CLAS-B NEO DELETED ALLELE

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1. Outside SA (5850 bp): Plain text (e.g., ATCG)
2. Outside LA (12421 bp): Plain text (e.g., ATCG)
3. SA (5092 bp): Underlined text (e.g., ATCG)
4. Neo (175 bp): Red text (e.g., ATCG)
5. MA (2217 bp): Green text (e.g., ATCG)
6. Distal LoxP (73 bp): Lightgray text, highlighted in yellow (e.g.,
7. LA (5580 bp): Bold and italic text (e.g., ATCG)
8. LoxP: Red text, highlighted in yellow (e.g., ATCG)
9. FRT: Red and underlined text in italics, highlighted in gray
   (e.g., ATCG)
10.
         Exon: Highlighted in pink (e.g., ATCG)
11.
         Probe: Highlighted in sandy brown (e.g., ATCG)
12.
         Oligo (5\'-3\'): Highlighted in green (e.g., ATCG)
13.
         Oligo (3\'-5\'): Highlighted in blue (e.g., ATCG)
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GCCAAACAACACTGCCCCAAAGGCCCAGCCTGCAGGCCACCAGTCACAATCCTTATCTGAAGCACCAAG TTTCCCTGTTGCTGGAGAAAACTCTCACCAAGTAGGTTAAGTGGTCTGGGTGTATGACAACGCTGG TGTCACTGGGGTGGTGGTACTTCCCCTATCCTTACAACCCCCCTTTGACAGACTTAACCCGAATTCTG TTTGCCAAAAAAGAAAAAAAAAAAAAGTCAGAGATGGTGCTAAGCCAGGTCCCCGCGAGTCCCTGGGAG TCCGGCTCCCGCCACCCCGGAGCCCATGGGAGCTGCGCCCCCGCCTCTGCCAGTCCCGGCCACGCTGTC AGTCTGCATTAGCGCTAACAGGCTCCAGACCGAGCGGGCTGGGCGGGGCTAATGCAATAGGCGCGTT ACCTGGGGCACAGGCTACATTACCAGGTCGGCCTCCTCCTGGCGGCCAGAGCCATCCAGCCCGCGTC $\tt CTGCCGGCCACCCGTGCCGCAGCGCTCCCAGGGCCCCGCCTGAGTGCCACGCGGCGGAGCCCAGCCG$ GGGCTGGAGCCCGGGATCCCCGTGCTGTCCGCCACGTGAGTGCGCTCTGCGCGCGGGACCGGTAAGTGT GCGGACCGGCTCCGAGGCACATCGTGAGTGGCTGCACCCTCTAGAGTGTCCCTGAAGGTTCCTAGTGCT $\tt GTCGGAGGGCCCCCCGGAGCTGGGAGGGCCCTTGAGTCAACTCTGGTCCCTCAGGGCCCGCAGGAAA$ $\tt CTTGGCATTTAGGGGAGGGAGAAAGTGAATGATCCAGGTAGACCTCGGTGGGCTCTTTAGCCCGACCC$ ACAGGGCGGCCCGAGGAGGTCCCCACCTATAAATTCTGTCCCAGTCGGACGCGCGTCACAACTCAGTCT CCAAAAATTCCCAACTCAGGCGCTCCTTTTCTTGGAAGCTGGGAGTCCGCTCAGCCCTAAGATCCTGAC GTCTGGGCTCCCCTGGGTGGTCTCAGTTTGTGCAAACGGGCGGCAAGCCTTGTTGACTGCTTTTTCTCC TTTCATACAAGCAGAACTTTGGTGTGTCCCCAGAACCTCCGAAGTCCCTCTCTCCAGCCGCACCCATGC TTCTGGCGCGAATGAATCCGCAGGTGCAGCCGGAGCTCGGCGGGGCGGACCCGCTGCCTGAGCAGCCCC TGAGGCCCTGCAAAACCGCCGATCTACTAGTGGTGAAGGAACGCAACGGAGTCCAGTGCCTCTTGGCGT GCTTCGCTGTGGACCTGGCCAACGTGTGGCGGTTCCCTTATCTCTGCTACAAGAATGGTGGTGGTGAGC GGGATGCACATGGAGGAGAAGAGGAGACGCAGGAACGAATTTAGTGTGCAGGAAAGAACTCTTAAGAGT ACCTAGAAATAGGATTGGAGTGTTCTCCGTTAGGGAAATAGAGGCAGGACCTTGAACAGTAGTAGGCAC AGGGGCTCAAGGACAGAATAGAGGGCATCCGGTTGGGTGAGGAATTCAGAGTCAATGCTGCGGTACAGA AGGATGATGGTAACTCTAGCACTCAGCCTTGGAACTCAGACACTAGGCTAGATAAAACGAGAGCCCTTG GATCACCAGTGGGCTACAGGAGTAAGTGTACACAGCCTTTGCGAGATCAGGACACTAGATGTCGAGCTG AGCTGGGCCTTGAGGCAGGAGTCCTGGGAGACTGGAGTGTCCTGTTCCGCTTTGCAAGCTCTGGTCAAG TTGTGAAGCCCAGCGCATGCGAACCTAGAAAAGACACCCAGCAGACAGCTCTTTTGTCCTCTTCCTGAT GAGCTGTCATTTTACCCATCTGCCCTGGAATGGGATCCCAGAGGTCACATCCAGCACAATGGAAGAAAC CTCAAACTCCTTTCTGAAGGGCTTGGAGCCTAGCATGGCCAAAGCACCCCAGCCCCACCATCTTTACTC AGATACAAGTTCAAGAGTGCCCTGCACAGAGCCTAGGGGTGTAAGCTTCTAGAGGAAGGTATTGGCCTG CCCTGGGTCACCCTGCCATGTATTAATTCTGTCTCAGAATTTAAGTCAGTTGGAGGCAGGGGTCTAGGG

TGCTTTGGGATAAACATGACTCCGTATTTGTAAAGAGGGTGTGGTCACCCAAGAGAACAGGTGGCTCTG AGTTGTGTTGCATATAGAAGCATCAGCTCTCACCAAGGAAGAGGAGCCAGCTGATGAGAAGTCCTGTGA GCCCTTCCCGATATGAGACTGTCACCATTGGGTACTCCAGATAAGACAAAGGTCCCGAGTCTAGGGGGA TAAGGAAAGGACACAACCCAAAGGTGACACGTTTCCTCACTCTGTGGTTGCAGATCCTCCAGAGACT $\tt CCGGGCAGATTGGAGCATTCTAGCCCTCGGGGCCCAATAGTAACAAGAGCAAAAGGGTAGAATCTATAT$ TTGTAGCAAGCAGGGAGATGAAGAGTAAATGACAAATTGGGAGACTTTGGGGCAAGTTGTGTCCTTA GTGACTGTCTGAGACTGCTTGTCCCTAGACATCAGACAGTCGTTCATTAATCAACAATGTTTCTCTGGG $\tt TTAGCTCAGTGTAGGACATAATGCTAGGCTTTGTAGGGGTCACCTGGATGTATGAGCCATCACTCTGTC$ TGCCTGGGACATTGGTCCCCAGAAGTCCTTGCTACCATGCCACATTAAGTCTTTTCCATTGTTATATGC CGTTGAAATGGAAGCAACACGGGTGGACAACTTGACACATGTGCTAAATAGATATTCTAGGGCTCTCAT TGACACTGTCCACTTGGCCACTACTGTGTTTTTGGAAAGAGCACTTGCTGTGTGCTGGATGATAAGTTGA CTTTCGAGAGTATATTCGTCCTAGAGTGGCCTATCCCGAGTTGTACCATAATTTGTCTTTTATGGACCT GTTTCCCAAGCAGTCTGAGAAAAGTTGAGGGCACAGACTGTTGGTGTTTAATCCCCAATAAGATTCAAG TCCTAGGAATGTGGTAGACAATTCCTACCCACTTATATTGAACAAATATATTAACAAAATAACCCAATC TCTCAGAGACTTATGGTCATTTTCACAAACCATGGTAGAAACATTATAGGAACTAGCACAGTAAGGTGC GTGAAGTTACAGGCTCTTTTCTCTAACATGTGTGACTTTGGACAAACTCTCTAGTCTCTTCTCATATAT GTAACCATCTTGTTCAGTTACACACATGGATAAGGACTAAATCCTTCAGTGCACATGCAGAGCCTATGT GATGCATGGCTCAGAGTGGGTAGTTGCTGCTTTTTAAGCAGCATCATTAGGGTGCCATAGGAAAGAGAT AGGAGAGCAACTGTTGCTATAGAGGTTTAAGGAGGGACTGTTTAGTGGTGACTCAGGGGAAGAGAGCTG TGGTTGGAACTCAGCTGCTCTGGACAGGGAGGGCTTGGATAAACAGCATTTTAGCATCCACCTGGAACA GGCTCCTCTGGAGAGGAACAAGCCAGGAGAGATAAGGGTAAGAGGCAAGTTGAGACTGGCCTGTGGAAA ${\tt TCTTGGCTGAGGGGGAAGAGCTGCTATCAGTGAATTTCCATTGCTGACTAGGAGGTTTGCAGTTGCTCT}$ GGGGAAGGGTAGTATTGTCCAGTTCATCATCTGGAAGAACAGAGGGCTCCCATTTAGTGCTCTCACTCC CTGCTCCGGGGATGTTCAGCTACCTCCTCAGACCTTGATCTCTGCTGAGTCCTCATACTGTTCGTTGTG ATTCCTGGTATAAAGGGGCATAATTTGAGATAACCCAATAATTCATTGCTCCCCAATGCCCTGAATACT TAATTTATACAAGCCAGGCTTCATCATCCTGTTCTTTGCCAGCCTGGCCCTGGGTCTTTGTTCTTTG GTGCCAGTGTTAACATAGAAACCTCCAAGTCTGAGTGTTTATACTGGCCCAGACTGGAGAATGTTTTGA $\verb|CCTGTCTGAACATCTTCCTGAAGACCAGCTGCTGGGATGTCAGGCTGTCCGTTCCAGATTGTTCCCTTT|\\$ GAACCCAAGGTCGGGTCTGTGCTGGTCTCTGGAAAGGAACAAATATGCAGGTGGCTGAGTACGCATGTA TGGAAGTGACCTCTGGATTGTCCTCTGTGCATGGACAGAGCTCTGCACTGGATCTTGTGGTGACTGTGA ATCCTTTGAGTATACCTGGCTTTGACTCAGAGTATGGTATTTGGTAGGGAAGTGATCATATGGTGTCTC TAAGCCCCAATTTCCTTGTGTAGCATAGGGAGGGTGGTCCTTTCTACAGGACCAGATAACATTAGTCAA TATAGATAAAGTATTTGGGATAATGTCACATAATAGAGGCAAAATAAAAATGCTGCCATTTTTATATTT TTGATGATACTGGTTACATACTTAACACAGGTATAGGATGAAGTCTTAATTCTAAGATAAATAGAATTT GGTTCTCAACCTGTGGGTCACAGCTCCTCTTGGGGTTACATATCAGATATCCTACATGTCAGATATTTA CATTACAATTCATAGCAGTAGCAAAATGACAGTTCTGAAGTAACAATGAAATAGTTTTATGGTTGGGGT CAGCACAGGATGAGGAACTGTGTTAAAGGAAGATCGAGGACACTAGGAAGGTTGAAAACAGCTGGTCTA CAGCATGTCACTATAGATTGCACACCTGGACAGTGGGCTTAGCAGTCCTGCATGAGATGCTATAACTCT GAGTTCCCAGCATACTTGCCTCACTACGCAAATGTCTGGAATCCTCAATAGCACTAATGAGGCTGATGC CGATACAGACACCTGGGGTTTTCCAACTTGATACCTTTATGTCCAGTTTTGGATACAGGTTTTATCCAAG TAAGGAACTTGCTCAGTTGACCCATCATTTGGCTCAGATGCACAAGGAGCCAACCATCATGGTACCCCA GCTGTGGAGTGTGCACACCACTATGAAGGAGTAAGGAACTGATCCAGGCTCATGATGATCGAGTGGCCC

GGTCAGTCGGGGTGGGGCTGAGGGAGATGAGTTTGGAGGCCACTGATCTCTTCGAAACACCCCTTCTTA CATGGAGCTGTTCCTGAGTATCTTGCCCCGCAGTCTCAAACCCAATTGCCCAAGTGAGGATTAAATTCT AGGACAACTGGAGAAGGCCCAGGGTTTTCTTTCATTGGTAGTACTCTCAAATATGAGTCACTACAAAGA CCTGTTTATTCAAGAGAAACTCATTGGCTAATGCCAGCCCCTAGTACAGAGATGCATGGAAGACAATCC CTGCCTGTAGGGAGCTACGGTCTGCTGCAGATATTCTAAAAGTTCACGCAGTACTATATATCCTTTAAA TGCGGGTAATGAGGTGGTGCTCAGTTCTATGTGGGTCACATTTCCTGTAGTAATATAGTTCTGAGCATC CCAAACACTTTCAGATTTATTCCTTTTAAAGAGATTAGAAGAAGGAGACCAGAATCCATGAGGGTAAGT GAGTCCCACCTCCACTGACCTCTGGGAGGAAATGACTCCTTCCACAGGGCAGTGTGCTACTTGACTGGA GCTGTCCCTGAGTATCAAGGCTCAGGCAGGAGGTCAGCTTGAGTCACATAAAAGTGAGAGAGTCACTGT CCCTCTACTCAACGGTGCTGCAGATACTTGGCTCTGGGTTTTCCTGGGCAAATGGCTCCAAGGATC CACCAGCATATGCTAGAGGCCTCCCATGTGGCCTGAAGTCTAAGAGCTGAGAATTCCAAACTTGGACCT GTTATTATTTTGAGCCACATCTCCACGAGGACTGTGTCCCAGTTCTGCAAGAGTTCGGGTAGCTTTCTG GACTTAGATACTAGACCCTGAGATGCTCCAGGGACCACATCTGGCCATTTTAGGTATCAGCCTAGGCAC TATTGGGCCTGATGGGAGCCTCAGGCAAAAACAGCCCACAGATGAGCTGCAGATATTCAGGAAACCATC TGACCTTACTCTTTCTGCTGCAGCCTCTGGTGACCTCATCCAAGTTCCTCAGAGTTGGGCCCTCCCATT CCTCTCAGTGGCCCTTCCTTCCTTATCACCAATCACCTTTACAGAGATTCCCTTACCTTCTCAGGAGGC TATCTAATGATCTCAGTGGCCGGTGGCTTTTTCTCCTGACGAAACAGCATTTACACAGAAAATTCCAGA ACCTCTTTGCCAGTGGAGTTCCTCTATCGTGGAGGGATATCTGGAAGCATTAGTGGCTCTGAGAGATGT ATGCTTTCAATTTTACCAGATCTACCCAAAGGCCTTTGTCCAGAGTCTCTTTCACAATGGACACTTCTC TGTGTGTGTGTGCGTTTGCTCATGCATGTGCATACAGACGATCTAGCTCTACCATTGCATGAGTC TATGAGCATGTGAGGCTGTGGCATCATATGTTTTGGGGGACCTCCTGGAAGCTGAGTCCTCACAGAGGT ATATCCTACGCTGGTTTTCCCAAGTCTGTTCATGTGAGCCCTGCAATTACGAAACAAGGGCACTTCAGA GCCATGACTGGATTCTGAACTTTCAGGCCCTGTGAGAGGCTTACTGCAATGCATAGGAGATATACTGGG ATGGTGCAGAGTTGGTTATAAAGAGGTGTCCTCAGTCCACCACAAGCTCCTTGAAGCTCCTTCTCAACT GTTCAGCCATACATTGTTATTATTATTATTATATCAAGAAAGCTCACACCAATGTGCTACTTAATGTCC GTCTTCTGAGATTTGTAGTCCACGAAATGCCCATTGGTCCACATCAGAGTCATTCCTATGGAAAACTGT GGCTCACATGGATCCATCCATGTTTGTGCTCCCTCACTTTACTGTGACTTGAAGTCAGCAGCAGGGGAG ATGGGCTTCACACTGAGTGACTTGCTGGACTGGTGGCACCATCTGGGAATTTCAAGTTAAGGGCGTGAG CTAAAACAGACCTGTGATGGATTGACCGGGTTTTTTACCTTGGCCATGTTAAAGACAATGTGGACCCCC AGTTGGCGAATCTCAGAACAACCATCCAAGCACCAATATCCGCCTCTTTCCTCCCCCATTCCCCTCGGG GCACTGACTTTAGTCTTCAGACTTACTCGGTTGTTTTAGGACCTAGCCTCCTACTTCAGTGCCAGC GGACCCCCAGAGGATATAGCATGTGACAGCAGAATGGGACCCAGGAAAATCAAGCTTTGAATCTACGCT ACACTGGGTTCCCATTAAGTGGGATGTTACTTTCCCTAAGCCCATGGCCTCCCCCCAGTCAACGCTATA CTTATTGCAACTATTTCTGCCAGCTATGTGAGCAGATACCAGAAGGGCCCTTCCTGTGAGAGAGGGACA GAGGCAGAAGTTAAGTGGAAGAAAGGAGACCTTGACATGTGATATTACAAAACATTCCAACTTGGAGCA GAGTGTGGAGTGCTGGGTTAGCCTCTGACAAACAGACCAGATAGCTTGGCTTGTTCACCCTTCCCACAT CTTAATCAGATCTATATCCTTTATCTGCACCAGAATGCTTTAGAGTCCTCAGGGTATGTTGGGCCTAGA ACTCAGGAGCCAACCAAATCTGGGCCCAAATCCTATACCTATCACTTACCCCACGTATAAGCCTGCTCA GTTCACTTTGATTTGACCCTACGCCCCAGTCTCCTCTCTGGAAAGTGATCACGGCACTGGTTTGCTAC TGCAGTCCTTTCTCCTGCTCTCCACCCTTGGCCTAGCTCTGGTTTGGGGATGATCTCAGTCTTGCAGCAA CAGGACCAGCACCATGCTTTATGCCCCAGGCTTTCTATGCAGAGGCACATCCTGAGTCACTGGGTGA GCTTGACCCTGGAGACTATGTACCGGAGACTATGTGCCTCTACTCTTTTGTAAGTGAAGAAGAGCTTCG GTCCCCACCCATTAAATGGAGTTAGCAATGATCTGTAGAAATGCAGCTCCGTAGAAATGCTCTAACGAG

CTAATGAGGTTGCAGGGAACGTGTCTGGGCCACATCAGGGGGCTCAGCCAGAGGAAGCTGCTGATCCCTG TGTTAGAACCATCCATGCTGTCATCTTTACACACTTGGTCATTTTCGAAATGTTTCGAGCACCTCATTC CGAAGTCCAGGAGGAGTTTGATTTTGTGCTGGCTGTCCCAGGAGCTACCATTTTAGTTTGACCCTGC GTCAGGGTTCATGGAGAATTGTTCCTGTCATTGAGACATGTTCCATGTCACCAGAGTTGCCTCTTGTGG CCTAGGACCCCCTTCATATTTTATATATATGAGTACACTGTGACTGTCTTCAGACACACTAGAAGAGGG CATCAGATCCCATTACAGATGGTCAAGAGCCACCATGTGGGAGCTAGGAATTGAACTCGGGACCTCTGG AAGAGCAGGCTGTGCTCTTAACAACTCAGCCATCTCTCACTTCTTATGGGCCCTTTGTAACAGCCTTTT CCCAATTACAACAGGGGGACACAATGATCCCGATTTCTCATGGGTTTCTGTGACAATCTGGGGGGAATT CAGTAAAATCAGGCTTGGGGAAGCCATGTGAAGCCTTACAATGATACCAGTGTGAGAAAATGAGACTCC ACCTGTCACCTTAGGCACTGTCTCTCCCTGTCTGGTCTCAGTCATCTTGCCTGAGGAAAGGAAAGGCTG TGGAAGTTGTATCTGGTGGTGCTTCATGGCATGTAGTGTGCACTGAAGGCTAGGAGAAGCTGTGGGAAC ACAGCTCTGTCCCT<mark>GTGCCTCACGCAAACTTTACTCC</mark>TCTGACGACAGATGAGCATTATTATGATTATG AACACTATGACCGCCATGCTTACTGCTATGCCAATCAAGT<mark>ACTCGTACGCCGGCTTAAGTGTA</mark>CACGC <mark>TACTAGTCTAGC*GAAGTTCC*TATACTTTCTAGAGAATAGG</mark>AACTTCGTTCGAAC<mark>ATAACTTCGTATAGC</mark> <mark>ATACATTATACGAAGTTAT</mark>GGTACCTGCAGAATTCATGCATAAGCCTGGATCCGTTCTTCGGACGCCGT **ACGCCTAG**GTTCTACATAACCATTACCACAGATCATCTCCTGGGAAATGGGCAAGAGGTAGATGAACAA GGATCCACGCAGCTATTGTAGAGAGGTGACTACAGCCCTCTGAGGGGTGTCCATCCTGCAGGTCTGAGG TTGCCTCTATGTCTTGTAGGTGCCTTCCTGATTCCATACACGCTGTTCCTCATCATTGCTGGGATGCCT CTGTTTTACATG<mark>GAGCTGGCTCTGGGGCAATAC</mark>AACCGGGAGGGGGCCACCAGTGTGGAAGATCTGC **CCTTTCTTCAAAG**GTAGGAATGATCTGAGGCAAGGCCAATATTTTCTCCAAAGTCTTCCTTGGTATATC CTGAAGAATCTTCTCCCAAGGTGAGACTTAAGGTAGACCAACTCTTACCTGGGGCTATGGGCACTGGTG ATGTCAAGATTGCCCACCATTCAAATTTACACAAAGAAACTAGGATACATGAAGTGTAGCCTGAAATTC GAGCTCCAGCTTAGGCCTCACTATGGGAAATACAAAGATAGCAGGGACTTCAGTACACATTCCTCTGCT $\tt CTCACTTCTTCTCATGGCAGGCATGGCAAGTTGATCACAGATGCCTTCAAGTTCAAGCAGAAAGCC$ GCCTTAGAAATCTTGACCCAACAGCTAGGACTGCTGTAAGGTTAACTTGTACTTGAATTTAGAGCAGGT CTGTGGGAACTAGCCATGACAGCTACCATTCTCCATCCCCTAGACTATTAGGAGAAGGATGAGGAACAA TCTCCTTAAGAGGTGAGAGTCTTTTCAGCACCTTGTATATACTGGCTCAGTGATGAGGAGGGCAGGCTG ACATAAAAGTCTTACAAGACACATGGTTAGCATCTTTTCTGTTAAGTCACCTGAGATCCAGCTCATGAT GGTTTCATTTTATTTTTTATGTTTTAAAAATTATGACTAATTTATAAAGTTAGTGTACAAAGTGATGGG ATATGCATATACTTACACACACACACTTTTGATCCAGGGTCTAGAATCTTTCTGTCTTGTCTGTTTTT CTTCTATGTTAGACTCATTCCCAGGTATATTCTTATCAATGGCTAGTAAAGATGGCTGCGAGCAGCTAC AAGGTTGAATTCTACCAAGTTCAACAGTTGGAAACAATAAACACATGTGGTTGGATCGTCCCCTAGACA GGTCCTGGGGAAGGATTTAAGTCTAAGGAGTTACCAGGGAAGCTGAGAGGGTCTTAGGAGCATCAGCTG ATGTGAAAACACCCCTGTGTTATCCTGCCTGAGTGTTGAGGGAGCTGCAGTATTTATACACCAACAC CAGATATGGCATTAAGGCCCTGGTACTTTGTTTACCTGGTAAGCGGACCAGGAAAGCTACAGTGTCAAA AGATTATGAATGAGGCTCTGACAATTTGCTCCGGAAAAAAGGAGGTACAGGAGTGTGCAGTGGCTAGA ${\tt GCCTACTTCCGGGGTTCAGTGGTGGTAGGGGGGACAGCTCTGAGCCTGGGTCTTGGAAAGCCTGATCTCT}$ TTGTCCCCACACAGGAGTGGGCTATGCTGTGATCCTCATTGCCCTCTATGTCGGCTTTTACTACAATGT CATCATCGCCTGGTCACTCTACTACCTCTTTGCATCCTTCACCTTGAACCTGCCCTGGACCAACTGCGG ACACTCCTGGAACAGCCCCAACTGTACGGACCCCAAACTCCTCAACGCCTCGGTGCTGGGTGACCATAC CAAATACTCCAAATACAAGTTCACACCAGCTGCGGAGTTTTATG<mark>AGTAAGTCACGGGTGCTTCTCTG</mark> ACACTCAGGCCTGGGTGGGACTGGAGCCAGGTATTAGGAAATAACACAGACCAAGCTAGGGGCATGGCA GCCAGCACTGGAAAGGTCTTGGCTTAATGCCAAGTTAAGGACAGAGGACATGGTAGTGTGTGGAGCGCC TGGTGAAGCCGCCGGTATAGGATAGGAAAGTGGAGGTTGGGAGCCAGATGGTCAGCATGCAGACAGGAA GCAGGAGAGTGCTAAAGCTTATCACGCGTATAACTTCGTATAGCATACATTATACGAAGTTATGCCACT AGAGGATCCCCGCAATTGTGCACCCTGCAGCCTGCAGCCTGCAGGACACAAAAGGCACTGTGGAGGG

GCGGGAAGTGACTGTACACACTGATGATATTAGCCAAGAGAACGTC<mark>CAGAAGCTAGTTGGTAGACGGTG</mark> *AATGTTGACACCTTGGGTAACCCTCTCTGCACTCTTGAAATCAGAAAATTAACATTCACCTGTTATTAG* CTAACCTACTATAATCTCCCATTTCCCAACGGACACCATGTTACTCTGTTTAGTTGTTGCGCCTGCTTA TTCCCCTCCAATACGGGTGGCTTCTTGGAGCTTTCCTTGAGTTTCATGACCTTGACCCTTCTAGAGGGTGGGTGTTCACTTTCCACAAGGGCACTCCATAGAGGCACTGTGGCGCTCTTCTCGGCGAGCCTTGTCTGG TCCTGGATAGGGATATTTTTACTCTGGTAAATTGTGTCTTTGAGAGGGGTACTTTCAAAGGGTTAGGCG AGCATCTTGTTTCTCCTACCATACCCTCCACTGCCTACTCCTAATGTTTGCAGGTAAGGATTTCTGACTTCGTGTCTAATTGTCCTCTGTTATTTTCATCAGTCCTAGAATAACTGAGTAGTGTCCTGCTGTGAAGAC TATTTTGTCTGTGGTTGACTCCTGAGCCACCACTATTCAGTCTGTTGGATTCTCAGTCTCTGATCTGCCAGAAGACAGCTTCAACTGCTCCCTCCAGCGTGGTTGACCCTCATTTGAGCGATGCCTTAGTCACATATG AGTGGTAGTCTAGGCCCCAAACATGCATCAGGACAGGTAAAGCCCACCGGAGTCCATCCTCGGGGCTCA TGTGATCCACTGTGGAAGCCTCTCACTGTACTAAACAGAAACACAGATGATAGATTCTCAGGCTTCCGGGTCACGGATGTAGATTTATCACCTAGCTTATACATAAGCTCACAAAAGAGAAAGGCACAGATACCACCA TGGAGCAGAAATGACTCAAAGACAGTTCTATCAGCAAAGCCCACCCCAGCATGGGTGACAGATCACAAA AGCCAGGAGCCTGGAGTTCACTGCCCATTGCCCTTTTCAAGTGAGTCTGCTCAAAACTGGTTCCAGGTATATCAGCTGGTTTCTGCTTTTTCCAGGCAACTGGGCTGCTCTCAGTCTTTGCAGCTTTCCTCCCCCAGGGGCCGAGTGAATCTGCTCAGTTTCAGGGAATGTGGAAATGATTTTTGAGTTGTTTATCTTCCTGCTTAA AGTGCTTTGTTTCAGGTCTCCTGTTTAGAAGGAGCATCAGAAGGGAGTTTGTTCCAGATGCAAGCTCTTAGCACAGTGGAGTTAAATCTTGGCTACACATCACAGTCTCCTGGGGAGCTTTAGAAGTCACCACTTCCTGGGGGGGGGGGGTGTCTCATATCATAGAAGATTTAGGGTCTCCTTCATTCTTCAGAGCAGCAGAGTTTGTGGGTGAAGGTTCTGGGAGTTTCTTCCTAGTTCATGAGTGTGGTTTGCACACGGAGCCAGTGAAAGA TGGATTTTCCTTTAGCTCCTGGCAACCGTTGTTCTTATAAATTAAAGTGGTAAATGAAAGCCCCTCATC TTGGTCTGGTTAGGATCTGACTCCTCCCCCTCCCCAGTGGCCAGCACATCTCCCGCAGAGATGCCCAGCAGGAGGGAGATGAGACCTCTTTTGAGTGCTTTTGTTGCAGAGCTGAACTTTTTCCAGACCCAGCCAAGA GCAGAACGTGGTGGAAAGAGAACACATTCTTGTCTAAGATGACACAGGGCCTTGGGGGCCTAGAGTAGA GAGCAGAAGGCAGAGACTCTCAGCAGTGTTATTCTCTGGAGACTTCTCTGTCTCCCTGGTCTGTTCC CTCATCTGTTCCTTGCTCCTGAAAGCCTTCATAGCTCCCCTGAACTGGGTTTCTAGCATGTTTTCACATCCAACTCCTGCCTAATCTTCTCTTTTCTCCATTTGTGGAGGTGAAAATGAGCTATCATGTCAGATGACAAAGGTGTGGCCTGACTTCAGGTCTGAGGCAGAGCTGGGTCTCCTCATCTGGTCTAGGACTCTCATCTCATAGGTCTGGCTCCTGGTTTCTTTTATGGGACAAGGGTGCAGGGCCCTCTGCAGGTAAATAGGAGCCCTTCTCAGGCTTCTCTTTCTCAGGTTGGCCCTGCCTATGAGCTTCCCAGAACGCAGCACTGCCGTGGGTTGCCTCTGGATTGTGTGCAGCTCATCTCCCTTTTGTTGAAAGGTGTGACGTGCTTTTTAAGACCATTCGACTC CGAAGAGCTAGCAGATGTGAGCCAGTGTCAGCCCTGTGGAGGTTGGGTAATTCCTTCTTTTCCCTGAGGCATCCTGGCCAAGTCTGTTACCATCTTCTGCTCATTTAGGCCGACAGACTGAACATGTCATTCAAGGGA ACAAAACTGCTCTCCCCAGGCTCTGGGCCTGAAGCCACGTGGCCCCACCACTGAAGGCCACTAAAGTTC TATCCTTACCTATAAAAGGCATCTTCAGTGAATGCATCGGGATAAATATTTCTACCCAGGACACCTCTG ATGAGGAAGGGAACTCTCCCTCCTCCCTAACATTGACTCCTCATGCTTAAATGTCGAGTGGAGCTTTTTTTTGGCTCACAGGCTTTGGAAAACCTGGATGGTGCTCTCTGTGATGATTCATGTCCATTAAGCCGCTGG GGAAGGAATACAAACCCAAGTTACATGAGCCAACCCCAGAGCCTGGGAGGTTGCCCTCAGTCCTCTTCT CCGTGATCGGCTCTGGGGTCTGGCTCTTCAAATGCACATGAGGGTGAGGCAGCCCATTGCATGAGGGTGCTTTAGTTATGTGTCTGGACACTAGGGAATCTTCCCAAGTTTCAGAAAAGCAGAGTTTGGTGGTGATTC

GAGAGAGAGAGAGAGAGAGATATTGAGAGATTTAACAGTCAAATTAGCCAGATGGCAATTGACATCA TTCACATTTTACCCATAAAACAATGAGACAAAGCAGAACTAAGCATCGAGTGAGGCCAGACTCCTCTCT ATCCTTGGTCATAATCAGTCGCTCATTCCAAATCTCCGCCCTCATTTTCTCCTTTCTTCTCTTCCCAACCTTCTGATTTGAGACTAGTGAGACTCAAAGGTTGTCCAGGCTGACAAGTTGGGGTTGGGAAATGTATTCTAGAATGCAGGAACAGAAAGTCCCAAAGGTCCCAAGATTTTCCCCAAGGATCAGGGGACCATCTGAAGACTGTAGACAAGTATCTTGCTGTTGCCAGGAGCAAAAGACTGACGTGGCATGAGAGGCATGAACTTGGCAG TGGTGGGCTCTGAAAGCTCTCTGATGCTGAAAGGCTAGTTTGTATCCTCTGGAGCTGGACTTGACAACT TGACATGCATAATTTATGGAAGGATGAGTCTTTCTGGGAGTGGGGGCAGGGCACTGTTCTATATGTTTG CACAAGAATCGTCTTGGTGAGAAGTTCTGTCTTATATGATATGAAATCTCTGAGTATTTAGAGGCAAAA GAGTGACAAGGTTAGACCGATGTGTCACATCAGTCTGAGGTTAGGCCAGATTGGATTTAAGAGAGCTAG TGAGAGGCAGGGAAACGAGGACTGGGGGAACCAGTGGCATCTTCTATGGTTCTAGAGGGGTATTGTGTG GACTTTGTGAAGTCAAAACAGGTGAGTTGGGGCTTCAGAGACTAGATGTTAGGGAGGATGTGGGTGTCT TTGGGGGATCTTGATCACTCACGAAGCTTCATTCATTCACAAATGCTCACATTCACAAATGCTCATCACTGCACCTGTCTACCTGCTGCCAGCTTGCCCTGTGCTCTACTGGCTCCTAGCAACCTTGTCAGAAGAGTCTGGCCCGCTTGCACTCTTTGTGAAACCTTGTGACTGCTCCTCAGCTTCCTTTGTGAACTACTCCCTGAA GCCTAGAACCAAGATGCAGTGACAGTTCCAGCTGCCCTCTGGGGGGAAGGGATCATTTCCTGTGCTCAG GGTATGGCGCACATTCTGCAACTGAATCCTCATGAGAGGGAGAAAGCTCAGAGGTGGGGATGCTTGCAT GAGCCTATTCACATTGCCCCTATCCTGGGAACTTCATTTATGCTGGAGTCACCAGCCTCTATCGCACAA CCTGGATCAAAGCTGAGCTAAGAAGGCTTGGTGCTCAGTGTGGGGTTAGGTCACACAGGATCCAAGGACAGGGCCCACTCTGGGAGCCTGGATGACTTTACTTCTGTCTCTGACACTTCAGCATCTCCTTGTGTTCTTACAAATAATAGACACATGACATGAATGAATGAATTACAGAATGGAAGCACACAGGATTAGCAGGGACTA TCACACCTTCACAGACCATTCACAAACATTAACTGCTCAGTGACAAGCTGGTGGATCTCCAGACTGGGA TTTATTTTGAGCTGGTTCAGTAAAGGCAGTTCAACTCCCAATTACCTGTGCTCTCCTTCAAACACCCAG GATTCTAGAAGATTTACAAGCTCATCTCTTAGGAGCCTTCTTAAGCCTCCCCTCTCATGCACAGAAAGC TTGGGTAAGTATCTGACTCTGGGTTCAATCTTTGATGGCCAATCAAAGACCTTATTACCCGAGTGCCAA CTCCACAGAGGTTTGACTTAATTGGTTAAGAGTGAGCAGATAGCAGCAGATTGCTTTATGATAATATAT ${\tt CTTTTAAACTTATTTTTGTCTGCTCTGGTGGCTCATGGGAGAATGAAGCAGGAAGAGAGCCCTAGGTTC}$ CAGGGCAGCCTGGGCTACACAGTGAAACAACAACAACAACAACAAGAAGACTTATTTTGGCAGTA GACAATTAATACTAATATGTGAGTTGAGAATCCTGTTGCTGAAGAGGGAAATTGCTCGGAGATGGGGCT ACATGATCAACTGGTGTCTCTGGCAGATTCCAAATTATATTCAAATTAAAGCCCCTATCGCATAATTCT CTTTAGGGCATAGAGGAGAAGAAGAAGAAGAAAACTGAGGGGAGAATGATGAAGAGAAGGGGACAT ATCAAAGATGTATACAATTTTTTTTACCATGAGTGTATCTTTTGAATTAATGTTTTATTTTAAGGAAAG GATAGTATATGAATCTGCTGCTTCTTTATAACACATGGTAGGATTTACAACTGTCTGAAGCTGAACATA GACATTTGCAGGCTGACACACGGCAAGTGAAGCATCTACATGGGAAAATGGGAGGTTTCCTGGGCAGT GCTTTCTGGAGACTCACCTTTCCCCCCTAGTTCTCCTTGGGGTGACTCTGGGCTCTCATTTCTATATAA ATAGAAGACAGATTGTTGGAGTTGGCAAAAAGAAGTTAGGACATTTGTCTGTGCTGAATCCAACGTGCA GTGCAGTGAACCCCCCATATCACACTGTGAAGATGTGTCTATTCTGAACAGGTACAGACAAAAGTTTGT ATCTTGCCTTTGTCTCTGCAGTGATACGGAATAGCACGTTTACTGTTACTGTTTTAAAACAGCCTAGA GATGATCTAGAATGTACAAAAAGGGCTTGCGTAAGAAATATCAAATACAATGCCATTTTATCTAAAGGT CTTGGGTATCCACTGATTATAGTATCCATGGAAGGTCCTGGAACTAATGCCCCAAGGATACTGAGGGGC AACTGTATGGTTAGTCTTGGTGTTCCATGTAGAAGCTCTTCTGCCAGATGATTCAGGAGCCGCAGGAAC TGAAAGTGTTAAAGATGTCTATCAAGGATGAGTGGGGAACCCTTCTGGGGGAAAGGATATTGGAAGCAA TTCCTGACTCCTCAACAAGCCACTCTTTGTGTTAATTTTACACTTAATGCTACTGCTGACATTGGA ATATAACCTCACCGAGGCAGGGATTGAATGATAGAGGCATGTGTCTATAGCCCAAATGGGTCAGCCTAC

AGCACCCTTTGGAGAGGAATGCATGGAATAGATGTTGTCCAAGGCCCCACTACAGTATTCTTTGTTCTA CTTGCTTGACTTTCTAGGGTGTATTGTTGGTGAGCATCTGCGCCCTGTGGGACACCCCGTTCCAGGG ACTTGATCTTCTATTTTTTCTATCCATTTGACTCATTTGACCATGTCACCAGTGGCTTTGGGTTCTAAT TAGCAAGTGGTCATTTTCCTTACTGTTCTGTCTTTTATTCCCTCGCTGTACATGGTATGTGGGGTCTTG AAAGCCCCAGGCTTTCAGAGTGCTCATTCTGCTTGATTTTGTTGTTTAAAATGCCCTTTATTGAGGGGGT AACATATCTTAAAGGGCCAGCTCAGGGACTGTCACCAACTGAACATAGCCATGTGACTAACACCCAGTC CAGGAATCCTGGTCTCTATAAGTGCCCATGAATCCCTTCCTAGTTGGCCACCCCTCTTCCAGCCCAGAG ATGCTCATTTATTTGTCTGCCACGACTGTAAAATGTGAAAGGCCCATCTCCATGAGGTTAGATGCTGCA ATTTTTGTTTTGGGGGGTTGTTGTGTTGTGTGAACATTAATTCTACCAGTGGTAGGCATTACTATGTGG GAACAGTGTTCTTCTCCTCCTGAGGACTGGTAGTTTAGAAAATGCAGTCTGGAGAATAGGTGTCTTCC TTCTCTTATCATCATGTTCCCATGGCTGGCCCACACAAGGACTCTAGAATTACGGAGAATGGCAAATCC GATGGTCGTCATCGTTGTCTTGTATTTCAGCCTCTGGAAAGGAGTGAAGACATCAGGAAAGGTAATGTC TGTGTGTGTGTGTGTGTGTGTGTTTTCCTAGCTACAACAACGTGGCTAGTGCAAAGAGGTGGG TCTAGGAACACAAGTTGAGGTTGCATCCTCACCTCTGTCTCTATGTGGACAAATCTGTTACCCAGAGCC TGACTCTGCCCAACAGCAGGCTAAAGGGATGAAAGTAGATCAGGCTCCTCACATTTTCCCTTGATAATT TCCATAAGAGCAGCGATCAGAGCCTGGGGCATCCTCTAATGTTTGAGACCAAGGCTAAAACAACTACTG ACTGATCTTTGGCCTTGACTTCTCACCTAAAACTGCATGAAGGCATTATTGCATCTTACTTGGGAAATT GACAATTTGCTTCACTATAGAATCAATAAGTCTATATACGAATGTTTTGGGAGAAAATGCTTTGAAAGAT AATTAGATGTGTGCTTTGCTTCTAATACAATTCTGGTTTCCCACAAGTGTCTAGACACTTAGGAGAAGA ATACAGGCTAGCAGACTAATGAGGTGGCGTTTTGAACTTGGATGTTGCTGCTTTCTGAGGTCACTTCTG TGGGATGGGGTATGTTTAGGAGGTGGCTCCTGATGATTCTCAGCTTGGGGATTGATATGGGAATAACAA TCTCCCAGGGACTGTATGCAGCCTAGAAGAACACAACTGCAATTGAAGTGACATAGCTAGGAAGTATTC AACATCTTATCATGATTCAATTCTGAGAAGTGGCTGGGCTCAGATGCATGGTTCTTCTGCTCTGTGTGA TATTGCCTGGACCATGTGTCTGGAGACCTGGCTGGACCGGAACATCCTAGGTGGTTGGGGCTGCCTGGG AGCAGAGTTGGAGTTGTTAGTCAATGGGTATGGAATTGTTTCCATGTAGCTTTTATGTGTTTCCTGGAC ATTGCACATCATGACAGCTGACTTCCCAGAGCACACTTCACACAGAGGAGACCCTCCATGAAGTAGCTC TTCCGGTTTCTGCTTGCATCATGCTTATTCTTTGTCTCAATGCCCAAACCAATCTAGGATCACTGTTAT GGGACTTTACTAAGTGCTTAGCTCAACTTACTAAGCTTTTTATGGACACCTACTCCATGCTGTTTTAGAT GATGTGCAATATTTTGAGTGTCTACACAGAGGCATCTATGTGTAGCCTCCTTTAAATAAGCACTGTGGT AATAATTTCACATTAGGTAGTCCAGCTACTCCATAATAAAAATATCAACTGTAAGCTTTTCAAGCTGTTA TTAAGCTAACTGAGCAGGTAGCTACTTCTCACCAGACATATGCAGCCAACTGTATGTTCATCTGCACTT TGACTTGAGGTAGGCAGTATTTCTTATTATAGGCCATGGTCAGAGAGTCAGAGATGCTGCATTTGTGGG CGATGGATGGTCTGTCAGCTGAGAGAAAGGTGTGTGGAGAAGGGGGATACTTGTGCTATCCCTGTCAGGA TAGGCACGGGAAGAAGTGAGGAAAAGGGAAAGAGTCTCTCTGGAAGAACCCGTGAGCACAGTTATCAA GGTGTGGAAGCCCTGGACAAGCCCTGCTTAGGCTCTGTGCTACCCTTGGCACCAGGAGCAGGCCACACA GCTCATCCTATGAGCTGAAGAAGATGGATGTGAGCCATTGGTATTCTAATATGGAGCCCAGCCTGGTTC CTTAAAGTCATGAGCAGGCCAATATAAGCTGCTGGCAGGGAGACTGGTGTTACCAAAGAGCATGAATGT TTGAGCATGCTCTGTTCCTCTTGCTGTATGTACTTTCTGAGTTGAGAAGGAGTGTTTCACCATGGAGGC ACCATCCATGTGGAGACATGAAGAGGGATGCGTTGGGCCCTACAGAGTCAACTGAAGCCAGAGCCCCCA TTTGTGTAAGTCCCCCCAAGTTTGAGCACATAGAGGCCCCAGGTGGTCCATGAGGAGGTTATTTCTAGA ATCGGCTTCACTTGGGGCATTCCAGTACCTTGTCTTTCATTGTTTTTATAAACTGGCTGATGAGGAATC CGAGAGTATTGCTTATTTCTCTCTGGAACAGCACAAGCTTTTCTTAGTCATCCCCCAGAGTCACAGA GGAGGCCTGGAATGAGTCAGAAATGTGCAAGTGAAGATGATTTGGAAAGATGATTTGTTGACTGCTTGG

 $\tt CTCTTGGGAAGGTGGGAGCAGGGCACAGTCTGAGCTGGGGTGAGGGGGGTATCCCAGACCACACACTCAG$ TGACAGCTGTGTTGGCCCAGTGATCACTTCAAAGTAGAAGGAGGTCAGAAGGGATCAGGGACAGGGCTC GCCTCCCTGTCTCCACACAATCTGTTTACACACTGCACCACACTTTGAGAAACTTCAGAGGCTCCTCT ${\tt TCCAGGGAGATGAGGTGGGATGACAGAGCTGGCCAGCCCAGCCATTCCTCATCACCTGCTTCGCTGCC}$ AGCTTTTGGGCTGCTTGGAAGATGGGAACACATAGACCATTTGAATATGTAGACGATGTCCTGAATTCT AGCAGACACGGTAGAATGGGGAAAGAGAAAAAGCCAGGCAAATTTAGAGATCATTAGAGCTTTAGAATA TTTAATTGATGTTTGCTGTTCTTGCTGTTTGTTTTCATTTTATGGTTAAGGCAAAATTCCAGCTG CAGAACAGAGTCATTTGCACAGGATCCATGCTTACACTAAACTATTTATAGCTCCTTATTTTCTTAAGC AACATTATCTTTATGCCATACCCTATAAATTCTTCTCCATAATAGACTGTCTTCATTGTTAGTGAAAAT GGCCTCAAAATTCGGTTCAAAGACTACAAATCCTAAAACTGGAAAAACTAATGCAGTTTTACAGGGATA CAGAGTGGATATGACTTTGTTATTTTATTTTAGTTCTTGTCTGTGTGCACATGTGTATGTTTTGTATGTGA $\tt GTGGAGTGCACATACGTATTTGGGTGTGTGAACATGCAAGGCCCAAAGGGAAGACTTCAGATTGTCA$ TTCCTGTGCACTGTGCTTGGTTTTGTTTGTTTGTTTGAGACATGATTTCTCACTAGTCTGGCACT TGCCAAGTAGGTGAGGCTAGCTGGCCACAAACTGTAGGGAGCTTTCTCCTGCGAGTGTGGGTATCTATA TTCTTAGTTTTGGAGCATTACCGCCACCAGAGCTTCTTCAATTGCAGGTCTAAGAGGACCCTGAGGGGC TCCCATTTCTGATGAGCTTTTGGACGACATCAGTGCTAGTGGTCCATCCTTGGCCTGATACTTGGATGC ATGGCAAGGCTCAAGGCTTGCACCTTTTCAATAATGGAACCTTAGCCTCTTCCCCTGAACAACTTTGAA TAGAGAGCCCTGCCATCTGGAGACTTTTCCTTTTATGAGTCACAGGCCACAGTCTTCCTCAGTTTTATG ATCAGCCATTAGTTTGAATTTGGTACTGTAGAACTTCAGAAATTATCCACAGACACATACAAGTAGGTA ATAATTTATGTTTAGGGATGGGCATGATGGAACATACTTCTAATCCCAGCATCTGGGAAGCAGAGTAAG GCAGATGCTTCTAAGTTTGAAGCCAGCCTGGTCTATGAAAGAGCGGGTTAACCAGGGCTACCTAGTGAC TATTGGAAGTGACAGGAAAGAAAAAAAAAAAAAGGAAAAAGGACTCATTTTGTTTTTTATCTCATG $\tt CTAAAAAGGAAGCCTGGGATGGAGATACCAGAGCTCCTAGGTCTCTCCCTTTGCTATGTGTACAGGGGA$ GCACATGGATGTGAGGAAGATGTCCTCTAGTTTTTGACAAATGCCCTAGATGTCTGAAAATACGCTTGC TGCCCAAAGTTTTAACTTTGAATGTATGAGCATTTCTTGGTACTTGACACACTCATGTCAGCTCCATTA TTTCTTTATGCGTTCCTGTGATAAACCAAATCTGTGTTGGAGTTACACTCGTGGCCGGTGCAGGAGCAC ACCCAGCCTCCTGGGCAGGACAGTGCATCTGGGCCACAGCTGTTGACACGAGTGGCAGGAAACTGTAAC TGTTAGGATAAGGATGACGGCTCCTCTTTGTTCCTGATGCCAAGGGTTGGGATCCACTTTCCCCT GTTTGAGAAACTGAATCATCTGAGACCAGGGTGAGGCTACCCAGATGCAACAACCTCTCTTTCAAGGGC ATGGTTTTCTCCCTGTTTTGTTATCAAGTTTGCCCGCCATGTTTCTGCACCCATGACCCCTCAAAGAAC ACAGAGCCCAAAGCTTATGTTCTCACAGATATTCATAGAACTGGGGAGTGATTGGCTGGATGCCATAAA GTAGGAGAGCCTTCCTGGTTCCCTCTGATCCAGATGTGCTCACCACTGGAGAGCCTACACACTGTGCTT CCTTTCCCATTCCTTTGCCTGTAATTTCATTCTTCTGCTGACCGTCATTCACTAACCTTCTCATTGTAG TTTAATTAATAAAACTCATTCTATCTCCCACCATACATCTCATTTTCTACTGCAACCTTTCATCCATG TGACTGTCCATTCACCTAACAACATTTCAAAGGAACCATATATACTGGGAACAGGAAAATCAGG AAGATAAATTCCAGCCTCTAAAATGAGTATGGAAAAACATGGGAGTTTGTCACTAATATGTCAATTTTT GTTTTGGGCCCATATCTTTCTAGGCTGACAAAGAATATTACTCTCAGTCATGTCCTAAGTTTTCCATGT TCTATCCAGGGCAGTGTATGGGTTCTTTAGGAGACAGAGTTCCTAAGCTGTAGGGGAAAAAAAGAGCTTG GTCTTTAAGCTATATGCCCATTCATGTTTCAGCTTTGTCTTCTTTTGGGTCTGACTACCCAGCCCTGGCT CAGTTTGGTGCACAGCTTTTCTGCAAAGAAAATGCTACAGCCTGCAGCTTTGTCAAGAGCGAAGACATT AACTTTGGCTACATGTTGACCCTTGCTGGGAAAAAAAAATACTGGAGTTGAGGCTGGACCTTAGACCATT ATATGTGGCCAAGACCATGAGGGACCAGTGACAATGACAACCCTCCTAGTCACCCTTTTCTCTGTTCTC AGATAGCTTGTCTTGATCTAAATCTTCTACTGAGGTGGAGAATTGTTTTGTTTTGTTTTGTTTTCCTGT AAGCTAAGTGTTAGGTATGTCTCTGTAATCCCAGCACTTGGGAGACCGAGGCAGGAGGATCATGAATTT TTGCTTGACGTGTGGAAAATTCTGGGTTCTATCCTCTGGGCTCTGTTCTCAACACTGAAGGAAACAAAA

AGAAGGAGGAAGGACAGGTACTTTTAAATACCCTGCCTGTAAGTTGGGTGTTAACAACCCATGCCTGTA GTGTGACAGAGGCAAGGCTGACAGGAGTAACCCTGCCTTACATTTTCTTATATACAGTTCCATATAAGA TAGAGTAAAGAGGCAGCTCTGTTGAAAACAAGGCATCAAGGGCTTTGAAAAAACCTAGTGTTTTGCCTT AGGGAGCCCTGCATCTGTTTATTTTTATGTCCCTGGGGTCAGGCCGAGGACCTGGTCCTGAAATGATGA TGGCACCTCCAACACTAGGAGAAGGGAAGTGGTGGATGGCATGTTTGTGGTCCGAGAAAAGTCCCGGTG TCCTTGTCCTAGTACTTCCCCAGGTCATGGTCAGGGTGGGATTCTCACAGCCATCTTGTGTATTGCTCA GGTTGTCTGGATCACAGCCACCCTGCCTTACTTTGTCTTGTTTTGTGCTCCTGGTCCATGGCGTCACACT GCCCGGTGCCTCCAATGGCATCAATGCCTACTTGCACATTGACTTCTACCGCCTCAAGGAGGCCACGGT ACCACTGTGAGGTAGATCAAGGCCCAAGAAGCAATCTCTTTCCTGTGTAACTCTTAGGGAGATGATAGA $\tt CCACAGGCCATGGGTCATCTTGAAACTTTTGAAGCAGAGCAGGTTTCCATGGGTTCTGCACCTGTTTAG$ TATAGTAGAAGGTTGGGGAAATCCAGAATAATAGCAAGTAGAGACATGGCAAACACTATCCCACTCGAG TGCCTTAGGTGTACTTATGTAATTATAATAATATTATAATATGTACAATATACACATATGTAATATATA AATATATAATGTATCTCTAAGCTTGTATATTGGAGAGGTGAGATTGACTAGGGCCAAACCATGACATAG AAAGTAAACTCCATTGTGTCTTAAGGCTCTCATTGGTTGTCACCATCTGCATGGGGAAGTCCCAAAGAA ATCATTATCTTCTTAAGATTTATGAGATGGCCAGAACCCTTTGTCTTTCCCTGTCAACATTTCTAGCTT AGATTTTCTAGGTTATTACATTTCTTCAAAATCTGGGCCTTAAATGGATCTGCTGGGCTCCACCAGGAC ATGATTACTCTGGTGTCTGACTCCAGGAGAATCTAGGGAGATCCCAGGTTGTTACCACATTTCCTAGTC **ATTTGCCAGTTACAATAAATTTGACAACAACTGTTACAG**GTAAGCACCCTTTTAGTGCTTTCCAGCACT AGGAATCCTGGAGTTGGCCCTTGTAGGAACAGAGAGGGTTTTATCTAGATGGGACTTTCCCCTATGGAC CATCCTGGTCATTCTGAGAACCTCGATGTGGTCTATGGGGTCCAAGGAGCAGATTTCACTAGAAGACAC CTCTTGGTAAAGTTGAGGTCAGCAGCTATAGGAGCCCATGGGGAAGGATCACTGCCACAGAGGAGCATG AACAGGCTGGTGAGAGCTAGCTGGATCAGAAGTAAGACTTCAGGGCAGACAGGACTCAGAAGAAACCTC CAGTTTGGATCAAGGAAAATGTACTACCTCCTGCAGGCCTTGTGCTATGAGGACTTCAGAGCTGGG AGATTTGGGCCTCCCTTTCTCACTCCATTTAACAATTAAGGCAGAATAACTATCTTTGATTCAAGAAAG GTAGACTGCCACCATTAAGAGTCTAGAAGTATACCCGAGGCAAGTCTGGGAGATTAGTTGAGATTACAG TAGATAGATGTAGAGCTGTTGGCATAAGTTATGGTAAGGAACAGTATAGACAAAACCAGGGAGGCAGTG TGTCTGTGAATCAATGAGCTGATTTGTTTTGTTTGCTAAGATGAGTATATGCTAAAAGTCATTAGAAAT AAGGCAAGAGTGAAGGGTGGTTCATCATAGCAACACTCTGAAATGACCATACAAGGAGCTGGGAGAGAG GAAGACAGAGTTTACTTATGGGAAGAGTAACTCTGATCCCCAAGAGTTGGTTAGCTCTTTGCTATGCAC TGCACCAGCAGGTACTTACCCAGTGATGGCAAGGCCTTGGGGTTCCATGTGACAGGAGGGCAATGGAAA GGAGAGATTACCT