

Additional file 18. Alignment of Acala Ultima (AU) and TM-1 (Ref) alleles of Gh_A07G2049. Primer locations for *CFBid0004* are highlighted yellow.

AU	AATCTTCATT	TCTTGCTCTC	CTTTGGTGAT	ATTGGTTTCG	ATTCTTTTGA	ATGAGATGAT	TTACCAGTAA	TTGCCTTCTT	CATCTTGGAA	90
Ref	AATCTTCATT	TCTTGCTCTC	CTTTGGTGAT	ATTGGTTTCG	ATTCTTTTGA	ATGAGATGAT	TTACCAGTAA	TTGCCTTCTT	CATCTTGGAA	90
AU	ATCGAATGCT	TCACTTTCGA	TCCAACACCT	GACAGTATGT	TATGAGATTT	TTTATGTGGT	TTAATACCGG	GTTCTGTCTT	ACTGTTTTCA	180
Ref	ATCGAATGCT	TCACTTTCGA	TCCAACACCT	GACAGTATGT	TATGAGATTT	TTTATGTGGT	TTAATACCGG	GTTCTGTCTT	ACTGTTTTCA	180
AU	TCACCTTCAT	CTTCATCTGT	TTTTGCTTCT	TCCTCTGGTG	GTTCTTCTTT	GCTTACCAC	AGTTCCTTTT	CTTCAATCAC	ATTTTTAGCT	270
Ref	TCACCTTCAT	CTTCATCTGT	TTTTGCTTCT	TCCTCTGGTG	GTTCTTCTTT	GCTTACCAC	AGTTCCTTTT	CTTCAATCAC	ATTTTTAGCT	270
AU	CCTTGTAATC	CTCTTGTTGA	TCTTTGGAGT	AGGTCATACA	ATGATAGCTT	AGCTGAATCC	TCTGATTTCAG	GTTCCCTCAGA	TTTTTCAGCA	360
Ref	CCTTGTAATC	CTCTTGTTGA	TCTTTGGAGT	AGGTCATACA	ATGATAGCTT	AGCTGAATCC	TCTGATTTCAG	GTTCCCTCAGA	TTTTTCAGCA	360
AU	CCTTCATTCT	CTGGTCTTTT	CTCTTTTCCA	TTATCGGGTC	CTGCTTCTGA	ATATATCTCT	TGAGCATTTC	TAGGTTCCAA	ATCTCCAACT	450
Ref	CCTTCATTCT	CTGGTCTTTT	CTCTTTTCCA	TTATCGGGTC	CTGCTTCTGA	ATATATCTCT	TGAGCATTTC	TAGGTTCCAA	ATCTCCAACT	450
AU	ACAATTTTGT	CTGAGGTTTC	AGAAAGCTTCA	TCCTGCTGTT	CTGTTGGAAA	CTGTTGCTTG	CCAATTGAAT	TTGTTGTCTT	TTTGCACCTCA	540
Ref	ACAATTTTGT	CTGAGGTTTC	AGAAAGCTTCA	TCCTGCTGTT	CTGTTGGAAA	CTGTTGCTTG	CCAATTGAAT	TTGTTGTCTT	TTTGCACCTCA	540
AU	ATAGAATCTT	TCTCTCCTGG	AATCTGTTTCG	CCTAAATGTTA	CATTAGTGAT	ATATCTATGC	TGGACATAGT	ATGTTATGTA	ATGACTTATG	630
Ref	ATAGAATCTT	TCTCTCCTGG	AATCTGTTTCG	CCTAAATGTTA	CATTAGTGAT	ATATCTATGC	TGGACATAGT	ATGTTATGTA	ATGACTTATG	630
AU	TTTAGACTCC	ATGGATGGAC	CTTGAAAAGG	ATTCTTTTAG	AGCCCTCTTA	AACTACATTA	AGCTTGAAGT	TGTTTCATTG	CCTTACTCAT	720
Ref	TTTAGACTCC	ATGGATGGAC	CTTGAAAAGG	ATTCTTTTAG	AGCCCTCTTA	AACTACATTA	AGCTTGAAGT	TGTTTCATTG	CCTTACTCAT	720
AU	AATGTGATAT	CATTTTTCTT	ACTAGATTCT	TACCTCCTCT	ACTATAGTGG	CTTCTTTTCAT	GTCATCCTTC	ACAGTTTCAT	CTTTAGCAAC	810
Ref	AATGTGATAT	CATTTTTCTT	ACTAGATTCT	TACCTCCTCT	ACTATAGTGG	CTTCTTTTCAT	GTCATCCTTC	ACAGTTTCAT	CTTTAGCAAC	810
AU	GGTCTCTTTC	TTGATATTGT	CTCTTGCAGC	ATCCTTTGGA	GTTTCCAAGG	TGGGCTGTTG	TGAATTTAAG	ATTCAAGATC	AAAAGAGAAG	900
Ref	GGTCTCTTTC	TTGATATTGT	CTCTTGCAGC	ATCCTTTGGA	GTTTCCAAGG	TGGGCTGTTG	TGAATTTAAG	ATTCAAGATC	AAAAGAGAAG	900
AU	AGGCAAGAAA	AGAACCAAAA	GATTATAGAT	GAGCATTTTCG	AGAAGTACC	TTTTCATTTT	GAATTTTCAT	TGTTGGGACT	TGAAAGGTTT	990
Ref	AGGCAAGAAA	AGAACCAAAA	GATTATAGAT	GAGCATTTTCG	AGAAGTACC	TTTTCATTTT	GAATTTTCAT	TGTTGGGACT	TGAAAGGTTT	990
AU	CTTTTGTTTT	GTCTCCAGTA	TGTTTATCTT	CTTTGCTGCC	ATCTTCAAAA	TGAGAAATCA	GGTCCCTCATT	GATCTGTCAA	GATTGCTCCC	1080
Ref	CTTTTGTTTT	GTCTCCAGTA	TGTTTATCTT	CTTTGCTGCC	ATCTTCAAAA	TGAGAAATCA	GGTCCCTCATT	GATCTGTCAA	GATTGCTCCC	1080
AU	ATTGTTAGCA	GTTGTTGAGT	TCATATATAA	AGTGTAAAGAG	CAAAACAAA	AGAAGAGAGA	AAATGGAACC	AGTGAAGAGT	GCATGAAATT	1170
Ref	ATTGTTAGCA	GTTGTTGAGT	TCATATATAA	AGTGTAAAGAG	CAAAACAAA	AGAAGAGAGA	AAATGGAACC	AGTGAAGAGT	GCATGAAATT	1170
AU	ATTAAGGTTT	AAATTGGATC	TAACCTTTGT	TTGTGGAGGT	TGGATAACTA	TAGATTTCTC	CTCCACAACA	GATTTTAGCT	CCTTGTTTTC	1260
Ref	ATTAAGGTTT	AAATTGGATC	TAACCTTTGT	TTGTGGAGGT	TGGATAACTA	TAGATTTCTC	CTCCACAACA	GATTTTAGCT	CCTTGTTTTC	1260
AU	TTCTGCTCC	GAGCATATAT	TGTTCTCAAT	CTTCATATCT	GAAGAATCTT	TATCTCGAGT	TTCCACTTCC	ATCTGTCTT	TTTTTCTCC	1350
Ref	TTCTGCTCC	GAGCATATAT	TGTTCTCAAT	CTTCATATCT	GAAGAATCTT	TATCTCGAGT	TTCCACTTCC	ATCTGTCTT	TTTTTCTCC	1350
AU	TGCATCTACT	GGAGCTGGAT	ATTTATTCTC	TTGTTTGTCC	ACAAGAAGAA	ATCGGGAAGC	ATCAGTTTCA	TCTTTTGCTT	CTTTCTCAAT	1440
Ref	TGCATCTACT	GGAGCTGGAT	ATTTATTCTC	TTGTTTGTCC	ACAAGAAGAA	ATCGGGAAGC	ATCAGTTTCA	TCTTTTGCTT	CTTTCTCAAT	1440
AU	CGTGTCTCGA	GTCAATTGTG	AAGTTCCTTT	CGTGAAGTTT	TGCACATGGT	CAGATGATGA	TATCTTAGTC	AAATCTTCCA	TGGATACAGA	1530
Ref	CGTGTCTCGA	GTCAATTGTG	AAGTTCCTTT	CGTGAAGTTT	TGCACATGGT	CAGATGATGA	TATCTTAGTC	AAATCTTCCA	TGGATACAGA	1530
AU	CTCCTTGATT	ATTTCTTAC	TTGAATTATT	TACTGTTTTT	TCTCCAGCAT	GTTCTATTCC	TCCTGAATAG	ATCTCTTTGA	CATCTCCGAT	1620
Ref	CTCCTTGATT	ATTTCTTAC	TTGAATTATT	TACTGTTTTT	TCTCCAGCAT	GTTCTATTCC	TCCTGAATAG	ATCTCTTTGA	CATCTCCGAT	1620
AU	TTCAGCCTTT	TGCGGATCAA	CTCTGTCTTG	CAAATCTATC	CGAACATATT	CCCTGACGAC	CAAACCTTGT	ATCTCCATGT	TCTCAATATG	1710
Ref	TTCAGCCTTT	TGCGGATCAA	CTCTGTCTTG	CAAATCTATC	CGAACATATT	CCCTGACGAC	CAAACCTTGT	ATCTCCATGT	TCTCAATATG	1710
AU	ATCAAATTCC	CTTGAATCT	GCTTATCAGA	TGCTGTCTTT	GTTGTTTCAT	CAGTCTGCTG	AAATCATTG	AGTATTTGAT	TGCCTTCTGC	1800
Ref	ATCAAATTCC	CTTGAATCT	GCTTATCAGA	TGCTGTCTTT	GTTGTTTCAT	CAGTCTGCTG	AAATCATTG	AGTATTTGAT	TGCCTTCTGC	1800
AU	AATGGATATT	TTGGAGCTTG	ATTCTTGATA	AAAGATGAAT	GAAGAGCTGC	TTAGATTTAT	GAAGTCAAAC	AAAACGTTC	TGTTTCCAAC	1890
Ref	AATGGATATT	TTGGAGCTTG	ATTCTTGATA	AAAGATGAAT	GAAGAGCTGC	TTAGATTTAT	GAAGTCAAAC	AAAACGTTC	TGTTTCCAAC	1890
AU	TAGAGTTTCA	TTTGCATAAA	ATATTAGGCA	AAGTTCGAAA	GGAGGGTTCA	TACTATTGTG	GTTTCAATCC	TGACAGCTGA	AGCTTGGCCT	1980
Ref	TAGAGTTTCA	TTTGCATAAA	ATATTAGGCA	AAGTTCGAAA	GGAGGGTTCA	TACTATTGTG	GTTTCAATCC	TGACAGCTGA	AGCTTGGCCT	1980
AU	CGATCCTCAA	CAACTGCATT	TTTGATCTGC	TTTTCGATTA	TCTCATTCTC	ACTGGTCTTT	TGAGCTTCCA	CAATGAAGT	TTATAGATCA	2070
Ref	CGATCCTCAA	CAACTGCATT	TTTGATCTGC	TTTTCGATTA	TCTCATTCTC	ACTGGTCTTT	TGAGCTTCCA	CAATGAAGT	TTATAGATCA	2070
AU	AAGGTTCAAT	TTAGATATTA	AAAAACATGA	GCGAATACGG	TGAACAAAGT	TTAGTTTCAG	TTTCTGACC	TCTTCAAATG	TATTGTCTTC	2160
Ref	AAGGTTCAAT	TTAGATATTA	AAAAACATGA	GCGAATACGG	TGAACAAAGT	TTAGTTTCAG	TTTCTGACC	TCTTCAAATG	TATTGTCTTC	2160
AU	AATCGGTTCA	TCCTTACCCA	CATTTTCTCT	TGCCTCATCT	TTGATCGGCT	CTTCTGAATG	GGAAAGTCGAA	TAAGATGCAA	CCTGTTGATT	2250
Ref	AATCGGTTCA	TCCTTACCCA	CATTTTCTCT	TGCCTCATCT	TTGATCGGCT	CTTCTGAATG	GGAAAGTCGAA	TAAGATGCAA	CCTGTTGATT	2250

AU TTGGCCACTC AGTTAGTGGT TATCGAAGAC AATAATAGAA AGGAGAATGA ATAAGAAATA CATGCAATTA TTAAGGTTTT GAGCTAGTAT 2340
 Ref TTGGCCACTC AGTTAGTGGT TATCGAAGAC AATAATAGAA AGGAGAATGA ATAAGAAATA CATGCAATTA TTAAGGTTTT GAGCTAGTAT 2340

AU TGCTTACCTC TTCTTTTGA AACTTCATTCA GTATGATTTT ATTTCCCTTCA TTTGTTTGT CACACTGATT TTCTTACCAG TCTGTCCCAT 2430
 Ref TGCTTACCTC TTCTTTTGA AACTTCATTCA GTATGATTTT ATTTCCCTTCA TTTGTTTGT CACACTGATT TTCTTACCAG TCTGTCCCAT 2430

AU CTCTTGTCTT GACAATATTC TCTTTGATTG CAGCATCTTT TGTTCCTTCG TTGAGTAGTT CATTGTCAAA AGCCTTTTCA TGTATCTCCC 2520
 Ref CTCTTGTCTT GACAATATTC TCTTTGATTG CAGCATCTTT TGTTCCTTCG TTGAGTAGTT CATTGTCAAA AGCCTTTTCA TGTATCTCCC 2520

AU TTTTGAATT CGAAGCTTCT TCAACCTCTC CTTTTAGTTC CCGAATCTTC TCGTGACCTT CATCTTCTTT AAATCTGTTT TTAATTTGTTT 2610
 Ref TTTTGAATT CGAAGCTTCT TCAACCTCTC CTTTTAGTTC CCGAATCTTC TCGTGACCTT CATCTTCTTT AAATCTGTTT TTAATTTGTTT 2610

AU CATCTCGTTG GACCTCAGAA GGCAATACAG AGGTTGTGAT ATGATGGTGG TTAGTTTAC CTCTCAAAAT GGCTTCGGCT TCCTTTATCT 2700
 Ref CATCTCGTTG GACCTCAGAA GGCAATACAG AGGTTGTGAT ATGATGGTGG TTAGTTTAC CTCTCAAAAT GGCTTCGGCT TCCTTTATCT 2700

AU TGTCCCTTTT CTGGCTTATC TTTTCTCTT TCTTTACTCC ATCAATGTGT CCATTTTACG TTTCTTTTTT CTTTCATATCC TCCTCCTCGG 2790
 Ref TGTCCCTTTT CTGGCTTATC TTTTCTCTT TCTTTACTCC ATCAATGTGT CCATTTTACG TTTCTTTTTT CTTTCATATCC TCCTCCTCGG 2790

AU TATTGCCAAC TTCATCAACA GTTTTGTGCT TATACTCCTC AAATTGCAAT GTGGCAACCA AATTTGAAAT TTGCTCCTTG GGTTCCTCTG 2880
 Ref TATTGCCAAC TTCATCAACA GTTTTGTGCT TATACTCCTC AAATTGCAAT GTGGCAACCA AATTTGAAAT TTGCTCCTTG GGTTCCTCTG 2880

AU TTGCGGTAGT CTGAGAACTA GCATTATCAT CTA CTGCAAG AGCTTCATCC TCCTTAAGCT GTTCTTTTTG CAAGGTCACA TCATCTCTAA 2970
 Ref TTGCGGTAGT CTGAGAACTA GCATTATCAT CTA CTGCAAG AGCTTCATCC TCCTTAAGCT GTTCTTTTTG CAAGGTCACA TCATCTCTAA 2970

AU TATCACTTCG TAAGAAATTT GCTTCTCCA TTTTCTTACA TTCTATCTTC CCGGCTGTAC CAGCAGTCAT TTCATCTTCT TTGACAGCTT 3060
 Ref TATCACTTCG TAAGAAATTT GCTTCTCCA TTTTCTTACA TTCTATCTTC CCGGCTGTAC CAGCAGTCAT TTCATCTTCT TTGACAGCTT 3060

AU CTAGCCCAAT GGAACCTTCC TTGTGTGAGC TTTTCTCTAC TGTAACTGT GCATCAGAAAG CATCTTCTTC TGTCTTGTCT TTTATGATTT 3150
 Ref CTAGCCCAAT GGAACCTTCC TTGTGTGAGC TTTTCTCTAC TGTAACTGT GCATCAGAAAG CATCTTCTTC TGTCTTGTCT TTTATGATTT 3150

AU CCCCTTCGCT TGTCTTCTCA TCTTCTGTCT CTTAGTTTC AGGCTCACCA GGTCTTCTCT TTTCAAGCAT TTCAGGTTCC TTCACCTTTT 3240
 Ref CCCCTTCGCT TGTCTTCTCA TCTTCTGTCT CTTAGTTTC AGGCTCACCA GGTCTTCTCT TTTCAAGCAT TTCAGGTTCC TTCACCTTTT 3240

AU CTTCTTCTTT GCTGGCATCA GCTTCATGCT TTGGGTTCTG AACAGGGAAT TCTAAATACA AAGATTGTTT ATTTGATTCC TCCATTTGAA 3330
 Ref CTTCTTCTTT GCTGGCATCA GCTTCATGCT TTGGGTTCTG AACAGGGAAT TCTAAATACA AAGATTGTTT ATTTGATTCC TCCATTTGAA 3330

AU GAGCTTGAGC AGCAGCAGTT TCATCGTTTG TTGCATCATT AAGCTCTGA AACTCTTGT TTTCTAAGCA TGTCTCAGCT TTTTCTTTTG 3420
 Ref GAGCTTGAGC AGCAGCAGTT TCATCGTTTG TTGCATCATT AAGCTCTGA AACTCTTGT TTTCTAAGCA TGTCTCAGCT TTTTCTTTTG 3420

AU CATCAGAAAG ATCTTCTGAA ATCTTGTCCG GACTCATGTC TGCTTCATTT TTTTCTCTT CTTCCATCTT TTCAGCTTTG CTCACATTTT 3510
 Ref CATCAGAAAG ATCTTCTGAA ATCTTGTCCG GACTCATGTC TGCTTCATTT TTTTCTCTT CTTCCATCTT TTCAGCTTTG CTCACATTTT 3510

AU CTTCTTCGTC CGAAACTAAT GGAGAGCTCG TAGTCTTCTC CTCGGGTTTA TTAGTCTCAA GAGTCTGCTC ACCAGTTATT CCATCTCTG 3600
 Ref CTTCTTCGTC CGAAACTAAT GGAGAGCTCG TAGTCTTCTC CTCGGGTTTA TTAGTCTCAA GAGTCTGCTC ACCAGTTATT CCATCTCTG 3600

AU CAACAGCATC TAGCTTTGTG GGTATTTCTT CTTTGTGTTT GCCATATTTT ATCTCCTCAT TTATGGCTCC AGTTCATATG TCGCTTTCCT 3690
 Ref CAACAGCATC TAGCTTTGTG GGTATTTCTT CTTTGTGTTT GCCATATTTT ATCTCCTCAT TTATGGCTCC AGTTCATATG TCGCTTTCCT 3690

AU TGAAGCCAA TGTGAAAAT GTAGTTTGA TTTTCTCTC CGGTTCCACA TTAGGAAGAC CCTCATCAGC AATTGTCTCT ACTGCTTTAA 3780
 Ref TGAAGCCAA TGTGAAAAT GTAGTTTGA TTTTCTCTC CGGTTCCACA TTAGGAAGAC CCTCATCAGC AATTGTCTCT ACTGCTTTAA 3780

AU GCTCTCCCTT TCTTTCATTT GGCAAGCGTA CCTCTTCTAT TCTCTTGTG TCAGAAGAAAT CTTCTCGGCT CTCGTGTTTT ATTTAGCAT 3870
 Ref GCTCTCCCTT TCTTTCATTT GGCAAGCGTA CCTCTTCTAT TCTCTTGTG TCAGAAGAAAT CTTCTCGGCT CTCGTGTTTT ATTTAGCAT 3870

AU CTTCTGGAT CTCTTCTCA ATATTCTCAA TCGGGTTTGC AATTCTGATA TTTTACCCTT CAGAAAGCAA TGTGCAAGCA GAACTTTGAA 3960
 Ref CTTCTGGAT CTCTTCTCA ATATTCTCAA TCGGGTTTGC AATTCTGATA TTTTACCCTT CAGAAAGCAA TGTGCAAGCA GAACTTTGAA 3960

AU GTTGCTCATC TGGTTTCTCT TCTGGAAGAG TATTGGTTGA ACCAATATCA TCGATGAGAA TAGTTTCAAC TCTTTGAGAG ATGTAATCAG 4050
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 Ref ATGATGTTT AGGTA CTCT TCAATGTCTT CAGTTTTATT GTCTTCCAGT TCTGCTGTTG GGCTTTCTC AGGTTAGCA ACCTGATCTT 4140

AU TGTGCATGTA AAGTGCATCT GCATCTCTCT TGATTACCTC CACTTCATTG TTGTCAATTA GTGGGACTTC AAGTGCCAAAG TCGGAGGATA 4230
 Ref TGTGCATGTA AAGTGCATCT GCATCTCTCT TGATTACCTC CACTTCATTG TTGTCAATTA GTGGGACTTC AAGTGCCAAAG TCGGAGGATA 4230

AU TATCTTCAAG CTGCCCCATC TCTACTTCTT TAGTCTTTG ATTGGCATCA TCTTTAATGG TTTCTAGACC CATCTTGACT GAGCTGATAT 4320
 Ref TATCTTCAAG CTGCCCCATC TCTACTTCTT TAGTCTTTG ATTGGCATCA TCTTTAATGG TTTCTAGACC CATCTTGACT GAGCTGATAT 4320

AU TCAATGTATT TATGAGCTCC TCATTACAG CATCGTTTAA GCTCATCTGT GCTCTTAAAG CTGTGCAAC TTCAATATGA CTCTTCTCAC 4410
 Ref TCAATGTATT TATGAGCTCC TCATTACAG CATCGTTTAA GCTCATCTGT GCTCTTAAAG CTGTGCAAC TTCAATATGA CTCTTCTCAC 4410

AU GGCAGAGTTT CACGTCATCG ATAATCTCAG CTTTTCTTC TGCTTCTTA TCTTCACTGG ACACTTTTGC TGGATCTGTG GACTCTTCTCAC 4500
 Ref GGCAGAGTTT CACGTCATCG ATAATCTCAG CTTTTCTTC TGCTTCTTA TCTTCACTGG ACACTTTTGC TGGATCTGTG GACTCTTCTCAC 4500

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 AU AAACGACAAAC GTTGGTAAAC TTGTTTTCAT TTTCTTCTCT GTTAATATAG TCTTCATCCT TCAGTTTGTCT TTTCAGTTCC TCTGTAATAT 5040
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 AU TATCGTATAC ATATGAAGTT TTGGTTTTG TTTTCTATTG ATAATTTGAT TTGACGAGGT TCTTCATTGA GTTAAACCATT TTCTATACTA 5400
 Ref TATCGTATAC ATATGAAGTT TTGGTTTTG TTTTCTATTG ATAATTTGAT TTGACGAGGT TCTTCATTGA GTTAAACCATT TTCTATACTA 5400
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 Ref ACTTTGAAAG GAGGGTTGAA AGTAGTCTGA CCTCTTCTGT TACTGTTATA GTTTCAATCC TGGAACTGA AGCATGGCTT GGATCCCAA 5580
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 Ref AAGTTTTATC TTCAATCTGG TTTTCAATTA TCTCAATTTT ACTGGTCTTT TGAGCTTCTT GAACGAGCTG TTATAGATT AATATTCAT 5670
 AU ATGATTTTAT AATAGAGAAA AAAATGGAAG ATGAACAAAG TTATAGTTTC TGTTCCTTA CCTCTCCAT TGTCTTGCTT TCAGTCGGGT 5760
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 Ref TTTCTTTAC CTCATCTTCC CCAGAGCCAT CTTTGATCAG CTCTTCCGAA CAGGAAGTTG AATAAGTTGT TTCAGTAACT TTCTTGTCT 5850
 AU TTTTGACCTG TCAAGTTTGA CCCTTAGTTA ATAGTCATCT AGATAACAT AGAAACGAGA ATACATAGAA AATAGATGAA AAATTTATGA 5940
 Ref TTTTGACCTG TCAAGTTTGA CCCTTAGTTA ATAGTCATCT AGATAACAT AGAAACGAGA ATACATAGAA AATAGATGAA AAATTTATGA 5940
 AU TTTTGTAGCT AGTATTGGTT ACCGTTTCTA TCGAAACTTC ATTCAATGGG ATTTCAATTC CTTCAATTTG TTTCTCACAC TGGTTTACTT 6030
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 AU CACTCCCCTGA CCCATCCCCTT GCTTTGACAA GATTCTCTTT GATTGCAGCA TCTTCTATTT CAGTGAGTAA TTCATTGCTT AAAGCCTTTT 6120
 Ref CACTCCCCTGA CCCATCCCCTT GCTTTGACAA GATTCTCTTT GATTGCAGCA TCTTCTATTT CAGTGAGTAA TTCATTGCTT AAAGCCTTTT 6120
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 AU CCTTTATCTC ATCTTTTCT GTGCTTATCT CTTCCACTGT CTTTACTCCA TCAATTTCTC CAATTTTCTG TTCTTCTTCC TTCATATTCT 6390
 Ref CCTTTATCTC ATCTTTTCT GTGCTTATCT CTTCCACTGT CTTTACTCCA TCAATTTCTC CAATTTTCTG TTCTTCTTCC TTCATATTCT 6390
 AU CTTCTTCAAG ATTGAGAATC TTCTCCTCAG GTTTCCTGT TGGAAATGTC TGGAAACGAG TATTATTTT TGCTGCAAGA GCTTCACTCT 6480
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 AU CCTGAAGCAG TTCCTTCTGT AAGATCACAT CTTCTCCATT ATCTTGTGAG AATTCTGCTT CGCCTTTTTT CTCACTTTCT ATCTTCTCAG 6570
 Ref CCTGAAGCAG TTCCTTCTGT AAGATCACAT CTTCTCCATT ATCTTGTGAG AATTCTGCTT CGCCTTTTTT CTCACTTTCT ATCTTCTCAG 6570
 AU CTGTACCAGC AGTTGCTTCG TCTTCTGCAA AAGCTTCTAG CTTGACAGAG CTGTCTTTT GTGAGCATAT CTCTGCTGTT GTCTTGCAT 6660
 Ref CTGTACCAGC AGTTGCTTCG TCTTCTGCAA AAGCTTCTAG CTTGACAGAG CTGTCTTTT GTGAGCATAT CTCTGCTGTT GTCTTGCAT 6660
 AU CTGAAGCATC TTCTTCACTC CCATCTTTTA TGATTTGCCT ATCGTTTGT TTCTCATCTT CTTTCTCCTT TTTTTCATGC TCTAGCATTT 6750
 Ref CTGAAGCATC TTCTTCACTC CCATCTTTTA TGATTTGCCT ATCGTTTGT TTCTCATCTT CTTTCTCCTT TTTTTCATGC TCTAGCATTT 6750

AU CACTAGTTAT AGCAGTGGCT GAAATATAAA GTTGCTTGTCT TGAGGAAGAC TGATCAGAAG CAATTTCTTC TTTTTAACT AACTGAAGCT 6840
 Ref CACTAGTTAT AGCAGTGGCT GAAATATAAA GTTGCTTGTCT TGAGGAAGAC TGATCAGAAG CAATTTCTTC TTTTTAACT AACTGAAGCT 6840

AU CATTAGCTC TTCTGTTACT CCAGCTGATG AGTCTTCATG GTTCCCATTG TGAAAGCTTTT CAGTTTCTTT CCCTTTTTCT TTGTTTGCTT 6930
 Ref CATTAGCTC TTCTGTTACT CCAGCTGATG AGTCTTCATG GTTCCCATTG TGAAAGCTTTT CAGTTTCTTT CCCTTTTTCT TTGTTTGCTT 6930

AU CAATCTCTTG TGATTCCCTCA GTTAAGGAAG CCTGAGCAAT AATGGTTTCT TGATCTATAA CAGCTTTAGG CTCCTGAGGT CTTCCCTTTT 7020
 Ref CAATCTCTTG TGATTCCCTCA GTTAAGGAAG CCTGAGCAAT AATGGTTTCT TGATCTATAA CAGCTTTAGG CTCCTGAGGT CTTCCCTTTT 7020

AU CGAGAAGTTC CACTTCCCTC ACCTTTTTCC CCTCTTCTTC ATTGGCCTCA GCTCCATGCT TTAGGTTCTC TTCAGTCAAT TCTGAGGAAG 7110
 Ref CGAGAAGTTC CACTTCCCTC ACCTTTTTCC CCTCTTCTTC ATTGGCCTCA GCTCCATGCT TTAGGTTCTC TTCAGTCAAT TCTGAGGAAG 7110

AU ACTGACCAGA AGCAATTTCT TCTCTAGTAA CTAATTGAAG CTCATTTAGC TTTTCTGTTT CTCCAGCTGA CGAGTCTTCA AATTTCCCAT 7200
 Ref ACTGACCAGA AGCAATTTCT TCTCTAGTAA CTAATTGAAG CTCATTTAGC TTTTCTGTTT CTCCAGCTGA CGAGTCTTCA AATTTCCCAT 7200

AU CGTCAAGCTT TTTGGCTTC TCCCTTTTTCT CTTGCTTTGC TTCAATCTTT TGTGATTCCT CTGTTATTGA AGCCTGAAC TATAATGGTTT 7290
 Ref CGTCAAGCTT TTTGGCTTC TCCCTTTTTCT CTTGCTTTGC TTCAATCTTT TGTGATTCCT CTGTTATTGA AGCCTGAAC TATAATGGTTT 7290

AU CTTGATCCAT AACAGCTTCA GGCTCCTGAG GTCTTTTCTT TTCGAGAATT TCCACTTCTC TCACCTTTTC TTCCTCTTCT TCACTGGCCT 7380
 Ref CTTGATCCAT AACAGCTTCA GGCTCCTGAG GTCTTTTCTT TTCGAGAATT TCCACTTCTC TCACCTTTTC TTCCTCTTCT TCACTGGCCT 7380

AU CAGCTCCACG CTTTAGGTTT TCAACAGTCA ATTCTGAAGG CAAAGATTGC TCACCTTGATT CCTCCACTTG GGGACATTGA GCAGTGGCAG 7470
 Ref CAGCTCCACG CTTTAGGTTT TCAACAGTCA ATTCTGAAGG CAAAGATTGC TCACCTTGATT CCTCCACTTG GGGACATTGA GCAGTGGCAG 7470

AU CTTTCATCTTT CTTGGCATCG TCAAGCTCCT GGATTGCTTC TTTTCTGAA CATGTCTCTG CTACTTCTTT TGCATTAATA GAATCTTCTG 7560
 Ref CTTTCATCTTT CTTGGCATCG TCAAGCTCCT GGATTGCTTC TTTTCTGAA CATGTCTCTG CTACTTCTTT TGCATTAATA GAATCTTCTG 7560

AU AGATATTCTC TGAAAGTGTCT GCTTCACTTA ATTTATCTTC TTCTATCTTC TTAACCGAGC TTACATTTTC TTTCTCTCC TTAGAAACCA 7650
 Ref AGATATTCTC TGAAAGTGTCT GCTTCACTTA ATTTATCTTC TTCTATCTTC TTAACCGAGC TTACATTTTC TTTCTCTCC TTAGAAACCA 7650

AU ATGGAAGGCT TGTGGTCCCC TCCTTTGGTA TTTTAGTCTC AAGAATCTGC TCACCAGTTA CTTCTTCCAA CTTTTCCACA CTTAGGCCAT 7740
 Ref ATGGAAGGCT TGTGGTCCCC TCCTTTGGTA TTTTAGTCTC AAGAATCTGC TCACCAGTTA CTTCTTCCAA CTTTTCCACA CTTAGGCCAT 7740

AU TCTCGGCTTC AACAACTCTGA TCTTTGGGCA TGTAAAATGC CTTGAGATCT CTTCTGGTAA TCTCTGCTTC ATCATTGTTG TTAGTTGGGG 7830
 Ref TCTCGGCTTC AACAACTCTGA TCTTTGGGCA TGTAAAATGC CTTGAGATCT CTTCTGGTAA TCTCTGCTTC ATCATTGTTG TTAGTTGGGG 7830

AU CTTCTGGTGC CAAGTTGGAG GATCTTTCTT CAAGCTGCAC CTTCTCTATT TCTTTGGTCT CTTGATTAGA ATCACTTTCA AGGGTTTCTA 7920
 Ref CTTCTGGTGC CAAGTTGGAG GATCTTTCTT CAAGCTGCAC CTTCTCTATT TCTTTGGTCT CTTGATTAGA ATCACTTTCA AGGGTTTCTA 7920

AU AACTCATTTT GACTGAAC TG ATATTTGCTG TATTTTCAAG CTCTCATTG ACCTCAGTG TGTTTAAGCT TGTCCCTGCT ATTACTTCTG 8010
 Ref AACTCATTTT GACTGAAC TG ATATTTGCTG TATTTTCAAG CTCTCATTG ACCTCAGTG TGTTTAAGCT TGTCCCTGCT ATTACTTCTG 8010

AU TCACAGCTTC AATAGGACTC TCTTCATGAC AAAATTTTGA GTCATCAATA ATCTCCTCGA TTTTTTCTC TTCTCTGTCT TCACCGTGCT 8100
 Ref TCACAGCTTC AATAGGACTC TCTTCATGAC AAAATTTTGA GTCATCAATA ATCTCCTCGA TTTTTTCTC TTCTCTGTCT TCACCGTGCT 8100

AU CCTTTATAGG GTCTCTGGAA TCTTCGTCTT GTCTCCTTTC TTCTATTTCT TTGTAACGC CGGATCCTTC TTTGTCGTTG GTCGAATTTT 8190
 Ref CCTTTATAGG GTCTCTGGAA TCTTCGTCTT GTCTCCTTTC TTCTATTTCT TTGTAACGC CGGATCCTTC TTTGTCGTTG GTCGAATTTT 8190

AU CTTCAACCTC TGCTTTTATC TGCTTTTGG AGCGAGCTAC CTTAATACAT TCAGTTGAGA CTGCACTGTA GTCTTTGACC TGTCAATACG 8280
 Ref CTTCAACCTC TGCTTTTATC TGCTTTTGG AGCGAGCTAC CTTAATACAT TCAGTTGAGA CTGCACTGTA GTCTTTGACC TGTCAATACG 8280

AU TAGTTAAGAT GTTTGAGAA TTTGACATATC AAAAGAGCTA TTTGAGTATA AGTATTAATT GTGAATCACT TATCTAACCT CATTAGTTTC 8370
 Ref TAGTTAAGAT GTTTGAGAA TTTGACATATC AAAAGAGCTA TTTGAGTATA AGTATTAATT GTGAATCACT TATCTAACCT CATTAGTTTC 8370

AU TTCATCTCCT TTTGATACCG GATGAAGTTC ATTTGTGCTA CTTTCTTCTT CCATGACATG TTCTTTAATC TCTTTAATAC CATCGACTTT 8460
 Ref TTCATCTCCT TTTGATACCG GATGAAGTTC ATTTGTGCTA CTTTCTTCTT CCATGACATG TTCTTTAATC TCTTTAATAC CATCGACTTT 8460

AU CTCAACTTCC TTATCAACCT GCCAAAAATG AATATTTTTT AGTATAACTA AGAAATCTCC TTAATAATC ATGTAGGCAG AATATTCAGA 8550
 Ref CTCAACTTCC TTATCAACCT GCCAAAAATG AATATTTTTT AGTATAACTA AGAAATCTCC TTAATAATC ATGTAGGCAG AATATTCAGA 8550

AU AGTGTTCCTT ACCTCTTTCAG ACAAATTTAC AGCCTTCGTA ACTACGTTTG TGTGTTGTTT ACTGCTGATG CTGTCTTCAT CTTCCAGTTT 8640
 Ref AGTGTTCCTT ACCTCTTTCAG ACAAATTTAC AGCCTTCGTA ACTACGTTTG TGTGTTGTTT ACTGCTGATG CTGTCTTCAT CTTCCAGTTT 8640

AU GTCTTTCAGT TCCTCTTTTA TCTGTTCTTC AGTTTCTTGA TTCTGAACGC CAATGCTGAT TTCATCATCT AGGTTTTTGG TGTGTTTAGG 8730
 Ref GTCTTTCAGT TCCTCTTTTA TCTGTTCTTC AGTTTCTTGA TTCTGAACGC CAATGCTGAT TTCATCATCT AGGTTTTTGG TGTGTTTAGG 8730

AU GATTGTTTCC TTACTTTGAT CTTTCAAGCC TGCTTCTGTT TCAGATTTTG ATTTTTCTC AAAAAGCTG ATTGCTACAT TCTGTTTGA 8820
 Ref GATTGTTTCC TTACTTTGAT CTTTCAAGCC TGCTTCTGTT TCAGATTTTG ATTTTTCTC AAAAAGCTG ATTGCTACAT TCTGTTTGA 8820

AU ATTGATACAT TAGTTGAGGG CTGAACAAAC TCAGCTACTT AACTAAAGAG AAACAGTTGA GGTGATATGA ACATTTGGAC AAGGTTAGAC 8910
 Ref ATTGATACAT TAGTTGAGGG CTGAACAAAC TCAGCTACTT AACTAAAGAG AAACAGTTGA GGTGATATGA ACATTTGGAC AAGGTTAGAC 8910

AU ATTATATACA ACTTTGTTTT CCATTATGGT ATATATATAT AATTTTGGT TTTGCTTCT TCAATGATTT GATTTTATGA CGTCTTCAA 9000
 Ref ATTATATACA ACTTTGTTTT CCATTATGGT ATATATATAT AATTTTGGT TTTGCTTCT TCAATGATTT GATTTTATGA CGTCTTCAA 9000

AU CGAGTTATCA CATTITTTGTG CTA AAAACCTG GAATCTCTTT TGTAAATATGA ACCGATTTCAT GGAATCGACT AGAAAATTGC ACACTTATAC 9090
 Ref CGAGTTATCA CATTITTTGTG CTA AAAACCTG GAATCTCTTT TGTAAATATGA ACCGATTTCAT GGAATCGACT AGAAAATTGC ACACTTATAC 9090

AU TTCCTATCTG CGTAAAATAT TATGAAAGGT TAAAGGAGGA TTCAATGGTA GGCTAACCTC TTCTGTTACT GATGTGGTTT CAATCTTGAC 9180
 Ref TTCCTATCTG CGTAAAATAT TATGAAAGGT TAAAGGAGGA TTCAATGGTA GGCTAACCTC TTCTGTTACT GATGTGGTTT CAATCTTGAC 9180

AU AACTGAAGCT TGGCCTGGAT CCTCAACAGT TTTATCTTCA ATCTGGTTTT CAATTATCTC GTTTCCTACTG GTCTTTTGAG TTTCCGCAAT 9270
 Ref AACTGAAGCT TGGCCTGGAT CCTCAACAGT TTTATCTTCA ATCTGGTTTT CAATTATCTC GTTTCCTACTG GTCTTTTGAG TTTCCGCAAT 9270

AU GAGCTGTTAA GGACAAAGCT TCAGTACAGA TATTGAAAAG AAAGAATATG TAAGATGAAC GAAGTTTAGT TTTCAATTTCC TGACCTCTTC 9360
 Ref GAGCTGTTAA GGACAAAGCT TCAGTACAGA TATTGAAAAG AAAGAATATG TAAGATGAAC GAAGTTTAGT TTTCAATTTCC TGACCTCTTC 9360

AU ATGTTTCTTG TCTTCAACCA GTTTATCCTT CAGCTCTTCT CCAGAGCCAT CTTTGATCAT CTCTTCCAAA TGGGAAGTTG AATAAGATAT 9450
 Ref ATGTTTCTTG TCTTCAACCA GTTTATCCTT CAGCTCTTCT CCAGAGCCAT CTTTGATCAT CTCTTCCAAA TGGGAAGTTG AATAAGATAT 9450

AU TTCAGTAACT TCCTTGTTCC CCATAACCTG TCAATTTTCT CTCTCATTTA ATAGTTTTCA CAATAATAAA TTTTAATTGC AAGGAAGTAC 9540
 Ref TTCAGTAACT TCCTTGTTCC CCATAACCTG TCAATTTTCT CTCTCATTTA ATAGTTTTCA CAATAATAAA TTTTAATTGC AAGGAAGTAC 9540

AU GTGAAATTGT TAAGGTTTTG AGCTAGTTTT GCCTACCTCT TTGTCCAAAT CTTTATCCAC CGTGATTTCA TTTCCCTCAA TTGTTTTCTT 9630
 Ref GTGAAATTGT TAAGGTTTTG AGCTAGTTTT GCCTACCTCT TTGTCCAAAT CTTTATCCAC CGTGATTTCA TTTCCCTCAA TTGTTTTCTT 9630

AU GCATTGATGT TCTTCACCCT CTGTCTCATC TCTTGCATAG ACAATTTTCT TTTCTGTTGGC AGCATCTTCT GTTTCAGTGA GTAATTCATT 9720
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AU GTCAGAAAGCC CTTTTACATG TCTCCTTGT GAAATTTAAG ACTTCCTCTA TCTCTCTTGT TTGTTCTTGA ATATTCTCTG TACTTTCTTC 9810
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AU TTCCTTCACT TCTGTTTCCA TTGTTTCATT TTCTTTGACC TCAAAAAGCA ATGTAGAGGT TGTAGAATGA AGGTTATCTG TTGATGCTC 9900
 Ref TTCCTTCACT TCTGTTTCCA TTGTTTCATT TTCTTTGACC TCAAAAAGCA ATGTAGAGGT TGTAGAATGA AGGTTATCTG TTGATGCTC 9900

AU ACCTGGAACA ATATGAAGT CAGCTGCTCT ATCTTCCAAG GCATCTTGAA GCTCTTTTGT GCTCTTTGAT TGTGAGCTTT CTTTCTTTC 9990
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AU AAATGATTCT GCCTTTATTT TCTGTTCTTC TATAACAGCT CCATGCTCCT CCGATTCCCT GGATATAACC TCACTAATAA TTGTTTCACC 10080
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AU TTCCAACATG GCTTCAGGTT CATTGTGCT ACTTTCTTCC TCCATGACCT GTTCTTTAGT ATCTTCACCA CCATCAGCCT GCTAAAGTTA 10170
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AU ACTTTTGTCA ATCAACAGAA ATAAATCTTC TTA AAAAGTC ATATAGGCAA AGTATTTATA AGTGTCTTT ACCTCTCTAG ACACAACCTT 10260
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AU ATTTGTGTTT TTGTCTTTGT TAACACTGTC TTCATCCTTA AGTTTGTCT TCTGTTCCCT TTTTATTTGA TTTTCAGTTT CTTTATTTTG 10350
 Ref ATTTGTGTTT TTGTCTTTGT TAACACTGTC TTCATCCTTA AGTTTGTCT TCTGTTCCCT TTTTATTTGA TTTTCAGTTT CTTTATTTTG 10350

AU GGCATCGGTG TTGGTTTCGT CATCTTGGTT CTTGGTGTCT TCAGGGATTG GTTCTTGGCT TTGGTCTTCA GCCACTGGTT CTGAGTCAGA 10440
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AU TTCGGGCTTT TCTTCAGAAC ATGCTAGTGC TAGCTCAACA TTCTGTATGA AATTAATAAG TTAGCCGAGG GCCCCAGAAA TCCACTAAAA 10530
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AU TGAAGAGAAA CAATTGAATG GTGATATGAA CATCTGGACA AGGTTAGACA CTTATAAAAT TTTGGTTTTT TTCTCTTTC AATAATTTGA 10620
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AU TTTTATGAGG TTCTTCAATG GGTTAACTGT GTTCTATACT AAAACCTGAA ATTCTTTTGG TCACTCACAC AGATTCTATA AATTAACCTAG 10710
 Ref TTTTATGAGG TTCTTCAATG GGTTAACTGT GTTCTATACT AAAACCTGAA ATTCTTTTGG TCACTCACAC AGATTCTATA AATTAACCTAG 10710

AU ACTGTTGCAC AATCTGTTAC GGTTACATTT GCATAAAAATA TTATGAAAAG CATGGAAGGA GGATTCAATG CTGCTTAACC TCTTCTGTTG 10800
 Ref ACTGTTGCAC AATCTGTTAC GGTTACATTT GCATAAAAATA TTATGAAAAG CATGGAAGGA GGATTCAATG CTGCTTAACC TCTTCTGTTG 10800

AU CTGTTGCGGT TTC AATCCTG GCATCTGAAG CTTGGACTGG ATCCTCAACA GTTTTATCTT CTATTGGATT CTCATTTTCA CTGGTCTTTT 10890
 Ref CTGTTGCGGT TTC AATCCTG GCATCTGAAG CTTGGACTGG ATCCTCAACA GTTTTATCTT CTATTGGATT CTCATTTTCA CTGGTCTTTT 10890

AU GAGCTTCCAA GATGACCTGT TATAGATTAA AGCTTAACTA CAGATATCAA AAGGCAAAAA ATGAGTAAGA TGAAGAAAAG TTTAGTATTG 10980
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AU CTTACCTTTT CTGTTGAAAC TTCATTCAAT ATGATTTCCC CTGTCTCCGT TCTTGGTTTTG ACAAGTTTCT TGTGGATTGC AGCATCCTCT 11070
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AU GTTTCATTTA GTA AACTCATT TTCGGAAGCC TTTTTCATGTA TCTCCTTATT GAAATCGGAA GCTTCTCAA TCTCCCTTGT TTGTTCTGGA 11160
 Ref GTTTCATTTA GTA AACTCATT TTCGGAAGCC TTTTTCATGTA TCTCCTTATT GAAATCGGAA GCTTCTCAA TCTCCCTTGT TTGTTCTGGA 11160

AU ATCTTGTCCG TATTTCTATC TTCTTCCAGT TCTGTTTTCT TCCTTTCATC TCCTTGGACC TCAGATGGCA GCATAGCGGT TGTAAAGATGA 11250
 Ref ATCTTGTCCG TATTTCTATC TTCTTCCAGT TCTGTTTTCT TCCTTTCATC TCCTTGGACC TCAGATGGCA GCATAGCGGT TGTAAAGATGA 11250

AU ^{11,260} ATGTGATCTG ^{11,280} TTGGCAATGT ^{11,300} GTCAGCAGGA ^{11,320} TTTGGAAGAT ^{11,340} CTTTGTGTTT ^{11,360} TTCTGTCTGG ^{11,380} ATCACTTCTG ^{11,400} AAGAAAGCATT ^{11,420} GTCATCTACT ^{11,440} 11340
 Ref ATGTGATCTG TTGGCAATGT GTCAGCAGGA TTTGGAAGAT CTTTGTGTTT TTCTGTCTGG ATCACTTCTG AAGAAAGCATT GTCATCTACT 11340

AU ^{11,360} GCAAGAGCTT ^{11,380} CATCCTCTTG ^{11,400} AAGCCGGTCC ^{11,420} TTCTGCAAGG ^{11,440} ATGCATCTTC ^{11,460} TTCATTATAA ^{11,480} TCTTGTGTTT ^{11,500} TCACACTTTC ^{11,520} TATCATCTCA ^{11,540} 11430
 Ref GCAAGAGCTT CATCCTCTTG AAGCCGGTCC TTCTGCAAGG ATGCATCTTC TTCATTATAA TCTTGTGTTT TCACACTTTC TATCATCTCA 11430

AU ^{11,440} TCTGTTATAG ^{11,460} TTCTTTTACA ^{11,480} TTCCTCTTCC ^{11,500} TTTGAAAGCA ^{11,520} GTGCAGAGCT ^{11,540} TGGATTCTGA ^{11,560} ATCTGTTTCAT ^{11,580} CTGATGTCTT ^{11,600} CTCAGTGAGA ^{11,620} 11520
 Ref TCTGTTATAG TTCTTTTACA TTCCTCTTCC TTTGAAAGCA GTGCAGAGCT TGGATTCTGA ATCTGTTTCAT CTGATGTCTT CTCAGTGAGA 11520

AU ^{11,540} GTCTCACTGA ^{11,560} CTGTCAATTC ^{11,580} ATCTTCTGCA ^{11,600} ACAGCTTCTG ^{11,620} GTTTGAAAGA ^{11,640} CCTTTCCGGT ^{11,660} TGTGAGCATA ^{11,680} TCTTTAATGC ^{11,700} TGTCTTTTCC ^{11,720} 11610
 Ref GTCTCACTGA CTGTCAATTC ATCTTCTGCA ACAGCTTCTG GTTTGAAAGA CCTTTCCGGT TGTGAGCATA TCTTTAATGC TGTCTTTTCC 11610

AU ^{11,620} TCCTTAGCAT ^{11,640} CTTCTTGAAT ^{11,660} CTCGTTTCTT ^{11,680} ATGAGCTCCC ^{11,700} CTTCCGTTGT ^{11,720} TTTCTCATCT ^{11,740} TCTTTTTCCG ^{11,760} TGTCAATCATT ^{11,780} TTTACCATCA ^{11,800} 11700
 Ref TCCTTAGCAT CTTCTTGAAT CTCGTTTCTT ATGAGCTCCC CTTCCGTTGT TTTCTCATCT TCTTTTTCCG TGTCAATCATT TTTACCATCA 11700

AU ^{11,720} TCAAGCTCGA ^{11,740} GAAATTCTTC ^{11,760} TTTTTCCAGG ^{11,780} CATATCTCTG ^{11,800} TCGTTGTATC ^{11,820} TGCAACTGAA ^{11,840} AGATCTTCTG ^{11,860} AAATCTTGTG ^{11,880} TGGAAATCATG ^{11,900} 11790
 Ref TCAAGCTCGA GAAATTCTTC TTTTTCCAGG CATATCTCTG TCGTTGTATC TGCAACTGAA AGATCTTCTG AAATCTTGTG TGGAAATCATG 11790

AU ^{11,800} TCTGCTTCAT ^{11,820} ATATTTTCTC ^{11,840} TTCTTCTATG ^{11,860} CGTATATTTT ^{11,880} CTTTCAATGTC ^{11,900} TTCTTCAAAA ^{11,920} ACCAATGGAG ^{11,940} TGCTTATAGG ^{11,960} GCCCTCCTTT ^{11,980} 11880
 Ref TCTGCTTCAT ATATTTTCTC TTCTTCTATG CGTATATTTT CTTTCAATGTC TTCTTCAAAA ACCAATGGAG TGCTTATAGG GCCCTCCTTT 11880

AU ^{11,900} GGTTTATTAC ^{11,920} CTGAGAGAGT ^{11,940} CTGCTCACC A ^{11,960} GTTACTACAC ^{11,980} CTCCTGTAA G ^{12,000} AACATCTGGT ^{12,020} TTAGTGGGT A ^{12,040} CTTCTCCCTT ^{12,060} TGTTTTTCCA ^{12,080} 11970
 Ref GGTTTATTAC CTGAGAGAGT CTGCTCACC A GTTACTACAC CTCCTGTAA G AACATCTGGT TTAGTGGGT A CTTCTCCCTT TGTTTTTCCA 11970

AU ^{11,980} TATTCTATCG ^{12,000} CCTCACTGAT ^{12,020} GTCTCTGGTT ^{12,040} CCATGCTCAC ^{12,060} TTTTCTCAGA ^{12,080} AGGTAATGTT ^{12,100} GAAGATGTAG ^{12,120} TTTGAATTTG ^{12,140} CTCCACTGGT ^{12,160} 12060
 Ref TATTCTATCG CCTCACTGAT GTCTCTGGTT CCATGCTCAC TTTTCTCAGA AGGTAATGTT GAAGATGTAG TTTGAATTTG CTCCACTGGT 12060

AU ^{12,080} CCATCAGTTA ^{12,100} GAGAAGCCTG ^{12,120} ATCAGCAATA ^{12,140} GTTTCTTCTT ^{12,160} CTGAGACTGC ^{12,180} TTTAAGTTCT ^{12,200} GTTTGTTTCAT ^{12,220} TTGAC AAGCA ^{12,240} TACCTCTTCT ^{12,260} 12150
 Ref CCATCAGTTA GAGAAGCCTG ATCAGCAATA GTTTCTTCTT CTGAGACTGC TTTAAGTTCT GTTTGTTTCAT TTGAC AAGCA TACCTCTTCT 12150

AU ^{12,160} ATTGCTTTTG ^{12,180} TTTT CAGATGA ^{12,200} CTCTCCTCGA ^{12,220} CACTCTTGTG ^{12,240} TTATTTTCATC ^{12,260} ATCCTTCTGC ^{12,280} ATCTCTTCTT ^{12,300} CGATCTTTTC ^{12,320} AACAGGACTT ^{12,340} 12240
 Ref ATTGCTTTTG TTTT CAGATGA CTCTCCTCGA CACTCTTGTG TTATTTTCATC ATCCTTCTGC ATCTCTTCTT CGATCTTTTC AACAGGACTT 12240

AU ^{12,260} GCTTCAGTCT ^{12,280} CAGAAAGCAA ^{12,300} TGAGCAATAA ^{12,320} GAAGTTTGAA ^{12,340} TTTGCTCCTC ^{12,360} AAGTTTTACT ^{12,380} TCTAAAACAG ^{12,400} TTTT AAGGGA ^{12,420} ACCCATATGA ^{12,440} 12330
 Ref GCTTCAGTCT CAGAAAGCAA TGAGCAATAA GAAGTTTGAA TTTGCTCCTC AAGTTTTACT TCTAAAACAG TTTT AAGGGA ACCCATATGA 12330

AU ^{12,340} TCTATTTCCC ^{12,360} CCAGTAGCTC ^{12,380} AGCTTTTGAA ^{12,400} ATTTTGGAGG ^{12,420} CTTCACTCTT ^{12,440} TGCTCTTACA ^{12,460} AGCTCATGGT ^{12,480} CCTGGGTTAG ^{12,500} GTTGCCAAAC ^{12,520} 12420
 Ref TCTATTTCCC CCAGTAGCTC AGCTTTTGAA ATTTTGGAGG CTTCACTCTT TGCTCTTACA AGCTCATGGT CCTGGGTTAG GTTGCCAAAC 12420

AU ^{12,440} GTTTCTTCTC ^{12,460} TTTACTTCTG ^{12,480} TACTGCTTCA ^{12,500} ATACGACTCT ^{12,520} CATTATAAGA ^{12,540} CAAGTTTGAG ^{12,560} TCATCAATTA ^{12,580} TCTCCTCAGT ^{12,600} TTTCTCTTCT ^{12,620} 12510
 Ref GTTTCTTCTC TTTACTTCTG TACTGCTTCA ATACGACTCT CATTATAAGA CAAGTTTGAG TCATCAATTA TCTCCTCAGT TTTCTCTTCT 12510

AU ^{12,520} GCTTCTCGAT ^{12,540} CTTTCCGCTG ^{12,560} CAGACTTACA ^{12,580} GGATCTCTGG ^{12,600} ACTCCTCATC ^{12,620} CTGTCTCATT ^{12,640} TCCTCAAATT ^{12,660} CTTTGGTGAT ^{12,680} GTGGGATGCT ^{12,700} 12600
 Ref GCTTCTCGAT CTTTCCGCTG CAGACTTACA GGATCTCTGG ACTCCTCATC CTGTCTCATT TCCTCAAATT CTTTGGTGAT GTGGGATGCT 12600

AU ^{12,620} TCTCCATCAC ^{12,640} TGGTTAAATA ^{12,660} TTCTTCAACC ^{12,680} TGCAAATTTT ^{12,700} CTGCGACTAT ^{12,720} CTGCTCTTTG ^{12,740} GTCTCGACTT ^{12,760} CCGTGACACA ^{12,780} TTCAGTTAGG ^{12,800} 12690
 Ref TCTCCATCAC TGGTTAAATA TTCTTCAACC TGCAAATTTT CTGCGACTAT CTGCTCTTTG GTCTCGACTT CCGTGACACA TTCAGTTAGG 12690

AU ^{12,700} ACTGAAC TGT ^{12,720} AGTCATCCAC ^{12,740} CTGTGCATAA ^{12,760} GGTAGTTAAA ^{12,780} AAGTTTAA CA ^{12,800} ATATGACATC ^{12,820} AAAAATGTTA ^{12,840} TTTGAGTAAC ^{12,860} TATTCATTTT ^{12,880} 12780
 Ref ACTGAAC TGT AGTCATCCAC CTGTGCATAA GGTAGTTAAA AAGTTTAA CA ATATGACATC AAAAATGTTA TTTGAGTAAC TATTCATTTT 12780

AU ^{12,800} GAACCTGAAA ^{12,820} AGTGTACTTA ^{12,840} TTCACTAACC ^{12,860} TTTGATACTG ^{12,880} ATTTTCAAT ^{12,900} AATTTACTTG ^{12,920} ATTTTGT TTT ^{12,940} TTAAGAAGAA ^{12,960} AGAGAGTGAA ^{12,980} 12870
 Ref GAACCTGAAA AGTGTACTTA TTCACTAACC TTTGATACTG ATTTTCAAT AATTTACTTG ATTTTGT TTT TTAAGAAGAA AGAGAGTGAA 12870

AU ^{12,880} AAGAGTAGAA ^{12,900} TAATTGTTCA ^{12,920} CTAACCTTTG ^{12,940} CACTATAAAT ^{12,960} CGTGATAA CC ^{12,980} ATCTCAGGAA ^{13,000} TCTGATTTTC ^{13,020} TTTTCCATT ^{13,040} TCAGTCTCTT ^{13,060} 12960
 Ref AAGAGTAGAA TAATTGTTCA CTAACCTTTG CACTATAAAT CGTGATAA CC ATCTCAGGAA TCTGATTTTC TTTTCCATT TCAGTCTCTT 12960

AU ^{12,960} CTTTCAAGCT ^{13,000} TTCCGGTTTT ^{13,020} TCTATGTTCT ^{13,040} TAGCAAGATT ^{13,060} CTCTTCTCCT ^{13,080} GTGGCCTTTT ^{13,100} TGTCACTCTT ^{13,120} GCTAGTACCC ^{13,140} AAGGTTGCTT ^{13,160} 13050
 Ref CTTTCAAGCT TTCCGGTTTT TCTATGTTCT TAGCAAGATT CTCTTCTCCT GTGGCCTTTT TGTCACTCTT GCTAGTACCC AAGGTTGCTT 13050

AU ^{13,060} CCAAATCCAT ^{13,080} GGCTCCATCC ^{13,100} AATGGCTTTT ^{13,120} CATCTTCAAAA ^{13,140} TTTTGATCTT ^{13,160} TCCAGTCCTA ^{13,180} CATCTGATGA ^{13,200} ATTTTCAACT ^{13,220} GGCAGTGT TTT ^{13,240} 13140
 Ref CCAAATCCAT GGCTCCATCC AATGGCTTTT CATCTTCAAAA TTTTGATCTT TCCAGTCCTA CATCTGATGA ATTTTCAACT GGCAGTGT TTT 13140

AU ^{13,160} CCGCTTCGCA ^{13,180} TGCCTCGGTT ^{13,200} TGATTCTCTA ^{13,220} GTTCTCTATG ^{13,240} TTCTTCAACA ^{13,260} CTAGAGTCAT ^{13,280} CCGTGACCTC ^{13,300} TAGATTAGAT ^{13,320} TTCTCCGCCA ^{13,340} 13230
 Ref CCGCTTCGCA TGCCTCGGTT TGATTCTCTA GTTCTCTATG TTCTTCAACA CTAGAGTCAT CCGTGACCTC TAGATTAGAT TTCTCCGCCA 13230

AU ^{13,240} ACTGTTCCTC ^{13,260} GACTTTCATG ^{13,280} CTACTTCTAT ^{13,300} TTCTGTATC ^{13,320} TTCAGGCTTA ^{13,340} GCTTTAGGGA ^{13,360} CATCTACTAG ^{13,380} TGGATTATCT ^{13,400} TCAGTTAGAA ^{13,420} 13320
 Ref ACTGTTCCTC GACTTTCATG CTACTTCTAT TTCTGTATC TTCAGGCTTA GCTTTAGGGA CATCTACTAG TGGATTATCT TCAGTTAGAA 13320

AU ^{13,340} TTGATTTTTC ^{13,360} ATCCGTTATT ^{13,380} TGTGGCACAG ^{13,400} GAGTTTCTGA ^{13,420} GTGCTCACTG ^{13,440} GAACCTGCT ^{13,460} CTTTTTCTGA ^{13,480} AGTTTCAATCA ^{13,500} GTTCTTTTCC ^{13,520} 13410
 Ref TTGATTTTTC ATCCGTTATT TGTGGCACAG GAGTTTCTGA GTGCTCACTG GAACCTGCT CTTTTTCTGA AGTTTCAATCA GTTCTTTTCC 13410

AU ^{13,420} TTTCTTCAAT ^{13,440} GTGTGTGGCC ^{13,460} TCATATTCCT ^{13,480} TCACCTCGTC ^{13,500} TCCTAATATT ^{13,520} TCTTTCAAAG ^{13,540} GAATCTCCTT ^{13,560} GGTGGTCATC ^{13,580} TCCAATTGAT ^{13,600} 13500
 Ref TTTCTTCAAT GTGTGTGGCC TCATATTCCT TCACCTCGTC TCCTAATATT TCTTTCAAAG GAATCTCCTT GGTGGTCATC TCCAATTGAT 13500

AU CTTCACTTCC CGCATTTGGA ACTTTATCCT GCATTGCATC TTCTTCTTTC CCGATGTCCT TCTCGTGTGT TACGTGAGAG TCCCCTGATT 13590
 Ref CTTCACTTCC CGCATTTGGA ACTTTATCCT GCATTGCATC TTCTTCTTTC CCGATGTCCT TCTCGTGTGT TACGTGAGAG TCCCCTGATT 13590

AU TCACATCAAG TTCAGCACTG CATGCACCAC TCTGTTTCATG TTCAATTCTT GCTAAGCTGT TCTCTTCGAT GACAACAACA TTTATTTATTT 13680
 Ref TCACATCAAG TTCAGCACTG CATGCACCAC TCTGTTTCATG TTCAATTCTT GCTAAGCTGT TCTCTTCGAT GACAACAACA TTTATTTATTT 13680

AU CGTTCTTTCC CTTTTGACT TCAGCATGAG CTTTCAGTTTC CTTTTTTTCT TCTGTTTCTG CTACACATGA TGCCGAGGTT TCTTCTTCAA 13770
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AU TGTCCTTTTT GGACTCCTTG AGCTCAAGCG ACAAAC TACA GACATGGTCT TCTTTTCACTT CTATTGGTGT TGTTCCTTCT TTTGACGCCT 13860
 Ref TGTCCTTTTT GGACTCCTTG AGCTCAAGCG ACAAAC TACA GACATGGTCT TCTTTTCACTT CTATTGGTGT TGTTCCTTCT TTTGACGCCT 13860

AU GTATAATATC AAACAGACTA GAATCATTAT TTGGCTTTTC TGTTCCTCT ATGGGCGCTG TTTCTAGAT GATTTAGTTA CTAGCCTTTA 13950
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AU AAACAATTGG ATATATATAT TGATGGAAGA CTGAGTTCAG AAACATTGAA TAAGTGGAAA AGTTAAGATG TTAGTGAGTC ATACTATCTA 14040
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AU CTTACCTCTG TTATCGACAC CACTGCTGCA TTCTTCTCTT CTTTCAGTTT TTCTTTTCACT GTATCCGTC A TTAGTGATGT CTGATCTTTC 14130
 Ref CTTACCTCTG TTATCGACAC CACTGCTGCA TTCTTCTCTT CTTTCAGTTT TTCTTTTCACT GTATCCGTC A TTAGTGATGT CTGATCTTTC 14130

AU TTGTTATCTT CCTCATCTAG AATTTGTTTT TCTGTATTCT CAACGGTGCT GTCTGGTTC AGATTTTTCAG AGACCTGAAT AAAAAGTAAT 14220
 Ref TTGTTATCTT CCTCATCTAG AATTTGTTTT TCTGTATTCT CAACGGTGCT GTCTGGTTC AGATTTTTCAG AGACCTGAAT AAAAAGTAAT 14220

AU ATTGGGAGAT TGGTGAACCG TGGAGGTTTT CAGCTTCCAA CTTGATCTTA CGACTTACAA AGAAAAAAAA AAAC TTTAT TTAAGAACTA 14310
 Ref ATTGGGAGAT TGGTGAACCG TGGAGGTTTT CAGCTTCCAA CTTGATCTTA CGACTTACAA AGAAAAAAAA AAAC TTTAT TTAAGAACTA 14310

AU GGCTCTTCAA AATTTTAGAA GTAACATGAA TTTTACCTCT ACTTCAGGTG TGGCTTCATT TTCATTTTCT TCTGTAGCTT TCAGTGAGTC 14400
 Ref GGCTCTTCAA AATTTTAGAA GTAACATGAA TTTTACCTCT ACTTCAGGTG TGGCTTCATT TTCATTTTCT TCTGTAGCTT TCAGTGAGTC 14400

AU ATTGATGATA GCACATCTT CTTTACAGT CAATGTTGGG CTTTACAAA CCTGCATGAA GAATAAGGTG TACTTTAAT AATAATCTCT 14490
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AU GAAAGAGATT AAAATTGTTT TAAAAAAGG TTTTAACTG AGTTAGTATT CATTATGCC CTAATTTAG ACCTCTTTGG TTTCTTCTG 14580
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AU ATTTAAGTTA TCTTCTACTT TCTCCATGGC ATCCTTTGGT AGTGCATTC TGTTCCTGA CTCCGCACT ATACTCTCTT CTTTGTGTTT 14670
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AU TAAAGCTTCA TTTTCCACTG GTTCAACATC GGAGAACTTG TACTGCTTTT CGTGCTCATT ATCCATTAGT TGTCCACCGA ATGAGACAGT 14760
 Ref TAAAGCTTCA TTTTCCACTG GTTCAACATC GGAGAACTTG TACTGCTTTT CGTGCTCATT ATCCATTAGT TGTCCACCGA ATGAGACAGT 14760

AU AACATGTAAT TCATCAGCAT TCTCGTTTGG AATCTCAACT TCCACGGTTT CATTACTCTG ACTTGCTTTA GTTTGTAGGT GGTCAAGTTGG 14850
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AU TGAGTCTTCC CTCGTTTGT CCTCGGATCT CTTGTCATGG TCTTTGTCG ATGTTGCTTC TTCAATGCTT GTGTTTGTGTT CTGCAGTTTC 14940
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AU GGCACAGATG GCAGTATTGA CATCCTCAGA AACTGCATCT AAAGGACACA CATGGTTCCT CTTTTTGGGT TCATTCTTTT GCTTGAAGCT 15030
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AU CTCTGGATT TCGTCTTGT GGGAAATTTT CTCTTGATTC TTCTGTACGA CACCAATATT TTCTACTTCA CTAGTTTTTA CTTCAGGCAT 15120
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AU CACCGCAACG TTTTCTGAGT GCTTGTGTTG ATCTTGATCT TCTTCTGAAG TGTCTCGGC TATTTTCTA TCTTCAATGA GAGTCGTATC 15300
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AU ATATTTTTCC AAAGGCATAG AAGAAATGTT CTTAACATCA TCTCCTAATA CCTCTTTCAA CAGAACTCC TTGGAGGTCA TTTCCATTTG 15390
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AU ATTTTCACTT CCTGTGTTTA GAAATTTATC CTGCACTCCA TCTTCTTCT GGGAAATCTC GATGTCCTTC TCACTTGTCA CATATGATTC 15480
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AU TACTGATTTT ACCTCAATTT CTGCACTTTC TAAACCAATC CTTTCTTCT CACCATCAAC AACATTATTT ATTTTCAATCA TTTCTCTTTC 15570
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AU GTTTACCCTT GTTTTTCTT CAGTATCCAT TTTGGACTCC TCGAGCTCAA ATGAAGAGCT GCAGACAAGT TCTTCTTTGA ATTTGATTAC 15750
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AU TTCTTCTTTG GTGTCGTTTT TGGACTCCTT GAGCTCAAAC TCCGAAC TAC GAGCCTGGTC TTCTTTCACT TCTATTGGTG TTATTTCTTC 18072
 Ref TTCTTCTTTG GTGTCGTTTT TGGACTCCTT GAGCTCAAAC TCCGAAC TAC GAGCCTGGTC TTCTTTCACT TCTATTGGTG TTATTTCTTC 18090

AU TTTTGA CTCC TGTACAATAT CATACAGACT AGAATTGTTA TTTTGC TTTG CTGTTTCCTC TATGGACACT GTTTCCTCAA TGATTGTGTG 18162
 Ref TTTTGA CTCC TGTACAATAT CATACAGACT AGAATTGTTA TTTTGC TTTG CTGTTTCCTC TATGGACACT GTTTCCTCAA TGATTGTGTG 18180

AU GCTCGTCTGT AAAACATTGA ATATATAAGT TGATGGAAGA TTGAATTCAG AGCCATTGAA TAAGTGAAA AGTTAAGATG TTAGTGATTG 18252
 Ref GCTCGTCTGT AAAACATTGA ATATATAAGT TGATGGAAGA TTGAATTCAG AGCCATTGAA TAAGTGAAA AGTTAAGATG TTAGTGATTG 18270

AU ATACAATCTA CTTACCAC TG TTATCGACAC CACTGCTGTA GTATTCTCTT CCTTAGCTTT TTCTTTCTTC GTCTCAGTCA TTAGTGTGTG 18342
 Ref ATACAATCTA CTTACCAC TG TTATCGACAC CACTGCTGTA GTATTCTCTT CCTTAGCTTT TTCTTTCTTC GTCTCAGTCA TTAGTGTGTG 18360

AU GTGATCCTTC TTGTTGCTTT CCTCCTCTAG AAATTGTTTT TCAGCATTG CTACTGTGTT GTCTGGTTCC AGCTTTTCAC AGACCTGAAC 18432
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AU AAAAATAGTA TCAAAGATT GGTGAAACAT GGAGGTTTT AGCTTTCAAC TTGATCTTCA GACTTTCAAA ACAAACAAA AAAATTTCTT 18522
 Ref AAAAATAGTA TCAAAGATT GGTGAAACAT GGAGGTTTT AGCTTTCAAC TTGATCTTCA GACTTTCAAA ACAAACAAA AAAATTTCTT 18540

AU AAGAACTAGT CTCTGCAAAA TTTTGAAGT AACATGACTG TCACCTCTAC TTCAGGTGAT GCTTCATTTT CATTTTCTTC TGTAGCTTTG 18612
 Ref AAGAACTAGT CTCTGCAAAA TTTTGAAGT AACATGACTG TCACCTCTAC TTCAGGTGAT GCTTCATTTT CATTTTCTTC TGTAGCTTTG 18630

AU AGTGAGTCAT CAATGATAGT ACATTCTTCC TTCACAATCG ACATTGGACC TTCATGAACC TGCATGAAGA ATAAGGTGTA CTTTTATTAA 18702
 Ref AGTGAGTCAT CAATGATAGT ACATTCTTCC TTCACAATCG ACATTGGACC TTCATGAACC TGCATGAAGA ATAAGGTGTA CTTTTATTAA 18720

AU TAATTACAAAT GATAGTATCT GAAAGAGATT AAAATTGTTT TAAAAA AAAA AGTTTTAAAC TGAGTTAGTA TTCATTATG CCCTAAATTT 18792
 Ref TAATTACAAAT GATAGTATCT GAAAGAGATT AAAATTGTTT TAAAAA AAAA AGTTTTAAAC TGAGTTAGTA TTCATTATG CCCTAAATTT 18810

AU ACGCCTCTTT GGTTTCTTCC TGTTTTAAGT TCTCCATGGC ATCCTTTGGT TCATGTTTCT GTGCACTGCA GTTCTCCGAC TGCTGCAGTA 18882
 Ref ACGCCTCTTT GGTTTCTTCC TGTTTTAAGT TCTCCATGGC ATCCTTTGGT TCATGTTTCT GTGCACTGCA GTTCTCCGAC TGCTGCAGTA 18900

AU TACTCTCTTC TTTGTGTTCT AAAGCTTTCAT TTTCCACTGG TCGAACACTG AGGAGCTCAT ACTGCTTTTC GTGCTCATTG TCCACTAGTT 18972
 Ref TACTCTCTTC TTTGTGTTCT AAAGCTTTCAT TTTCCACTGG TCGAACACTG AGGAGCTCAT ACTGCTTTTC GTGCTCATTG TCCACTAGTT 18990

AU GTCCAACATA TGAATTCATA ACATGTAAT CATCAGCCTT TTCGTTTGAA ATCTCAACTT CCACGGTTTC ATTAATGTCA CTTGCTTTAG 19062
 Ref GTCCAACATA TGAATTCATA ACATGTAAT CATCAGCCTT TTCGTTTGAA ATCTCAACTT CCACGGTTTC ATTAATGTCA CTTGCTTTAG 19080

AU TTTGTAGGTG GTCAGTTGGT GAGTCTTCGC TTGTTTCTCC CTCAGATCTC TCGTCATGGT CTTTGACTGA TGTGCTTCT TCGATGCTTG 19152
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AU CATTCTTTG CTTGAAGCTC TCCTCCTGGA TTTCTGCTT GTGGAAATTT TCCTCCTGAT TCTTCTGAT GAAACTGATA TTTTCTACTT 19332
 Ref CATTCTTTG CTTGAAGCTC TCCTCCTGGA TTTCTGCTT GTGGAAATTT TCCTCCTGAT TCTTCTGAT GAAACTGATA TTTTCTACTT 19350

AU CATTAGTTTT TACTTCAGGC ATTGGAACAA TGGATTGCTC GTCCTTTCTC ATTTCTGCTG ATTCCTTTGT TATAGCCAGC TCCTCATCTG 19422
 Ref CATTAGTTTT TACTTCAGGC ATTGGAACAA TGGATTGCTC GTCCTTTCTC ATTTCTGCTG ATTCCTTTGT TATAGCCAGC TCCTCATCTG 19440

AU TCTCCTGTAC AACTTTTGC TCCACCATAT TTTCAAGGTG TTTGTATAGA GCTTGATCTT CTTCTGAAGT TTCATCAACT ATTTTCTTCT 19512
 Ref TCTCCTGTAC AACTTTTGC TCCACCATAT TTTCAAGGTG TTTGTATAGA GCTTGATCTT CTTCTGAAGT TTCATCAACT ATTTTCTTCT 19530

AU CTTCAATGAG AGCTGCATCA TTTTCTTCTG AAGGCATAGT CGAACCTTCC TTAACATCAT CTCCTGATAC CTCCTTCAAT GGAATCTCCT 19602
 Ref CTTCAATGAG AGCTGCATCA TTTTCTTCTG AAGGCATAGT CGAACCTTCC TTAACATCAT CTCCTGATAC CTCCTTCAAT GGAATCTCCT 19620

AU CAATGGTCAT TTCATTGGA TTTTCACTTC CTGCATTGCG CATTTTATCC TGCATTGTAT CTTCTTCTCG GGGAGTCTCG ATGTCCTCAC 19692
 Ref CAATGGTCAT TTCATTGGA TTTTCACTTC CTGCATTGCG CATTTTATCC TGCATTGTAT CTTCTTCTCG GGGAGTCTCG ATGTCCTCAC 19710

AU TTGTCACACA CAATTTCTCG GATTTTACGT TAATGTCTGC ACTTTTTAAA CCAATCTCAT CATCTTCACC ATCAACAATA TTAGTTATTT 19782
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AU CATTCTTTTC CTCTTCTGGT TCAGCTTTAG CTTCTTTTAA GTTTGTTTCT TCCGTTTCTG CTGCTTGTGA TGTGCAGTCC AACTCAGCAT 19872
 Ref CATTCTTTTC CTCTTCTGGT TCAGCTTTAG CTTCTTTTAA GTTTGTTTCT TCCGTTTCTG CTGCTTGTGA TGTGCAGTCC AACTCAGCAT 19890

AU TACTGATATA TTCTTTTACT GTGGCGGCTT CTTCACTATC CATCTTGGAC TGCTCGAGCT CAGATGAAGA GCTACAGACA AGTTCTTCTT 19962
 Ref TACTGATATA TTCTTTTACT GTGGCGGCTT CTTCACTATC CATCTTGGAC TGCTCGAGCT CAGATGAAGA GCTACAGACA AGTTCTTCTT 19980

AU TGACTTCAAT TGGAGTTATC TCTTCTTTTG CTGTACCTGA AGCTGCAGTT TCTGATCCTT TACACATCTG TGTGGTAAAC AAAATTTCAA 20052
 Ref TGACTTCAAT TGGAGTTATC TCTTCTTTTG CTGTACCTGA AGCTGCAGTT TCTGATCCTT TACACATCTG TGTGGTAAAC AAAATTTCAA 20070

AU CATAAACATG AATAATTTCT GGACGATCAC GGACTATATT AAAAAACAAA TTCCAACAAG TCATGAGCCA TCTTTGTGCT AAGTTTCTGA 20142
 Ref CATAAACATG AATAATTTCT GGACGATCAC GGACTATATT AAAAAACAAA TTCCAACAAG TCATGAGCCA TCTTTGTGCT AAGTTTCTGA 20160

AU ACGGAATTTT TTATTTCTTG AAATCCAAGT TATCTTGAGG TTTGCTAGCC GGCACCAAGT GCCTCATGAC ACCTCCCTTA TTAATGAAC 20232
 Ref ACGGAATTTT TTATTTCTTG AAATCCAAGT TATCTTGAGG TTTGCTAGCC GGCACCAAGT GCCTCATGAC ACCTCCCTTA TTAATGAAC 20250

AU CTGTTTTTGG CCTTTTCTGA TTTTGATCAG ATAACCTTTT GATGTGGCAT AAGACTTCTG GTTGTGCTAT TTTGCATTGT ACGCATGTGT 20322
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AU TTGCCAATAA TGGTATTTTG TTCCATGTCT ATTAATGGAA GTAGTTCGGA ATTATATTAT AAGTTTGAAG TTGAAAGATT AGAGAGTTGT 20412
 Ref TTGCCAATAA TGGTATTTTG TTCCATGTCT ATTAATGGAA GTAGTTCGGA ATTATATTAT AAGTTTGAAG TTGAAAGATT AGAGAGTTGT 20430

AU ATAATTTTCT TACCTCTTCA ATTGGAATCT GATTATTGTA GGTGTCTTCC TTCTCTAGAA TTTGTTTTCC ATCATTCTCA GCTATGTTGT 20502
 Ref ATAATTTTCT TACCTCTTCA ATTGGAATCT GATTATTGTA GGTGTCTTCC TTCTCTAGAA TTTGTTTTCC ATCATTCTCA GCTATGTTGT 20520

AU CCGGTTCTAG CTTTTCAGTG ACCTGAATGG AAATATATTG GAAGATTGGT TAAGCATGGA GGTTTCTGCT TTTAGCAAAAT AGATTGAAAT 20592
 Ref CCGGTTCTAG CTTTTCAGTG ACCTGAATGG AAATATATTG GAAGATTGGT TAAGCATGGA GGTTTCTGCT TTTAGCAAAAT AGATTGAAAT 20610

AU TGGGTTAGTA TTCATGATAG GAACTGTTTT GATTACCTCA GCTTCATCCT TGTCACAGT TTCCATATTT AGGTTCTGCT TTTGCAC TTC 20682
 Ref TGGGTTAGTA TTCATGATAG GAACTGTTTT GATTACCTCA GCTTCATCCT TGTCACAGT TTCCATATTT AGGTTCTGCT TTTGCAC TTC 20700

AU ATCATTGTCA TTAGTTCGGA CATCAGGATC CAATTCGAA GATATCTCTT CAAGCTGCAC ATTCTCTGCT TCTGTCTCTT GAGCATCACT 20772
 Ref ATCATTGTCA TTAGTTCGGA CATCAGGATC CAATTCGAA GATATCTCTT CAAGCTGCAC ATTCTCTGCT TCTGTCTCTT GAGCATCACT 20790

AU CTTAATATTT CCTACAGTCG TCTCGGCTGA GCTGATATTT GATGCATTTA CAATCTTGTG GGTGTGTTTC AAGCTCGTCT CTGCTGTTAC 20862
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AU TTCTGTTACA GCTTCAATAC AACCTCCTC ATGACACGGT TTCGAGTCAT CAATAATCTC CTCGGTTTTTCTTCTGCTT CTGATCTTT 20952
 Ref TTCTGTTACA GCTTCAATAC AACCTCCTC ATGACACGGT TTCGAGTCAT CAATAATCTC CTCGGTTTTTCTTCTGCTT CTGATCTTT 20970

AU GCTACACAGA CTTACAGGAT CTCCGGACTC TTCAGCCTGT CCCATTTCTT CTAATTTCTT GGTTGATTTGG GATGCTTCTC CATCATTTGGT 21042
 Ref GCTACACAGA CTTACAGGAT CTCCGGACTC TTCAGCCTGT CCCATTTCTT CTAATTTCTT GGTTGATTTGG GATGCTTCTC CATCATTTGGT 21060

AU TGAATGTTCT TTGACCTCCA AGTTTTCTGC AACTATCTGC TCTTTGGAAT CGGCTTCCAT GGAACATTCA GTTGAGACTG AACTATAGTC 21132
 Ref TGAATGTTCT TTGACCTCCA AGTTTTCTGC AACTATCTGC TCTTTGGAAT CGGCTTCCAT GGAACATTCA GTTGAGACTG AACTATAGTC 21150

AU TGCCACCCTGC GCATAACATA GTTACAATGT TTAACAATAT AACATCCAAA ATCTGTTTTG AGTATCTATT CATTTTGAAA ATGAAAAGTG 21222
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AU TAATTATTCA GTAACGCTTG ATACCCTTTT TTATATCTTT AATTTGATTT TGTATTTTTA GAAGAAAAAG AGTAAAAAGA GTAGAATATC 21312
 Ref TAATTATTCA GTAACGCTTG ATACCCTTTT TTATATCTTT AATTTGATTT TGTATTTTTA GAAGAAAAAG AGTAAAAAGA GTAGAATATC 21330

AU TATTCACTAA CCTTTGCATT ATAAGTCATG GTAACCATCT CAGGAATCTG GTTTTCTTTT TCTTTTTTCA CATCTTCTTT CAAGCTTTCA 21402
 Ref TATTCACTAA CCTTTGCATT ATAAGTCATG GTAACCATCT CAGGAATCTG GTTTTCTTTT TCTTTTTTCA CATCTTCTTT CAAGCTTTCA 21420

AU GTTTTTCTA TGTTCTTAGC TGAATTTCTT TCTTACAGTAG CCTTTTCGCC ATCCTTGCAG GTACCCAAGG TTGCTTCCAA ATCCATGGTT 21492
 Ref GTTTTTCTA TGTTCTTAGC TGAATTTCTT TCTTACAGTAG CCTTTTCGCC ATCCTTGCAG GTACCCAAGG TTGCTTCCAA ATCCATGGTT 21510

AU TCAATCCAGCG GCTTTCCATC TTCAAATTTG GACCTTTCTA GTCCTACATC TGATGAATTT TCTGCTGGCA GTGTTTTTTC TTTGCAAGCA 21582
 Ref TCAATCCAGCG GCTTTCCATC TTCAAATTTG GACCTTTCTA GTCCTACATC TGATGAATTT TCTGCTGGCA GTGTTTTTTC TTTGCAAGCA 21600

AU TCGGTTTAT TCTCTAGTTC TCTATGTTCT TCACCAAGTAG AGACATTGGT GACATCTAGA TTAGATTCCCT CAGCCAAGTG TTCCTTGACT 21672
 Ref TCGGTTTAT TCTCTAGTTC TCTATGTTCT TCACCAAGTAG AGACATTGGT GACATCTAGA TTAGATTCCCT CAGCCAAGTG TTCCTTGACT 21690

AU TCAATGTTAC TCTCGTTTCC TGTATCTTCA GGCTCAGCTT TAGGGACATC TGCTAGCGGA TTATCTTCAT TTAGAATTA TTTCTCATCC 21762
 Ref TCAATGTTAC TCTCGTTTCC TGTATCTTCA GGCTCAGCTT TAGGGACATC TGCTAGCGGA TTATCTTCAT TTAGAATTA TTTCTCATCC 21780

AU GTTACTTGTG GCACTGGAGT TTCTGAGTGC TCACACAAAT CATGATCTTT TTCTGAAGTT TCATCAGTTA TTTTCTTTTC TTCAATGAGT 21852
 Ref GTTACTTGTG GCACTGGAGT TTCTGAGTGC TCACACAAAT CATGATCTTT TTCTGAAGTT TCATCAGTTA TTTTCTTTTC TTCAATGAGT 21870

AU GTGGCCCTCAT ATTCTTTTAC TTCATCTCCT AGTATTTCTT TCAAGGGAAT CTCCTTGGTG GTCATCTCCA ATTGATCTTC ATTTTCTTCA 21942
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AU TTGCGAAGTT TATCCTGCAT TGCATCTTCT TCTTTGGGAA TCTCCATGTC CTTCTCATGT GTTACGTATG AGTCCCTGA TTTTACATCA 22032
 Ref TTGCGAAGTT TATCCTGCAT TGCATCTTCT TCTTTGGGAA TCTCCATGTC CTTCTCATGT GTTACGTATG AGTCCCTGA TTTTACATCA 22050

AU ATTTTCTGAC TGCTTACACC AATCTGTTCA TGTTCTGTTT TTGCTGAGCT GTTCTCTTCG ATGACAACAA CATTACATTT TTGGTCTTTT 22122
 Ref ATTTTCTGAC TGCTTACACC AATCTGTTCA TGTTCTGTTT TTGCTGAGCT GTTCTCTTCG ATGACAACAA CATTACATTT TTGGTCTTTT 22140

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AU TTGGACTCCC CAAGCTCAAC TGAGGAAC TAAGGACATGAT CTTCTTTTAC TTCTATTGGT GCTATTTCTT CTTTTGACTC CTGTATAATA 22302
 Ref TTGGACTCCC CAAGCTCAAC TGAGGAAC TAAGGACATGAT CTTCTTTTAC TTCTATTGGT GCTATTTCTT CTTTTGACTC CTGTATAATA 22320

AU TCAAACAGAC TAGAATTATT ATTTGGTTTT TCTGTTTCTT CTATGGACAC CGATTCTCG ATGATTGAGT TGCTAGTCTT TAAAAAATT 22392
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AU GAATATATAT GTTGATGGAA GATTGAGTTC AGAACAGTTG AGCTATTAGT GAGTCATACA ATCTACTTAC CTCTGTTATC GAAACCCTG 22482
 Ref GAATATATAT GTTGATGGAA GATTGAGTTC AGAACAGTTG AGCTATTAGT GAGTCATACA ATCTACTTAC CTCTGTTATC GAAACCCTG 22500

AU CTGCAGTATT CTCTTCTTTA GCTTTTTTCAT CCATCGTCTC GGCCATTAA GTTGCTGAT CCTTCTTGT ATCTTCTCC TCTAGAATTT 22572
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AU GTTTTTCGGA ATTCTCAACT GTTGTGTCTG GTTCCAGCTT TTCACAGACC TGAACAAAA ATAATATCAA AAGTTCGGTG AAACATGGAG 22662
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