAT-AGA-GGGTAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCGAAT-G-TTATCTT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGCATCAA-CCTGCTTGCGCT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S11c2

------------------------------------------------GTTATCGTATCCCGGGCTCTTCCGGATGTC-CGTGACGGTTT-AAAACCAG--TTCACAG-AC-GGA-TTTTGTAC-GCG-A-TGAA-TGA-T-CT-GGG---AATG-AC---C--AGTGAC----AAGGC-GT---AT-AAAAAA-TCTGCGCGTATTG-TC-GGAG-AAGTTATC-GGTAAGTACCA--C-CCT-CA--CGGGGATTCC-GCAG-TATATGAAT-CCATGGTCAGGATGGCGCAGGACTTC-AACTA-CCGTTATATGCTTGTC-GACGGTCATGGAAACTTTGG-TTCTGTAGACGGAGACTCAGCCGCTGCGATGCGGTACACCGAAGCCAGAATGTCTAAGATCGCCATGGAAATTCTGCGAGACATTACAAAAGACACGATTGATTATCA-AGATAACTATGATGGTTCAGAGAGAGAACCTGTTGTCATGCC-GTCAAGATTCCCAAACCTGCTTGTAAATGGAGCAGCCGGTA-TTGCAGTCGGAATGGCTACAAATATACCGCCGCACCAGCTTGGAGAAATTATTGACGGAGTGCTTGCCGTAAGCGAGAACAAGGACATACCAATCCAAGAGCTGATGGAATTCATTCCTGGGCCGGATTTCCCGACTGCCGGACAAATTTTAGG-CAGAAGCGGAATCCGC-AAGGCGTATGAATCCGGAAGAGGTTCTATTACGATTCGGGCAAAAGCAGAAAT-TGAAGAAACACCGTCAGGGAAA-GAAAG-AATTTTAGT-AACAGAACTC-CCTTACC-AGGTGAATAA-AGCGCGTCTA-ATTG-AG-AAGATTGC-TGATCTT--GTCAGGGATAAG-AAAAT-TGA-AGGAAT-AACTGA--TTTG-CGTG--ATGAGTC-TG-ACCGTA-A-CGG-TAT-G--CG-GATT-GTCA-TTG-AAATC-AGAC-GAGATG-CCAAT-GCACAT-G-TTATCCT-GA-----------A-CAA-TCTGTA--CAAACA-------------AA--CGGC----------------CCTGC--AAA-CTTC----CTTCGGGATTAA-CCTGCTGGCGCT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S3B3

--------------------------------------------------------------------------------------GTTT-AAAACCGG--TTCATAG-AC-GGA-TTTTGTAT-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCGCGTATCG-TC-GGAG-AAGTTATC-KGGAAATACCA--C-CCG-CA--CGGTGATTYA-GCGG-TATWTGAAT-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-CCGTTACATGCTTGTT-GACGGTCACGGGAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCTATGCGTTATACAGAAGCAAGAATGTCTAAGATTTCAATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCCGTTGTTATGCC-TTCAAGGTTTCCGAATCTGCTCGTGAACGGCGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGATGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCAGAGCTCATGGAAGTCATTCCAGGGCCTGATTTCCCGACTGCCGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CTTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTG--ACGGCCAGCCGAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S20c3

------------------------------------------------------------------CTTCCGGACGCTAAGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGSG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTAGCGCTTGTTG--ACGGACAGCCGAAAGTATTGAGCTTAAGCATGCGGGGGNTTTTTTTNNTTGGGGG----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S17C1M

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGGCTGTAAGCCGG--TGCACAG-AA-GAA-TATTGTTATGCGCA-TGAA-CGACC-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-KGSR-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-M-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTTGTTG--ACGGACAGCCGAAAGTWTKKAGCT?AAGCAATGCTG?????TTTTTCCT----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>N9B12

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGACC-TT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-TGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCACAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG-AAACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA-----C----------------A?T??------CAGC----T------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T8B4.F

--------------------------------------------------------------------------CGTG----AACGGTTT-AAAACCAG--TTCACAG-AC-GGA-TTTTGTAC-GCG-A-TGAA-TGA-T-CT-GGG---AATG-AC---C--AGTGAC----AAGGC-GT---AT-AAAAAA-TCTGCGCGTATTG-TC-GGAG-AAGTTATC-GGTAAGTACCA--C-CCT-CA--CGGGGATTCC-GCAG-TATATGAAT-CCATGGTCAGGATGGCGCAGGACTTC-AACTA-CCGTTATATGCTTGTC-GACGGTCATGGAAACTTTGG-TTCTGTAGACGGAGACTCAGCCGCTGCGATGCGGTACACCGAAGCCAGAATGTCTAAGATCGCCATGGAAATTCTGCGAGACATTACAAAAGACACGATTGATTATCA-AGATAACTATGATGGTTCAGAGAGAGAACCTGTTGTCATGCC-GTCAAGATTCCCAAACCTGCTTGTAAATGGAGCAGCCGGTA-TTGCAGTCGGAATGGCTACAAATATACCGCCGCACCAGCTTGGAGAAATTATTGACGGAGTGCTTGCCGTAAGCGAGAACAAGGACATAACAATCCAAGAGCTGATGGAATTCATTCCTGGGCCGGATTTCCCGACTGCCGGACAAATTTTAGG-CAGAAGCGGAATCCGC-AAGGCATATGAATCCGGAAGAGGTTCTATTACGATTCGGGCAAAAGCAGAAAT-CGAAGAAACTCCATCAGGGAAA-GAAAG-AATTTTAGT-AACAGAACTC-CCTTATC-AGGTGAATAA-AGCGCGTCTA-ATTG-AG-AAGATTGC-TGATCTT--GTCAGGGATAAG-AAAAT-TGA-AGGAAT-AACTGA--TTTG-CGTG--ATGAATC-TG-ACCGTA-A-CGG-TAT-G--CG-GATT-GTCA-TTG-AAATC-AGAC-GAGATG-CCAAT-GCGCAT-G-TTATCCT-GA-----------A-CAA-TCTGTA--CAAACA-------------AA--CGGC----------------CCTGC--AAA-CTTC----CTTCGGGATTAACCCTGCTGGCGCTTGKTG--ACGGCGAGCCRAAG---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T4C10

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGACC-TT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--CGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCACAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGKTTAA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AA-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T13B1

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAATTCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACCAAAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-AMCGAA-AACGG-TAT-G--CG-CATC-GTCA-TTG--AACTGARAA-GGGATG-CAAAT-GCTAAT-G-TACTGGTTAA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAAATCTYTTTG-GCSCTTGGTGACGRACCASCCAAAKTRT-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T8c3

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGGTTTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCAAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAAACCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------AATAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T20C14

------------------------------------------------------------------YTTCCGGATGTA-AGGGACGGTCTGAAAGCCGG--TGCATAG-AA-GAA-TATTGTAC-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAC----AAGCC-AT---AC-AAAAAA-TCGGCGCGGATCG-TC-GGCG-AAGTCATC-GGTAAATATCA--C-CCG-CA--TGGTGACTCT-GCCG-TTTATGAAG-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTATATGCTTGTT-CAAGGCCATGGAAACTTCGG-TTCTGTCGACGGCGACTCCGCTGCGGCCATGCGTTATACAGAAGCAAGAATGTCGAAAATATCCATGGAAATCCTGCGAGACATTAATAAAGATACGATCGATTATCA-GGACAACTATGACGGGTCTGAAAAAGAACCGGTTGTCATGCC-TGCCAGATTTCCAAACCTGCTGGTCAACGGAGCTGCCGGGA-TTGCGGTAGGTATGGCGACGAATATCCCGCCACATCAGCTTGGTGAGATTATTGACGGGGTTTTAGCCGTCAGTAAAAACCCTGAAATCACGCTTCCGGAGTTGATGGACATCATTCCGGGACCGGATTTCCCGACAGCAGGGCTGATCATGGG-CAGAAGCGGAATCCGC-AAAGCTTATGAAACAGGAAGAGGTTCGATCACGATTCGGGCAAAGGCTCAAAT-CGAAGAAACATCCTCCGGCAAA-CAGGT-CATCATTAT-TACGGAAATA-CCTTATC-AGGTGAATAA-AGCGAAACTG-ATCG-AA-AAAATCGC-CGATCTT--GTCCGCGATAAG-AAAAT-CGA-AGGGAT-AACAGA--TCTC-CGTG--ATGAATC-AG-ACCGAA-A-CGG-CAT-G--AG-GATC-GTCA-TCG--AGCTGAGAC-GAGACG-CAAAT-GCAAAT-G-TTCTGTT-AA-----------A-TAA-TTTGTA--CAAGCA-------------GA--CGGC----------------ACTTC--AAA-CATC----ATTTGGGATCAA-TCTTTTAGCGCTCGTCG--ATGGACAGCC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T15C9

--------------------------------------------------------------------CCAGAATGTT-CGTGACGGTTT-AAAACCGGT-TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGKTG--ACGGTCAGCCAAARKWTWTAAATCTAAAGCA?TGCCTGAGGCCTTT-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T7b1

------------------------------------------------------------------------------------------------CGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCAAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAAACCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGAGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCTGGTAAA-----T-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA---------C----------------------TTGT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T5b8

-----------------------------------------------------------------------------------------T-CACTTCGGCATTAATCG--------TTTTG----GCG-C-TTGT-TGA-C-GT-------GACA-?C-CAA--AGTATT----GAGC--TT---A--AAGCAA-TGC-----------CT-GGAGAAAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCAGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGRW-M-CGG-WAW-G--SG-SWTC-GTCM-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTKGTTG--ACGGACAGCCGAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>S8c1.1

------------------------------------------------------------------------------------------------CGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA---------C----------------------TTGT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T13B2

------------------------------------------------------------------------------------------------CGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GG?G-AAGTTATC-GGTAAGTACCA--C-CCT-CCACCGGTGATTC?-GCTG-TTTACGAA?-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCATGGAAACTTCGGTTTCTGTTGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGTTCGGAAAAAGAGCCGGTTGTTATGCC-TGCGAGATTTCCGAACTTGCTTGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGTGTTTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAGATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGA-AAGGCCTATGAATCAGGCCGGGGATCAATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTAT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTA--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-C-CGG-AAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CCAAT-GCCAAT-G-T-------AA-----------C-TGT-----TA---------------------AA-----------------------------TAA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T17B4 not

--------------------AAGGTCTCTT?T?GATYTTGMRMWGAGCGTTATTGTGTCCCGTGCTCTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAATTCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAACCCTGCTTGCGCTKGTTG--ACSGTCAGCCGAAAGTWTTAAATCTAAAGCATGCCTGAGAC?ATT??CNTGNAANNN--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T5b9

--------------------------CTTGGATTMTRCRAKAMGCGTTATTGTGTYCCCGTGYTYYTTCCCAGATTKTTCGTGACGGTTTTAAAACCGG--TTCMCAG-AC-GGA-TTTTATAC-GCMAATTGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAATTCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTYT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC---TTTTTGGTATCAAACCTGCTTGCACTTGTKWSACNGGTCAGCCCAAAGTTTTAAMTCTAAAGCAATGCCTGNGGNCNATTTNCTTGNNAN--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T14C12

------------------------------------------NATCAGACGTATTGTGTCCGTGCTCTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTNGTKR--MCGGTCRSCCNAAAGTWTWAATCTAAGCATGCGGGGGNTTTTTTTTTGNGGGGGNNNNNNN----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T14C8

-------------------AAANNGTNTCTTNTNGATNTGYAAYRRRCGTTATTGTGTCCCGTGCTCTTCCAGATGTT-CGTGACGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAA----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCACAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCCGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGATGGTGTACTTGCTGTCAGTGAGAACTCGGACATCACAATCTCGGAACTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGT-AAGGCATACGAATCTGGTCGAGGTTCTATTACGATTCGGGCAAAAGCTGAGAT-CGATCAAACATCTTCAGGCAAA-GAAAG-AATTGTCGT-AACAGAGATT-CCTTACC-AAGTAAACAA-GGCTAAATTA-ATCG-AG-AAAATTGC-AGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TTTA-CGCG--ATGAATC-AG-ACCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTGC--AAA-CATC----TTTTGGTATTAA-CCTGCTTGCGCTKGTTG--ACSGTCAGCCGAAAGTWTWAYCTANCNCGGGNNNNNTTNNTTTGGNNNNNNNGNNNNNNN-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T15B2

--------------CNAANAAAANNGTNTCTNTNGATYTGMTMWGAGCGTTATTGTGTCCCGTGCTYTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCGGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATTG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTNGTTG--ACGGTCAGCCAAAGTWTAAATCTAACNCGGGGNNNTTTTNTTTGGGGNNNNNNNNNNNNNN----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T15C12

---------------------------------------NTNTCAGAGCGTATTGTGTCCCGTGCTCTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATTG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGTTG--ACSGTCAGCCAAARKWTTWAAATCTAAGCATGCGGNGNNNTTTTTCCTTGNNANNNNN-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T15C15

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>T11B1

-----------------AAANTGTAGTCTTCTGGATTACGCAMWGAGCGTTATTGTGTCCCGYGCTCTTCCAGATGTT-CGTGACGGTTT-AAAACCGGG-TTCACAG-AC-GGA-TTTTATAT-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCARATCTTGGGAACGCAGCGGTATCCGGAAAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAAGGAAAG-AATTATCGTGTACAGAGTTA-CCTTACC-AAGTAAATAAGGGCGAAATTA-ATCGAAG-AAAATTGCTTGATCTYCGKTTAGGGACAAG-AAGAT-AGAGGGGCATCCACAGAATYCTG-CGKGGAATGAGTC-AG-ATCGTMCC-AGG-TAT-GRRGA-AATT-GTCA-TTT-GAA---ATYC-AARACS-CCSATGC-CCCA-A-KGGTAAT-GT-----------T-TAT-TCTAAA--CAAATC-------------TG-T-WNC----------------CAAAC--AAA-CYGG---CTCY-AMCAAAACATCTTTTKGGWWYCAA-CC-CT-GCTTGGCACYTTGTTGTRASSGTCAGCCCAAAAAGTWTTWAA--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T13B3

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>T14B3

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>T16B1

-------------------------TNTTGGATTATGCAAKRWGMGKTWTTGTGTTCCCGTGYTCTTTCCCAGATGTTTCGTGACGGTTTTAAAACCSGGTTTCMCAG-AC-GGA-TTTTATAC-GCA-A-TGAA-KGA-T-TT-GGG---CATG-AC---R--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCGCTC-KGRR-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTACA-RGG-TAT-G-RRG-AAWTGGTCATTTG-AAATC-AGACGGCGATGCCCAAWKGGTAAT-G-TTATTCT-AA----------AM-CAA-TCTGTAACCAAACA-------------AA-CTGGC----------------TCTACCAAAA-CATYCTTTTTTKGGTATCAAMCCTGCTTGCACTTGGTTGWGMSSGTCARCCCAAAAAGTTWTAAAATCTAAGGCAATGG--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T16B2

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>T2B1

----------------------------------------GTTAGCAGAGGTATTGTTTCCGCGCTCTTCCGGACGTT-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGNG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATMAATAAAKACAYWATCGATTMCCA-RSACAAYTAKGASGGWTCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTWTTTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTTGTTG--ACGRMMAGCCGAAGKTAKTGMGCTTGAACCATGCTGNNNANNTTNTTNCTGGNNANNN-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T4C11

-----------------AANNGTNGTCTTNTNGATNNTRYMATGAGCGTWATTGTGTCCCCGTGCTCTTCCAGATGTT-CGTGACGGTTTTAAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATTACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA-CYKGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACTTGKTG--ACSGTCAGCCCAAAGTATTWAAATCTAAGCAGCGGGGNNTTTTTTNTTTGGGGGGGGNNN-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T4C12

------------------------------------------------------------------CTTCCGGACGTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCAGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTTGTTG--ACGGACAGCCGAAAGTWKTGAGCTTAAGCA-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T4C6

-----------------------------------NTTATCATGAGCGTNTNGNGTCCCGNGGCTCTTCCAGAATGTT-CGTGACGGTTT-AAAACCGG--TTCACMG-RC-GGR-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA-CYKGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACYTGTKTG-ACSGTCAGCCAAARKWTWWMATCTAAGCATGCGGGGNNNTTTTTTCTGNGANN------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T5B1

------------------------------------------------------------------------------------------------CGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCAGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA---------C----------------------TTGT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T5B4

-------------------------------------CCNTATCATGAGCGTACGTATCCCGGGCTCTTCCGGATGTCCGTGAACGGTTT-AAAACCAG--TTCACAG-AC-GGA-TTTTGTAC-GCG-A-TGAA-TGA-T-CT-GGG---AATG-AC---C--AGTGAC----AAGGC-GT---AT-AAAAAA-TCTGCGCGTATTG-TC-GGAG-AAGTTATC-GGTAAGTACCA--C-CCT-CA--CGGGGATTCC-GCAG-TATATGAAT-CCATGGTCAGGATGGCGCAGGACTTC-AACTA-CCGTTATATGCTTGTC-GACGGTCATGGAAACTTTGG-TTCTGTAGACGGAGACTCAGCCGCTGCGATGCGGTACACCGAAGCCAGAATGTCTAAGATCGCCATGGAAATTCTGCGAGACATTACAAAAGACACGATTGATTATCA-AGATAACTATGATGGTTCAGAGAGAGAACCTGTTGTCATGCC-GTCAAGATTCCCAAACCTGCTTGTAAATGGAGCAGCCGGTA-TTGCAGTCGGAATGGCTACAAATATACCGCCGCACCAGCTTGGAGAAATTATTGACGGAGTGCTTGCCGTAAGCGAGAACAAGGACATAACAATCCAAGAGCTGATGGAATTCATTCCTGGGCCGGATTTCCCGACTGCCGGACAAATTTTAGG-CAGAAGCGGAATCCGC-AAGGCATATGAATCCGGAAGAGGTTCTATTACGATTCGGGCAAAAGCAGAAAT-CGAAGAAACTCCATCAGGGAAA-GAAAG-AATTTTAGT-AACAGAACTC-CCTTATC-AGGTGAATAA-AGCGCGTCTA-ATTG-AG-AAGATTGC-TGATCTT--GTCAGGGATAAG-AAAAT-TGA-AGGAAT-AACTGA--TTTG-CGTG--ATGAATC-TG-ACCGTA-A-CGG-TAT-G--CG-GATT-GTCA-TTG-AAATC-AGAC-GAGATG-CCAAT-GCGCAT-G-TTATCCT-GA-----------A-CAA-TCTGTA--CAAACA-------------AA--CGGC----------------CCTGC--AAA-CTTC----CTTCGGGATTAACCCTGCTGGCGCTTGKTG--ACGGCGAGCCRAAGGTWWTAATTTAAGCATGCGGGGGNNTTTTTTTTGNGGNGGGG---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T5C10

-----------------------------------------TNTCAGAAGTATTGTTTCCCGCGCTCTTCCGGACGTT-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTTATGCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AANAAA-TCCGCGCGTATTG-TC-NGGN-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGSCCATGCGTYACASAGRAGCGAGAATKTYTAAAWTWYMAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGCTTGTTG--ACGRMCAGCCGAAWKKATTGACTNGAACATGNGGGGNNNTTTTNNTTGGGGGGGGGNN-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T5C11

------------------------------------------------------------------CTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCATAG-AC-GGA-TTTTGTAT-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-CCGTTACATGCTTGTT-GACGGTCACGGGAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCTATGCGTTATACAGAAGCAAGAATGTCTAAGATTTCAATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCCGTTGTTATGCC-TTCAAGGTTTCCGAATCTGCTCGTGAACGGCGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGATGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCAGAGCTCATGGAAGTCATTCCAGGGCCTGATTTCCCGACTGCCGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CTTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAACCCTGCTTGCGCTKGTTG--ACGGCC-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T5C9

---------------TAGAANCAAGNCNTAGGGTTCNGGCGTCANCAACNGTGGANCNANGCAGACCGGCCTNGTATCACNNGTNACTTC--------G--NNAANAT-AATCGT-TATNGCGCAGCG-T-TGCN-NGN-C-TT-GAC---AANGCAC--AA--NGTNAT----TGANC-TT---AT-ANCAAN-GCCTGGNGCATTN-CC-TNGA-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCAGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGRW-M-CGG-TAT-G--SG-CWTC-GTCM-TTG-AACTKRAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAATYYTTTTGGCGCTTGTTG--ACGRCAMAGCCGAAAKTRTYGAGCTTAAGCATGCTG-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T7C10

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>T7C11

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>T7C12

-----------------------------------TCCNTNNCAGAGCGTATTGTGTCCNSAGGCKSTTCCAKMYGTTCKTKTATGGTTTAWAGGMCGG--TTCATAS-AS-GKW-YTTTGTAK-GCT-WTTGWA-TGA-T-TT-GRG---GRTK-WC-GGGGGAGTGRT----RAGGY-TTRKAWWAWAWAAA-AYCSSGSGKWTYS-KT-GGRGRAAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA---------AMA-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTGGTGR--ACSGTCAGCCGAARKTWTAAYCTAACNCGGGGNNTTTNNNTTTGGGGGGGGNNNN----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T7C8

--------------------------------------------------------------------------------------------AAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-AGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGKTG--ACSGTCAGCCGAAGT--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T7C9

-----------------------------------------------------------------------------------------------------------------------------GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGKTTAA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-C--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T8B1

------------------------------------------------------------------CTTCCAGATGTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCNCTTGTTG--ACGGTCANCCNAAAG--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T8B3

------------------NGNNNNNGGCNTTTTGAKNTGCAATGAGCGTTATCGTATCCCGGGCTCTTYCGGGATGTC-CGTGACGGTTT-AAAACCAG--TTCACAG-AC-GGA-TTTTGTAC-GCG-A-TGAA-TGA-T-CT-GGG---AATG-AC---C--AGTGAC----AAGGC-GT---AT-AAAAAA-TCTGCGCGTATTG-TC-GGAG-AAGTTATC-GGTAAGTACCA--C-CCT-CA--CGGGGATTCC-GCAG-TATATGAAT-CCATGGTCAGGATGGCGCAGGACTTC-AACTA-CCGTTATATGCTTGTC-GACGGTCATGGAAACTTTGG-TTCTGTAGACGGAGACTCAGCCGCTGCGATGCGGTACACCGAAGCCAGAATGTCTAAGATCGCCATGGAAATTCTGCGAGACATTACAAAAGACACGATTGATTATCA-AGATAACTATGATGGTTCAGAGAGAGAACCTGTTGTCATGCC-GTCAAGATTCCCAAACCTGCTTGTAAATGGAGCAGCCGGTA-TTGCAGTCGGAATGGCTACAAATATACCGCCGCACCAGCTTGGAGAAATTATTGACGGAGTGCTTGCCGTAAGCGAGAACAAGGACATAACAATCCAAGAGCTGATGGAATTCATTCCTGGGCCGGATTTCCCGACTGCCGGACAAATTTTAGG-CAGAAGCGGAATCCGC-AAGGCATATGAATCCGGAAGAGGTTCTATTACGATTCGGGCAAAAGCAGAAAT-CGAAGAAACTCCATCAGGGAAA-GAAAG-AATTTTAGT-AACAGAACTC-CCTTATC-AGGTGAATAA-AGCGCGTCTA-ATTG-AG-AAGATTGC-TGATCTT--GTCAGGGATAAG-AAAAT-TGA-AGGAAT-AACTGA--TTTG-CGTG--ATGAATC-TG-ACCGTA-A-CGG-TAT-G--CG-GATT-GTCA-TTG-AAATC-AGAC-GAGATG-CCAAT-GCGCAT-G-TTATCCT-GA-----------A-CAA-TCTGTA--CAAACA-------------AA--CGGC----------------CCTGC--AAA-CTTC----CTTCGGGATTAA-CCTGCTGGCGCTTGTKG--ACGGCGAGCCRAAGTTATAATTAACNNGGGGNNNNNNNNNTGGNNNNNNNNNNNNNNN-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T9B1

----------------------------------------------------------------------------TT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAC----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACGATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------ACCAA-CCTATAC-AAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTG--ACGGTCA----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>T9C1

----------------------------------------GGNNCAGACGTATTGTGTCCCGTGCTCTTCCGGATGTT-CGTGACGGTTT-AAAACCGG--TTCATAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-AGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAG-TCTGCTCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-CCGTTATATGCTAGTT-GACGGCCACGGAAACTTCGG-TTCTGTTGACGGGGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATTTCGATGGAAATACTGCGAGACATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGATCGGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTAAACGGTGCTGCCGGCA-TTGCGGTTGGTATGGCAACAAACATTCCTCCGCACCAGCTCGGTGAAATTATTGACGGCGTACTTGCGGTCAGTGAGAATCCGGATATTACAATTCAAGAGCTGATGGAAGTCATCCCAGGTCCTGATTTCCCGACTGCTGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATATGAATCCGGCCGAGGCTCTATTACAATTCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCAGGTAAA-GAACG-AATTATCGT-TACCGAGATT-CCTTACC-AAGTAAACAA-GGCAAAATTA-ATCG-AA-AAAATCGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAATC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-GA-----------A-CAA-CCTATA--TAAACA-------------AA--CTGC----------------TCTTC--AAA-CATC----TTTTGGCATTAACCCTGCTTGCACTTGTTG--ACSGTCAGCCGAARGTWTTTATCTACNNGGGNNNNNNNNNTTTGGGGGGNNNNNNNNNNNNN---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>PE4

---------------------------------------------------------------------------GTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTCGGCGC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>PE15

----------------------------------------------------------------------------------------------------------------------------------------------TT-----------------------------------------AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGCTTGTTG--ACGGTCAGCCGAAAGTTTTAAATCTAAAGCAGTGCCTAGAGCATTACCTTGACCATCAAAAAGTCGTAATCAGACGCCGTACGGCATATGAATTGCGTAAAGCGGAAGCGAGAGCTCATATCTTGGAAGGTTTGAGAATTGCTCTCGATCATCTCGATGCAGTTATTTCTCTTATCCGTAATTCTCAAACGGCTGAAATAGCTAGAACAGGTCTAATTGAACAATTCTCACTGACAGAGAAGCAAGCACAAGCGATCCTCGATATGAGGCTGCAGCGTTTAACAGGACTAGAACGTGAAAAGATCGAAGAAGAATATCTATCTCTTGTTAAATTAATTGCAGAGCTAAAAGACATTTTGGCAAATGAATATAAAGTGCTT---------------------------------------

>PE4b

---------------------------------------------------------------------------GTA-AGAGACGGTCT-GAATCCGG--TGCACAT-AA-CAT-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGT---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTGGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACCAACATCCCGCCGCATCAGCTCGGCGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCCGACTTCCCTACTGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGGTCTATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAC-GGTAAT-G-TACTCTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CCTC----ATTCGGCATTAA-TCTTTTCGCGC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>PE10

------------------------------------------------GTTATCGTGTCCCGTGCTCTTCCGGATGTT-CGTGACGGTTT-AAAACCGG--TTCATAG-AC-GGA-TTTTGTAT-GCA-A-TGAA-TGA-T-TT-AGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCTCAGGATTTC-AACTA-CCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCGGCCATGCGTTATACAGAAGCACGAATGTCTAAAATCTCAATGGAGATTCTTCGCGACATCACAAAAGACACAATCGATTACCA-GGATAACTATGACGGGTCAGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGCA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTGGGAGAAATCATTGACGGTGTACTTGCTGTTAGTGAGAATCCGGACATTACAATTCCAGAGCTTATGGAAGTCATTCCAGGGCCTGATTTCCCGACCGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCAGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCGGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATTG-AG-AAAATTGC-TGATCTC--GTAAGGGACAAA-AAGAT-AGA-GGGTAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCGAAT-G-TTATCTT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGCATCAA-CCTGCTTGCGCT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>PE10b

------------------------------------------------GTTATCGTGTCCCGTGCTCTTCCGGATGTT-CGTGACGGTTT-AAAACCGG--TTCATAG-AC-GGA-TTTTGTAT-GCA-A-TGAA-TGA-T-TT-AGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCTCAGGATTTC-AACTA-CCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCGGCCATGCGTTATACAGAAGCACGAATGTCTAAAATCTCAATGGAGATTCTTCGCGACATCACAAAAGACACAATCGATTACCA-GGATAACTATGACGGGTCAGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGCA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTGGGAGAAATCATTGACGGTGTACTTGCTGTTAGTGAGAATCCGGACATTACAATTCCAGAGCTTATGGAAGTCATTCCAGGGCCTGATTTCCCGACCGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCAGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCGGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATTG-AG-AAAATTGC-TGATCTC--GTAAGGGACAAA-AAGAT-AGA-GGGTAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCGAAT-G-TTATCTT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGCATCAA-CCTGCTTGCGCT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>PE11

------------------------------------------------GTTATTGTGTCCCGTGCTCTTCCAGATGTA-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTGTAT-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-AT---AT-AAAAAA-TCCGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-CCGTTACATGCTCGTT-GACGGTCACGGGAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGATGGGTCAGAAAGAGAACCCGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATCCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCTGAGCTGATGGAAGTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATTACGATTCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-TAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCGCT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>PE12

------------------------------------------------GTTATTGTGTCCCGTGCTCTTCCAGATGTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAA-TCTGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTACATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCGGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGGA-TTGCGGTAGGTATGGCAACAAATATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGCGTACTTGCGGTCAGTGAGAACCCGGACATTACAATCCAGGAGCTGATGGAAGTCATTCCGGGTCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-TGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATAG-AG-AAAATTGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTT-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GGTAAT-G-TTATTCT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>PE13

---------------------------------------------------------------------------------------------------------------------------------G----------T--------------------G-----------------------AC----------------------------------------------------T-----CA-------------GCGG-TTTACGAAT-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-CCGCTACATGCTTGTT-GACGGACACGGCAACTTCGG-TTCGGTTGACGGCGACTCAGCGGCCGCGATGCGTTACACAGAAGCGAGAATGTCAAAAATCGCAATGGAAATTCTGCGTGACATTACGAAAGACACGATTGACTATCA-AGATAACTATGACGGTTCAGAAAGAGAGCCTGCCGTCATGCC-TTCGAGATTTCCGAATCTGCTCGTAAACGGGGCTGCCGGTA-TTGCGGTCGGAATGGCGACAAACATTCCCCCGCATCAGCTTGGGGAAGTCATTGAAGGCGTGCTTGCCGTAAGTGAGAATCCTGAGATTACAAACCAGGAGCTGATGGAATACATCCCGGGCCCGGATTTTCCGACTGCAGGTCAGATTTTGGG-CCGGAGCGGCATCCGC-AAGGCATATGAATCCGGACGGGGATCAATCACGATCCGGGCTAAGGCTGAAAT-CGAAGAGACTTCATCGGGAAAA-GAAAG-AATTATTGT--------------------------------------------------------------------------------------------------CACGGA--ACTT-C-----------C-----------T-----TAT-C--AG----------------------------------------------G-T-------GA-----------A-CAA----------------------------AG-----C------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>PE13b

---------------------------------------------------------------------------------------------------------------------------------G----------T--------------------G-----------------------AT----------------------------------------------------T-----CA-------------GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGGGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCAATGGAGATTCTTCGAGACATCACAAAAGACACAATCGATTATCA-GGATAACTATGACGGATCAGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTTCCGAATCTGCTCGTAAACGGTGCTGCGGGAA-TTGCGGTAGGTATGGCAACAAACATTCCTCCACACCAGCTGGGAGAAGTTATTGACGGTGTACTTGCTGTCAGTGAAAATCCTGAAATCACAATACAGGATCTTATGGAGGTTATTCCAGGTCCTGACTTCCCGACTGCGGGTCAAATCTTAGG-ACGCAGTGGCATCCGA-AAAGCATACGAAACTGGCCGAGGCTCTATCACAATCCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCAGGTAAA-GAAG--AATTATCGT-TACAGAGTTA-CCTTACC----------------------------AA------------------------------------------------------------------------------------------------G--------------------------------------------------T---------AA-----------A-TAA----------------------------------GC------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>PE14

------------------------------------------------GTTATTGTGTCCCGGGCTCTTCCGGATGTT-CGTGACGGTTT-ACAACCGG--TTCATAG-AC-GGA-TTTTGTAT-GCA-A-TGAA-CGA-T-TT-GGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCACGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--TGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGGGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCAATGGAGATCCTTCGAGACATCACAAAAGACACAATCGATTATCA-GGATAACTATGACGGATCAGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTAAACGGTGCTGCGGGAA-TTGCGGTAGGTATGGCAACAAACATTCCTCCACACCAGCTGGGAGAAGTTATTGACGGTGTACTTGCTGTCAGTGAAAATCCTGAAATCACAATACAGGATCTTATGGAGGTTATTCCAGGTCCTGACTTCCCGACTGCGGGTCAAATCTTAGG-ACGCAGTGGCATCCGA-AAAGCATACGAAACTGGCCGAGGCTCTATCACAATCCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAACTA-ATCG-AG-AAGATTGC-TGATCTT--GTAAGGGACAAG-AAGAT-AGA-GGGTAT-TACAGA--TCTG-CGTG--ATGAATC-AG-ACCGTA-C-AGG-AAT-G--AG-AGTT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTTT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TTTGC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>PE16

------------------------------------------------GTTATCGTATCCCGGGCGCTTCCGGATGTG-CGTGACGGTCT-GAAGCCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-AGG---CATG-AC---C--AGTGAC----AAGCC-AT---AT-AAAAAA-TCTGCCCGTATCG-TC-GGTG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--CGGTGATTCA-GCGG-TTTACGAAT-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-CCGCTACATGCTTGTT-GACGGACACGGCAACTTCGG-TTCGGTAGACGGCGACTCAGCGGCTGCGATGCGTTATACAGAAGCGAGAATGTCAAAAATCGCAATGGAAATTCTGCGTGACATTACGAAAGACACGATTGACTATCA-AGACAACTATGACGGTTCAGAAAGAGAACCAGCCGTCATGCC-TTCAAGATTTCCGAATCTGCTCGTGAACGGGGCTGCCGGTA-TTGCGGTCGGAATGGCGACAAACATTCCTCCGCATCAGCTTGGGGAAGTCATTGACGGCGTGCTTGCCGTAAGTGAAAATCCAGAGATTACAATCCAAGAGCTGATGGAATACATCCCGGGACCGGATTTCCCGACGGCCGGCCAGATTTTAGG-CCGGAGCGGCATCCGT-AAGGCATATGAATCCGGACGGGGATCCATTACGATCCGGGCTAAGGCTGAAAT-CGAACAGACATCATCAGGAAAA-GAAAG-AATTATTGT-CACGGAACTT-CCTTATC-AGGTGAACAA-GGCGAGATTA-ATTG-AA-AAAATCGC-AGATCTT--GTCCGGGACAAA-AAAAT-CGA-AGGAAT-TACCGA--TCTG-CGTG--ACGAATC-CG-ACCGTA-A-CGG-AAT-G--AG-AGTC-GTCA-TTG-AGCTC-CGCC-GTGACG-CCAAT-GCTCAC-G-TCATTTT-GA-----------A-TAA-CCTGTA--CAAACA-------------AA--CGGC----------------TCTGC--AGA-CGTC----TTTCGGAATCAA-CCTGCTGGCGCT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>PE17

------------------------------------------------GTTATTGTTTCCCGTGCTCTTCCTGATGTA-AGAGACGGACT-GAAGCCGG--TGCATAG-AA-GAA-TTTTGTAC-GCG-A-TGAA-TGA-C-CT-TGG---GATG-AC---A--AGCGAC----AAACC-AT---AC-AAAAAA-TCTGCCCGGATTG-TC-GGCG-AAGTTATT-GGTAAGTACCA--T-CCG-CA--CGGTGATTCT-GCCG-TTTACGAAG-CGATGGTCAGGATGGCCCAGGATTTC-AACTA-TCGCTATATGCTTGTT-CAAGGCCATGGGAACTTCGG-TTCTGTCGATGGCGATTCAGCAGCTGCGATGCGTTATACAGAAGCGAGAATGTCGAAAATATCCATGGAAATCCTGCGCGACATCAACAAGGATACGATTGACTATCA-AGACAACTATGACGGATCTGAAAGAGAACCGATTGTCATGCC-TGCCAGATTTCCAAACCTGTTGGTTAACGGTGCAGCCGGGA-TTGCAGTCGGAATGGCGACAAATATCCCGCCGCATCAACTTGGCGAAGTCGTTGACGGGGTTTTGGCAGTCAGCAAGAACCCTGATATTTCGCTTGCGGAATTGATGGAAATCATCCCGGGCCCTGATTTCCCGACGGCAGGTTTGATCTTGGG-AAGAAGCGGAATCCGC-AAAGCTTATGAAACAGGCCGCGGATCGATTACGCTTCGAGCCAAAGCGCAAAT-TGAAGAAACATCATCCGGCAAA-CCGGT-TATCATTGT-TACGGAAATA-CCGTATC-AGGTGAATAA-AGCAAAACTG-ATTG-AA-AAAATCGC-TGATCTT--GTCCGCGACAAG-AAAAT-CGA-GGGCAT-TACAGA--TCTT-CGCG--ATGAATC-AG-ACCGAA-A-CGG-AAT-G--CG-GATT-GTCA-TCG--AGCTGAGAA-GAGACG-CAAAT-GCCAAC-G-TTCTGTT-AA-----------A-TAA-TTTGTA--CAAGCA-------------GA--CCGC----------------ACTTC--AAA-CATC----ATTTGGGATCAA-TCTTTTGGCGCT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>PE18

------------------------------------------------GTTATTGTGTCTCGTGCTCTTCCGGATGTT-CGTGACGGGTT-AAAACCGG--TTCACAG-AC-GGA-TTTTGTAT-GCC-A-TGAA-CGA-T-TT-GGG---CATG-AC---G--AGCGAC----AAGCC-TT---AT-AAAAAA-TCCGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGACTCA-GCGG-TATACGAAT-CCATGGTCAGAATGGCTCAGGACTTC-AACTA-CCGTTATATGCTTGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGCGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACGATCGATTATCA-GGACAACTATGACGGGTCAGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTTGTAAACGGCGCTGCTGGTA-TTGCGGTAGGTATGGCGACAAACATCCCTCCGCACCAGCTTGGAGAAATCATTGATGGCGTACTTGCGGTCAGTGAGAGCCCGGACATTACAATTCAGGAGCTGATGGAGGTCATTCCAGGGCCTGACTTCCCGACTGCGGGCCAAATTCTGGG-ACGCAGCGGTATTCGG-AAAGCATACGAATCTGGCCGAGGCTCTATCACGATTCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCAGGCAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATTG-AG-AAAATTGC-TGATCTT--GTTAGGGATAAG-AAGAT-AGA-GGGCAT-CACAGA--TTTG-CGTG--ATGAATC-AG-ACCGTA-C-AGG-CAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-GA-----------A-CAA-TCTTTA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CATC----TTTTGGTATCAA-CCTGCTTGCACT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>PE25

----------------------------------------------GCGTTATCGTATCCCGGGCGCTTCCGGATGTG-CGTGACGGTCT-GAAGCCGG--TTCACAG-AC-GGA-TTTTGTAC-GCG-A-TGAA-TGA-T-TT-AGG---CATG-AC---C--AGTGAC----AAACC-AT---AT-AAAAAA-TCTGCCCGTATCG-TC-GGTG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--CGGTGACTCA-GCGG-TTTACGAAT-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGCTACATGCTTGTT-GACGGACACGGCAACTTCGG-TTCGGTTGACGGCGACTCAGCGGCCGCGATGCGTTACACAGAAGCGAGAATGTCAAAAATCGCAATGGAAATCCTTCGGGACATTACGAAAGATACGATTGATTATCA-AGATAACTATGACGGCGCAGAAAGAGAACCTGTCGTCATGCC-TTCGAGATTTCCGAATCTGCTCGTCAACGGAGCTGCCGGTA-TTGCGGTCGGAATGGCGACAAATATTCCTCCGCATCAGCTTGGGGAAGTCATTGAAGGCGTGCTTGCCGTAAGTGAGAATCCTGAGATTACAAACCAGGAGCTGATGGAATACATCCCGGGCCCGGATTTTCCGACTGCAGGTCAGATTTTAGG-CCGGAGCGGCATCCGC-AAGGCATATGAATCCGGACGGGGATCCATTACGATCCGGGCTAAGGCTGAAAT-CGAAGAGACATCATCGGGAAAA-GAAAG-AATTATTGT-CACGGAACTT-CCTTATC-AGGTGAACAA-AGCGAGATTA-ATTG-AA-AAAATCGC-AGATCTT--GTCCGGGACAAA-AAAAT-CGA-AGGAAT-TACGGA--TCTG-CGTG--ACGAATC-CG-ACCGTA-A-CGG-AAT-G--AG-AATC-GTCA-TTG-AGATT-CGCC-GTGACG-CCAAT-GCTCAC-G-TCATTTT-GA-----------A-TAA-CCTGTA--CAAACA-------------AA--CGGC----------------CCTGC--AGA-CGTC----TTTCGGAATCAA-CCTGCTGGCGCT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>PE25b

----------------------------------------------GCGTTATCGTATCCCGGGCGCTTCCGGATGTG-CGTGACGGTCT-GAAGCCGG--TTCACAG-AC-GGA-TTTTGTAC-GCG-A-TGAA-TGA-T-TT-AGG---CATG-AC---C--AGTGAC----AAACC-AT---AT-AAAAAA-TCTGCCCGTATCG-TC-GGTG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--CGGTGACTCA-GCGG-TTTACGAAT-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGCTACATGCTTGTT-GACGGACACGGCAACTTCGG-TTCGGTTGACGGCGACTCAGCGGCCGCGATGCGTTACACAGAAGCGAGAATGTCAAAAATCGCAATGGAAATCCTTCGGGACATTACGAAAGATACGATTGATTATCA-AGATAACTATGACGGCGCAGAAAGAGAACCTGTCGTCATGCC-TTCGAGATTTCCGAATCTGCTCGTCAACGGAGCTGCCGGTA-TTGCGGTCGGAATGGCGACAAATATTCCTCCGCATCAGCTTGGGGAAGTCATTGAAGGCGTGCTTGCCGTAAGTGAGAATCCTGAGATTACAAACCAGGAGCTGATGGAATACATCCCGGGCCCGGATTTTCCGACTGCAGGTCAGATTTTAGG-CCGGAGCGGCATCCGC-AAGGCATATGAATCCGGACGGGGATCCATTACGATCCGGGCTAAGGCTGAAAT-CGAAGAGACATCATCGGGAAAA-GAAAG-AATTATTGT-CACGGAACTT-CCTTATC-AGGTGAACAA-AGCGAGATTA-ATTG-AA-AAAATCGC-AGATCTT--GTCCGGGACAAA-AAAAT-CGA-AGGAAT-TACGGA--TCTG-CGTG--ACGAATC-CG-ACCGTA-A-CGG-AAT-G--AG-AATC-GTCA-TTG-AGATT-CGCC-GTGACG-CCAAT-GCTCAC-G-TCATTTT-GA-----------A-TAA-CCTGTA--CAAACA-------------AA--CGGC----------------CCTGC--AGA-CGTC----TTTCGGAATCAA-CCTGCTGGCGCT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>PE26

----------------------------------------------GCGTTATCGTATCCCGGGCGCTTCCGGATGTG-CGTGACGGTCT-GAAGCCGG--TTCACAG-AC-GGA-TTTTGTAC-GCA-A-TGAA-TGA-T-TT-AGG---CATG-AC---C--AGTGAC----AAACC-AT---AT-AAAAAA-TCTGCCCGTATCG-TC-GGTG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--CGGTGACTCA-GCGG-TTTACGAAT-CAATGGTCAGAATGGCGCAGGATTTT-AACTA-CCGCTACATGCTTGTT-GACGGACACGGCAACTTCGG-TTCGGTTGACGGCGACTCAGCGGCCGCGATGCGTTACACAGAAGCGAGAATGTCAAAAATCGCAATGGAAATTCTGCGTGACATTACGAAAGACACGATTGACTATCA-AGATAACTATGACGGTTCAGAAAGAGAGCCTGCCGTCATGCC-TTCGAGATTTCCGAATCTGCTCGTAAACGGGGCTGCCGGTA-TTGCGGTCGGAATGGCGACAAACATTCCTCCCCATCAGCTTGGAGAAGTCATTGAAGGCGTGCTTGCCGTAAGTGAGAATCCTGAGATTACAAACCAGGAGCTGATGGAATACATCCCGGGCCCGGATTTTCCGACTGCTGGTCAGATTTTGGG-CCGGAGCGGCATCCGC-AAGGCATATGAATCCGGACGGGGATCAATCACAATCCGGGCTAAGGCTGAAAT-CGAAGAGACATCATCAGGAAAA-GAAAG-AATTATTGT-TACGGAACTT-CCTTATC-AGGTGAACAA-AGCGAGATTA-ATTG-AA-AAAATCGC-AGATCTT--GTCCGGGACAAA-AAAAT-CGA-AGGAAT-TACCGA--CCTG-CGAG--ACGAATC-CG-ACCGTA-A-CGG-AAT-G--AG-AATC-GTCA-TTG-AGATC-CGCC-GTGACG-CCAAT-GCTCAC-G-TCATTTT-GA-----------A-TAA-CCTGTA--CAAACA-------------AA--CGGC----------------CCTGC--AGA-CGTC----TTTCGGAATCAA-CCTGCTGGCGCT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>PE8

------------------------------------------------GTTATCGTATCCCGGGCTCTTCCGGATGTC-CGTGACGGTTT-AAAACCAG--TTCACAG-AC-GGA-TTTTGTAC-GCG-A-TGAA-TGA-T-CT-GGG---AATG-AC---C--AGTGAC----AAGGC-GT---AT-AAAAAA-TCTGCGCGTATTG-TC-GGAG-AAGTTATC-GGTAAGTACCA--C-CCT-CA--CGGGGATTCC-GCAG-TATATGAAT-CCATGGTCAGGATGGCGCAGGACTTC-AACTA-CCGTTATATGCTTGTC-GACGGTCATGGAAACTTTGG-TTCTGTAGACGGAGACTCAGCCGCTGCGATGCGGTACACCGAAGCCAGAATGTCTAAGATCGCCATGGAAATTCTGCGAGACATTACAAAAGACACGATTGATTATCA-AGATAACTATGATGGTTCAGAGAGAGAACCTGTTGTCATGCC-GTCAAGATTCCCAAACCTGCTTGTAAATGGAGCAGCCGGTA-TTGCAGTCGGAATGGCTACAAATATACCGCCGCACCAGCTTGGAGAAATTATTGACGGAGTGCTTGCCGTAAGCGAGAACAAGGACATACCAATCCAAGAGCTGATGGAATTCATTCCTGGGCCGGATTTCCCGACTGCCGGACAAATTTTAGG-CAGAAGCGGAATCCGC-AAGGCGTATGAATCCGGAAGAGGTTCTATTACGATTCGGGCAAAAGCAGAAAT-TGAAGAAACACCGTCAGGGAAA-GAAAG-AATTTTAGT-AACAGAACTC-CCTTACC-AGGTGAATAA-AGCGCGTCTA-ATTG-AG-AAGATTGC-TGATCTT--GTCAGGGATAAG-AAAAT-TGA-AGGAAT-AACTGA--TTTG-CGTG--ATGAGTC-TG-ACCGTA-A-CGG-TAT-G--CG-GATT-GTCA-TTG-AAATC-AGAC-GAGATG-CCAAT-GCACAT-G-TTATCCT-GA-----------A-CAA-TCTGTA--CAAACA-------------AA--CGGC----------------CCTGC--AAA-CTTC----CTTCGGGATTAA-CCTGCTGGCGCT------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>PE17b

---------------------------------------------------------------------------------------------------------------------------------G----------T--------------------G-----------------------AT------------------------------------TC--------------T--------------------GCTG-TTTACGAAG-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCATGGAAACTTCGG-TTCTGTTGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGTTCGGAAAAAGAGCCGGTTGTTATGCC-TGCGAGATTTCCGAACTTGCTTGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGTGTTTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAGATCATTCCTGGACCCGACTTCCCTACAGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGA-AAGGCCTATGAAACAGGCCGGGGATCAATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTAT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-----------------------------CGA----------------TCT----------------AG--------T---------G--CG---------------------------------C------------G----------------------A-TAA----------------------------GA-----------------------------AAATCG-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>PE19

---------------------------------------------------------------------------GTT-CGTGACGGTTT-AAAACCGG--TTCATAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-AGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAG-TCTGCTCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-CCGTTATATGCTAGTT-GACGGCCACGGAAACTTCGG-TTCTGTTGACGGGGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATTTCGATGGAAATACTGCGAGACATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGATCGGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTAAACGGTGCTGCCGGCA-TTGCGGTTGGTATGGCAACAAACATTCCTCCGCACCAGCTCGGTGAAATTATTGACGGCGTACTTGCGGTCAGTGAGAATCCGGATATTACAATTCAAGAGCTGATGGAAGTCATCCCAGGTCCTGATTTCCCGACTGCTGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATATGAATCCGGCCGAGGCTCTATTACAATTCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCAGGTAAA-GAACG-AATTATCGT-TACCGAGATT-CCTTACC-AAGTAAACAA-GGCAAAATTA-ATCG-AA-AAAATCGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAATC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-GA-----------A-CAA-CCTATA--TAAACA-------------AA--CTGC----------------TCTTC--AAA-CATC----TTTTGGCATTAA-CCTGCTTGCAC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>PE19b

---------------------------------------------------------------------------GTT-CGTGACGGTTT-AAAACCGG--TTCATAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-AGG---CATG-AC---G--AGTGAC----AAGCC-TT---AT-AAAAAG-TCTGCTCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-CCGTTATATGCTAGTT-GACGGCCACGGAAACTTCGG-TTCTGTTGACGGGGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATTTCGATGGAAATACTGCGAGACATCACAAAAGACACAATCGATTATCA-GGACAACTATGACGGATCGGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTAAACGGTGCTGCCGGCA-TTGCGGTTGGTATGGCAACAAACATTCCTCCGCACCAGCTCGGTGAAATTATTGACGGCGTACTTGCGGTCAGTGAGAATCCGGATATTACAATTCAAGAGCTGATGGAAGTCATCCCAGGTCCTGATTTCCCGACTGCTGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATATGAATCCGGCCGAGGCTCTATTACAATTCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCAGGTAAA-GAACG-AATTATCGT-TACCGAGATT-CCTTACC-AAGTAAACAA-GGCAAAATTA-ATCG-AA-AAAATCGC-TGATCTC--GTTAGGGACAAG-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAATC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-GA-----------A-CAA-CCTATA--TAAACA-------------AA--CTGC----------------TCTTC--AAA-CATC----TTTTGGCATTAA-CCTGCTTGCAC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>PE1

---------------------------------------------------------------------------------------------------------------------------------G----------T--------------------G-----------------------AT----------------------TC----------------------------T--------------------GCCG-TTTACGAAT-CCATGGTCAGAATGGCGCAGGACTTT-AACTA-TCGGTATATGCTCGTT-CAAGGCCATGGAAACTTTGG-TTCTGTCGATGGCGATTCGGCTGCGGCTATGCGTTATACAGAAGCGAGAATGTCGAAAATATCCATGGAAATTCTGAGAGATATTAATAAAGACACGATCGATTATCA-GGACAACTATGACGGATCTGAAAGAGAACCGATTGTCATGCC-TGCCAGATTTCCAAATCTGCTTGTCAATGGAGCTGCCGGGA-TAGCAGTAGGTATGGCGACAAACATTCCGCCTCACCAGCTCGGTGAAATTATTGACGGTGTATTGGCTGTCAGCAAGAACCCTGAGATGACGCTCGCAGAATTGATGGAAATCATTCCGGGGCCGGACTTCCCGACAGCAGGGATGATCATGGG-CAGAAGCGGAATCCGT-AAAGCCTATGAAACAGGCAGGGGTTCAATCACGATTCGGGCCAAAGCTCAAAT-CGAAGAAACATCCTCTGGCAAA----------------------------------C----------------------------AG-------------------GTC----------ATCAT--------CAT-TACGGA-------------A-------AT-ACCGTA-C---------C--AG----------------------------------------------G-T-------GA-----------A-TAA----------------------------AG-----C------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>PE1b

---------------------------------------------------------------------------------------------------------------------------------G----------T--------------------G-----------------------AT----------------------TC----------------------------T--------------------GCCG-TTTACGAAT-CCATGGTCAGAATGGCGCAGGACTTT-AACTA-TCGGTATATGCTCGTT-CAAGGCCATGGAAACTTTGG-TTCTGTCGATGGCGATTCGGCTGCGGCTATGCGTTATACAGAAGCGAGAATGTCGAAAATATCCATGGAAATTCTGAGAGATATTAATAAAGACACGATCGATTATCA-GGACAACTATGACGGATCTGAAAGAGAACCGATTGTCATGCC-TGCCAGATTTCCAAATCTGCTTGTCAATGGAGCTGCCGGGA-TAGCAGTAGGTATGGCGACAAACATTCCGCCTCACCAGCTCGGTGAAATTATTGACGGTGTATTGGCTGTCAGCAAGAACCCTGAGATGACGCTCGCAGAATTGATGGAAATCATTCCGGGGCCGGACTTCCCGACAGCAGGGATGATCATGGG-CAGAAGCGGAATCCGT-AAAGCCTATGAAACAGGCAGGGGTTCAATCACGATTCGGGCCAAAGCTCAAAT-CGAAGAAACATCCTCTGGCAAA----------------------------------C----------------------------AG-------------------GTC----------ATCAT--------CAT-TACGGA-------------A-------AT-ACCGTA-C---------C--AG----------------------------------------------G-T-------GA-----------A-TAA----------------------------AG-----C------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>PE20

---------------------------------------------------------------------------GTT-CGAGACGGTTT-AAAACCGG--TTCATAG-AC-GGA-TTTTGTAT-GCA-A-TGAA-TGA-T-TT-AGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCTCAGGATTTC-AACTA-CCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCGGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCAATGGAGATTCTTCGCGACATCACAAAAGACACAATCGATTACCA-GGATAACTATGACGGGTCAGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGCA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTGGGAGAAATCATTGATGGTGTACTTGCTGTCAGTGAGAATCCGGACATTACCATTCCAGAGCTTATGGAAGTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCAGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCGGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATTG-AG-AAAATTGC-TGATCTC--GTAAGGGACAAA-AAGAT-AGA-GGGTAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TCATCTT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGCATCAA-CCTGCTTGCAC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>PE20b

---------------------------------------------------------------------------GTT-CGAGACGGTTT-AAAACCGG--TTCATAG-AC-GGA-TTTTGTAT-GCA-A-TGAA-TGA-T-TT-AGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCTCAGGATTTC-AACTA-CCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCGGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCAATGGAGATTCTTCGCGACATCACAAAAGACACAATCGATTACCA-GGATAACTATGACGGGTCAGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGCA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTGGGAGAAATCATTGATGGTGTACTTGCTGTCAGTGAGAATCCGGACATTACCATTCCAGAGCTTATGGAAGTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCAGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCGGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATTG-AG-AAAATTGC-TGATCTC--GTAAGGGACAAA-AAGAT-AGA-GGGTAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TCATCTT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGCATCAA-CCTGCTTGCAC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>PE21

---------------------------------------------------------------------------GTT-CGAGACGGTTT-GAAACCGG--TTCATAG-AC-GGA-TTTTGTAT-GCA-A-TGAA-TGA-T-TT-AGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCTCAGGATTTC-AACTA-CCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCGGCCATGCGTTATACAGAAGCACGAATGTCTAAAATCTCAATGGAGATTCTTCGCGACATCACAAAAGACACAATCGATTACCA-GGATAACTATGACGGGTCAGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGCA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTGGGAGAAATCATTGATGGTGTACTTGCTGTCAGTGAGAATCCGGACATTACAATTCCAGAACTTATGGAAGTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCAGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCGGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATTG-AG-AAAATTGC-TGATCTC--GTAAGGGACAAA-AAGAT-AGA-GGGTAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCGAAT-G-TCATCTT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGCATCAA-CCTGCCTGCAC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>PE22

---------------------------------------------------------------------------GTT-CGTGACGGTTT-AAAACCGG--TTCACAG-AC-GGA-TTTTATAC-GCA-A-TGAA-TGA-T-TT-GGG---CATG-AC---A--AGTGAC----AAACC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCTCAGGATTTC-AACTA-CCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCGGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCAATGGAGATTCTTCGTGACATCACAAAAGACACAATCGATTACCA-GGATAACTATGACGGGTCAGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGCA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTGGGAGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAATCCGGACATTACAATTCCAGAGCTTATGGAAGTCATTCCAGGGCCTGATTTCCCGACCGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCAGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCGGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATTG-AG-AAAATTGC-TGATCTC--GTAAGGGACAAA-AAGAT-AGA-GGGTAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCGAAT-G-TCATCTT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGCATCAA-CCTGCTTGCAC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>PE22b

----------------------------------------------------------------------------------------------------------------------------------------TTA-T-----------------------------------------------AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCTCAGGATTTC-AACTA-CCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCGGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCAATGGAGATTCTTCGTGACATCACAAAAGACACAATCGATTACCA-GGATAACTATGACGGGTCAGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGCA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTGGGAGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAATCCGGACATTACAATTCCAGAGCTTATGGAAGTCATTCCAGGGCCTGATTTCCCGACCGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCAGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCGGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATTG-AG-AAAATTGC-TGATCTC--GTAAGGGACAAA-AAGAT-AGA-GGGTAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCGAAT-G-TCATCTTAAACAATCTGTACAAACAAACTGCTCTACAAACA-TCTTTTGGCATCAA-CCTGCTTGCACTTGTTGATGGCCAGC--CGA-AAGTTTTAACTCTTAAGCAATGTTTGGAGCATTACCTTG-ACCATCAAAAAGTGGTCATTAGACGCCGTACTGCTTATGAATTGCGTAAAGCAGAAGCGAGAGCTCATATCTTGGAAGGATTGAGAGTTGCACTGGATCATCTCGATGCAGTTATCTCCCTTATCCGTAATTCTCAAACGGCTGAAATTGCGAGAACAGGCTTAATTGAACAATTCTCACTGACAGAGAAGCAAGCACAAGCGATCCTTGACATGAGGCTCCAGCGTTTAACGGGACTGGAACGTGAAAAGATTGAAGAAGAATACCAATCTCTTGTTAAATTAATTGCAGAGCTAAAAGACATCTTGGCAAATGAATATAAAGTGCTTGAGATCATTCGTGAAGAACTCACGGAAATCAAAGAGCGTTTTAACGATGAAAGACGTACTGAGATTGTCACTTCTGGACTGGAGACAA--

>PE23b

---------------------------------------------------------------------------GTT-CGAGACGGTTT-AAAACCGG--TTCATAG-AC-GGA-TTTTGTAT-GCA-A-TGAA-TGA-T-TT-AGG---CATG-AC---A--AGTGAC----AAGCC-TT---AT-AAAAAA-TCCGCGCGTATCG-TC-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCTCAGGATTTC-AACTA-CCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCGGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCAATGGAGATTCTTCGCGACATCACAAAAGACACAATCGATTACCA-GGATAACTATGACGGGTCAGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGCA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTGGGAGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAATCCGGACGTTACAATTCCAGAGCTTATGGAAGTCATTCCAGGGCCTGATTTCCCGACCGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCAGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCGGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATTG-AG-AAAATTGC-TGATCTC--GTAAGGGACAAA-AAGAT-AGA-GGGTAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCGAAT-G-TCATCTT-AA-----------A-CAA-TCTGTA--CAAACA-------------AA--CTGC----------------TCTAC--AAA-CATC----TTTTGGCATCAA-CCTGC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>PE27

---------------------------------------------------------------------------GTT-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCACAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CAGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>PE28

---------------------------------------------------------------------------GTT-CGTGATGGTTT-AAAGCCGG--TTCATAG-AC-GGA-TTTTGTAT-GCT-A-TGAA-TGA-T-TT-GGG---GATG-AC---G--AGTGAT----AAGGC-TT---AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCGCAGGATTTC-AACTA-TCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCTGCCATGCGTTATACAGAAGCAAGAATGTCTAAGATCTCGATGGAAATTCTTCGAGATATCACAAAAGACACAATTGATTATCA-GGATAACTATGATGGGTCAGAAAGAGAACCTGTTGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGTA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTTGGGGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAACCCGGACATTACAATCCCGGAGCTTATGGAATTCATTCCAGGGCCTGATTTCCCGACTGCGGGTCAAATCTTGGG-ACGAAGCGGTATACGG-AAGGCATACGAATCTGGCCGAGGCTCAATTACAATTCGAGCAAAAGCTGAGAT-CGAACAAACGTCTTCAGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATCG-AG-AAAATTGC-TGATCTC--GTTAGAGACAAA-AAGAT-AGA-GGGCAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGATG-CCAAT-GCAAAT-G-TTATTCT-AA-----------A-CAA-CCTATA--CAAACA-------------AA--CTGC----------------GCTAC--AAA-CGTC----TTTTGGTATCAA-CCTGCTTGCGC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>PE29

---------------------------------------------------------------------------GTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCA-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATCG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATCCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGATAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTAATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGACTGATCTTGGG-GAGAAGCGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGCTCCATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCT-TTGGCGC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>PE2

-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------GTGATTCT-GCTG-TTTACGAAG-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTTATGCC-CGCGAGATTTCCAAACCTGCTTGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATTCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGAAATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGATTTCCCAACAGCAGGGCTGATCTTGGG-GAGAAGCGGCATCCGG-AAAGCCTATGAAACAGGCCGGGGATCCATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATAAT-TACGGAAATA-CCGTATC-AGGTGAATAA-AGC----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>PE2b

-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------GTGATTCT-GCTG-TTTACGAAA-GCCATGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCAAACCTGCTTGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATTCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGAAATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGATTTCCCAACAGCAGGGCTGATCTTGGG-GAGAAGCGGCATCCGG-AAAGCCTATGAAACAGGCCGGGGATCCATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGTAAA-CCGGT-AATCATAAT-TACGGAAATA-CCGTATC-AGGTGAATAA-AGC----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>PE31

---------------------------------------------------------------------------GTT-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTCGGCGC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>PE31b

---------------------------------------------------------------------------GTT-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAGAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCG-CA--TGGTGATTCT-GCTG-TTTACGAAG-CGATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGTGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCGGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAATGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGGGTCTTGGCGGTCAGCAAGAACCCTGATATCACGCTTCCGGAATTGATGGAAATCATTCCTGGACCTGACTTCCCTACTGCAGGGCTGATCTTGGG-GAGAAGTGGTATCCGC-AAAGCCTATGAAACAGGCCGGGGTTCCATTACGCTTCGAGCCAAAGCTCAAAT-TGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTGT-TACGGAAATA-CCGTACC-AGGTGAATAA-AGCAAGGCTG-ATCG-AA-AAGATCGC-CGATCTG--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-TAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGACG-CAAAT-GCTAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>PE32

----------------------------------------------------------------------------------------------------------------------------------------------TT-----------------------------------------AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCTCAGGATTTC-AACTA-CCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCGGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCAATGGAGATTCTTCGTGACATCACAAAAGACACAATCGATTACCA-GGATAACTATGACGGGTCAGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGCA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTGGGAGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAATCCGGACATTACAATTCCAGAGCTTATGGAAGTCATTCCAGGGCCTGATTTCCCGACCGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCAGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCGGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTAAATAA-GGCGAAATTA-ATTG-AG-AAAATTGC-CGATCTC--GTAAGGGACAAA-AAGAT-AGA-GGGTAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGACG-CCAAT-GCAAAT-G-TCATCTTAAACAATCTGTACAAACAAACTGCTCTACAAACATCTTTTGGCATCAAC--CTGCTTGCACTTGTTGATGGCCAGCCGAAA-GTTTTAACTCTTA--AGCAATGCCTAGAGCATTACCTCG-ACCATCAAAAAGTTGTCATTAGACGCCGTACTGCTTATGAATTGCGTAAAGCGGAAGCGAGAGCTCATATCCTGGAAGGATTGAGAGTTGCACTGGATCATCTCGATGCAGTTATCTCCCTTATCCGTAATTCTCAAACGGCTGAAATTGCGAGAACAGGTTTAATTGAACAATTCTCACTGACAGAGAAGCAAGCACAAGCGATCCTTGATATGAGGCTCCAGCGTTTAACGGGACTGGAACGTGAAAAGATAGAAGAAGAATACCAATCTCTTGTTAAATTAATTGCAGAGCTAAAAGACATCTTGGCAAATGAATATAAAGTGCTTGAGATCATTCGTGAAGAACTCACGGAAATCAAAGAGCGTTTTAACGATGAAAGACGTACTGAGATCGTCACTTCCGGACTGGAGACAA--

>PE32b

----------------------------------------------------------------------------------------------------------------------------------------------TT-----------------------------------------AT-AAAAAA-TCCGCGCGTATCG-TT-GGAG-AAGTTATC-GGGAAATACCA--C-CCG-CA--CGGTGATTCA-GCGG-TATATGAAT-CCATGGTCAGAATGGCTCAGGATTTC-AACTA-CCGTTATATGCTCGTT-GACGGTCACGGAAACTTCGG-TTCTGTTGACGGAGACTCAGCGGCGGCCATGCGTTATACAGAAGCAAGAATGTCTAAAATCTCAATGGAGATTCTTCGCGACATCACAAAAGACACAATCGATTACCA-GGATAACTATGACGGGTCAGAAAGAGAACCTGTCGTTATGCC-TTCAAGGTTCCCGAATCTGCTCGTGAACGGTGCTGCCGGCA-TTGCGGTAGGTATGGCAACAAACATTCCTCCGCACCAGCTGGGAGAAATCATTGACGGTGTACTTGCTGTCAGTGAGAATCCGGACATTACAATTCCAGAGCTTATGGAAGTCATTCCAGGGCCTGATTTCCCGACCGCGGGTCAAATCTTGGG-ACGCAGCGGTATCCGG-AAAGCATACGAATCAGGCCGAGGCTCTATCACGATCCGGGCAAAAGCTGAGAT-CGAACAAACATCTTCGGGTAAA-GAAAG-AATTATCGT-TACAGAGTTA-CCTTACC-AAGTGAATAA-GGCGAAATTA-ATTG-AG-AAAATTGC-TGATCTC--GTAAGGGACAAA-AAGAT-AGA-GGGTAT-CACAGA--TCTG-CGTG--ATGAGTC-AG-ATCGTA-C-AGG-TAT-G--AG-AATT-GTCA-TTG-AAATC-AGAC-GCGACG-CCAAT-GCAAAT-G-TCATCTTAAACAATCTGTACAAACAAACTGCTCTACAAACATCTTTTGGCATCAAC--CTGCTTGCACTTGTTGATGGCCAGCCGAAA-GTTTTAACTCTTA--AGCAATGCCTAGAGCATTACCTTG-ACCATCAAAAAGTTGTCATTAGACGCCGTACTGCTTATGAATTGCGTAAAGCGGAAGCGAGAGCTCATATCCTGGAAGGATTGAGAGTTGCACTGGATCATCTCGATGCAGTTATCTCCCTTATCCGTAATTCTCAAACGGCTGAAATTGCGAGAACAGGTTTAATTGAACAATTCTCACTGACAGAGAAGCAAGCACAAGCGATCCTTGATATGAGGCTCCAGCGTTTAACGGGACTGGAACGTGAAAAGATAGAAGAAGAATACCAATCTCTTGTTAAATTAATTGCAGAGCTAAAAGACATCTTGGCAAATGAATATAAAGTGCTTGAGATCATTCGTGAAGAACTCACGGAAATCAAAGAGCGTTTTAACGATGAAAGACGTACTGAGATCGTCACTTCTGGACTGGAGACAA--

>PE3

-----------------------------------------------------------------------------------------------------------------------------GTG-A----------T----------------------------------------------------------------------------------TC--------------T--------------------GCTG-TTTACGAAG-CTATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCTGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACGAACATTCCGCCGCATCAGCTTGGTGAAGTCATTGACGGAGTCTTGGCGGTCAGCAAGAACCCTGATATTACGCTGCCGGAATTGATGGAAATCATTCCTGGACCTGATTTCCCTACAGCAGGGCTGATTTTGGG-AAGAAGCGGCATCCGG-AAAGCCTATGAAACAGGCCGGGGATCCATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGCAAA----------------------------CC-----------------G------GTA-ATCA-----------------------TT------------------------AT-TACGGA-------------A-------AT-ACCGTA-C-CAG-----G----------------TG----------------------------AAT------------------------A--------------------------------AA----GC------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>PE3b

---------------------------------------------------------------------------------------------------------------------------------G----------T--------------------G-----------------------AT------------------------------------TC--------------T--------------------GCTG-TTTACGAAG-CTATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCACGGAAACTTCGG-TTCTGTCGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGATCGGAAAAAGAGCCTGTTGTCATGCC-CGCGAGATTTCCGAACCTGCTTGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACGAACATTCCGCCGCATCAGCTTGGTGAAGTCATTGACGGAGTCTTGGCGGTCAGCAAGAACCCTGATATTACGCTGCCGGAATTGATGGAAATCATTCCTGGACCTGATTTCCCTACAGCAGGGCTGATTTTGGG-AAGAAGCGGCATCCGG-AAAGCCTATGAAACAGGCCGGGGATCCATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGCAAA----------------------------CC-----------------GG------TA-ATCA-------------T-------------------------T---------AT-TACGGA-------------A-------AT-ACCGTA-C---------C--AG----------------------------------------------G-T-------GA-----------A-TAA----------------------------AG-----C------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>PE5b

---------------------------------------------------------------------------GTA-AGAGACGGTCT-GAAGCCGG--TGCACAG-AA-GAA-TATTGTAT-GCG-A-TGAA-CGA-C-CT-TGG---GATG-AC---A--AGTGAT----AAGCC-GT---AT-AAAAAA-TCCGCGCGTATTG-TC-GGCG-AAGTTATC-GGTAAGTACCA--C-CCT-CA--CGGTGATTCT-GCTG-TTTACGAAG-CCATGGTCAGAATGGCGCAGGATTTT-AACTA-TCGGTACATGCTCGTT-CAAGGCCATGGAAACTTCGG-TTCTGTTGACGGCGACTCGGCTGCGGCCATGCGTTACACAGAAGCGAGAATGTCTAAAATATCAATGGAAATTCTGCGCGACATCAATAAAGACACAATCGATTACCA-GGACAACTATGACGGTTCGGAAAAAGAGCCGGTTGTTATGCC-TGCGAGATTTCCGAACTTGCTTGTCAACGGAGCGGCCGGTA-TTGCTGTAGGTATGGCCACAAACATCCCGCCGCATCAGCTCGGTGAAGTCATTGACGGTGTTTTGGCGGTCAGCAAAAACCCTGATATCACGCTTCCGGAATTGATGGAGATCATTCCTGGACCCGACTTCCCTACAGCAGGGCTGATCTTGGG-AAGAAGCGGTATCCGA-AAGGCCTATGAAACAGGCCGGGGATCAATTACGCTTCGAGCCAAAGCTCAAAT-CGAAGAAACATCTTCCGGCAAA-CCGGT-AATCATTAT-TACGGAAATA-CCGTACC-AAGTGAATAA-AGCAAGGCTG-ATCG-AA-AAAATCGC-CGATCTA--GTGCGCGATAAG-AAAAT-CGA-CGGCAT-TACGGA--TCTC-CGCG--ATGAATC-AG-ACCGAA-A-CGG-AAT-G--CG-CATC-GTCA-TTG--AACTGAGAA-GGGATG-CAAAT-GCCAAT-G-TACTGTT-AA-----------A-TAA-CTTGTA--CAAGCA-------------GA--CCGC----------------TCTTC--AAA-CATC----ATTCGGCATTAA-TCTTTTGGCGC-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

>PE7

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