

Table S1. Predicted potential promoters from 1st chromosome of the rice genome: the coordinates of the beginning and end of the predicted promoter sequences (start and end) in the *O. sativa* rice genome; DNA strand orientation (strand); the length of promoter sequence (length) serial number of predicted promoter (№); nucleotide sequence (sequence). TATA-motifs are in **bold**.

Cis-acting element involved in:

the abscisic acid responsiveness (ACGTG, AAACA, CACGTG, CGTACGTGCA),
low-temperature responsiveness (CCGAAA),
the MeJA-responsiveness (TGACG, CGTCA),
anaerobic induction (AAACCA),
gibberellin-responsiveness (TATCCCA),
phytochrome down-regulation expression (TGATTTTACA, GGATTTTAAAGT),
light responsiveness (CACGAC, ACACGTGT, TACGTG, CACGTT, CACGTC),
auxin responsiveness (GGTCCAT),
meristem expression (GCCACT).

As well as just: учтено

cis-acting regulatory element (CCGTCC),
common cis-acting element in promoter and enhancer regions (CAAAT, CCAAT, CCCAATTT, TGCCAAC, CAACCAACTCC).

(when crossing different cis-acting elements, some parts were highlighted by changing font color)

Sr. No.	start	end	length	strand	sequence
1	5634017	5634492	476	-	GATAGGATATTTTGTCCCAAAACAAAGTTGGGTTTGTAAAGCTGCTTTGGTTACCTAAAATT TTGCAACATTTTGTGCAATTTTGTGT TATATAT GATTTTCTTTATTT TATATA AGTTT GAATATTTATGCATGTAAC TTATA AATTT TATA TGGACTGTAAGTTTATTCATGTTTAAAG TTAAATAATTTATTGTTCAAT CCGAAA GAAGTAACTTTACAGTGGAGCGATGAGAAGTA TTGT TATA TTGTCAATCCATGAATGCAAAAAGTGACTGAAAT TATTTAAAA TTTTATGGAC CC GAAA TCTTTACATCC TTATA AATTTAAATGTCTCCCG TGACCTG AGCAAAAATTC AAATAT AAA CAACTATTACAACAAAGCATGCAACT TTATATATAC ATGATTTCC TATACA ATAC TCCCTTATTTT TAATATAC GACATTGTTTATCTCATTAAAAAA
2	23193444	23193966	523	-	GAATCTGGTGCTATGGAGAATGGAGAAAGAATCTAGAATCAGGTTGTTGTTTTGTTGACTT GTTTTCCCTTATGAATTATCCTCATCAAAATAAGTGCATGTAACAAAAAAGTT TATAT AA ATAACATGATGTAAGTATGACTTTAACATTAAACAAACAAAGAGGTGTAAGTAGTAA TATAC ATGTGTTCAAGATAACAAGATTTGGTAGAATTTACGATCCCATGATTTT TATATT TATATTT CAGAAACAACGTTTAGAATTAGCACAGAAGTATTGCATGCTTCACAT AAACCA T CACTTCATTTAAGGACAAAGGGCCAAACAAAAAGATGTGCAGCAAAAGCCAACCTTTTCGTG GAGTACTTTTGATAGCCTCCATAAAACTTTGCATCTCCCTCAATATGACAAGGCTATCTGA TAATGGTGTTCAATCCCATCAATTGCACTCTTTCCATCTCTCCTAGAGAAAGGGCGGCTGA CTGAAGCGCATATCGCATGTGCATCAGCTCAA
3	24122935	24123517	583	+	AACAGCTTCTAAATGTCTAATCTCCCCTCTAACCTC TTACA AAACCA TTTGCCTCTT GTAT TAT CACTGCTCAGTGCTCACCTGTACCAAGCCGTTTTCAAGAACATTTGCGAATTGTTAG TCGTTGGCTCACTTCATTATGCATATCTGTTTGAATCTTTGTTTCATTGTTTGGTCAGCCGG TCGAGTTAGCCAGCAACCATTGCCAAGAGATCAGTGAAACCTATCCTCAATTGGTCTCTGA AATGCTGGCCATGGCGCCATGTCGATTATGTCAGATTGGTCAGTGATCCGGTCAGGTTAGG TCAGAAGATCTCCGGGTTGCCGGGGCCGTGGGGCATGGCGCCGCCGCCACCGCCGCCGCG GCGCAGGTCGGCCTGCCGGAGGTGCAGGGACAGCGCGTAGTTGGACGCCTCCAGCCGCC GCACCTGCTCCCTGTAGTCGTCGAGCTGCCACCGGAGCTCCCGCTGCGCCTTCTCTGCGCG GTCCGCAGCCGGTGTTGGAACAGCACCGCCCTCTTGAGGAACCCGATCTGCCTCGACGCG GCGTCCAGCCTCGCGGCGGTGCCAGCGCCGACA
4	24237415	24237903	489	-	AATT CTATAG CACCTCCGGTTACGAGGGACACGGTCGCATGCTCTGTAAAGCTTGGAATGT ATTTTATGTTGAACCACTCAGCTTCTGGAGGTAATTGTTGGATAATTTTGAAGATGTATGTATTAAT TCTTAAAGTTGCTAGTTCAAGTTT TATAC GTAGGAGTTGATTGAAAAACAATTTCTTTT TGTCCATTTCTGTTATGGACGATTATCTATTTATCCATTTCTAA ATTATA AGCTGTACATAAC TTTGTGAAAAAGTT GTATAC GACGCTTCGTACCGCTTAAATGTTGTAAGCATTACGATATTT CTCATGTGGTTCCAACCTCATCTTCAAAGTCCCTAAAGTTGCTCATAATACTGAGAAAGAACC TCTTCAGCCCTCCGGTACAAGTGAAACAGCATTCT TATCCCA TCTGCATTGTCAA

5	26303795	26304223	429	-	TTTTCTTC ATATATATATAT AGCTCACACTATT TAT AGAGTTTGGTGCTTAATTATTGTATT AAATGCTTACTCCAATTACAGCAAGTGATGTTTTAGAATTTGTAACATAATTTAATTTCAACT ATGATTATCGTTTGGAA TAT AGGTTTTAGGCATATGAAATGACATGGCCAACTTTGT TAT A CAAAAACTTTCTAGTATCGCATTTCATGCAAAAGAATTATTCTGTCCAGACATAAACATT TATGATAATATTTGATTATTTGGTCAAATTTGTGAAAATTGACCATCCATAATTTCTAAAATG TCTTTTTTTCTTAAAAAAATGTTATG TAT AGATTTGCCTTGAAAAATAATGTCATAATAGCC TGAACCTTAGATTT TATA AACTATTCTTGTA AAAAATTGATGGCCAAAGTTTCCAA
6	26777727	26778264	538	-	TTTGTCTTAGATAATACTCTTTAGATCTAATTTTGACAGCTAAATATGTTTCATTTTTTT CTAT AC GACTGAAGTAGTTGTAGCAACCTTTAGTTTTAGGTTAATTTTAA ATATAA TCATCACA ATCTAATTAATAAGATTAAAAAAGATATTTTAAACAGTTTATGCACCCATCTGGAATGAT GTGATCTATTATGCTCAACAACATCTTTATTTTGATTACT TATATAA AATTGAAATAATTA GACTAAGAAGCTGAATTGCT TATATATACA ATTAATTATGTATGAAA CAAA TATTTTTTT TATTAATATGTGGATTAGAAAACCAATTGTTTCTTTAATAAGTTTGATCGTTGAGTTGTG GCTTAAAAAATCTCGAGACAGTCATCAAACCGATTACCTATTTGTTTCAATCTCTATTTCAT CTTGTCTGTTTGCACCGCGTCGATTAAAA ATATAA GTCAAAACTAAAACCTTTAAAAAATAA TCATATGCCCTCTTCTCCTCATAATAACCAATGGCTTTG
7	28002899	28003459	561	-	TTGTAGGTGTTTATGTTTCGATGTTGTAAATTACTTTAGAATTTTGTGCGTTTTAGATTTTA CGTTTGGAGCACGGTAACACTAGATGTTTGTGTTGCTTTCACACCTCACTTTCTTTTTTTTC CATTATAT CAAATTTG TATTTAAA ATTCTTTTAGTGTAGTAGGGTTTTATGTTTGATGTT GTAAATTACTTTAGAATTTTGTGTTTAAAG ATTATA TTTTACATTTGGAGCACGGTAACA CTAGATATTTGTATGCTTTCCACCTCACTTTCTCCATTTTGCCATTCTATCAAATTTG TAT TTAAA ATTTCTTTAGCGTTGTATGGGCGTATGTTTTGATGTTGTAAATTACTTTAGATTTTTT TTTGCCGGTTTAAAGATTTTACACTTTGGAGCACGGTAACACTAGTTATTTGTTTGTCTTCCC ACCTCAGCCCTTTGGATCATCCATCAAAGATTTTCTGTTTCCAACCCCCCCCCCAGCCCC CTAAAAAAGAAAAAAGAAAAAACAACATTAACAAGAAGTGATAGCTCTGAA
8	28409073	28409656	584	-	AAACAAATACGATCACGAAAAATTCTTGCAAGGTGAAAACATTTGAAACCCAGCTCCCAAA ATCAACGAGTATCATCTACTTGATACAATTTAGGTCAGAGCTAATCTGCTAAATGTACATAG AGCCTGAAGATTATGGGGGTATCGGTTTGTAGCGTTACCGGGGATTAGAGAACTAATCTT CAGGAG TGATTTTACA GTTTT TATA AGTACTAGGAGGTATCATATTTATTGTAGCGTAAA ATTTGGCATATCTTGATACCTCCGATACCAGGTCATATGAAAATTTACACAATTTGATATCT TTCGGTATCTCTAAAATCTGTAATAATCTCAATCTTCAGTTAACTGTGAACACCACATGGA TCACACAATTCAAAGCGACATAAGAGGTCGGCTGAGCCCGGAAGAGTGAATGAATGACAG AAAAGTGTTGAGCTTAGCGGCAGCGGTCCCGTTTCGTAAGACCGGGATCAAGAAAAACG ACTTTTTTTTTTACCCCATCAAGCGGTTGCAATCACGCCAGAGAGCGCGCCCTCCGGGCC TTCTCTCGCCGCCGTCGTGTT CGTCAT GGC
9	28832481	28833057	577	+	ATATAT CTTCCTTGACCCTTTTTGTTTTACAATTGAGGGTTGTAGTAGTATTAATTATTT GG ATTTTAAAGT GGGATTTGAGAAGGTGCTCTGTATGTATCTACGCGGTGTCGGTTTATTAA GCAACGAGAAAGAAATATTGCTTACAGATGCTGATATGTGGGATTGTCCATGTTTCGATGT GCATGACTGCAAATGAGCTCATTTTTGTGCTGTACGTT TATAC CTATGTGGT TATCCCA AAGA TTACCG TATA TGATATGTAAATTCTGCACATACATTTTCATATGCAGCAATTCAAATGCTCT ACCTATGTCAATTATCGGGAATTAATTAACCAGATGGGGAGAAGCAAAACATACCATGATAC CGACGCAACTGAAGATCGTGTTTGTGCGGTTGGAGGATCAGTGAGGCACACGCACGCGC CGGGATCCATACCGCCAACGGCGCCACCGCGCAGAGAGCGGAGATCTCGACGAATCCC CCCCGTACAGCAAGCCCAGCCACGGCCGCCGCGACGCTCCCCGAGTTCGGAAGGCCGCT CGCCGCCACCGCGACAACCGCGTGGT
10	29559166	29559731	566	+	ATCCCATCAGGGATGAAAAACAATTGATTCTATTAATGCTTTCCTTCAGTGGAATGACTTT TTCGTAGAATAGCTTGCTTCTTAAACCGCGCTATTGTGGTCTGGTTGAATTTTGCTCCTTTTA CTTTGTAGCCAAGGGAGGAACTCAAACGGAAGAGAAAGATCACCTACAAGTAAGGCTGG CCTGACCATAGTTGTACTAAAAAATGCATTT TATAC GCAGTATTGCCAATCAAATTTAG CAAAGAAAAACGGTTTTTCTATGTACGAGCAACTGAGCAGCCGGAAGGAGGTTTTGGTGGA ACAGCGACACCCGGCTCCACCCACGGGTTCCGAGAGATTCTTTGGCGGTAGGTGATCC CAACCAACGTCGTCCAGGCCCCACCCCGCAGATCCACC AAACCA CACACGGCCGTCGCTGA CTCACCGATGCACCATCGCCAACCGTACTCAGCGACCCCGCG CGTCA GTGGGCGGATCGG ACCGACGAGCCGCGCTGCTGGGTGCACTGTGCAGCGCCACCCCGCGACC CACGTG TTCC CGTCCCCGCCCATGCT
11	29561875	29562462	588	-	TTTAATCTTAACACCGCAAGAAATCAGTGAAGAAAAGCAGCATGCCTTTTAACATCACATAC ATGTTAAAGATCGGGTGTGTTAAGTAGGGGCTCTTGCGCACAAGGCTACTCGGAATTGAG CTTGACACCTCTGATGCGAGGGATTGAGCAGTGAAGTTCACCTAAAAAT GATTATA ACGA

					CACGATGTTTTAATATCATGATCCAATTTACATCAAGCACACAAATTTTGCGCCGATTGAA TGATTACTTACTGGCTTGCCACCATTGAACACCTTGAACAGCTTGTGACATCCTCTAAGGT TGTGGTCTCATCAAAGGCCACGGTTATCTGCAACATCACAGCTTGAATTTAATGCTCAACAC TCAACATCAACTAACTCGGTTGCAATAGAACGGAATGTCAACAGAAAGCGAACCGTGG TTGCATCAACAACACGAAGGTTTCATCTGTTCTTGACAGGCTCCTGGGCAATCGCATTGCA TCAGCGACCTTGACCTTGACAGTGTCAAAGAACGGCAGTTCCTGCACAGTCACTGTTCCGA GCTTCTTCAGTCCATGGGCAAAGGTACCAGCCAGGCC
12	29593372	29593947	576	+	ATATTGAATTATTGATGACTCGCTCTCGTGTTCAGACGACCCCAAGCGCCGATCAAAATCT GTTTTTTTTTTTTTGTGCTGATGATCTTCCATCTCGTTTCTATTTGAGATACATATATGTCTTC CCTTCTGTCGTATGTCTCGTACGAACGTATCGTATCCTACCCAAAATCCTGTTCTAACTGGTA AGTCCGGCACTTGCATGAATACATCTCTCGGTTCCGGCGTTCGGCCCTTTTATCATGCGTG AAACAGAGTCTGCGCGTAGGCACGCCAAAATCCCTGTCAAGATCTCTATAGCTTCCACGCT CCCATCAAGCTGAATCGATCTCCGACGAAGAAATTAGCCGGACATGGCGAGAACAGCCCT GTACGGCAGCAAAGAGGTGGACCCCTTGTGGTGCTACAGACCAAAGTCATAATCCTGTTT TATGGTATGGTGACGATAGTTTTAGTGCTGGGGATCCCGGCCGCTGCCCTTCTTTCAACGC CGCCGAGAAGGTCAAGTACACCTTGATCTCGCCGCCGTGAGGGGATGGACGTCGCCGC CGCCGCCACGGCCGGCGCCGG
13	29594054	29594586	533	-	TACCAAAGTTAAGTGACGACTTTCGATGCAACAAAATTAaaaaacgaaaacCTTCAATGCT ATAAATCAAATGTTATTACTCCATATCCTTACCAAGGAATAATGTTTTCATTCTATTTACT TTGGAGATAACATGCTAAAAATATGAATTAATATATATGTTTCTATTTGAAAAAGGAAA AAAAGTTATGATACCAAACAAGAAAACGTGAACAACGAAGAAACAATATCCATCAGCCTT CCCTTGACCAAATGTTATTCATCTCTTCTCCAGCGTAAGCTCCTGTGAAATCCCCACCAT CCCAGTGCTAGGCGGAAGGCAGCCATAACGAAATTAGCGTAGTAGTGACGTTTCATCTCG ACGTAGACCTTAGCCGTCCCTCCTGCAGCTCTGAGACAAAGCGTTGCGGTAGCTCCTGCG ACAAGTGGACGTTCTTTCCCAGGGCACCACCGTCAAGCTTGGCCGTGACCTCTTCTGCACG CAGAATCCCGGGACGCGCCCCACGCGAGCGCTACGCCGA
14	29655728	29656263	536	-	GTGCTGCTGCTGAGAGGCAGACTACAATAGGATCACCCTAACCATTTATTTATCTGTTAT TTAAGAAATGTTATTGCTTTACAACCTAATTTCTTATCTGAAACCAAGGCTTCAAGTTGATG CCATTTCAGATTGTCTTCTTTGTTATGAAAAACAAGAAAGTATGCGGCCAAGAGAGC TCTTACTGAAGCTCGTGAAGAAACGAAGATCTACTGAAGAGAAATGAGGACCTCCTCAA CGGAATGATGACTTGATTAAGAAAATTGAAGAGTCTAGCAAACTATTACTCAACTTCAAG AGACCTTACAAAGGTGCATATGCAATTTTTATTTCTTATTTTACCTATTTGTATGATGGTA TCAGGCTCACTCTATCATTGTCAACTTCAATTAATAACTTTTTCCATCCTTCGTAAACAG GTTGGAAGGAAAATCAACGAAGTTAGAAGCTGAGAACCAAGTTCTCGTCAACAAGCAAC TGCAACTCCACCATCAACAGCCAAATCTTCAGCTTCACGCTC
15	29682929	29683518	590	-	CATTTTTAAATTCGAATACATGAATCCCTGAATTCATCTACCTACACAAATTTTTGACAGG TACATCTTTCCACCCCAATCTGTCAAGTTCAGGAAGGGAATGTATCAATCGCATGAACAAG AACAACCCATGTCATCTTCTGCCCTTCCAAGTTCCAAACCTTCAATACGACCCCAACATC CATCCACCAAACCTTCTCCTCCGCGAGTTCCACGACTTCTTCCATGGGTTTCCACTCCACCAC GAGACAAGAATTCTGTCCTCCTCAGATCCAGATCCAGCTGACTGAACAAGGCCAAAGCAC CGAGCCGGCGAGCCCGCCGACAGTAGCTGCAGCAAACACGACGAGGAAACCAAGCGGGG CAAGGCAACCAAAGCCAACAGCCAAGCAAGGCATCCGCTCCGCTCCGCTGCCCTCACGC CGGCCGCGCCTCCTCCCCAAAAATCCCCACCCAAAATCCAAAACCTCAAACCTCCTCT GCTGCTATCCGTCCATGTCTCCGCTACCTCGTCCCGCCGGGGGCCGCCGACCGGGC GGGGGGCGACGCCGGGGACGCGGCCCTCGCGCGCG
16	29854966	29855558	593	-	ATATTTTGGCCGTCTGTGCTTTTGCTTCTTCAGAAAGCGAGCAACCGTTCGTTGGCTGAT GATGGTCCATTTTTAGTGTTATTCGGCCCCAGCTCTGGTCTTGTCTATGTTTGTGATTAT GTTCTCTGGTCCTGTTTCTGAATTTGTTCTTTTCTCTAAGAACATCTTTGTGAAAGTTTT CGATGTAGTAGATGTTACAAGGCATGTACTGTGCATGTCCAAGTTTATGTCGCTTTCGTG ACATTAGAGCACGTACAATGCCTAGCCCTAGGTCAATCCCTGGCTCACGCCATCGGCCTCC ATTGCCTTTCGTGCGTTTGCTCGCGGGGGACGCGCCCTTCGCCCACTTTTGCTAAGCCACG GAGCCGAGCTCTGTGTTGGGCGCACAGTGGCTACCAATGTAGTCTATGGTCACTGCTCCA CCCCAAAATTTCCAAACGACTCCTCGGGACTCTCCACTCTCGCCCTCGTTTCTATCGACC TCCTCGCGGGCCCTCGCCTTCTCACTTCAACGGCCGAATCGTCTGTCGTCCTCCGTGAGAG CAAGCTTCGGGGAGGGCAGATCCACCGTCAAA
17	29915311	29915908	598	+	GCAGAGAAATCAATTATGAAAGAGCTAGTAGTACTCCCAATTTCTTTTCTGCAAAAAAGA AAATAATAAATCTGCACACGTGTGTGAAGAGCTACTCGTCGTTAACAGCGGATGATCTT TCATGACTTGATAGATGGTTGTTGTTAATTTGTTGACTGTGCATTGTGCTAGCATGATTGGA ATGTTCAAGATGAACCTAGCTAATTTGATAAATAAATGGTGCCCACTAACAGTACATGAAG

					GTGAAATGAGAACGATGCACCATAATTTTTCCCGAAAATGTTCTTTTCTTTTCACGAAG ATATGCAATCGTTTGTGCACAATACTAGTACTACTAGCACTATTACCTGCCCGGATACTGC GTCACTCACCATGCGGCATACCAGTTTTTGGACGGAACGGCGTTGCCCTGCCGCGGAGCGT GGCGTGGCGCCGGGGTCCCCATGGCGAGTTGGCTTGGCCCGGCCGACGGGGGGAGCAT TAAACCCCGTTGGCCTCTCCGCCCGAAATCCCGTTGCCCCGACGGAATCCGGCAAG GTAGAGCCCGCGAGTGCACCGTGACGCGCACCAGCGACACGCTGACC
18	29924963	29925542	580	-	GTGAAATTTAAATTGGCGAAGATAACAGAAGTGTGGAGAGTGACAAATGACACGCCATAGC AAGGAAGTTCCATGCAATGGAGGTGATGAGATGGGGAGGTAAAACGCAAACTGAAAAA GAAAAGGCAAAACATATCTAGCAGGAAGAATTTAACGGAACACGCTATATAAGGGAC ATTAATAGGTGATGACGATGGCGAACTATATCTAGGGATGGGTAAAAATTGAGACAAAAA TCAAACTGAAAACCGAGACCAACCTGAAAAACATAGTATCGATCATTGGTCCCTAAC TCGGTCTAGGTCTCATGTTTACAGGACCAATTATTTGATTAGTTTATTGCATCGGATACTTG AATTACCGATCTATTCAAGCCTTATCCTAATCCCCTCCTCATTATCAATATATCCCTTCCAC TTCCTCATCCACGATAGCACTTGACGCTCTCGTATGTTATCTTGGCGCTCCTCTCCCCTCCT CACCTCAGAACTTCTTGAGTGGACCTCTCTGGCTAGAATGTCTCATGGCTTTTGTCCCTCAT TGGCCACCGCTGCCTCAACGGCAAGGTGCT
19	30206231	30206772	542	-	AGTTCATTGCTGAATGGGTTTGAGAAATTAATAATTTGTTTGCAACGGAAGAATTTGAAGG AATTATGAAGGATTTGCGTTGTTTTTTTTTTTGTACTACAAAAAGTATCAGTATTGCAAA TTGGCAACGCCATTCAAATGGTTGAGATGTGTTCAAGAAAGGGTATCTGACATGATGGACA CGCATTTGTGTGTGCAAGACTGATGAACATATGAAGTAATTTGGTTTGTAGGATGACTTCC AAGTCAGGGAAAAAGGAGGCGGCATCTTTGGCTTTTGACCATACTTATCACAGTCCTGT GACGATATATACAAAGGAACAAACATACCATAACAAGAAAATAATGTTTGTTCGAAAAAA GACCAATCGTTTTCTGGAATGGAGAAGAAAAGAAAAGGAATCATAAAGCGAAGGAC GGGTATCTCTAAGCACATATGTACGTGCCAGCGTCCACCACGCACAAAGGAAGAAG GCGAGATTCTCGTCTCAACGAGAAAGCTGATGTCTACACAAGAACTAAGCCAGA
20	30556057	30556605	549	-	ATGTCACATAAGGAAGAGGTAAACTCGATATATTCGATCACACTAACAATGAGTTGACTG CAAATAGGTACAAAGAGAGCTATAGGACAGAATAGCATAATTTATTAAGCAAAAGAACTG GAGTTTCGTAGTGCACAGGACCTTCATCTAATGCACTAACTAAACATACAATTCCCAAGCC CTAAAGTCCTAATTTTCATGTATTATTCCTTCCATCCTGAACTCATGAAATAAAATGGGAAA ATTTCTAGCATGCTCTCGAGTTTTACTCAATCCCTCCATGTTCTAAGAAATGTGTGGTCCC CTCATGTCAATTCATCACCTCCTCATCGTTAACCTCCATTATATCTTTCAATATGGCCAAA TTGCCATGGCACAGTGCATTGGCTGACGTCCAAGAAAACAAAAGGGAACAAGAGAAAAG AGAGGAAAAGCCCATGAGGAAGAAGAAACACCTCACTGATCACTCTTAGGTGATAGAATAG GCAAGCAAATAAGCTTGCCAGTCAGAACTCAGCACCTTAAACCTAAAGGCATAACGATT
21	30557486	30558071	586	-	ATGGGGGGAAATAATCAACAATAAAAGAGTATCATTGCTTGAGGTTTACAAAACAAATCA CATAAACTATTGACGTAATAAGTGATAATAATTTTGGATCAGCAGATCAATTATTTTTAT GGTATACACAAAATATTGGGTATTTGTGCATGTATTAAGGAACCTGAGTTTAGAGAAAAAC AACCAACTGGATGAAGATCAACCAAGAAAAAGGGGGAAAAAAGGGAAGAAGATAATCCA AACTGAAAGTCTCACATTTTTTTTAGACCAGGAAAAAGAAACACCACTAGGTAACTCCTG GATTGTTGCTCCTGTCAACCTACAATGCCGCTTCTCCGCATAGATAGTTGGCACCAGGGCT TGCTGAGTTGGTTGAAGTATTTCTCTCTAAATCATCCAAGTCACCACTCAATGGTATCAA GCCGAGCTGCAGATGCTTCAGAATCTACCTCTGCCAAGAGCCGCCAACCTCAAAATTGTT CTAACTGCTTGAGAAGCAGCTTGTCTGTACTCAGGTTAAAGGCACTTAGAATTAACCACCG AACCTGCAGGGATTCCGGGAAAGACTAAGATGTGGCCG
22	30810940	30811525	586	+	AGGGAAGTGAGGTTGTTCTTTTCTTTTCAGTACGTATAGACAAGCAGTGACGAAACCAAG ATCTTCGTACGCCTAGGGCCCAAATTAAGCTAAAACTTGCCATGACAAATGTGCGGCAAAG TATAGTACAGGATGGAAAAAAAACAAGAGTAACTAAAATTAGGCAACAACCACATTTGG TTTAAGCACATAAATCTTGCTCATTGTTACTAGCCATGGTTTCTACTGAATTAGGCACTG GGATGGAGTCATTGGTTTCTTCGGTTTCTAAGTTGCCGGGGTGGATTCAATTGAGGACTG AACTATATTGTCCTACTTCTCTTCATCTACTAATTCAAACCAATCTAATTGAGTAATATGAT GTACTAAAGCTATAGGTTTGAGATTTAGATTGAGAAAGTGAAGGAAGAAGAAAGA GAACAAAAAATTATTGACCTTCCACTCCCGCACGACGCCAGTCCACCGCACGCCCGCAC GGACCGCACGCTGTTGCCTGCAGGCTGTCGCTCGTGCAGCTGCGCCCCGCTGCCGCAC GCCGCTCGCACCTCCCCGCCGGCCGCCACCTATCGA
23	31133856	31134440	585	-	GCACTGTATATTGTTCTTGTAACCATTTGTTTCAAGGGTATGACGCTGCTGGCCGGGCAGCT ATTGGAACAACCATCTTAATCACGCCTTGGTACTTACTGACCCTTAAGGGCAATGCCAGTT TTAAGAGACATCTACATAGAAAAGTTTGCAATGAACCCTGCAACCTACCGTCTGGAATAT GTTAACTATCAAATCAATGTCGCTGTATGATAGCAAGAACACCTTCTCTGTTAAGGCGCCT

					GATTAATCTTAGAGCATGTGCATTGTTGAATTTAGAGAGGGTTCTATAGGAGAGAGAGAA GGTGATAAGGCCGATTCTACGCATTGCAAGATTCTCCCTGTTGAATTTAAGCATAGTGACA GGCATCAGTGCTAGTGTAGAAAAAAGTATATTGGACCCGCATGTCAGATATCATTGCTCCC AGAAATAAAGTGGCCAATCTCTATTTCTTTTTTATTACAGTGGTCCCAATTAAGAAACAC GTGGTCCCAATTTGATCGGCCTGAGCTTCGCACCTCAGCGCCAAGGCGTTTGGTGCTGA CCTTCGGCTCTAGTACACCTTCACCGCGAGGGGG
24	31415775	31416350	576	-	GAGAAAAAATGATAGGATGCCGGTAGGAGAGGAGGGCGCTGGCAGGATAGTGTGACG ACGACGAGAGGATGCCGGCGGGAGAGGCGGTGCGCGCAAGACATCACCGGCGACGAG AGGCGGAGGGAATAAGTAGGAAGGAGGTGGTGGCGGCTAGAAGGGGCGAGGCAGCGA GAGCAGATGGATCTTCATCTATGGGCGGCAGCGACGGAGCTTCATTGCCGCGAGCACCCC GTTGAGACCAACGGCGCCCCACAGCCGACCCTCGGCCTACTTTGGCTTCGTCTGTCGACGCC GCCCCACATGCCACCCTAGATCTGCCTTGCCTGGACCACCTAGGGACCTTCACCACCACCT CATCAACCACCCACCGTCGGCACAGCCCTCCACTGACCCCGTTGCCTAGCAGCCAACCCAC CTCCGTCGTCTCCATCTCAGACTCTCCCGGCGCGAGCTCGCGCTGGCCCTCGGCCCTCCACT GTCGGCCGCTCCACTCCGCCGCTCTCTCGGCCCTCTCTCGCCAGCGTGGCCGGCCGCT CTCCCTCGCCAGCTGCTCTGCCACCGCCGCC
25	32105302	32105851	550	-	GGCAAGCAGCTCACTGAAGCATGATAGGAAGATAAACATAATCTAGCTAAGCATCATCTTA TTGTTGTACGACGTCAGAGTGTAGCATTATATTGCCTAGTCACAAATAAATTAAGAACTT AATTTAGAAGCTAGTAGCAAAGTAAATTCGAAGAGGATGCTGAAGTACCCAGGAAAAAGT ATATTGAGGCTAGGAAAGGATCAGCACACGTTGCAATTAATTGTGAAATTGTAAAAATG CAGCAAAATGATTTTCGATCCATTTATTAATTAGGTCAAAGATACGTATAACCGTACCAACT GATCAAATTGATGATCAGATTGACATGTGAAAAAGGAGGATCAATAAATTATACTCCTAG TATATGTATTGGGGCATATATGTTTTCACTTGATTGATAAGCCGGCTAATCCTATATAGC TTAAGAAATCATCAATTACTATGTTTTCTCATACGTATTATTGTCAAATTAATATATATGTC AATTAAGTCCCAAATTAACCTTCTCAGTCAAATTGATCTGCTCCTCACTAATTAATTGCCA A
26	32194446	32195041	596	-	AGGGGTCGTTATTTGATTATTTTCGTAGGCAACGAAAAATATATTATATTTAGTATTCAT GGAAGCTTAAATAGGACAACTATGCATATGTGGCTGAATATCATTTTGAGAGTACGCTG TCCTGATCCATAACTCCATATATGCTACATTGTGCTTAACCTCTGCCTCCAATTCCTACTCT GCTGAATTTTCCTCTGCAAAGTGCAAAACAGGCAGGAGATCGTATTAGTTGCTAATATGAA ATTAACAAAATTCTAATTTTCATGCAAGCCGTCGCTATGCCAATTAATCTCTGACTGGAT TACGAGATTAATTAACCTCGTCTTTTCAGTCAAAGTCTACAATTTCCAAAACAAAATCAACA CACAAACAAATTGTCAAAGACTCAGACCTTGAAATAAACGACTGCTTATCTCTGGTCAAGA AATCGCCGGAATAACAAACAAACAAACAAACACCGGGAAAAATATATAAACAATAAAAGGGAG AATGCCGATCGAGCTAGCTCGTGCATTCCGGTCCAAAACCGTTGGCTGCTCGACCGAATCA CCTACCGTGAACAGCCGCTCTCTTTACCTTCAAGCCATCTCC
27	32402570	32403152	583	-	AAAAGCATATTTGTCCGTACAATGCATGGCTCCCCTAGTTTTGTATTATATGATATGAAA AAAAAAACAATCGGGTAAAAAGAATAGGAAAAAAGAACCATTAGTTTCATATTATATGA TATAGATACCCTTTTAAATAATATTATTCTGCTGAATAAAAAATGAAGGGAGAGCTAGCAG AGGGACACAGTCATTAGGGGATACGTTAATCACATAAGGAATTTCTTAATTTTTATCAGT AAGGTACAAAAATTACTAATGTAGTAATTAACCAATTTGTAAAAAATTGAGATGTATCTT TTTTTTTCAATAAGGAAATTCCTTGAGTTTTTCATGCGTAGTTTGCTCCAAATACTTCCCG CCAAACTCAATTTCCCTCCAAGTAGTACCGCAACATTAGATAACAAACCTGCTAATCTCTCT CCACATCTCTCAACGAATAAGCTCCCTATATAATCCCATTCACCTGGAATCAGTTAGT CAGTCTTCTGCTCCCCATTATCTCTCACCAGAGCACTCTCCATCGCCTCCTAAGATCGCA TTCTCAACTGCTCAGCCGCGCAGGGC
28	32574618	32575198	581	+	GTACGTTTGTATTGCAAAAAGTAGATCGAGACAGTTAATTTGTTGTTTCATGGTTATCATG GTAGTAGTTCGAAGGGACAAGAACTTCTATGCACAAACGTAATCAAGGCCATAATTCGGT TGAACTGATCAAATCAATCATCGACTCCGATACAACTGATCGTTTGAAATTATCCCATGC CGCCAAATCGCCAATACGGCAATACCACGGTAACAAAATTAACCAATTACAATAACTAAA CCACGGGCAAGCCGACGAGTCGGATCCTTGCTCATCAACGTAACCTTACAATAATTAATC TGTCAGGAACGTTCTGGCAGCGTAGGCTGGCGAGGTGACTTCGTGCAACGCCTTACAGT CGATGTCGAGCACCAGCGCGCCCGACGAACGCGAGGCGCATGCGGCCGCGGAGG CGTCCGACAGCCCCACGCCCTGGCCCCGCGCCACCACTTACAGTCCCTCCCGCCGCC CGCCGCGCAGTCGCGCGGCTCCGCGTGCGCCACCCGAGAGCCACGCCGAGTACAGCAC GGTCACGGCCGCGCGGTGACGACGCGCCGT
29	32944583	32945178	596	+	CGTGTTGCGGCAACAAATCAAATTTCTGCGAAACGAACAACATTATAACCGGCCGGCC GTTAGATATATATTCTGCGATTTCATTTCAATTCATTGTTTAAACAATAGCAAATAAGTTGA

					TCTGCGAATTTGCGGGGCCATCATCCAGTTGGCACTTGAACCTGCGCATGTTAGTTTTCCC TTAACAAACCAAAACAACAACCTGCTGATCGTTAGAGCCGGCCAATCACCCAGCTATAC CAGCTGCTGCTAATCATAGCAAACCTAACAAATGCCCCAGCCTGTGAAAGGAACTCCCAGCC AAGCAATCCATTCTTTATTTCCAAGGCGACCTGCCCTGCCTAAACAAAGCACACATGCAACG CAAAAACAGCCTAAAAGCCTCCCCGATCGCAGCTATATATAAACACGACCTCTCGCTCTTC TTTTCATCCCAAATTAAGCACCCCCCCCCCCCCCAAGCCCTCGTAGCTTTCTCGTTAATTCT CCGTTGCCAGCATCTCAGTCGATTATAGCTAGCGATCGAAATGGCGGCCACCCTCAAGC TCAGGATCCTCGCCGCGCTGCCACCGCCGCGTCTGGCGT
30	33236531	33237113	583	-	AACTGGCAACAAAATCAGAGGATTTCTGAACTATGGACAAGATGGTAGTATTACAATCCCA AAGAGTTGGGATGTGAGATTATATAAGGGAAATTTGCTTGCTAGTCAAAAATAAACAATTTT GCTTACCAGTCAAAAACAAGAAGGAATTTCACTTTGCAAGTGCATGTATACTGAGATACGG ATGAACAGATCAAAATATCAGATCATATGCCTGAGATTTTTGCTGCGGAGACGAGGAGTAC GACGATGATGCTGGTATGACACGAGCGGCTGGGCGACCCGACGAGCGGCGCCATCGCGG GCAGCCGCCGCTCTGCTCCTGGGCTGCCGCCACCGCCGAGCACGACACCGGGCT GCTTCTCGACGGCTGGGCACTCGAACGGGCGCCGCTTTCGAGTCATGGAGTGGATGTCG TATTGGGAGCGGATGTGGGGGCGAGGGCTGGCGGACGGACGGTGGCCACCTCGACC TCGCCGGCCGCAAAACCATCGGCTGAAGCCATGGCAGCGACGGGCGCTCCACGCCTCCC TTCTCCTCGCCCTTCTCTTCGATGTCGCGGGCCGCGCCGTCC
31	33285904	33286481	578	-	TTACAATTTTACCATCTTCTGTTTAGTTCTTTGCGTGAACAAACATACTAAATGGGTTCAA TGTTTTTTTAAAAAATTATGAGGTATTGAGGTCAATTGACAGGGGCTTATAACCCGTATA CTTCAAAATACGGAGTACAAATGGGATTAGGATGATTGCCATATTTGGTCCATTGGTTGTC ATGGCGATGTGCATCGGTACGTATGGACACTTTGAGTTGGTGGTGTGGTTTATTCTCAG TTCATTAGAGAAATGTTAAGAAGTATGGGCAGGCTTCTAGGAGATGCCATGGCACAGACG ATGAGACGAACGAGGTGATAAATCTGTCTCAAAAAGGCTACCAACGAAAAGCAGCTAGC GATGCAGGAAGTGTGGTGGCGTAAAAGCGTTAGCGCTTTTGGCGGTACCTCCTGCAAC CACGCCCCAAGCATCTTCGCCGGCCAGCCGGCGGTCTGCCTGCACTTCCGGTGACTCGTG TACGAGCACCCAAAGTGCGGTGTGCGCTGTACTGAAAAACGTAAGAAACCCACCCTCATA CACGGTCAAGTCTCGAGGGAAAGGCCGGAG
32	33497786	33498313	528	-	GAGGCCTCTTGATTTTTCTCTCCCTATTTTGGATTTCTTTTTTTGTGCGTAATGCAGATTTA CTCTGTTTTACTAGATAAATAAATAAAGCAAAAATTGGAGTAGTTTTCTGGTAGAAATTAT CTTGTTGCGATCCTATGAATCAGTTCAATTAACCTTAGATTACTAGAGCCACGATGA TTGAGTCTCAAGCTAAACAAAAGGCAAGGGTTCTCGAATAAGAACCGTTGATGATCATT TATTGAATCGGTGTAATGACTCGACAAAATCGAGAGAAAAAAGTTGTTTTTGGGCAAAC AAAATTGGAAGGAAGAAATTTTCTCACCCGTAGGAACTACGAGATCACCCCAAGGACGC CTTCGGCGTCCAGGGGTACGGACCGACCATAGACCCTGTTCAATAAGTGAACACATTAG CCGTCCGCTCTCCGTTGGGCAGTAAGGGTCGGAGAAGGGCAATCACTCGTTCTTAAACCA AGCATTCTCAGAAAATTCAGTTGCCGCGAGCTCCA
33	33500803	33501310	508	+	TATTCTAACTCGAAAAAGAAGAAGAGGAAAAAATTGCAATGGATTTAAACTAGAACTTAT TCTTAGGTAAATCCATTGGGAGATGCTTCTCTAGAGTGTCCATATCTGTTTTCCATCTTGCA TACGAAAATGTCAATTCTCATCAGATCTTCTCCGTCTTACTCAAAGGTCCAATAGTGAT GGATATTGGCCCTTTGAGACAATTATACGTTCTAGAAGGCAGTTCTAATTGATCAATAAA AATACACTCAATGGAATCTTTTTTTGTTTTCTTTAGATTAGTTAATCTTTTTGAAAGCTT AAAAGGGGGGAAGTAAACCTGTTTTTATTTCTTGGAAACGAGTACCCTCTTCTCCGTGTG AAGAAAAGGAAGAAATAAATCAATCAAATTACGAGAAGCCTATAAAGCGCTTCTTAGG GGTAAACTTCATTGGTCCATTATTTCTAGAAAAAGTATCTCATATTTGCATTTCATTCCC ACAAGCAAAAA
34	33549561	33550124	564	-	TAATAAGAAGCTAAAAAATGAAGCCCATGTCTTTGAAATCCAACGATCGTAATGCCTATA AAATGGAAAAATGAAAGAGCCAAAGTAATGAGAAAAATGACTTGCTACTGTGAAGCTAAAG GGTATCATACCTGGGGATTACGAAATAACGAAAAAGTAAAGTGACCGAGATGCGAGGG AAAACTTTTGTTTAACATTTCCACCTATTTGTTGTTTACCAGTTTACGACGAAATCATAA ATAAGCTCTACCAAGGATTGCCATGCATTTGGCACTGACTTTCCCCGCCCTTTTCGTAACA ACTCCAAATAAAGATGGCACCAAAACGACAGTTACCGCCATAGACAAGGATTCATTTGTGA ATGATAAATAAAAGTTACCATATCAAGACCAAATAATGGATCAATGAAAAATTGATCCAA GGGGCTTGAAATTACTGGTCCGCCGCTCCAGGGATAACTATATCGCCGTTCTCCATTCA GCCCCATCTAAACCTCTATTCCGTTCTGCCAGTTATTGAAACGGATACGCTGCGCCCTCTC AAATGGTTCAA
35	33558255	33558845	591	-	CCATCAGTTGATTATATAACCCCTCGCCAATGAAATTAATTCATTTTATGAAGCGAGGAG AAAGAAAGGATCAATCGAGGATCCAATATTTTATTTCCCGGAGGAAGTCTTGTAAATCA TTGATTTAATTTAGAGTAATAAACTAATAAAACCTTAATTAACCTACTCAACTAGCTAA

					AATAAAAAACAGCCTTCAATGGAAGAGTATCCGTTTTTTTTGCAAAATTTCTGTAAGTTCTA AATTGAACTTAATTGAACAAGTCAAGCAATTCTATTTGGTCACAAAAAATTTGTCCCCGCC ATATTTTCTTTCCCTCTTTTTGTCCACTACATCGCCTGAACCTAAGCAAAAGAGGTTCAAGAG ACAGACCCAAATAAAGAAGAAATAGTAATCTTTGCCGAATAGGAAGAAAAAAGATTTCATA TTTCGATACAATAACAAGAAGAATCGACACAAGAAAAAGGCCAAAAAGCCTTTTTCTGTGC CCAATAGAGGATTAAGAAGACCAGCAATCCCTCCTAAAAGGATTTGTTCTTTTATTGTTCT CGCCCTTGCTTGCACTCTCCTGTTTTGCATGAGAT
36	33563432	33563977	546	-	CTCCAGACGGCGTATTTTTTAAACGAGGTCCTCGATAACGGGACATGAAGACTCCTTTT TTTATTGAAATTTTCATTTACACAATTAATTTTCATTGTATTTACATTACAGAATACATCGAAAT TAAACTGAATTAAGTAAAGGATAAACAGAGTAAATCTACTAAAAGTACCACAAAAAAT TTGTATATATAATTATTTATTTTATTGTTTTGTATCTAGCAAAATTTAGGGGTAGAACGACAT AATAGATCCTGGCTTCTCCATTTAATTCGGAGAAAAAGAGGTATTTTTGTTTCATGGAACATT GATAGAGAAAAAAGCCGACTATCGGATTTGAACCGATGACCCTCGCATTACAAATGCGATG CTCTAACCTCTGAGCTAAGTGGGCTTACATAACAGAAATAGTGTAACAAATAGAAATATGT ATAGTATAGGAAATCCGTAATATGTCAGATCTTAATTATTAATCTTAGCTATTAAGTATGTT GAAATTGGAAGTTCTACTTAGAAAAAATACTAGAACTTCATAAAATAAAG
37	33571754	33572345	592	-	TGCATTTTCGCGATTTGTACCCAAAGACTAATTGAAATTGCATCCAAAAACAAATAGGATT TGGATTATGAGTACAGAGTCGCGAAGCATAATTTGCATTGGATTAAGGATTCCAATTTTTA AAATATGAGTAAAGGATCTATGGATAAAGATACAAAAAAATTTATTTCCAATCGTAACTA AATCTTCTTTTGTAAAAAAGGAAATGGAAGCCAAATAGCTAAAAACGGTAGTTTTGGTT TACTAGAACCATCAGCATATTGTTTCAGCTCGGTGGAACCCAATTTCTTCTCAGGATCTCT TAAATGAAATTAGGGAACGAAGTAATTAGATTAGATAGATTTAGGCCAAATTTCTATCTCTA CTCTTAGGGATCATCTAGAAAGCAGAGAGCCTTGGTTCCATTAGACAAAAAAGCTGACT TAGATGTTAAGTGGTGAGAATACCCATAAAGGAGCCGAATGAAATCAAAATTTTCATGTTG GTTTTGAATTAGAGACGTTAATAATAATCAACCAACGTCGACTATAACCCCTAGCCTTCCAA GCTAACGATGCGGGTTCGATTCCCGCTACCCGCTCCAT
38	33573885	33574443	559	-	CGATTTGATCTATTCAAAAAATATCTTAAGATTCTTATGATATAATTAAGTATATCTATTA TAACGAATATTGACTATTGTATTTTTGAGTTTGCAAAAAAAGATTTTTTATAGTATAGAAT ACTTTTTTTAGAATACTTTAGTATTCTAAAAAAGAAATCGAATGGATTATATAAATA ATAAGAAAATAGCAAAAAAGGAGAAGCAATTAAGAAATTTGATTTTTCTTTCCGATCCTC GCGGCCTTTCTATCTTCTAATCGAATTGAAATTGGATTCAAAGTACGACCTAGTCGAATG CACCTATTTGCAATCCAAATCTTTTTCGTCTACTTCTTCCACATGCAATACTTATTCAACCA CTCTCGGACCCCAAAATCCGCTGTAAGGATTGATACATAGGACTTTTAGTTGATTGATATT GCCGTAAAGTTGAACTTTTTTAGGCTTTTTTATTAACTGTAATTTCTCTCTGCAACGTCG CTCTCTAGAAGCATATACAATAATGCGCGGTAAAGGAGGGAAAAATAGCATACTCAATCA AGG
39	33586032	33586623	592	-	GATAGGCGAGAGGTGTAAGCACCGCGAGGTGTGAAGCGATCTCGTACTAAACGAATGGA ACTTTCCAACCTTTGAGAAAAGGTCCCATCCTTCAATATCATGATTGGGTCAACCAGGCCAG ATCATAAGTGAATAGTTTGATCTGGTCGACCAGGTCAGGCCCGATCAAGCGAATTTGTAA AGTTGTAAGATGAATCACCTTTTTGTACTATTTATTTACGGTTTTTCGGGAAAAATCTTTTT CATTTTCCCAGCGTCCTAGAATTGCCTTTCTGTTTTTCTTCTCCTTTTGATTTTCGTATCATT ATTATTACTTTGGTTTCTTAATAGGGGGATGATTCATCGTGAACCCGTTCCCCAACGAAT TGGATTTTCATTTTTTTTTATTTTTGTTTACCTATAAATTTGTTTAGAGACTGTTTTTTAGA TGACGAGAGAAATGTTTTACCAATCCAGCAGGGGATCAGGCTCAACCCGCGGATGCACC CCTTGCTCCTGCAGTCAAGTCCCTGCCATTTTGAACCCACCCGGGTTCCATCGATCCCGT CATCCCTGGATCCAGGGAGAACGCCAGAAGATCG
40	33727945	33728534	590	+	AATAATCTAAACATAAATAATATTATATTTTTATTATTCTAGATTGAATTTTTATGTGACA GATAGTGTAATCATACAGATTTTTAGAGTAATTCGTCTGCAAAGACAACCGAAGGAGACA GATTCTCGTTAGAAAGAAAGGAAAAAGAACACGTACGCGAGAAAGCACAGATTCTAAACAT ATAGACATAAATCTTTGAGGGACTGGTGTGGTGCATATTGTTCAAAGATATTTCCGATCGG TGTGTATAAATACATAGCCCGCGGCGACGAGCAGGTTACGTCGATCGAGTTGGAGGG CAAGAAATCACAAGAAAACTGCCTGTGCGCCAAGGAGACCAACACAAGACAGAAAGAA GATGATGAGGAGGTCGATGTTCTTCCCGTCTGCGCGCTCGTCTCGTCACTGCTCTGCGTCT GCGTGGCGAGCCACATGGACGTCGAGCGCCGAGGCGGAGCTCGCGCCTACATGGGC GGCCACGGCAGGCCGTTGGGCATCAGACCCAGAACCAGCGGCAGCCCGCGCGGCCTCAG CGGCGGCACCTGGGCGGCGTGCGCCGGCTCATCGCTGCTCGCCGCCG
41	33748436	33749033	598	-	GAAATTTTTGGACCATAAAATTTTGGGAGGCCAAAATGTCATGGATGGTAACATGTGGGA GGGCCAATCTGCCATGGCTGCTTTCATGGACCCACCGGGCAACCGGACCTTGGGCCAAAT

					TTACTACGCCAAGAAAAAGGGCTTAGATTAACCAAGCATAATTAGCTCTGCTAATGGGACACC GTAAC TAGATCTTTACCCGCACATGCA CCGAAA AACTTCCTCACACGGCCGAACAAGATCG CCGTGCGAATTTGCACACAACGGCACGGCGGTAGGCAGGCAGCGCAGCAGGCCGCCGTG TGT GCCAC GCTGCAGCCCGCCGGCATGGGCCGCCTGGCCGCCAA CACGTCCAGTACGCC GTTCTGTTACCCAAAGCGAT CGTCA AATCCGGTCGGACCACACGCACGCTAAGCACAACGCG AACGCATCCGGCCTCCTCCTCTCTCGCTTTTATTATTTTTTCTTCCTTCTTCCCTCTCCCTCT CCAGT CTTCCGCCGTTCCACCACCTCACGCTCTCCTCCCTCTCCACA AAACCA CCGCGCCT GCCGCCCTCCGGCCGGCCTCCCCAACGCCTCGCGAGGGGCACCGC
42	33755037	33755589	553	-	TTGTTGTACCGCCGGACATGCACGGGAGCCACACGGTGCCGTCGGTATGCAACCAAATCA GTTGCAATTGGGGATATGGGGACGAATCTATTGATGATTGGGCGAGAGGGAGAAGGAAA TGCAGAACATGTATAATGGGAGAGGAGAT GACGAAC CACGTT GGGTCAGCGAGAGAGA GACAAGGAGCGCCGGTCACCAAGGACATCGGGCTAGCAGCAAGCGTCGGCGTGGTGGGT GTGTTTTTTCATGACTAGTATTGGGGAGATGAAGACACAGAAGAAAAACTATGAAACGTAT CCCGTCAAGGAACGGGAAATTAATAACCCAACCGACAACCTAGATC AAACCA GCAGATGTG AAACTCTGTCTCC AAACCA ATCTCGAGACATTATGACACTCATCTTTGTCTCTGCTCGCA TCCCTTCTCTCTCTCGTTTCTCTCCTCCTCCTCCGTCCTCAATGACTCCGCCCCACAGCCGC CGTCC TCCCCCTCCCTTCTCGACTCCTTACCCACAGT CGTCA TCCTCCCCCTCCTTCCCT TCCT
43	33765168	33765751	584	+	TAGAAACTAAAGCTCCCGGTGAGTACCAAACGAAGTCAGTGTAGTTAGGCTTCTCATGACT TTTCTTTCTCGTACTCGTACAACGTATAATGAAATCTTTTGCTACAAAT AATTGACTCAAATT TGTGCAGTAGTAAGATTTTAGACCTTCGGTCATGCCTGTTTTCGAAATAGTTGCATCAGTTG TCATGATGCATCATTGGTGACGACTACTGGCGCCAAAAGAAAAGCCAACACTCCTGGTCT ATTCACAGAAAAGCATCACGTAAGCTTTTTTTCTTATCACCACGAAAACACAGGAAGCATCA GTGGCTT CCGAAG CCAATATTCAAATCCGATGCGAGCGGCGAGCGGGTCCGTCTACG AGCGGCGTATCTTTGCTTGCGGCACCAAAATTTCCCG CACGAC AAGTTCTCCCCCAAC ACGCGCCGCTCAGACTCGGCTAGCTAAAGTTGACGATCCGTTGGCGCGGGAGGCGTGCGC GGAAC CACGAC GACAGCGTGAGGGTGGTGGCCGCCGCGGCC CACGTG TCTTTACGCGCA GGCCGCTGCTGCCGATACCGATGCCGACGCCGA
44	34384446	34385041	596	-	GCCAAAGAAAAAGACAACGAACATAGGAGATAAAGAACTGGATCCCAGAGGTGAACGCG AGGGTCTTGATGAAATTCGAAGCAAGAGATAAGCGATCGATAACCTTTAGCAGCGCCAC GAACAGGCGACGAGGCGCGAGCGAGACGTTTCGTCGAAATGCCCCAAAGAATCCTAACCTG CCAACAAAAAGCGAGAACGAACAAAGGAGTTCAAGAACTGGATGGGAGAGGCGAACG CGAGGATTTTTCATGAAATTCGCGAGCAAGAGATAAGCGATCAATAACCTTTAGCAGCGCC ACAAACCGGGCGACGAGGCGCGCTCGAGACGTTTCGTCGTAATGCCGAGTGCCGCACCAA TGAATCCTCCTAACCTGCCAACAAAAAGCGAGAACGAACGCCGACGAGTTCAAGAACT GGATGGGAGAGGCGAACTCAAGGCATTTCGATGAAATCCCGAAGCAAGAGATAAAGAGCG ATCGATTACCTTAACAGCGCCACGAACGGGGGCGACGAGGCGCGCCGCGCCGCGCTC CGTTCGCGCGCGCAGCCGCGAAGGTTGAAGGGGAAAGCACCGCCACCGCCGAGCC
45	34400801	34401392	592	-	CGAATCGGCTGTCTGATTTTTTTGAAAAATAGGACGTTGTTTCTCTCTTACATAAAAA AATATTCCAATAGTTAATAAAACAATGTTTCTGAAAACAGTGAAACACAATTTAATCACCA GATGATACAAATGATTTAAATTTAATTAATAAACATCTATAGATCCGAGTAAAAAATGAA GACAAAAAATAAAACATCATCCAAACCTACTGCAACATGTTTTTCGAACTAATGAAACATC TAGATGCATGAAATGAAACATTGAAAAATTTACAACGCATCCATACTCTTGTTGGTGTCTCC TCCCTTGTGCACTCCCGACGGTGAAGCGACGACATCGTCCTCGACCACATTACCTTCTAGA ACGTG AGAGAAGAAGAAGGGCCAC CGTCA TCTAGATCTGAGCCTTCTAGAACTCTCGTGG ACGAATATAGTCTCCTCGCTATCATACTCCGTCGTCGCCCTGAGCTGGGTCTGCCCGC CGTCCGCGAGGGACTCCGGCGACAGTAGAGGAGGAGACGACAGCAGCGGAGAGGATGG CGGGGCGTAGGGACAGGAAGAGGAAGGTGAAGGGCAGCAGAG
46	34491677	34492245	569	-	GTAGGTTTGCTGTGTTCAATTTGTACATTTTTTTCTTTGTTAACAATATATATGTATATCACA CTATATTAACATATCACTATTTTTAGTATTAACATAACTATGATATTTAGTTTTGTTTTTTC TTAACTGTGCATCTTTATCTGTTCTTTGTTAATATATATACACATATATTAACATATCACA TTATTATTTTGTGTTAATTAACCTGCTATATATACACACTATTTTTCGAGTTTGCTGCTTAAT TTTATGCACCTTTCTCTATTCTTGTTAGCATATTTACACTGTGTTAACACATCACACTATTT CTGTTTATTAACATATCATTATTTTTTAGTGTTAACCTATCACACTATTTTTTTAAGTTTG CCGCTTAATTTATGCATCTTTCATGTTCTTGTTAACAATATATACACTTTTATTAACACATC ACACTTTTTTTTTTTGTTCTAGCGAGTAAGCTGGGTCCCAGCCGCGAAGGAAACTGGTACAT GTTTTACCTAGAAACCGGAAATACAACAAAGGCAAAAGGCCTAGCCGAAGCACCGGTCA ATTGGG

47	34494003	34494581	579	-	<p>TATAACAATAGAGTATATGTTTTTAATATGATAAATAATTGAACATATATATAAAAAATC AACGGTCTCATCTATTAAAGCCTATAACATCTTGACCTGGGCTCTAGTTATAAGGGTTTG GTGTTGTGAAATTTGAACCTGTATATTTGCGTAACGATACATTGTATTAATTTACATTGTT ACTTTTTTATAATTATATATCTCTCGAGAAATGAAAATGCTTTCCCTAAATAACAATGCA TTGGTTGCTGATGTTACTAGCCAACAAAAGAAGGTGACCTCCCAAAGTGATGAGCTAGCTA CAAAATTTTCGGTGCACAACGCAAGCATGCCTGCATATATATCCCAATCCACACACACACA CCCTTATTGCGTGCCTCGTCTGCCGCCACATATGCGTGTGCTTTGCTGTACGT GATCGAATTGGGAACCTCTTCTCTCTCGATTGTTGCATGCACATACCGTGCATGCCCCATT GCACCAATAATTTCTCCGATGGCGACCTCGTCTCATCAGCAAGAGGCGAGATCGATCGTC GTCGTCAATTGGGCGGCGGCGGCTGATCGT</p>
48	34546000	34546575	576	-	<p>TAATAACGAACTAATCAGATAATTAACATTGCTAATTCTAAGTGGAGACTAATTACAGACA CGATTCACTGACCTGCATTGTCTGGATCTTCTGTAGCATCTCGTGAAGCGAGGAGCGCT ACAGCTGCGACCAATCTGCAGGTGGCGATCTTCTCTGAGCCTCTGGATGGCTTCGTTGCC GAATGCTGCCGCTGCTTTTCTCCCTGCATATATAAATCAAATCAGATCAACGGAAGATCG GCAAGTAATCATCGATGATGTTACAAATCAATTAATGTTTCGATCCAATCGATCGACGTTGAA GCAGTAACATACAGTTCTTGGCGAGGACGTAGGAGAGACTGGCCATCTGAAGTCTCGG CGATGGCGAAGGCCGTGTCGTGCTTGAACGACGTGAACCACAGCTTGAGGCTCGCCGGT GGCCCCCTGCCATGAGGCGGTGCGCGCGCGCCTCGAGCTCGTCCGGCTCTAGCCCCCTCTC CTCGAACATCGCCGGCTCGTACGCCGGCGCCGCTCTCTCTCTCGCCGCCGCGCCGC GTGATCGGTTCTGATCCGCGGCGGCG</p>
49	34896918	34897507	590	-	<p>CCGCTGTAGAGAGCACTTAGTACCAGGCACACCAAGGTAGTCCTTTAATTTAATTCTGATGC CATTAAATTAACCTCGACCACTCCTCGGACATTAAGGGGGGAAATTTTTTTTTTTA GAAACGCTTTTTTCCCTTTATTTGAAACAAGAAAATTGAGGAGAAATGACGAGACTC ACTGTCTACGAACGAGCGCGGCACATACTACATTGCACAAATCTACGACCATCTCTTCAAT TCTGGGTCCTAAATCAGGGTGCCAGATCAAACCCAGGTAATCAGGTTCCAATCTCGCCCC AAATTCCAACCCCATTTGCATACAAGAACGCAATGGTGGAGAGAGAAACCAAAAAA AAAAAAACGAGAGACAGAGAGTCGAGTCCCAACCTTTGCGCAGGCAGAGAAATCCG GTAACCCCCCTCTCTCTCCCTCCACCACCTTCGCTCAAGAATCAAAGATCCAGCCTTCC GGCCGCGCAATCCCGCGCGCGGGGAGGTGAGTCAACCGATCTGCTTCCGAACACGCC GGCATTTCGTCCCCCGCAGCCCCGCGCGGCGCGGGGA</p>
50	34977772	34978310	539	-	<p>TGAATTTGTATGACTAGTAAGATTCCATTAAAAATGCAGAAATTTACAAGAAATTTCA GAGAAACAGTTGAATCCCACGGAGAGATGAACATTTTCGCACCTCCAAAAACCCCTCACC ACGGACGAAGCAGTAATAAAACATAGTTGTTATCCTCGATCTCCTGTTTCCTGGTGGCA TAAGCATGACATGGAAATTCATCTAGGTTTTAGCATCAACCATCGATGCTGGCTAACAAC AATCTCTGGGCTAAAATTTTGGGAATCGAAGTTGCTAAAGCGGGGCAAGCTTTGGGCCAG AACCGGCAAGGTCAGTGTGGGCTAGGCTAAACAGAACTGGAACCGAGACGGAGGAGTA AGAACCTGCAACAAGGAACCCCCCCCCCTCTGCGGCGGCTGCATTGGCCGGTGCGCC GCGCCTGAACGATCCCCCTCGTCGCCGCGCGCATGGATTCCCTCTCCAGCCGCGTCT CGCCATCGCCTTCTCCGACGACCCCGTGGCGCCCCGCGCCTCGCCGT</p>
51	35053715	35054312	598	-	<p>GTTTCGTACCTGAAGATGTCAAAATATTATACTTCTGAAGAAAAAAGGAGTCATC GTCAATTTCAACAGTAAAGCTTGATAGTTCGGCCAAGGACAGTGAAACCGACCCCTAGA GAGGGAGTAGTAAAGTCTTCTATATGAAAAAAGGAAGGAAAGGGTGTAGTATTG ACTGTACTAATTGAATGAAGCAAATAATACGATGGCTGGGAAGTCTATTTGTAACAAGTC CCGGATGACTTACTGGTGGGACAATGTGTGATTGATCGCTGCTTTAGCACACTGTTGGT CACATAAGGGCATTAGCAGTGCATCCGGCTTGTTTCGTGTGACCATGTGCTCGACATAGAC AAAAAGTGAATGAAGCCACACATAACAAATTTAATCTCCACAGTACGCCGGCCTCCCTC TCCCCTCCCAGGTCAATCCCTAACCTCCCAAGCCGACATGTCTCTCCCTTCCCACCA CCACTGGCACAACCTCACTTCTCCGACCGTGGTGCAGCTCTCCCTCTCTCCGTGCTCCC CCTCCCTGTCGGCGCCTCTCAATCGTGGACGCCGCTTGAGCCAGCTC</p>
52	35092265	35092849	585	+	<p>TCCTGTGTTGAAGCCTATGTTAGATAATAAGTTGGCATAAACCGAATTTTCATCATGGCACC TAGTTCTGCACGGAAGGAAAAAAGCTCATCCAAGTGTAGCTCAACAGCAAAAAACACC TTTCAGACTCATGAAACCAATTCGTTACCAGCATAAATCCAGATTATCAGTCAATATATTT GTCGCTCCCTATAAAATATAAACCTCTGGACCACTGTTCTTTTCAATACATAGTGTGGCCA GCATCAGTATATATGAAAGAAAAAATCAGGCGTGTGATAAATGTATAGCAAAAAACA AATTAACAAACCGGGCAATTTTGGTAACAGAGTCAGATAACTGATACTATGACTGCATCAC AATCCTTAACAAATTCGACTCAAACTAAGCAATTGCATAGACAATTAGGATTTCCGAACA ATTACCGTCGTTCTGGTTAGCCGTAGGCGATCAGGCGAACAACCTTCCCCGCGGCTTGTC</p>

					GCGCACCTGCACCGATATGTCAGAGCCGGGGATCTCCCTCAGGCCTCAGCTGCATAGGCG GACGACGGCCGCCACGGCGGCGGAGAGCCGTGCTCT
53	35375036	35375528	493	-	ATACATCATTTGATTTTGACCTGGTGACAAATGAAGCAGTGATGATTTGTTTGGATTATGTG ATGAGTATTTTTAGTAGTGATCTTAGTTTTTGTCTCTGAAATATTTAGTCTAGTAAGGGCC TTGTGCTTCAA ATTATAGTGATA AGCAGGTTGATGCTCTGATCTAGCTTTGGGAATCTAT GAGAGCAGAAAAGCTATGCTATGAAGTAAGTGAATATTTTTGGTTATTGCCCTGTTACAGAT ATGTTTATCATGTTAAATTATTTTATTGTGG TATAG TTTTGTTGTTTTGTAATTTTGG TATA TGTTATTTTAGCATTTGAAACTTGCAGCATGTGCAGAAAGTTGCATGTTTGTGTGGCTGAGT GTTGAT TATAC AGATTTGAAGGATGCTTGAGTGTGGCCTGCTTTTGTGATATTTGTTTGACT GTGTAGGTCTATCATTTAAAAAAATCTGATTGATTTTAGCTATTTGTAGTTTAAAGA
54	35464723	35465310	588	-	TTCTACCTCCTTTCTTTTTCATGATTTTTCTGATCAGGAAAAATAAAAAATTATGTCAGTTAT TTTGAAGTTATTCTAATATCGTACACACAAAAATTTGCAATTATTCATCTACTACTGGAATTT GGATTTATTTTATCGATGCAAATTGGATTGGATAGAAGGGTACATTCCTTTATTTTAGATA GAAGAAAAGTTTCTTCTATCTAAAATAAAAGAATTTTGCTGATTTATTTATTGCT TATATCCA ATTTATGAAATTGATACACCGTTTAATTGATATCATTTAGCAAAATGAAAGTTATGTAAGGT ATCAAAGTTTGACTGCAAGCACTATTTGAGAACGTAGATGTAGTATTTTTTAATTCGTACC TGGTGCTTTAATTTGAACTCAATTAATTACT TATAC AGGCTTAATAACAACACTTTTCTACTG ACACGGTCATGCATGCCATAATCAGATGTTTCAGAAATGTCTGCTAGCCGACAAATTAAGA AGC ATATATACT CCAGGTCGTGTTAATTTGTAGACACTTTAATCTCAGAACAAATTGCGC TGCTGAAACATGCGCGGCCGCGATAATCC
55	35723764	35724358	595	-	CGCTGCTCCTTTTCTTGTTCTCGCTCTCCCTCTCTCCGCTCGGTTTGCTCCCTCCTCCAC TTCTTGTCGGCCTCTCTGCTCCTTCGGCCTCGGATTCTCTGTGTTTTTCTACCCCATTCG ATCCGTTTAAGCTGAAATCTTGAGCCATTTTGGGATTCATTGAGAAGGAATCCACAGTTTG GATTGGTTCATACTCGATTTGGTTGAAGTTTCTTTCTTTGCGGTCGTTTTAGCATGAGGA GGGGAAGTGAATCTCTGCTTATTGTGACAATGCTATCTGAACAAAATGCATTTTCTCA AGT TATAT TTCCAGCAGTACGAGCGGGAGGTAACGCGCTTCAGTTGTGAACCCTGCATGCC TTGTGATTCTTGCGGTTTTTTTTTCTGAATCTTACTTGATGTGTTCTTTTCTGGCATGAAGG AATGGCTCCTTGGAACACCCTACCCGGACGTCTTCCAGGGAGCTACCAAGACGAGCCGG ACGGCGAGGCCGGCCGGGCGGACTCCGCCGCCGACAGGCCGTGACGAAGTCGCCGCC CGCCGGGAGGAGCCCCAAGGTGGAGCGCCGCAT AGCGAT
56	35877995	35878586	592	-	CCTGCACCTTTGCAGGTGATAGTGCTGATTAGAAAGTGGTCTCAATTAGGTTAGGTGTTG ATCGAGTGCCTAACACCCTACTAAATCCACATATTGGTT TATAT CAAAATATCGTCGTAGA AAAGTCTGCAACTCTGAACAGTTAATCCCTGAATTGCAGGTCTAAAGGTGAATGTTTTGC AGGCACTGTTACTTGTTAGTGTTGGTTGGAACCTGAAAAAGATTCAAGTTTGCCCCCTAC AGATTCATAGGCACTCGGAAAT ATTATAG AAACGGTGAACAACCCATGCAAACTTCATA ACCACCTTTCTTACGGACATGGTGACATGATTGTACCTGAAAATGCATGGCGCCTGAGGTG ACAGT TATA AAACCCTAAACGATTAAATTATGGTAGAGTTAGTTTTTTTTTCTGTACAGTAAT CTAACACGCTGCATAGTGTTTTAACTGTATGTCTGTTTTTTTAAACCCATGCGAGGGCAGCG AGGCCAGAGCTGCCGACATTTCTTGGTGGGAGTCCAATATTTTTTGCCTGTAAGAAGAG AGGAGGGCCCTCTGAAAGTCTCAAAGCTCGAGGTGTTCT
57	36056999	36057577	579	-	GAGAGTGAGTGAGCGTAGAGTGGAGTGGAGTGGAGTGGAGTGAAGTTGATATCTTCATGAGTG GACGAACCCGTCGTGCTTTTTGAAACTTATCTGCATTGTTGCATCGATCATTGCATGGTTTA ATTGGTTAAGGGATTGGAAGGTGTACTGCTTCATCAACTTGAAGTGTTCATTGGAATGGA ATGATGCATGTTTTGAGGCGGCTGTGCTCTACAATTTGTCGTGCTCTCAAGTGATTTTTG TTTTAATCATAGGTGATCTTTTTTTTTCTGATTTGAGTTTGACAGGTAGTCGACTTCGACACT GAGTGTTGCAGATATTTTACGAATGTCCTTAGTCAGAGTAAATGTTGAAGATTTTTTTTTCT GTGGGGCTCGAGTTTGACCAAAAAAATGATCCACTCAAACAATGGCCAGTAACAAGTAC AATGGGCAGTGATGGAGAAGCAACAGGGCTCAAGGCCCGCACACCTTCACGCTACGCGAC CCAATTCGACGGCCCCAGCCTCCCAAGTCCAGCACCAGGGCCAAATCCCCAACAGAAATC AAACTCGGCCGGCGACGGCGAGTTCCT
58	36088816	36089410	595	+	TTCAATGGCGCACACGATTCAAT GCCACT TAAATCACCGCGTGTGGTAAGAAGAGGGGAA AAAACGCAAATTGATCGGTTAACCTTCGCAAGCTGTTTTCGTCTCCTCGTTGGGAT AGCGCG TTGCTCTTCATCCATGTACGCTCGAATCAACAAAACTGATAAGAAGTTGTCTATTTTTTT ATCGGCAAATGTTTTACTCGGCAAAGACAAACGTAGCAGAGATCAATGTGAAGAATCATG AAAGATTGACAATGACCCGGGTTCTCTGGAAAATGAGAAGAATCGAAATGCAACGCGAA ACCGATCAAACCTCGAGCATCTCTAGCCATGGTTCCCCATGAGAATATGAGATCATAAGCTA CAACGAGCTGCTGCTTGCTCTCCTCTCCATCTCGAGGAATTGCCGAGCGACGGCGCGGCG CGGCCGTTCTCCAGGTGGCTCCGGAGGCAGAGCGACAGCAGCAGCGCCTGACCTTGCCG

					CTCTTGCTCGTCGCCCTCGCGCTCCGGCGCCGCCGGCTACGGCTCTCCATGGCGTCCACCAG GCCGATCAGGCTCGCCAGCGTCAATCCCGCCGCCGGCGCCGCCGCT
59	36110385	36110848	464	+	AAAAAACGACCAAATATTTTCATCGCAAATATAAATTTCTAGTGCAACAGACCCAGGCTGC GGATGAGCAGGTGGGAGACACTCACCGCGTCAAGTGGCGTTGTGCGCGTCCATGTGCGGCGC GCAGGCGGGCGTAGAGCTGCGGGCTGCGGTACAGCGAACAGGCGCCGGGCGCGAGAT GATGCGGGGCACGCTGTGAGAGAGATGGAGCCATGTAGAGCAGCATCGCCGCGACGT ACAGCAGCGGAGCGAAGAGGAAGACCGCCTGCCGCCGACGAGCGCGGCGAGCACCACC CTCGCCGCCCTCCGCACGGCGCTCCGCCCGCACAGCTCCGGCCGCGCCTGCCCCGCC CCGCCCTCGCGACCCGCCCTCCCCGACGACCTCTCCCGCCCCCGCCGCGGCGAAGA CGGCGGCGACGGCACGGCGCGCTCCGCCGCCGCCGCCGCCGCC
60	36376917	36377475	559	-	AGATTCACCGATTGATAACACCATGTTTTATCTGAAAGGCATATGCACTAATGTGCGATTAT TATGTCTGGAATACATAAATTTTCATGATATTTTTAATAGAAATCCACACGATACTGTAGTT CGTTATGCGCACAAATTTTACCCATGCCAATCAGACTAGGGTGGGTTGTCTCGTGGGC GGTTAACTTCGGCGTCAACAATATCTAGTGTAGAGTTTTGCGTCCATTTCTGAAATATGTT TTTCGAAAGGGTTAGAATGTAAAAGATAGCTGTTATGTAAACTAATCCTTAAAAATAATAT TCTAAATATCGAAACCAATTTTTGGCTCCACACATGACCCGATCGAATGGTAAACACACAGG CTCGCGGTGAGAACGTGTGACCAGCGTGCAGCCGTGCACCGGCTTTGGTGCGCGCTCGTTT ATTATTCGGCCCTGAACGCTCCGGTGACGAACCTCGTCTACGCATCATGAGTTTCTTATCTC CCTCCGTGGCTTGACCGCTCGAGGGGCCACGAGACTCACGAGCGGCGGCCGCCAGCCAGC CGATGC
61	36427148	36427603	456	-	TTTCTCGAGTTAAATTTAGCCTATGAGTTTTTGGCATTGACTTTTTTTTACTGAGTTAAA ATTTATCCTATGAGTTTTTGCAAAATTTCTCTTCTGGCATTGACAATTTTTTTTTGCTGAGTT AAAATTTATCCTATGAGTTTTTGCAAAATTTCTCTTCTTGTATTTGCAAAATTTCTCTATTT TTTGCAATTGACATTTTTTCACTGAGTTAAACTTCTCCCATGAGTTTTTGACGCTCAGACA TTGCAGTTTTTACATTGACAATTTTTTTTGGCTGAGTTGAAATTTGCTATGAGTTTTGAAC TCTTCAAATATGGTCAATCTTTCAAGAGCTGAAAATTCATGGAACATTTGACGCGCAGC ATGGGCAGCTGCCGTGGTAGCCGGATGGTGGCTTTGCCGTTGCTTTGTAGGACTAATTTT AAATTTTAGAATTGC
62	36503588	36504163	576	+	AAATTAGACTTGGTGCAGGAGTGGCGTTTTAGACTTAATTCGCACTTGACAGCTACTAGGG GTTTTACTTTTTCTAGAAGGGTCTGAAATTGATTTTTCTTAATAAATATAGTTGAATTGTA CGTACTTCTAAGCCTGGAAGCACTAAGATGCAATCGGTGAACCTCAAGTCCAGCATTTTTTC TCAAGCAAAGCACCTTAAGGACAAATCCTTTCTTGCATCTGTGACTGTGAGTTGCCATCAG ACATTGAGCTGCTAATTCTCCAGTACTTGGCACTGGCAGATCTGCCGATGTTCCAGCGG AGCAAGAGGCTGGATACTGCTACTAGCACTCACGCAAGCGAAAGAAGCACATGAAC GCAAAGCACCAACGTATGTGCACTGTGCAGCGCAATCGCCGAGATGCCGTTCTGTAAAGC GGCGAAAGATTTGCTTTTGTGTGCCAAAAAGGCTGCTAGTAGAACATCCGATGCCATCC GGACCGCCTACGCGTGACCGCCACGTCGGCCGACCAACGGATCGCAAGCGAACCGAAAGC GCGCTGCGCCGCCGCTGCCGCCAC
63	36798702	36799236	535	-	GCAGCACACTTGCAATTATCGATTACAAAGTCTTTGACCAATAATACTTATTACGTTTTAATT TTAAATATTATTAACCAATAAAATAATAAAGTGAAATTCCAATTTGAGACAGTATTACAGTT TTTATTTATATATTTTAAATTATTAACCTAATAAAACATAAAATTAATATAAATGTATTAGA ACATGTCTACATATAATTTTGAATGATTAATTTGTTTTAACTATTAATTAATAAAATCAA ATAATTTGGGAGTACACGATAAAGGTGTAATGAATTTGTGTGTTGACCGCATATGGCAC CTCCAAGTGGCACAAATATTTATATTTTTCTAGAAAATTTAATGAAGACATGGGTTTGCA GCTAACCGGGGATGCATTTATCGATGAATGCTTATGATGTGTGTTGTGATATGTGCATGT GTGTCATTGCAAGTTGGGAAAAAAATGAAACAGTTTTATCCTTGATACTTATAAATGAAG TGTTTTTTTGGTGCGGAATAAAAAATGAAGTTGATCACGC
64	36892174	36892762	589	+	CTGAGGAAGGAAAGTTACTTGTACAGAAACAATCAAAATCAACTTGCTGCAAGGGTGTGC ACATCTACTTTCTGTTCTTTCTCTCCCTTCATTCCATTACAAGTAGCACTTCGATCCTTAATT CGTCTCTGCCTCTCTCAGAAAAAAGAAGAGTAATATGAATATATGCATTCTGGTGTCAATT AATAGGCACCATGTTCCCGACATACCACTGTAAATATGAAAAAAAATGAAGAGTATA ATTGGGAGGAGGGGAGAAGAAAAACAACCACGAGCGTCTCGTCAACAAGGAGAG GAAATCCAAGTTATACTCGTACAGTGATGGCGATGCAACTTGACACCCCTCGTTGGCGGC TAGCCGTGGCTCACGTTTCGCTGTGCTCGCGCGACGCCGAGGCGAGGCGGGGCGGGGC CGCGGGGTGGCCAGGCGCGACCTAGGACTGGTCCTCGCGGCCGCTCGCCACAACGCCG CCCCGTCTCGACCGTCCAATTCGGGGGCAACCAACCGATTCCACCGGGGCGATCGA AATCTCCTCCGGCCGTTTGGCCGGGTGATCCCAACACCGG

65	36962635	36963223	589	+	GAAGATGATTTTTTAAAAAAAATTCAAA ATATA AGACAAG TATAT TTTTTAAATTATTA ATTACTTGATTAAGGCTATTAGTTTTAGTCTTCACTATTAATAAATATTGTACCAGATGTG TTGGAATTAATTGGGATTTACTAAGGGTGAAGGTTTTATGAAAAAGATAAGCCATAAAACC TATGATTATGTC ATATAATATA AGTCATAACAATCGGTGTCTTTAACTTAGGTCATAAA AT ATAT TACCTCCGTTCTAAATTTTAG ATATATTATA AGAT TATA CTTACTCTGTTCTAAAATA AATTAACCTCGTACATGATGCGAT TATAC GAGTT TATAT CTCGTATGAGATTAATTTATTTTG GGACCGACGGACTAGATATTAGTGTGAAATTTGCACAGACGAAAAGGAAATACTAGTAGC CAATAGAAGAAGCCACAGGTGCGCTAGTTAAGTTGGGCGTGATGGGGAAAAGCAATAG ATGCGGCCAGTCCATTTATCAGGACGCAGTGTGCAAGTTCCAAAGAGGCCACCACCGG ATTGGATTGGCCGAGACCATCATCACCGCCATGATCACCA
66	37150985	37151580	596	-	GGATAGAAAGTAAGGAAAGGGAAGATGGGAGAAAAACAAATAATGAGAGAAAAGTAGG GGTTTGAATAAAAGTAGATTTGTGTCTTGATTTTACACCCTATTTCTTAGCACTTACATATCA TTTTTAGG TATAT GTTAGATTTTAGTTTTCATTTTTAAAAATATTCACTGTATCGAAACTATG TATTGCTAATACTCGATGTTACACAGGCTAAATACCCAGCGTGCCA ACGTG CGCGCTGATTT TCTAGTCTATTCTATCAGCAGGCCAGCAATGTTTGGTATCTAATGGGCGCTCGGACCACTT ATCGGAGGACTTGACATTGGGCCATATCACTTACTGGGCAAGATTGGGCGCATCAGCGTAT TGTCCATGAAGGCTGGAGAGAACGACGAAACGGGGCTCCAAAGCCCGCATGTGCTCATA GGTCGTTATGGCCTTATGGGCCTTGCCGGAATTAGCCAATTAGGCCTTACAATTCCAACGTC CGACGTCGTCTATTAGAGACGTTCACTCATCTCATCCCCAAAGGCCTAAGCCCCCAC GATCCCCATGCCCGCTGCAGCGCACTCG TATAT TCACGCGA
67	37419706	37420298	593	-	TGATCCATCCAGGAAATTCATTTCTGGACTTATGTGAATGATGTAGATCT TATAT CTCATGG ACTTTCAAATTTTATTGAAGAGGTTTACTACTCTCTCCTAAGTTCAATATTTTGCTTCCAAC TAAATCCATATGCACT TATA ATAATTCAATTAGAAGTACTGTTTGA AACCTTGATGAAATT AGTAGTCTTTGCAGGCAATTTTGTCCGATACATATGGATGTTTTCTTAAAA ATATATAT TTT GTTTTCTCCGTAGTGTTTACCAAATTGATGGTGTTTGACTCAAAGTTGTCAAAGTTCAGTTA ATCTTAAGTTTACTCCCATGTTTGTTCAGGATATGGCTGGACTAATTAGTAAGATAAATCG CTCCTCCATTGGCCCTTTGCCTCCATGCTACTCTCCATCTATGTAAGTGCACATTCAC TATAT CTGTATTGATCATACATGGAGTCTTTGCTTTTTCTATTTTTCTTGTTTATAAAATCCAATTTT CTTCAT CGTCA TATCCGTTGTAGTTTCTTTTGACAAACTAGCTCTTCCACGTATTGTCTTTC TCACTGTGTTCCAAGTCAAATGATAGA
68	37422578	37423170	593	+	ATTGATCCATCCGTGAATCCATGGTTCCTTACCAAACCTTACGCAATTTACAGCA GCAAATCACCTCTGCAGAACTTCAATCTCCAGTACTCCAATGCCAATCTCCACATCTCCTAC AGGCAACAGCTCCACGCCGGAAGCGATTTCTGCAAGAGCATCGGGGAAAAAACATAAGCG TAAATCGAACAGCACTACGCTTGCATCAAAATTTAA CAACCA TACTCTGTTCTATCCAAT AGAACCCTCACAGTGAATTTACTCAAACGAGAAACAACAACAATAACAGAAATCCA ACAGAAACACCAAGCCTCACAAAATCCATGGCCGACGTTTTCGCGTCTGTACTACGCACAG GAAAAGAGGGAGAGCCACCCCTCACGAGAAAAAAGAAAGTATTGAGAAGCTTAG CAACTGTACTGCACACAGTTCCACCAACCGCGC GCCACT GCCCGAGACAGGGACCTTACC GCGGCTCTCCACCCGACATTCGCCACGATCGGAGTGCTCCGGCTACGACGCCGCCGCCG CGCCGCTCCACGGCGGGATCCCCGCCGAACCCCGCGACGCC
69	37601434	37601979	546	-	GTAAATGGGGTATGATTCCGTTGTTCTCTTCC CGTCC ACATCTGGTTCAAGCCTCCT TA TAAA AGAGGAATTTTGGAGATTTCTTAGGAAATGAAGCTGTT TATATA AAATACT TATA AA ATTATCGTGTCTAAAAAGGTTCTGTTAATCCCATAGGCAACCATCTAGATCCTCCCACTGT TACAGACTTCTGTCTACCACCATCAACCAACAGTAGCACAATTAATTGGTTGAGATTATT CCTTGGTGAACGTTCAAACCCATTGGATGGGAATTGATTTCTTCCAATTGAAACTGATTT TTTTTAAAAAATACTTAACTGCAAGTTTTCAAACATTCTCAGTTGAAGTTTGTCTGTT CAAATTGGGTGTGCCT TATC CAATTGAAAGTTTCTCGGAGATTTTCTCGTGTCTGAAAAA GTTTTGTTAATCCCATAGGCAACCATCTAGATCCTCCCACTGTTCCAGACTTCTGTCTAC CACCATCATGTTTTTTTCTTTGAAAAAAGGGCATCTAATTTAGCTT
70	37905546	37906115	570	+	TCCCTTGTTGTCAATCATTCAAAGTGAAGCAGCAAACCTAGGATCTCCACAAGGATGCTAGT CAAGGGTATCCTTAAACATTAGTAAGGTCTTAGACTCTTAGTGACCGTGCTGGCTCGGCA GCAGCAAACAAGAAGGCAATGCATTG ATATATA AAACAGAACTGAAAACAGCATATCATTT TTCGAACAAATGAAATGGCATATGATGATTTTAAGCCGATTGCGCCCAAATTCACGGGA AGAAGGGAGTACGAAGAGCACGAGCAGACCACTTGCTTGGCGGCGCTGGCTTTCGCCAC ACCATCCCGGATTTCTGCGACGGCAACCGTGCCAAGTTGCGCACGCCATCCATGGCAAC TCCCTGGCATCAATGGGCGCTCTAGAAGCCGGGGCTTCTGGACCGATGCAGGCTGCTGCC GTTGCTGCTGCTGCTCTCTGGATCCTCTTGGCAGCAGCTCCTCGCAACCGTCTTCTCT

					CCTCCTTCCCCACGCCAACGCCAGCGCCGCCACGCTCATGGCCACGGACCACCCGGTCGGG ACCGAGCGTGGTGTCTGCTGG
71	38057051	38057650	600	+	GGAGAAGTTGTTAGTGAATACATGTATATAAAGGAGACCATAATGCTACCATTGAGAATT AAAAAGAAGATGAATTGCTCTCAAGAATCAAGACCTTCAAGTTTTTTATATTTAATCTAGCT CCTCTCAAAGCAGCAGGTGGCCAAATTTTTCTCTCCATCAATCAATCCCAAATTTTACAC GAACGAACCAACAATTACATGTAGTTCACACTTCGCAGAACAGTGTAGTGTGTTAGGTCCA AGCATCATTAGCTGCTAAGCACGATTCTACAAGTATAATCTAGGACATTAATGTAAACCA CATCAAAAATCCGCAAATACGCGCAACGCGTTAAAACTAACAGGGAAATCTCCAAAATA AGCCGATCCCTGTGTTGGTGTGTAGGAAGGGAGGATTCGATAGGCCATCGAAAGTGATC GAGCGGGCTCACCATGGGATGTACTTCAGGGAGAAGCCATCTTCGACGCGCGTCTTGACG AGGGCCTCGGGGACCCTTACCAGACTCCCTGAGGACCTCGGCGAGCGGCTTGCTGATG CCTTCGGTGGGCGCGGGCGCGGCCACCTCGCCGCCGGCGAAGTCGTCTCTCT
72	38286122	38286714	593	+	GCCCCAATATTGATGACCAACAGCACAGAATTGCAGTAGGCACATCTATTTGACATCTCTT CACTAACAAAAACAAGATGCCACTATAAAAAATTCTATAATGTACGATAAAAGTGCTAG TGTGCTACAATCCATTCCCACTCTAGAATTTGCACATGTTTAGGCTTCCACTTGACTCATGT AATACCACTTCAATTGTGGAGTACTATGTAAATGCAAAATGCAACTAGACAGCATTTCGGG TAGGTTAATTCGTCTAAGTACAATTTCTGAGCTGTAGGAGTTAACAAAAGAGGGAGTTTTA ATTCAAGGAGAAAGAGCTGGGAGAAGGTAACCCGTGGGAAAAAGAGGGGAGCGTGCG CCTCACTGGGATTGGTGATGGCGTGGAGCACGCCGAGCACGAGGAGGGAGTCGCCGCCG GCGCGGAGGATGTCCCGCGCGTGACCACCGCCCTGAGCGCCATCCTGATCTCTCTCTCC GGTGGTCCCTCGTCGCTCGAGCGCCAGCACCACCATCTGCGGCGGCGGAAGCAGCGGGC GCAGGGCCGCGGGCTGGACCGCTGCCCGCCGCCCGCAGCGGCGCTC
73	38336411	38336924	514	-	CAATGCCCTTGAATGGCTTATTGCTTGCAGGCATGTGCTTGCCTTGCATGATGCTTGGGCTT CTGGCTCACGACCTTTGGCTTCTTGGGACCCTGGCCTAAGGAATCATTGTCATGATACATG TGGGAGTACTGGATGGGGTTGGAGTTGGAGTGGTTGAGAGGATCAATATGGAGAGAGAA AATAATGTGCACAAAGCCAGATTGAGAAGGTTGGGACGAAAATGGAATGCGTATAATAA GTGATTTTGATCCAATTGGATTGAGATTTTGAAGGACTCCCGTGCCGCTATCCCTTGGCG ACATAAGAGGCGAAACAGCCTTGAGCGGAAGCTTCCCCACCGCATCCTGCTCAAGTCGACA TCGGCGATGGCAATGATGGCGTCTTCCACCCTATCTCCCTTACTCCTTCCCTTCTTCTTCC CTTCTCATTTTCTCTGGTTCCACCTTGACTCGCCACCGTTAGCGTGGCCACCAGCGACGAC GGTACCGGCGGCGGCAGCACCTCC
74	38495141	38495665	525	+	AAGGAAACAAAACTATATGTGATATACATTAAGGGATAAATATTGGGTTTGTTGGTTAA ATGAACATTTGGACCTAAATTTATAAACAGGGGAAAAAACTACAAGTTATTTACCTTTTGG GGGTAAACATTGATTAATAAAATTAATAAACTTAACAGAATTATTGGGGGTAAACATTGA TGCAAAATGCAAAATAATGTTATTTAGCTTTTGGGGATAAACATCGATTAATAAAAAATAAA TAACTTAACAAAATTTTGGGGTAAACATTGATGCAAAATGCAAAATAAACTTCACAGAAT TAATTGTGGAATAAAACATTGATGCAAAATGCCAAATAAACTTGGGGTAAACATAGATGAA AAAACAAAATAAACTTGGGGGTAAACATTGATGAAAAATGCAAAATAAACTTCACTGAATTA ATTGTGGAATAAAAAATGGTCCCGGCGGGGCTCGAACCCGCGACCTTCGGCTCATAAGAC CAACGCTCTAACCGACTGAGCTACGGGACCGCAACAGCT
75	38498507	38499085	579	-	GCTAGAATAGATTCACACTTGCCATTTGCTGCAAGATACAGAGCATGCCATCTTGGCCC ATTTACAGGCAGCTTGCTCACACTGCAAGGCTCTCTGAACTTTACAGCCGCTATCTATTTTG GACACCTACCAGGAAATAACTACAGGATTAATAGGATATATAGATGCAGGGGTAAACAA TTAATCACACAGAGTAAATAACCATGAACCTGTAATGATTTTTTCATGTGCTTTTTTGAGGG TGAAACCGTAGAATTGAGAATACCCATATGAAATTTCAATCATGAATTTACCTCAAAAAAT ATTTTTTAAAAAATAGGAAAAAATTACCTAAAGATAAATCAATCGTGAAAGCATGCATTTT CCATAGTGTGCACTGTTGCTTGTAGCTTGCAAAAAAGTTGTAACCAGATTTTCAGGACC CTTCATCAGTGCCATTCTTTTGTGCAACAAAACAGCAGGTGACACTTTATATCTTCTCA GGCACATATGGCAAAATCTGCTCCCAACCGTAGGATCAGAGAATGAACGATCCCGATTTAC CCTCTGTCGCCGCTGCCTTTCATTCA
76	38623725	38624255	531	-	AATCATGGCGCTTGGGTTGGTGTGATGGATTGGTAATTGGTATACCTTCTGTGGGTTTACA TAATCTGATATACCAACTCTGTCTATCGATAATTTCAAAGGTAATTAGAAGCGGTTTTAA GAGGAAGGAAATTGTGCAGTATAACATCGAGATTGTTTTATTACAGTATTGGCAGATTTT GTATCACTCTGTTAGGAATAATCAATTGGGTATACCTTCTTGATTATTTAGTGTTTAAATTT GGAACAAAAGCAACGTCGTATTATTTGAGCTTAGCTATACATTGTCAAAAACTCGGAAGT GCAAGCTTATATTGTGATCATGCAAAAGTTTAGTAAAGTCAATATCTGATTCTGTACTATGT ATTGCAGATCGTCTTTTTTCAAAAATAGATCCTTGATTCTTGAAACATGGTATCTCCGG

					GTGAAATGTCAGTAAGCAATCCATTACGCTTCCAAGGCTTTCCTTGTAAATGTGGTAAGCGA CCTTTCACAAACCGCGGATGGACTTTTTTCCCCATAA
77	38642005	38642535	531	+	TGCTGTAGAAACGGAAAAGCCCCGCGCCATGCAACCCTCGTGTACGCAACGCACGGATCAT ACTAGCGAAACAAGCACAGATACCGCTCGATCCGCGACCGCGGTAACAGTGCACGGCTG CACGAACGCACCCGGCCACCCCAACCAACGGACCGGAAACAAGAAAAACACGGCAGCTA GCTAGCAAAACATGCAGTTTTGCAACGGGCAAAATACGAGAAAAATCCGCGACAATGTGTG GTTGCCGCAATCAACCGTCAATCCACGCTGTTTTGCGTTGCCGCATCGCAATTCAGTTGG TTAGCTCAAAATGGGACGAGATGGTACTCATGGTAGTAGTAGAGATTATATTCAACTCT ACTGCCGACCAAAAAATAATCTCACAGCAATTCAATGAAAAAGTTTTGAGGAAAAAAA TTACAATGAGTCATTTAGGACCCACCACTAACAATGCAACTATCTTCTCCTCGCTCCGTTCC TTCCGCCGCCCGCGCGCGGTGGCGGCGGCGGCGGCTCCGCCG
78	38839961	38840463	503	+	CCGGAGTCGCCATCGTCGCGTGCCCCCGCGCTCGCCATCTTCAACGATGGGGAGGAG ACCGAGAGCTTGTCTGATTTGGGGGGAGATAATTTGGATTTGGAGGGGAGAGGATCAGA GGAGAGGAGGGAGGGGTTCAAATAGGGGCGGCGCGATGCGGCGAGCCGGCGCCGTCGC GGAGCCGAGGCGAGGCGGCGTGC GTTGAGCCGTTACGCGTGTTTTTTTTTTTTTTCATT TTCTTCTATTTTTATTTATTTTAATGTCTAGTGGGCAAGTGGGCAACGACGAGTCCAGCC AGAATCCCATCCCCTTCAGCCCTCGTCGCCGCGGCGGCGGCGCCGCTCGTCCACCGC TGCTGGCGAGGGGGCGGCGGATGAGGCAGGGTGGTCCAGATCACGGGGCCTCCACTCCA TCGTCTCCAATCCCTCCCGAGCGCGCTCCCCGACCCGAGCCGCGCGGATGTGGCGGCC GGCGCTCGCCATGGTCGTG
79	39017588	39018179	592	-	CCACATTATTAACAGCCCAAAAAACGGACAAAGAATGAGAACAAGCAAGCCAT CAACCACCCTCTCTCCCTCTCCCTAATTAATATCTTACCCTTCACTAATCACTACCTCA TAGTGACCCTTACTTAGCTAATTGCCTAATCACAATTAGAAAAAGAAACAAAAAAGCAAA AAAAAATCATCAAAAAGCAGCCAAATACTCCTCCTCATGTAAGCTGTATCCACACCGAC GACGTCCACTCCTCTTCTCCTCTCTCCTCTCTCTCTCTTCTCTCTCCTCGCGAGAT CTGTGGCGTCACTGACCTAGCTTGTCTTGCTAGCTGCTGCTGCTGCTCGGCGGTGGCGG TGTGTGTGGCAATGCCGTCTCTCCGCGATTCTTGAGATTGGTGGTGGTTGGGATTGTTGT GTGTGGTGTCAATGGCGGGAGTGATGGTTTGAGAGTTGCGGTGGCGAGGAGGCAGCTGC ACCAGCCGTTCTTCCCGGATCAGTCGTGCTGCCGCCGACGCCGGCGCCGCCGCCGCCG TCCGCCGTTCTTCCGGCGCTGCCGTTGCCGCCGCCG
80	39042251	39042840	590	-	GGGGGGCAAGTAAAAAATAACAACTTGCAAGTTATCAGTTTTAAACGCTGAGGATG AAGCATCCCGGCTTGTAACCTGCATATTGGTCACACACTACCGGTCAAATTAACAGCCAAC AATCAACTATATCCATTAACCTGATGTTCTAACTACGGAGTATATCAGAGAAAACATGCTT CTATTAGGAAAAAATAAGCACTGAAAAATACATATTGCATTATTATCGACTGCAATATAAT AATGATGCACTAACGAACCTGATGGATATGGAAGGGAATGCTTTTTTACTAATGACCAAA ATATCCCTCCTTGAATAAATGGCAAACGATTCAAATGGAGCTAACGGGGCAGTTTGT AATACTTTCACCATCACCGCAATCCAGCAATACGCTGGAAACGTGAAGATTGCAATAAT TTCCATTGCCACCCTACTTATCCCTATTTACCAACGACCCCTCGTCTTCCACCTCGAGCC GCGTCACTCAAACCGCAAAATCGCGCCTCTCCGCCATTCCAAACCCCTCGCTCGGCTCG CCTCTCCCATCCGAGCTCCTTCTCCGCACACGGCCA
81	39124688	39125264	577	-	AAACTAATTCTATCTATTTCTGAAGGAATAAAAAAATACTAGAATTCTAATTTTTCAAAA ATTTTCTCATTGAAACAATCAAAAAATAAGAATAGGTTTTGTTGGTTAAAGTCAAAAAGTTA ATGAAATAACTTCGTTACCTAGTTATTACCTAAAGAAGGACTTTTTATTAATAATACAAAAA AAGATTGAATCATTTTACTTTAATATTTTTTTGTATTAATGAAGCAGCTCCCTGTTTCGT AACTCAAATTGATTGGAATTCAACCTGCTATGATCCCTCCTGCCGAGAAGGGTGGAAGGA CAGGGGAGCACGCTGTGGTTGAGCTAGTGCTTCATACCTTACTGGACAAGGAAGGAAAG GCAAGGAGGATCAGTACGGGAGAGAAAGTGATTTAAGAATGTGAATTTGATTTGATAAGT AATCAAGGCAATTAGCTTAGGTTTCATCCGAATCCATTCCATGTTTCTTAACAAGTCCTTA AACCACTCGTGCTAACAAGCCATTCTCTCCGAAAGTCCTAGAGCTTTTCTGGTCCATATGC AGCCTTGAAGAATCGAGATGCC
82	39160475	39160994	520	-	TAGTCAAGTTCTAAAATATGTCTTCTTATTTTCGTATAAAGATTGAACGGACATCAAAGTA AGCAAGCACAAATTATCCAAGTGCTAAAGATAAAAGCAACACTGACAAAACATGTGCAGC ATAATCTCTTTTTTTTTGTGCAACTAGAAGAGCATAGCCCCCCCCCCCCCAAAAAA AAAAATCCATTAGCAGAAATGAGCATTACAAAGTTTTACAACATAATCTAATTATGTTTTG CAAAAGCATGTAACAAAGCACCATATTTACCTAGCACGGGTCCATTAACACC CTGCCGATTGAGCCAAACACATGGAACATAAAAGGATTCTTCCAAAATCAAGAAGTGGT CCCTGCAAGGAGAACATGTAAAAATGTACTGGCAAGACTGAAAATGACAGACCAAGTAA ATGAGTCAGGGAATAACTGTATAGGCAGCTTCAGCAATGGATGAAAGAGAACAGCCTCT TTAATGAGATCCTGAGGAGCCTCTGCTTGTCT

83	39174471	39175054	584	+	CCACGGCTAAGATTGCTCAAGATGGATTGGGAAGGTCAAATGGAACATTGTAAAAAAAT ACAATAAAAAAAAAAAGTCAATCCTCACTATGAAACATGTGTCCAGATTTCGTATCTATGATTGA GTTTTTAAATGAGATGGATATGGTACATTACATACGCACGAATACATTTGCACGCAAATAT GCAGCACCAACTTGAAGAATTATCTTAAAGAAAAAAAAAACCAACACTTCCCCCCCCCTCC CCCCAAAAAAAAAGGCTTGAATAAAAGGAATAAAAGAAAATGTGGACTTTTGAATGATC AAGGCATCTCCTAATTAATGGCAGAAAAACACAGTGACACTGACACTGAGGTCGGTCGTT GACCACCCCCACCCCCACCCCCAAAACGGCCAGCATCAAGGGTCGCTACACGTCATCCAT CCATCCATCCATCCATCCACGCGGTGACGCGGACGCGCCGCGATCCTTCACGACACCCCT TCCCCACCAATTAAATCCTCAAAGCAACCGCAACCGCGCGCGGCCCGCGCGC CCGCGCCGCGCGCGCGCGCCCCGCGCGTGGCCT
84	39187869	39188419	551	+	AGCAACAATTTGGATGGCATGGTTGCGTGCAGCCGATATATATCTACGAGACTATCATCA AGGCAGAGCATGATGCAATCTGATCTGTGACGAATTAATATGAGCAACCGATCATAATAT TTTTGGAGTCGTTTTAGGGGTGTTATGCGGAGGATCGAGGACAGTGCGCGGGGGAGG GGATGATGATTTGGATGGACGATAATCCGCCATGTCGACCTGCCTAGCTCCCGAGCTCTT CAATTCGATCGATCGATCGGCTCACTGTAGCCGACGTAGTCCATCTCGATCGATCCCTAGCT AGCTCTCCATCTCCAAGGCTTAATTAGCTGACTATGTTGCCACTGACACTGTCACCCCCTAT CTCTTCTCTCTTTCATTGGTAATTAAGTGGGGGAGAGTGATAGAGGCAGCAGAGCCAGAT GCTGATCGAGATTAATTTGACACTGATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT CT
85	39320792	39321360	569	-	ACGTCTTATAACTTAAAAATGGGAGTAGTAATATTCATCATTATTGTTCTCTGTGACGCCA TTTAGGTTTGTGTAATATGTTCTCTGTCATGTTGCACTTTGGCAGAAAAGGAGCACGATACA AGTGTATGCTGTTAGATGAGCTAATTAACAATAAGAACCTACACAAAATTGTAACAAC AAGCCTCTAATCAGTGGGCTTATTTATACAAGTGTTTCATGCTCACACAACGGCTTGAACAG CATCGTGTGTTGCCCATCATCCATGAACGACAATGGTGCTCGATCGAGAGCTCTTTATTAC GTCCAGCATCGGTGTCTACCTCTCTCCGGCGCGCCGGCCGCCACCGGCCACCGGATGCCGG CGTCTAGCATTTCAGCACGAGGCGGCGATGACCGGCTTCCCCTTCCAGCCGAGCAGCAG GCAGCCTTCTCTCCGCCACCGTGATCCCGCGCGCGCGCGGCGTTCCTCGTCCAGCCGCG GCGCCTTGCGCGCCATCTTGATCGGCACCGACTGGAACCCGCGCGGCTCATGCGGCGGC GCCAGTGGTCGCGCGC
86	39346711	39347231	521	-	TAATAATAAAATATTGCGTATTAATGCTACTCTAAAGGAAATATCAAAGATCAAAGATTAT ATGTTTTAGAAATTAATTTATTGTCACTTAATGATAAAATGTTGCCTATTAATGCTACTCTAA AAGAAATATTAAGATCATATGTTTTAGAAATTAACCTGTACTGTTCTACAGGCTGTGAGCA TTACCAATGCTATTTTCGCTGTTATTCTGCTTGGCATGCTTATCAAAAAGTACAAGAGCTAC AAGGCTTACAGACAAGAGTATCGCTCTCTTCTCGTCAATTAGCGAATGTGTAATTTAGTA AGTCAATGCCAGCTATGAGAGCACAAGCATGCATTAATTTTGTGTTGGGATGTTGGTAC TCAAAATCGATTAGCTATTTGATCCGTGGAATCAATCTTGCATGTATGCGTTCAGACTTTAG AATTCAGATACTGGGCGTGAGGTGTAGCTGTAATCAACAGCTGTATTCTTCTCGCTGGT CGTTATTGCCGCGGAGCATTTGCCT
87	39632140	39632733	594	-	ATACAAGAAAATACCAAGCTAATGTACTGTATATCACAGTTTGAGACTCTTGTTTTAGTCCT CTAAACAAGATGAAACAATAATGAAGAACCAGCCAAATAACAAAAGTAGCTAGGTGGATT ATACTTAGTAGTTGATGCTTTCTAAAAGAAAATGAAGTTAAAGACTCACTAAGCACTAGT TTTGGTTGCTTTGGCCATTGCACTGTTGCTTACTTGCTTTCCCTATTGCCTGGGAACAATCG CAGACGCACGGCGACCAGCTTCGCTGTTGCCGTGTCTCGAGCAGCCGCTCCTTGTTGTCCT TGTCGGCTGCCATTGCTACAATCAGGCCACCTACACGGCTGACGATGCTAGCTAGG TGCTCCTCTCTCTGCTATAGATCAAAGCTGAGGTAATGACAGTCTGCCATCGTCACTGC GCCACCTATGATTTGCTCCGCCGCGCGCCATTGACGCTACCTGAGCCACCAATCCGCCGG CAACCTCAAACACGCCAAGCTCTAATTAATCAAGCAGCTAGCAGCCAATGCCACCACTCCA TCAGCCCTAGCACGGAATCGGTGATGGGGAATTGGGGA
88	39641227	39641815	589	+	GAATTTTGGATAATCTGCTTCAACCTTCAATGTTTCATTGCTTCTGCACCTTATTCTTGTGA GGTGATACCGTATTTAACCATTGTACTACTGTCCTGAGTCTGTGGAAACAGTGGTGATT AACCAAGGAACCAAAGCTATAAAGGTACATTTTCTTACCAACTTATTTTGTATTGCACT ATTGCCAACTTAAAAGTTGACAATTTAATTATACTAGCTTAACTGACTATATGATTATTT TCCATTGCATTGCTGGCATGCTGCTGTTGATGATGAGCTTCTTCACTGAGCTGAAGGCCTA AGCCCTGGAATTGGAGGTGCAAGTTGCTATGTTACGCTTTGGCATGTTGGCACCATCAAA CAAAAGGTAATATAAAATATTCAAATCCTAAACACATGTATTTTCTCCAAGTTGGCTGTTG GCATGCTGCAATTTGCTATGTTATATAAATGAAATTGATAAATTGGCTTAGCCATTGGATA CAAGTTGCCTGCTGACTCCTCCCTCCCTAGTCAGACCTAGGCGCCACCTAGTTGGCCCTAGG CGTAGGCACCACTCCCGCCCACTAGCGT

89	39707555	39708142	588	+	GACCTAAACGTCTAACGACCTTTTCAGTTTTACCACAACAACAATGTGATCAGGTACAGTTGTATTGTGGACAGAAATACAGAATGCATGCTTGAATGCAGGATTACCAACTTCTTTGGTTTTCCGATGAATGCAGCATCACCTACTTGTGGCTTCTCTAATGATCGCGTT CACGAC TTAAGCACAGTTTTAACAAAGCAAAGAAGCAATAACTGACCTAAACACTCCGGAAATCAAACACAGAACAACCAGAAGCTTAGCGTTCCGGTAGAACACAGCCCTCCGTTCTGCGCCGAGAAGATGGACGCTGCGAGGAGATGGGGTATCGCGATCTCCGCGAGCTGCAACCACAACCA CACGTC ACCGCGTTTTAGACCCATCAACGAGAACTCTGAGCAGCAGAGGTCAAACCCAGAAATCGCCATTACCGCAGCGCCGACGAGGGACGCGAATCCGACGAAGACAACCCATCGGTGCGAGGCGACGAGCGCCACATCCGCCTGAGCGCGGAGGCGGCCGTGGCGCCGCTGGCCTCGGCGCGGCCGCCCGGCCCTCTCGCCGTCCTCGAGGCGCCACCA
90	39708313	39708880	568	-	TGTTCCAATGC CACGAC CACGCACGAAGCCGTTCTTTCAATCCTTCTCCGTGTCCAATCCTAAATCCAACGACGATTATTCTCTCCAGAAAATTGTTTTAAATCCCCAAAATACCACCACCACACCACATCGCCTCATTCCATCCATTTCTTCTCGTAGAAAAATCGCAAAAAAAA CACGTT AGGAAAAAGAAAAAAAAGAAGCACACGCGAAAAAGTGGAAGAGAAAAAGGATTAAAAAAGCCGCGGAAAAAATACAATTTAGCCGAGAAGGTAGAGACGTTACGGCGCCGGTGCCGCGCACGGCAGAGCAACCAACTCCGGCGAGGACGACGCGGCCTACGCCTATTAAACCTCGCCGGTGCTCGCCGAGGCGGCGGACTCTCTACCGGCGAACGCGGAATCGGAATCTGAATCGGGCGGTGGGGGTGGAGGGGAGGGATAGAGGGGGTT TGACG AGAGTGGAGAATGCCGACTCCGGCGGCGTGCTCCTACCGCGGCCACCGCTCGGCGGCGCTGTCGGTGGGCGTGCGGCGGTGGGGCCAGGGCGCCGT
91	39773082	39773671	590	-	TCCTAAAAACCAAATAACAGAGACATCACATCAAAATATTGTTACAAAACCTAGAACTACAATTAAGCACATTAGCATAAGCTCGATAGGAACGGTCACCTCCATAGCCTCCGGAGAGCGCGTCCACCAGCTCCTCCTCTGAGAGGACCCTCAACTCATCTACGTGCAGAATCCACAAAA TGTAC AAACCA GAACACGAATAAGCATATGAACAACATGACAGACACTGGGGGATTTCTCCACCTGATACGGCGGAATTTGGGGGGCTTACCAGAGCTCTTCGTCGAATTCATCACCAGGATCGCCCAATTCATCTTTAGCGACTGCTCGCAAAGTAACACAGAACGCGATTACACCAAAGCAAGGGCACGGATTGAAGAGCTAGGGTTTGGCGGTGTGCTCAAGGGGATTGCAACCTGCACTCGTGGAGCGCGGAGGACATGAACCTCGGGGACCGTGGAGACGGGTCCGACCATGAAGGGGACGAACACGGGCCCCGCCAGAGCGAAGGGCATGCGCCGCTGCTCGCCGGCGGCAGAGCTCTCCGCCTCCTCCCCGCCGCCGCCGCCCATCGCCGTGTG
92	39783698	39784289	592	-	GGTTGGTATTTTTAATTCGTAGCCATTGATCCAGCCACAACCTACGTAATAATTGGTT TATA GCTTCTTTGTAGCATATGTTGGGATGAATTTCATTTTAAAAATGTGTATTGCTAGATTCCAAGAGCATAAAAAATTTGCGAAAAATTAGGTCACCTAAAAATTACACATTCATAAGCCTAAAACTGCATCGGTATGCAAT TATACA ATTTTACTTATTTTTAACT TATA ATATTATTCT TATATATAG TTTTGATTTATTAATTTGTATCTGAGCTTGAGTACTCTAAAAAAAATTAATCTTTATCTTTCATGTAGTTTGGTAATATTTATTTTTAGGTTAGAATAGTTTACAAAGTAGCGTGCCTCGCT ATA AGACATGT CACGTG TGTTTGTATCTTT TATATAT GATATCCT TATA ACATGCTTTAAGGCATGTT TATA CTTGAGTATGAAGTATGAATCTTTTCACTCCCCCCCCCTCTCTCTTATTCCCTTTCCCTTTTAAAGTTGCCAACATGCAAGGTCAATTAGCAGCACTTCTCTCACGCATATGCAAGTAGCTAGTAGTGCATGTGCATGGGCGA
93	39903842	39904399	558	-	CAGAATGGCTAAAAAAGACTTTTAAACATGC ATTATAT GTGTTGATGAGATTGTGTGATGAACAAGTATGGAAGTAAGGTGAATGAAATATTTTTGTTAAAAACAATGATGCAACCAGCATTTCTTTGAAAACAGGATACTCAGCATTTTGGCTTATGCAATCTTTGTGTGCCGGCTTGGATCAACAGAGAGAACTTTACAGAGAGGTGATCTTATGGTCCTCAACCTGTGCGCATGGCTTTTACAAAGCACACACACCAAACAATGGTACAAAGGAATTTTGTATGTGGTCTCGTCTCCACTCCAATCAAAGGTTAACTAAAAAGGCCATGAATGACACAGACAGAGAAGAGTACAGCAAGTAAAAAGTTTAAATGCCATTAGCTTAGTTAATTAATGAAGAGCCATGAATGAGAGAGAAGTGTGAAAAGTTTAACTAGTACTAGTAGTACTAGTTAATTAATGAATAATTATTTGGAGCTTAAGAAGGGGGCCAGGAGAGACTGGCCTGTTCACTGGTTGCAGTCCTCCATGCACAGGGAGATG
94	40125259	40125760	502	-	TGCTTATCTTTATTGGATCAGAAAGCTATCTCCACCCTGAAGCCCAAGTCACCTTAGAAAA GGATATAT GTGCCTCTGAATAAAAAAGGCAATGAAATGATGGATATGTGGAACACCACTAGCATAACTGTATCTGCTAACCAAAACATGCTATTATTGTCACCAAACTACAATAACTTTTGTGGGGTTCTGC ATATAT CAGCGTTTTATTTATTGTTTGATTAATTTTGTATGTGTTCTTGAGAAATTAATGCTTTTTTTCATATTGAAAATCAATCAAGTTAACTGCATCCCAAAGGATTTTTTGGGGCAATTTTCAAGAGAGTGGAAGGGAACCATATTGCTAAAT AAACCA TTAAAACAAGGAAAAATTTATCTGAAAAGTTAGAGTTGGAAGGATGATGGCAAGGTATCCACTCGATTTGGATGACATTCCTTTGAGTACAACT TATA AAGCATGCAACT TATA AATGCTTCCACTTGTCATATGACT

[illegible]

					ACAAAAGCCGAGCCTTTCTTCTCTGAAAATTGGGTACAAATTCAGTGTTCGCAATCAA ATT CGTCA TTTCGCTCAGAAATTTTT TATATA AAAAAGCTTCTTTTGGTTGGAGAAAAAG AAATTCATGAAAAGAACCATACAAATCTTGCTGCATTTTCTCATAGAGAAAAGATTCAAAT GTGCAGATAGGGTCGGGGACGTACAGCA ACGTG TACAAGGCGAAGGAGGTGGAGAGCG GGCGGGTGGTGGCGCTGAAGAAGGTGAGGGTGGATGGCGTGGGCGAGGCGGAGAGCGC GCGGTTTCATGGCGCGGGAGATCGCCTCCTCCGCCGCTCGGCGACCAACCATCGTC CGCCTCCGCGGCCT CGTCA CTCCCGCTCGCCACCGCACCTTCCCTCTACCTCGTCTTCGAC TACATGGAC CACGAC CTCACCGGCCTCGCCGCCGCCCTCGCCGC
102	40591061	40591638	578	-	ATCATTGTCCATCACTGCAAGCCTGCAATATGATATCTACCAAATACTCCAT CCGTCC CTA AAATACCAACCTATTAACAAACATAATATTTCTAAGACAACAAAT TATA AAGAAACCTGT TCAGATT ATTATA TATAT GAAATATCACATCCAATATTAATTAATTTTTTAACGGAGA GAGTACTACCTGACAAAAAAAACATTCTAGTCTCTACCAAAA ATATA AATAATAATAA AGATTTAAAA ATATA AATAATTAATAATAATTAATAAACAAGCGAG TATA AATGAAGT AAAACGGCGAGTCGAGAGTCCAACTGCCAAACCGCCGTAGCACGAGAGACAGTACACGA GACCTTCCCGCTCCTCCTCCTCGGC CACGTG GACGTGCGACCAACCGCCGCCGCCGCCG CGCCGGCGACCTTCAT GACG CGCCGCCATGGATGCATCCTCGGTAAGCTCGCCGCCGC GCCAGGCTCCTCCTCTTCTCCCGCGGCCGCCGCTGCCTCCGGCGCCGAGGAGGAGGA GGAGCGGGCGAGGTGCAGCTCGCGC
103	40601295	40601872	578	-	AACCAAGCTGCATGTGCTCCAATAGTAATTAACAATTGCAAGTATTTTGTGGAGAGATTCT TTAGAAGACAGTGTGTTAATTT CATATAT CTGAAAGAAGCACAGTTTGTGTTTGTGCAA ACGATTGGTTTAGTTAACCTAATTTTACTAATCTAGCTCACTCCATCAACAATTAGAACAC TATAG CTAGTGTGTTAATCCATACATCTAAGAATTAACGAGATGGAATCAATTTGCAGCT GAGTTTGTGATCAATTACCTCTCCTGCGCTTCTGGAAGAAGCGCACCAACGATCTCTTG TTCGCAATGGGCAACTCTGCACAAACAGGCGAAGAAATTAGGATCATTATCGCTTAATTAA TCCACCTTTTAATTAATCTGAAGACATGCATGG ATATA AACCTTAAGCAGACGATCGATC GACCTAGCTAGCTTCTAGCTACCTACTTACCTCGCTTTAGCTTCTCAGCAGCTGGTCGCCG CTGCTGCTTGCCGATATCGCCGCCGCCGCC CGTCA ACTGCCGCCGCCGCCGCCGCCGCCG CCGT CCTCCTCCTCCTCGCCGCTGCCA
104	40637308	40637889	582	-	AACTCAGC ATATAT GTCAAACATGCGACGACTTTGCCTTTTTTATTTTCTCAACAAACAT GTGATAAATCTCAAACGAAAT TATATTTATA TTACTACATT GTATA TTGCGAGTAGCTT GTTGTCGTCTTTATTTTTTTCCAGCTGTCCGCATCAGTTACTCCAGGTCAATGGGTGTAA AAAATACTAGTGCTCCTTGTGTCGTTGAAAGTCAACGGGTGTATCAATTTTTTTTAAGAG AAGGGTTGGGTGTATCAT GTATAG TAGTAT GTATA AAATATCTGTAAAAATAGTTTAATT ATGCTGTAACACATTGATTGACGACAAAAACCGCTCAATTTAATTCTACTGTA ACGTG GA TAATTATGCGGACAAAACGAATACGGAATACGCCTGCACCGAATACGCTTTCGCCGTGTCG AAGCGTAATTCTACTG TACGTG GTACGCCCAACGGCAGAGGATTCACATTTTACCCGCT TTTCTCGTCGGCGGGCGGCGACCGACTCCGAGGCGTGCCTCCCCTCGCGCGGCGACGATG CCCTGCTCCGCGAGGGTGCAGCGCGCCG
105	41021900	41022493	594	-	TTGCATGCATGTAATTTCCATTATTTCTTCTCAAATTTGTAAGAAAAAGAACTCTTTTCC AAACAAGTTGG ATATA AATAATTGAATAGACAAATAAATACTGCGGGCGCACCATATTTT TGTAAGGAAAGGGAAAGAATCATTATCTCATGTGGTGTGCGGGGAATGCTAGCCCTAC GTTACAACATAACATTCCACACTTTTTCAACAAGATCGAGAAAATCCAATAACAAGTAGA AAAAAACCCGCCGCTCAACGCATAAATAGAGCT TATAG CGGGTTCTCTTCAGCATAGTCAGC CAATTCCCTTCAGCACAGTCGGTAACAATATCACGAGGTTTGCTACGACGGTGCGGCCCAT TTATAC CATACGACTCTCTTCT TATA AGGGAGATAAGATACATACCCCTTTTCCACCAA AGAAAATGAGCCGCGATCTCAATTTCTCTGGATTAAACCAATTGGGTGCGCTCCAACCCATG CAAGGGCTTCTAGGGCGTCGTCG CGTCA ACCTCGGCGTCGAGAGATCGAGACGGCGGC GATGGCGATGGCGGCGGCGGCGGCG GTACGATGACG AACGGGC
106	41277400	41277993	594	-	CTTGCAATCAAACATGCCTAAACTTTTCTTTGTTA ATATATA CTACTCAGAATGCCATAT GTGCATGTCTAATGGTCCTTGATAATTGGTCCCAGAGCCACAATCATGTGGTGAATATCATA ATTAAATCATACAGAGAAATCATGTGATGCACAACTAAACCAATTAATAAGGAG AAACCA TGTGATGCACAACTAAACCCCTAATAAGGAGTAAATATCCCTGATGAACATCACTATGTTAG CTGTACTCACTAGTTCTTGACAATTGGTCCAGTGCCACATACCCCTTTATCATCATGGGT GCCATGAGACAAAGGCATGATGGCATTGGGACTAAAAACCTCACCTGTTAGTGGGTCTG TGCAGGGTGGGCAAGTGCAAGAGCTAGGTAGGGGCAGAGATGAGAGAAGCTAGCTAGG GAAGGTGGTGAAATTATGCAAGAAATTTAAGAATAATTGG CTATATAT GCAGGGGGT GTAGGCTAGGCCCATCTACTCTGTCTCTCTTCTACTACATTCCACCCTCAATCCTGCC CCCTGTCTTGCTCCAGCCCCTGTCAGGGAGGAACAGCAGGT

107	41313576	41314170	595	+	CGATCGAGAGAGAAAAGCATCGCGTT TATATA GAGCTCA AAACCA AAAAGGCCAAATCTGTGC TCGT TATAG CTATTCAAACAGCCACCCAAAAGAAAAGCGTGAAAGTGCGCATGACTCCACGC CATCCGGAAGGCAAGAAATCAGGAAGAGACCACATTTGCGATGGCGGCGAGATGCAAGC GTATGATCCAACAACCAAAATATTGTTGGTTAAAGAAAAAACAACAAAAAATAGTAATACG TTTCGTCTGTAAAATTAATTAAGACTCGGCAAAAGAAACGAAAAGATGCAGGCGATAGATA AAAGTCATCGAGGAATCGCGAGGCGACGAACTAGACCAAGCCAGCCGCAAGGAACCGCG GTGGTGGGGGGGAGGCCGTACCCGCTGGGGAGCGCGTCGACGAAGGTGAGCAGCATCTT GAGCTTGCTGCCCCATCGGACGCGAGGCCGGCGTGCATCTCGACGACCATGGCGT CAC GAC CTGGCGCAGCCTCGCGGGCGGCGTGGCACACCCCTCCTCGAACTCCCGCAGCAGCGC CACCGCCCGCCGACCGCGCGCCGCGCCGACGCCCTGCGCGCCACGAGCGCCGCGG
108	41328214	41328798	585	-	AATTCGTGTGATTTCTTCTAAAATCATAGGTGAGATCTACATAGGGAAGTTCAAT ATTAT AT CTCTTCTCT ATATAT TTCTCTTGGTTGGTCAGTCTTTTTTGTACATAATTTTCTTAGC GCTTTCTTT CACGTG GG ATTATA AGGAAAAAAGGATAACGACTGTGACTACTTTTAAGA CAGTAGAGATACGTACTTAAATTTAGAAGATGTTCCGATCTCCTGTGTAATTACTGCGGGT CTTTTACTTGAAAGAATGCCTTGATTGAGTCAGGACTTCTGCGTGCATTGGTAAGTTTGAAG ATTGTGTGGGCATGGGTGATGGATGTGCCTGTCCATGATACGGTTGTAAAGCCGACAAAG CCTCTATTGGCCAGAGGACAAAGAGCTGGCCTGTACTTGAGCCTGGCCTAAACCCCCCA GTGATAAAAAAATTACAACCATCAGTAAATTAACAAAAAAGCGCTCCTCACTGATCAG TCAGCCAGTCCATCCATTTTCACTTGTCCAAGTCCAAGTCAATCCAGCTCACCTGCAGTC TGGACCTGTCCACTGTCCAGCCCCCTCCTCGCT
109	41761766	41762351	586	-	CTTCACCGTCTTTTTAACTTGACACTACAAGTAATTGT TATA AAAACTTTGACAACGTACT CATCTTTTATTAATAA ATTATA AATACTAAAAAGAGGTTGTATTATCAAAGTGGAGTACTTA ATT TATA ATCATCAAAACATAATTCTACTATTTCCATTATCAAAACATTAATTAAGAGTTT GCTTGTGGAAAGATAAAATCTCACTAATCAACAATGTCAAG TATA TGGGAATAGAGGAAT ATTTAACTAGGCAAATTAAGTAATCATTTTTTCTATTGACCAAATAATTAGTACATTGG AGGGATTCCAGTCACAGGCTGTCTGCAAAATCGATTTTCACAATGATC ATTATA AGAT AGGGAAAATTGTAACCAGCACTGCTTGTAATAAATGTCCATACTAAAGATTATGCCA AGTCTCATACCCCTCTCGGCCACGCTAAGTCCTTTACTCCTCTCTTCTGGCTCCCCAACCT ACACCTCACCTGCTGCCAACTCTTCTCCTCCTCTCTCTCCAGGCCATTAGCGTTTCGG CAAGCGCTGCATCCTCCATCCCTAGCC
110	41767406	41767983	578	+	AATATTTCCAACGGCAAATGGGGGATCGGGTAGTTGGTAAACATAGGAATTGTTCTTACAC GGACGGAAGTGGGCCAGGCAGAAAGTCTAATCAGGCGCCGCCCTATCTCCGGTAGGTCGTC CTTTAGCTTTGACCACGGGAGCCGTGGAAAAGTCT GACG AGGCTGAGCGTTTTGATCGA GCCTCGTGATGGTCCGCGGATTAATTGTAGCGGAGCAAAAAAGTTGCTTGTTCGGGGC AATGTCAAC CGTCA ACGATCGGGTTGTAGCGCACGCACGTAAACACTGATGGTGTGTGTA CGCAAGTGGAGTTACGGGGAATCGCGCCGTTAGCCAAACGACCGGAGGCGCATGCATGC AGGGATGCAGCCCGCAGGCAGATAGGCCATGCATGCATGAACTCGAGCACGCAACGCA AACACGCAATCCACGCCTCGCCGCTGGCCCCCGCGCACGCAGCCCTGCCCTCCGCGGAGCC GACCTGTTGCCTAAACGCAATTTAAAGCCCCCGCGTGGGCGGGGCCCTCCCTCCCTC CGCGCTCGCTTTCGTCGCCTTCGCCCCGCGCCA
111	41811964	41812551	588	-	AAAAATGCTTATTAATAATGAAAAATCCGGTAGTACATGTCTACATAGCAATGGGCAAAATA CATAATTAAGCTGAGTTCCTGATGAGACGATAATAACCTGTAAAAAATGCTAATTAGATCG GGAAAAAATTGATGACTTACTTGACATGATTTCACTAGTTAAACTCCTGATCCTCAAG TCCCGCAAATCTTTAGACCTTCTTTCAATAAGCAAA CTATA ACCCCAATTGCAAACCC TAACA ATATA ATTCAATTCAAT TATAG GGGAATCGGTAATCAATCAATTGAAACACTATCTT ATTGCTTCAAAAGAAATTAATTTGCACTAAATTTGGTCAAGAAATGTTTTCATACCATCACA ATGCAGAAAAAGGGAGGAG ACGTG GAGGGCTTGATGCCTTGATGCCGCAACCTGCAATCA GCGATTCTGCTCGATGAGGCGTGCTACCATGCCGTGCTGAGCACCTGAGCGGTGAGCCG GTGGCCAGCGATCATGGCAAGTGGGTGCGCCGTGCAGTGCCTCCGCTCCGCGCTTCCAG CTTCGCGCTTCTGCGATTGTTGGGGCGCCGGGCTAGGCG
112	42043135	42043730	596	+	TGCCAACATGAAATTGGTAGGTAGAGAAACATAAGTAGGA ACGTG AAGGTTTGTATGCG TACTACTCCATCCTTAAAAAACCCTGCCTTGTAAGATTTAATCCTAACACAGTGGA ATTAGAGTTTAGACGTAGCGTATGTTTAGATTCATT ATTATAT CCTAATACGATGTTTTTT TTAAGATGGGGATGTATGTATGTGTGGAGAGAGGGGAATAGATACTCCGGTTGTTGTCA TGGCAATCATTGTAGAGATCTATGG ACGTCA ATGAATAATTGAAGTCCCTCACGGCTGGAT GACCAAAGGTGCGTTCAAGCATGAAACATGCCTGCATCCATGCCAGT TATA AGTAG ACGT G CAGTACAGCAACGTCCAAATCCAAGCAATCTTCGATATCTAGTCATAGATTACGCTTCGT ACACGGCATCTTAGCGGTCCCCAGTGGAAGGCTAATCCGACACCTTAAACACAGAAACG

					TTCACATGAACAGCAGAGAAGAAACACGAGTCCAAAAGTCCAAACCGGCCAAGCCACCAC TGGAGCGAAGCTGTAGCGTGCGCCGCAAATGGGAAAATTAGGCCGCAA
113	42055217	42055716	500	-	TTTTCTGCGTGAGAAAGACACACCGGGGATGGATGATCACGTGAAGTTGGGTGAGCAC CGCGATGCAGGCAGGAGCAGGAGTGGAGAGGAGAGCGTGTGTTTTCAGTGGAGTAGG GGACGGCGCGGGGACGTGCGGCGTTGAGGGAGGCGACGGATAAGACGGCTGCGGTTG GACCGGAGGCCGGCTGGTGCAGTGCAGTGCAGGCTTTAATAAGGTAAGGCAGGGGCACG GCGGGGTGGTGTGGACCTGCGCGTCCGGTGGCTTTTGCCAGGGTTAGTTATTGTGGTC GTTGTCAGGACGCGTAGATAAAAAACAAAAGAAAAGAAAGGCGGCCAGCGCCGGCTGCGGA TGCGCCTGGCCGGTCCCCTCCAGCTCCTGCCGCGCGGGGCTCGAGGCGCCCATCCGCAC AGTCTCTCTCGCCACGCCGCGCTCTCCTCGGGAACCGCCGCGCCAAAGCCCTCTCTC CTCGTCGTCGCCGCGCCGCTCGA
114	42146934	42147523	590	-	GTTCCAGCGAGCTGAAATGTGTGAGAATGTAGGGAACCTTAAGCATAAAAAAAGAGAG TAGAGAACCTCGTACCTGCGACTTTATTCAATTTTTTTCACGGTCTAGCGTTTGAGCCGGA AATTATTCTAGCAGTTGCATTAGCAAAAACACTTATCAAAATATTACTAACAGGCAGCGAA GCAACACAAATACATCTTAGCTAGCAAAAGTAGTTGCATTAGCAAAATTTATTTACAAAATAC CGAACTTATGTTTACAAACAAACACATATGTTTACAAACTTTAAATAACACCAAATCTCC TGTTTAAAATTTGCATTAGCAACCAATCCGAACAGATCCGAAATGCACGTGACGAATGCG CGAAAGCATTAAATTGTTCAGAAACAGCCCTGAAGGCTGAAGCTTAGTACGGTGTGTTGCG TCCAGTTGGAAGTTGGAACCACTCTTCCAATCTGTCCCCGTTCGTCCGGTTATCCGGTGT AGTGCGCCAGAAGAAGGGAGGAAGGGAGAGGGAGAATTCGGGGGACCACATTCCAAGTT CCAACGGAGGCCGGAGAGGATGGTCCATGTCTGATGTC
115	42310412	42310990	579	+	AGGTGGAATTTGGCAATTAACATGGAATTAATTTCAATAAAGGCCTGGTAAATAGGTT TGGGATTTAAACAGATTCCAATAGCAAAAGCATCAATCCAATTTCTGTACTAATTCCTCGT TAACACAAATCGTACGGACTTTATAAGCTTTTAAATTTGCTAACGCAAAAAAGCTGATCA GAGTATAATATTCAAAATCTACTGCATCGACAATGAACAAACCAAGAGTATGTTCAAAAT GGGGAATTAAGCGAAAAATCTAACACAACAAAAGAAATATATTAGATGAAAAATATG CTCAACTTGTGAGACTTCTCGGTGCGGTACGTCGCCAGCGAGAGGCACGCGATGA ACTTGTCTTGAAGTGCATATCCGCTGTGGCCACCAACCAATCAAAACAACGCGTACA AACCAAGCAGCAGCGTACACAGACGGAATGAATCAAAACCAACCGATCCCAATTCACCC CCCTCCGCTTCGAGCCGCAAGCACACACCCAAACCGGCCCGTACCTTCACTATCCGGA TGCGCGGATGCCGGCAACTCGTCGACGG
116	42325296	42325885	590	+	GCCTCAAATAGTATCACTTTGATTAATTACTAACCTACTAGTATCTCTATGCACTTGGAA CATGCACAATCAATTTCTGATATTTTTCAAATCCATATTTCCCTAATCAAATATTTATCAA ATTTTGTGCGTGCAATCTGGGCAATTTAGTACTTTGCGAGCATTATATCTATACAAGAA ATACTCCGTATGAAAGAAATCTCAGTGGTCAACCCTAAATTAATGAAACACAAGGGGGTG AAAGCGAAAGGAGATGAACATAAAACATGAACCAAGGGAGAGAAAAAAGGTT CAACTACTCTTTCCATTCTCGCTCGCGCGCCTCCTCCTCTCCCAATTCGCCGCCAATTT CCGGTGCCGACGAGGAGTCGGAGTCGGAGTCGCCTCGCCGGCGGCGTCCGAGTGTGTGT GTGTATGTAATGGACGCCGACGAGCCGCCGAGCACAGACCCGACCCGCTCACGCGCCGC GCCTGCAGCTGCTGCTGCAGGTAGGGTGTTCGACGCATGGGCTGCACCACCTCGCACGAC GCGTTCGCCGACGAGGGCGCGGGCGCGGGCGTCTGTCG
117	42579010	42579591	582	+	ATTAAGGATTTGATATATCACAAATGACAGTAATTAATTTGCTTGCTGTGTGTTTTATGAA CTTCCTTAGCTGATCATGTTTTATTCCATCTTCACCTCGTTTACAGCTGCGAACGAATTC GAAAGCATTAAATTAAGATTAGAGGCTGCAGAAATGCAATCAAGCAACAATAATGCATACT AATATGGATTGCAAACTCTGGATTACAATAAGTTTTGATCTACGTTTTACTCGTTTCTCT GTTTAGTTTCTGGTAATTTAGGAAGCAACACACCCATCTCGTTTTGATTCTTCTCTGGA TTACGACTAAGTTGGCAGCTATGTCGTGTCGCGCGGCGCCGGCGAGGAAAGAGAATGGCA CCGTCGCCGCCGCCGCCGCTCATCCGCCGCCGCCAGCAAACGTTCCAGTGCTCAACTCC GGCAGCGCCGCCGCCGCCGTCGAGCCGACGTCGATGTTTCAGTCGCCGCGAGCGACG GCGCTGCGGTGCGCGCAGGTGCGAGCCATCACCACCTACGGCATGTTCCCGACACCGGC GCTTCGGCGGCGAGGACGGCCATGGCGG
118	42580724	42581312	589	-	CCAAGATTTGATCATGAAGTGGACATGAACCAAAAAATGTAAATAGTAACCAAGGTTTGA CCATGAAGTAAAAATGTAAATAGTAACAGGATTTGACCATGAAGTAAAAATTGTAAAA CAGTAACCAAGATTTAATCATGAAGTGGACATGAACCGAAAAAGTAAAAACAGTAACCAA GATAATCTTGACCATGAAGTAAAAATGTAAACAGTAACAGGATTTGATCATGAAGTGA ACATGCTACAAAATCAATCACAGTTTCTGTCTGAAAATTATTAGTCTTGTGACCTGGATG GCGAGGCAATCTGGATGGAAGGTGGAGGGGCGAGGTGTCGAGCAGAGCAGCTGGCCGCC GTCGGCGCAGACGCCGAGGCGTCTGCTGCAATCCTTGCCGCCGCCGTTCTTCTCACCT GATGACGAGGAGAAGAGGTGGAGACGACGACGACGCCGTCGAGGAGCTGCATCTTCTTC

					GTCTTCGCGAGCTTCTCTTGGCCTGCGAGCTTCTCTCTCTCTGCTCCAGCGACGCCATG GCCTTCTCCCGGGCGCGCATGGCGGTACCCGCTCTGCGCC
119	42606697	42607289	593	-	GCATTACCCTAGCAAATAAAATCTGTAAAAGAATGGT TACATA AAAAATCAATAACAACA GAACAGGCAATATGGAATAATAACTACCTTTGTGTTGGCAATAAAAGCCCTTTGAACAGCA AGTGCATCAGATTACGATCAGTTTCTGATGAGTTCAATGCATCAAACCTCTGGTTCAGCAGA GATAAAGGAGCCATTTCTACAAGAGAAATAACGAACTTTTAGAACTGCATTT CATATTAT ATATAA ATAAATAAGGAGATAAAAAATCATCATGAGGATAACCTATTTTCTGAACTGTCCA CCCTCTTCTCCATCCAAAGACAAAACGATGTCATGAAATGCAACTAATGCTGGACGATGA GAGATTGTTATGCATGATGTGCCATTGCTTGAACCTTTTGCAGAAACGCTTTCATATC AGTTGTCACAGCACTAGTGCATTCATCCAGGATGGCAAACCTTTGGCCTATGGTAGAACAGC CGGGCCATTCCCAATCTTTGTTGCTCTCCAAGAGACAATTATCACCCAGTTAACTTCCTTA TCAAGAGGGTAGCGTTCTAGCAAATATCCAGATCCACCTA
120	42661179	42661758	580	-	TGCAACAAGTTTTGGAAAAGGT TATATTATATAG ATATTGGAGCATAAGTACCTGCTTGA TCAACCGAATGTCTCGTAAAGCTTACACCATATCTTAGGATCCCATGTTTCCATTTTTGGAT GAGCCTTTGCCATGTTTTGCATTCCACCTATTAAAGTTAAGGTGTAAGACACATAAAAGGAT CAGAATAAAAA ATTATAG AAAAAGAATATTTTCAATTTTCACTACCTTAACACTTTCTGGCA ATAGCCACCAATGCTTG ATTATA TTTTTGCACAGCTTAGGTAGTGATATGGTTTCTTATCA TCGTAACCAGATGGGTGGCTTCTGTTTGGTCATAACTATCATCTCTGAAGAGGGGATG GTAAATTCCCAAGTAGGTACAGGTG GCCACT GTATGAGGTTGTTAACCTCTGCTCTACC TTATGTGGGTTCATACACAAGACCTTCAACAAGTATTTCCCTTCTCAGTTTCATCCCAATCC AACGGATACCTCTGTAGCGTCTTACATTGCCCTCTGCAATGTAATCAAGGAATCTCACGAG GGGCATGTCTTTGGGGGAATCCA
121	42668181	42668772	592	-	CAGGTTGAATCTTTATGATTTTGTATGTTTCACTGATTAACCTTTGACATTATTTAATTGAAA TTTTACCATAGTGGA ATATAA TTTTTGGGGCATATTTACCTTCTTGTGTTAACTTTCTTG ATGTAAGGCCTGTCATGTTGTAGCAAAAAGAACATTTCAAT TATAG AAAAACATCTGGATTTC TTTTGCATTGCTCATTTTACTTTCAGGACTTTATTTGAAAAAACATAAATGCTTGATTATTG TTTCAACCACAGTGTGTGGAATAACATGTTTGCTTACAGCAGTAACCTTATTGACACTGA ATTGGAGATGTTACATGTTAACCTTTGAAATCTGAACCTGGGATGTGTGTGTGTGGTGGT GTGGTCAGGCCAAGAAGAAGATGGCGAGGCTGATACAAAGGATCATCCAGGACAAGAGG GCAAGGAGGGCCGCCGCGGACGCCATCGATGTCCTCATCGAGACGGCAGCAATGAGC TCACCGACAACTCATCTCTGACACCATGATCGACCTCATGATACCCGCAAGGACT CCGTCC CGGTTCTCATCATGCTCACCATCAAGTTCCTCAGCGAG
122	42734129	42734632	504	-	GAAGTTTTGAAGAAAATTTGAAAAAGCAAATAATCTGAATTGCAAATCATTTAAAAAATA AAAAATAAAACTGTACAATATCACGAGCATTGACTTGAATATGAAGTTTTGAAGAAAAAT TTGAAAAAGCAAATAATCTGAATTGCAAATCATTTGAAAAAGAAAGTAATAAAAAATTATG TTATGAAGAAAAATTTGAAAAGGCAAATAATCTGAATTGCAAATCATTTAAAAAATA CAA ATAATCTGAATTGCAAATCATTTAAAAATCAAAAAGTAAAAAGAAATCAATTAATCTGAAT TGCAAATCATTA AAAAAATCAAAAATCATTTAAAAAATCAAAAATAGTGCTGGCTGTGGG GTTTCGAACCCACGCGCACTTCTGTGCAGAAAGATCTTAAGTCTTCCCCCTTAACCACTCGGGC AAACCA GCTAAACGACAGTGATGGTCATAAAATGTTCTAGTCTTGAAGCAACCGACTTG CTGCATGGATGTCA
123	43058624	43059216	593	-	AGTAGGAGTAAAAAAAAAAAAATACTCCGATGACTTGAACAGGGACGGACCTATGATCGGC CTAAGGACCGAGCCAGCCCATGAAGACTTAGACCTTGTATGCTGTTTACATTAGGCCTATT GGGCCGAACGAGACGACGTATGATCATGTTTTGGGCCTCTTTTTGGAGAAGGGAAGGCC CACAT TATAG ATGTGGTGGTCTGCTTGTGGTGGTGACAGGTCCTAACCTAGTAACCTACA CTGTCACAAAATTCACAATCGATCGAGGATCCCAGGCGACGGAGCTCCGGCGAGCTCCG GCGGGCGTCGGCGTCGGCGTCGGCGGCAGTTAGGGCGAGGCTATCTAGGGCATCAGAGA TCCGGGATGGCGGTCCAGGTCCAGGAGTCGAAGCGGGTGGGGAGGCACTGCCCTCA CCGGCCACCGCATCCGTCTCCCTCGCCGCTTCCATTCTCTCTCTCCGCCGCAAGCCTCC CGAGCCGCTCCGCCGCGCCGTCGCCGACTGCCTCTCTCTCCCGCTCCACACCCACACCC ATGCCCCGCCACCCGCCGCTTCTCTGCCCCGCCGAGGCTCCAGAA
124	43101914	43102493	508	-	ATCCCCTGGCCTGCAATGAAGTAGTAACAACCTCCATCTTAAAAATCGTAAGCAGTGGCA AGCACTATTA AAAAGGATTTTTCATGTGTAGGTCCCTTTTACTTTTACTAAGGAGGAAAAAA ATACCCGCT TATA AAAAATGTGCGAGAGGTGTTTGATCAAGGCCACATTTTAAATTTTAC AAGTAGGTCTCTTAACAGATCCGTCTACAATAATAAATTATTTTCCAGACGAGCATCTTAA GAGGTTTGTATGTGAAAATTGAGG CACGAC TGGCCGGCTCCATTTCCCATTTATTTATTTCT TTCTTTTCTCTTATCAATCCATTTCACTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT TCT GATCGCT TATAG AGGTTGGCGGCGACTGTGGAGGCCGACAGCGG TGACG ACGACAACAGA

					GATAGGTGGTGGCACATCTCCCTCTTCGATGACGGGAGGGGAAGAACCATCGAGGAGGG CCCTAGCCATGGTGGATCTGTCTCCTGC
125	43107547	43108108	562	+	ATTTATGTTGCTCCTCAGTTGTCTTTTTCTCTGTGCAACAGCTCCGATTCCAGGCTCCCTGTTT AGACAGTATGATGTACAAGGTCCAATTCCAGTTATAAAAGATGTTTTATCCCTCCAGACA CAGAAGAAGATGGGCTGCCTGCTGCCCTTGAAGATGCCATGCCTCTAATTTCTTTTTTGCC CCTCTATGTAAGAAGTGTACAGTTTGTAGTCAATTTGAACATGTAATAATGACAAGATA AATTTACGAGCAGATCGACACATGCAAAGATCGAATTGCTGCTGCCCTTGATAAATTGCGA TTTACGACATACATCTTCGTGGGAGCGAGGTGCTGCTTCTGGGCAGGAACCTGATACTGTT TTACTTGGTGGCCGAGTTTTGGAGCAGCCATGTCTGCTCTAACTGACGCCCTCCCCGAC GTCCTGCTTCTCTCCGCCGCCGCTCCTGCTGCTCCTCCGCCGTCGCCTACCCGTGTGAA GCCGCTACACGCCGCTGGCGTCGCTGCCGCTGGAGCCGGTCCACGTCGCCGCCGCTCG AGGTCGCC
126	43217504	43218096	593	-	CACCCTGTTAGCATATTATGGAGGAAAAACAACCAACCAACGGCACTCTTGAACCAAGAA GATATAATCACAACAAATTGTGAATACAAATTTAAAAACAACAAATTTGATTGATACCTAT GCATTGAATATGTGGGAGATTAAAGAAGTAGTGACTTTAATACTATATATAGCATCCAAA TGTTTACAGCATCATCAAGTTAAAGGATCGATCAGAGGGGGAAGGCGTGTGGGTTAGAAG AGGAGACAAGGAAGGAGGAGGATGTGGGTGTGGTGGAAGCTGACGCGAGTACAGGTCT AGTCGAGTGGAAGCCATTGTTAAGCTGATCATGGTGGTCATGTTTATGGAAGCAGATGA GGTGCCAGTGTAGGAGGTGGAGGTGGAGGTAGAGATGGAGGCGGAGGAGGATTGGCGC GGTCGGCGGCGTGGTGCAGGGCCCTTCTCGGCCAGACGAGCTCCTGCAGCTTGACAGCC TGCGCGTCGGGGTAGTAGCCCCAGAAGGCGCAGGTGCAACAGGCGGCGGAGGGCGTGA GGTTGGTGCCGGCCCGGTGGATGTAGCGGTGGCTGTACCTTCTTCCCAAGCAATCGA