```
                              ........10........20........30........40........50
[A]IX-0944.atp6               ATGAACAAATTCGATTT-------------CATAACACAA--CAGCACA
[A]IX-0946.atp6               ATGAACAAATTCGATTT-------------CATAACACAA--CAGCACA
[A]IX-0957.atp6               ATGAACAAATTCGATTT-------------CATAACACAA--CAGCACA
[A]IX-0969.atp6               ATGAACAAATTCGATTT-------------CATAACACAA--CAGCACA
[A]IX-0976.atp6               ATGAACAAATTCGATTT-------------CATAACACAA--CAGCACA
[AB]SCAUP.atp6-1              ATGAGA--TTTCTTTCT-------------ACGGATATGAA--GGATAGA
[AB]SCAUP.atp6-2              ATGAGA--TTTCTTTCT-------------ACGGATATGAA--GGATAGA
[AB]Hoh501.atp6-1             ATGAGA--TTTCTTTCT-------------ACGGATATGAA--GGATAGA
[AB]Hoh501.atp6-2             ATGAGA--TTTCTTTCT-------------ACGGATATGAA--GGATAGA
[AB]DM4.atp6-1                ATGAGA--TTTCTTTCT-------------ACGGATATGAA--GGATAGA
[AB]DM4.atp6-2                ATGAGA--TTTCTTTCT-------------ACGGATATGAA--GGATAGA
[AB]Langdon.atp6-1            ATGAGA--TTTCTTTCT-------------ACGGATATGAA--GGATAGA
[AB]Langdon.atp6-2            ATGAGA--TTTCTTTCT-------------ACGGATATGAA--GGATAGA
[AB]81086A.atp6-1             ATGAGA--TTTCTTTCT-------------ACGGATATGAA--GGATAGA
[AB]81086A.atp6-2             ATGAGA--TTTCTTTCT-------------ACGGATATGAA--GGATAGA
[AB]KJ078649.atp6-1           ATGAGA--TTTCTTTCT-------------ACGGATATGAA--GGATAGA
[AB]KJ078649.atp6-2           ATGAGA--TTTCTTTCT-------------ACGGATATGAA--GGATAGA
[ABD]Lumai1.atp6-1            ATGAGA--TTTCTTTCT-------------ACGGATATGAA--GGATAGA
[ABD]Lumai1.atp6-2            ATGAGA--TTTCTTTCT-------------ACGGATATGAA--GGATAGA
[ABD]Kenong9204.atp6-1        ATGAGA--TTTCTTTCT-------------ACGGATATGAA--GGATAGA
[ABD]Kenong9204.atp6-2        ATGAGA--TTTCTTTCT-------------ACGGATATGAA--GGATAGA
[ABD]AK58.atp6-1              ATGAGA--TTTCTTTCT-------------ACGGATATGAA--GGATAGA
[ABD]AK58.atp6-2              ATGAGA--TTTCTTTCT-------------ACGGATATGAA--GGATAGA
[ABD]AP008982.atp6-1          ATGAGA--TTTCTTTCT-------------ACGGATATGAA--GGATAGA
[ABD]AP008982.atp6-2          ATGAGA--TTTCTTTCT-------------ACGGATATGAA--GGATAGA
[ABD]NC_036024.atp6-1         ATGAGA--TTTCTTTCT-------------ACGGATATGAA--GGATAGA
[ABD]NC_036024.atp6-2         ATGAGA--TTTCTTTCT-------------ACGGATATGAA--GGATAGA
[ABD]MH051716.atp6-1          ATGAGA--TTTCTTTCT-------------ACGGATATGAA--GGATAGA
[ABD]MH051716.atp6-2          ATGAGA--TTTCTTTCT-------------ACGGATATGAA--GGATAGA
[S]AP013107.atp6              ATGAACAAATTCGATTT-------------CATACACAA--CAGTACA
[AG]AP013106.atp6             ATGAGA--TTTCTTTCT-------------ACGGATATGAA--GGATAGA
[D]Clae23.atp6                ATGAACAAATTCGATTT-------------AATACACAA--CAGTACA
[D]AL8/78.atp6                ATGAACAAATTCGATTT-------------AATACACAA--CAGTACA
[D]SQ523.atp6                 ATGAACAAATTCGATTT-------------AATACACAA--CAGTACA
[D]Y199.atp6                  ATGAACAAATTCGATTT-------------AATACACAA--CAGTACA
[D]Kaifeng1.atp6              ATGAACAAATTCGATTT-------------AATAACACAA--CAGTACA
[CD]Jinan0529.atp6            ATGAACAAATTCGATTT-------------AATAACACAA--CAGTACA
KJ078648.atp6-p               ATGAACAAATTCGATTT-------------AATAACACAA--CAGTACA
MZ202552.atp6                 ATGTTCACGTTACATGCTAAATCAGGCTTTCCTTGGAAAAACCAAGGACA
MN127982.atp6                 ATGATAGAAT----------------------------------------
OK120846.atp6                 ATGAGA--TTTCTTTCT-------------ACGGATATGAA--GGATAGA
consensus                     ATGaga  tTtctttct             acggatatgaa   ggataga
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                          .........60.........70.........80.........90.......100
[A]IX-0944.atp6           AAGCGTCTCTCACGTCC-ATTCTTTT-----------------ATTTTT
[A]IX-0946.atp6           AAGCGTCTCTCACGTCC-ATTCTTTT-----------------ATTTTT
[A]IX-0957.atp6           AAGCGTCTCTCACGTCC-ATTCTTTT-----------------ATTTTT
[A]IX-0969.atp6           AAGCGTCTCTCACGTCC-ATTCTTTT-----------------ATTTTT
[A]IX-0976.atp6           AAGCGTCTCTCACGTCC-ATTCTTTT-----------------ATTTTT
[AB]SCAUP.atp6-1          AATATGCTATTT--------------------------------GC
[AB]SCAUP.atp6-2          AATATGCTATTT--------------------------------GC
[AB]Hoh501.atp6-1         AATATGCTATTT--------------------------------GC
[AB]Hoh501.atp6-2         AATATGCTATTT--------------------------------GC
[AB]DM4.atp6-1            AATATGCTATTT--------------------------------GC
[AB]DM4.atp6-2            AATATGCTATTT--------------------------------GC
[AB]Langdon.atp6-1        AATATGCTATTT--------------------------------GC
[AB]Langdon.atp6-2        AATATGCTATTT--------------------------------GC
[AB]81086A.atp6-1         AATATGCTATTT--------------------------------GC
[AB]81086A.atp6-2         AATATGCTATTT--------------------------------GC
[AB]KJ078649.atp6-1       AATATGCTATTT--------------------------------GC
[AB]KJ078649.atp6-2       AATATGCTATTT--------------------------------GC
[ABD]Lumai1.atp6-1        AATATGCTATTT--------------------------------GC
[ABD]Lumai1.atp6-2        AATATGCTATTT--------------------------------GC
[ABD]Kenong9204.atp6-1    AATATGCTATTT--------------------------------GC
[ABD]Kenong9204.atp6-2    AATATGCTATTT--------------------------------GC
[ABD]AK58.atp6-1          AATATGCTATTT--------------------------------GC
[ABD]AK58.atp6-2          AATATGCTATTT--------------------------------GC
[ABD]AP008982.atp6-1      AATATGCTATTT--------------------------------GC
[ABD]AP008982.atp6-2      AATATGCTATTT--------------------------------GC
[ABD]NC_036024.atp6-1     AATATGCTATTT--------------------------------GC
[ABD]NC_036024.atp6-2     AATATGCTATTT--------------------------------GC
[ABD]MH051716.atp6-1      AATATGCTATTT--------------------------------GC
[ABD]MH051716.atp6-2      AATATGCTATTT--------------------------------GC
[S]AP013107.atp6          AAGCGTCTCTAACGTCC-ATTCTTTT-----------------ATTTTT
[AG]AP013106.atp6         AATATGCTATTT--------------------------------GC
[D]Clae23.atp6            AAGCGTCTCTCACGTCC-ATTCTTTT-----------------ATTTTT
[D]AL8/78.atp6            AAGCGTCTCTCACGTCC-ATTCTTTT-----------------ATTTTT
[D]SQ523.atp6             AAGCGTCTCTCACGTCC-ATTCTTTT-----------------ATTTTT
[D]Y199.atp6              AAGCGTCTCTCACGTCC-ATTCTTTT-----------------ATTTTT
[D]Kaifeng1.atp6          AAGCGTCTCTCACGTCC-ATTCTTTT-----------------ATTTTT
[CD]Jinan0529.atp6        AAGCGTCTCTAACGTCC-ATTCTTTT-----------------ATTTTT
KJ078648.atp6-p           AAGCGTCTCTCACGTCCTATTCTTTT-----------------ATTTTT
MZ202552.atp6             ACCCCTATCTCAGTCTCCTTTCTCTTTTCGGGAGCAGAGCTGGAATATAT
MN127982.atp6             --------------------------------------------------
OK120846.atp6             AATATGCTATTT--------------------------------GC
consensus                 aatatgctattt                                gc
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                      ........110.......120.......130.......140.......150
[A]IX-0944.atp6       -AATTTTTCCCAACCTGCGTTGGATCCGCAGCTTGTGAACCGGCTTTTGG
[A]IX-0946.atp6       -AATTTTTCCCAACCTGCGTTGGATCCGCAGCTTGTGAACCGGCTTTTGG
[A]IX-0957.atp6       -AATTTTTCCCAACCTGCGTTGGATCCGCAGCTTGTGAACCGGCTTTTGG
[A]IX-0969.atp6       -AATTTTTCCCAACCTGCGTTGGATCCGCAGCTTGTGAACCGGCTTTTGG
[A]IX-0976.atp6       -AATTTTTCCCAACCTGCGTTGGATCCGCAGCTTGTGAACCGGCTTTTGG
[AB]SCAUP.atp6-1      -TGCTATTACAAC-------------------------------------
[AB]SCAUP.atp6-2      -TGCTATTACAAC-------------------------------------
[AB]Hoh501.atp6-1     -TGCTATTACAAC-------------------------------------
[AB]Hoh501.atp6-2     -TGCTATTACAAC-------------------------------------
[AB]DM4.atp6-1        -TGCTATTACAAC-------------------------------------
[AB]DM4.atp6-2        -TGCTATTACAAC-------------------------------------
[AB]Langdon.atp6-1    -TGCTATTACAAC-------------------------------------
[AB]Langdon.atp6-2    -TGCTATTACAAC-------------------------------------
[AB]81086A.atp6-1     -TGCTATTACAAC-------------------------------------
[AB]81086A.atp6-2     -TGCTATTACAAC-------------------------------------
[AB]KJ078649.atp6-1   -TGCTATTACAAC-------------------------------------
[AB]KJ078649.atp6-2   -TGCTATTACAAC-------------------------------------
[ABD]Lumai1.atp6-1    -TGCTATTACAAC-------------------------------------
[ABD]Lumai1.atp6-2    -TGCTATTACAAC-------------------------------------
[ABD]Kenong9204.atp6-1 -TGCTATTACAAC------------------------------------
[ABD]Kenong9204.atp6-2 -TGCTATTACAAC------------------------------------
[ABD]AK58.atp6-1      -TGCTATTACAAC-------------------------------------
[ABD]AK58.atp6-2      -TGCTATTACAAC-------------------------------------
[ABD]AP008982.atp6-1  -TGCTATTACAAC-------------------------------------
[ABD]AP008982.atp6-2  -TGCTATTACAAC-------------------------------------
[ABD]NC_036024.atp6-1 -TGCTATTACAAC-------------------------------------
[ABD]NC_036024.atp6-2 -TGCTATTACAAC-------------------------------------
[ABD]MH051716.atp6-1  -TGCTATTACAAC-------------------------------------
[ABD]MH051716.atp6-2  -TGCTATTACAAC-------------------------------------
[S]AP013107.atp6      -GATTTTTCCAACCTGCGTTGGATCCGCAGCTTGTGAACCGGCTTTTGG
[AG]AP013106.atp6     -TGCTATTACAAC-------------------------------------
[D]Clae23.atp6        -GATTTTTCCCAACCTGCGTTGGATCCGCAGCTTGTGAACCGGCTTTTGG
[D]AL8/78.atp6        -GATTTTTCCCAACCTGCGTTGGATCCGCAGCTTGTGAACCGGCTTTTGG
[D]SQ523.atp6         -GATTTTTCCCAACCTGCGTTGGATCCGCAGCTTGTGAACCGGCTTTTGG
[D]Y199.atp6          -GATTTTTCCCAACCTGCGTTGGATCCGCAGCTTGTGAACCGGCTTTTGG
[D]Kaifeng1.atp6      -GATTTTTCCCAACCTGCGTTGGATCCGCAGCTTGTGAACCGGCTTTTGG
[CD]Jinan0529.atp6    -AATTTTTCCCAACCTGCGTTGGATCCGCAGCTTGTGAACCGGCTTTTGG
KJ078648.atp6-p       -GATTTTTCCCAACCTGCGTTGGATCCGCAGCTTGTGAACCGGCTTTTGG
MZ202552.atp6         TTGAATTTCCAATGCAA-----AATCCGCAGAGTCCCCGTCAGATTTTTA
MN127982.atp6         --------------------------------------------------
OK120846.atp6         -TGCTATTACAAC-------------------------------------
consensus              tgctattacaac
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                              ........160.......170.......180.......190.......200
[A]IX-0944.atp6               AAGGGGTGGGAGGCACCTACCTTGAAAGACATGAACCTCCTTTTAAAAATG
[A]IX-0946.atp6               AAGGGGTGGGAGGCACCTACCTTGAAAGACATGAACCTCCTTTTAAAAATG
[A]IX-0957.atp6               AAGGGGTGGGAGGCACCTACCTTGAAAGACATGAACCTCCTTTTAAAAATG
[A]IX-0969.atp6               AAGGGGTGGGAGGCACCTACCTTGAAAGACATGAACCTCCTTTTAAAAATG
[A]IX-0976.atp6               AAGGGGTGGGAGGCACCTACCTTGAAAGACATGAACCTCCTTTTAAAAATG
[AB]SCAUP.atp6-1              --------GAATCAACCAATTCGTAGTAAG-TGTTCCCGTCTTCCCGATC
[AB]SCAUP.atp6-2              --------GAATCAACCAATTCGTAGTAAG-TGTTCCCGTCTTCCCGATC
[AB]Hoh501.atp6-1            --------GAATCAACCAATTCGTAGTAAG-TGTTCCCGTCTTCCCGATC
[AB]Hoh501.atp6-2            --------GAATCAACCAATTCGTAGTAAG-TGTTCCCGTCTTCCCGATC
[AB]DM4.atp6-1               --------GAATCAACCAATTCGTAGTAAG-TGTTCCCGTCTTCCCGATC
[AB]DM4.atp6-2               --------GAATCAACCAATTCGTAGTAAG-TGTTCCCGTCTTCCCGATC
[AB]Langdon.atp6-1          --------GAATCAACCAATTCGTAGTAAG-TGTTCCCGTCTTCCCGATC
[AB]Langdon.atp6-2          --------GAATCAACCAATTCGTAGTAAG-TGTTCCCGTCTTCCCGATC
[AB]81086A.atp6-1           --------GAATCAACCAATTCGTAGTAAG-TGTTCCCGTCTTCCCGATC
[AB]81086A.atp6-2           --------GAATCAACCAATTCGTAGTAAG-TGTTCCCGTCTTCCCGATC
[AB]KJ078649.atp6-1         --------GAATCAACCAATTCGTAGTAAG-TGTTCCCGTCTTCCCGATC
[AB]KJ078649.atp6-2         --------GAATCAACCAATTCGTAGTAAG-TGTTCCCGTCTTCCCGATC
[ABD]Lumai1.atp6-1          --------GAATCAACCAATTCGTAGTAAG-TGTTCCCGTCTTCCCGATC
[ABD]Lumai1.atp6-2          --------GAATCAACCAATTCGTAGTAAG-TGTTCCCGTCTTCCCGATC
[ABD]Kenong9204.atp6-1     --------GAATCAACCAATTCGTAGTAAG-TGTTCCCGTCTTCCCGATC
[ABD]Kenong9204.atp6-2     --------GAATCAACCAATTCGTAGTAAG-TGTTCCCGTCTTCCCGATC
[ABD]AK58.atp6-1            --------GAATCAACCAATTCGTAGTAAG-TGTTCCCGTCTTCCCGATC
[ABD]AK58.atp6-2            --------GAATCAACCAATTCGTAGTAAG-TGTTCCCGTCTTCCCGATC
[ABD]AP008982.atp6-1       --------GAATCAACCAATTCGTAGTAAG-TGTTCCCGTCTTCCCGATC
[ABD]AP008982.atp6-2       --------GAATCAACCAATTCGTAGTAAG-TGTTCCCGTCTTCCCGATC
[ABD]NC_036024.atp6-1      --------GAATCAACCAATTCGTAGTAAG-TGTTCCCGTCTTCCCGATC
[ABD]NC_036024.atp6-2      --------GAATCAACCAATTCGTAGTAAG-TGTTCCCGTCTTCCCGATC
[ABD]MH051716.atp6-1       --------GAATCAACCAATTCGTAGTAAG-TGTTCCCGTCTTCCCGATC
[ABD]MH051716.atp6-2       --------GAATCAACCAATTCGTAGTAAG-TGTTCCCGTCTTCCCGATC
[S]AP013107.atp6            AAGGGGTGGGAGGCACCTACCTCGAAAGACGGGGACCTCCTTTTAAAAATG
[AG]AP013106.atp6           --------GAATCAACCAATTCGTAGTAAG-TGTTCCCGTCTTCCCGATC
[D]Clae23.atp6             AAGGGGTGGGAGGCACCTACCTCGAAAGACAGGGACCTCCTTTTAAAAATG
[D]AL8/78.atp6             AAGGGGTGGGAGGCACCTACCTCGAAAGACAGGGACCTCCTTTTAAAAATG
[D]SQ523.atp6              AAGGGGTGGGAGGCACCTACCTCGAAAGACAGGGACCTCCTTTTAAAAATG
[D]Y199.atp6               AAGGGGTGGGAGGCACCTACCTCGAAAGACAGGGACCTCCTTTTAAAAATG
[D]Kaifeng1.atp6           AAGGGGTGGGAGGCACCTACCTCGAAAGACAGGGACCTCCTTTTAAAAATG
[CD]Jinan0529.atp6         AAGGGGTGGGAGGCACCTACCTCGAAAGACGTGGACCTCCTTTTAAAAATG
KJ078648.atp6-p            AAG-GGTGGGAGGCACCTACCTCGAAAGACAGGGACCTCCTTTTAAAAATG
MZ202552.atp6             ATTTTGATAAAGCATCATCTGAAAGTTCGGGGGAGCGCCGTATCTTTCAG
MN127982.atp6             --------------------------------------------------
OK120846.atp6            --------GAATCAACCAATTCGTAGTAAG-TGTTCCCGTCTTCCCGATC
consensus                        gaatcaaccaattcgtagtaag tgttcccgtcttcccgatc
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                           ........210.......220.......230.......240.......250
[A]IX-0944.atp6            TA--TGGAATTGCGCCCGGA-----AATACA-G--AGGCTTT-GCT--TT
[A]IX-0946.atp6            TA--TGGAATTGCGCCCGGA-----AATACA-G--AGGCTTT-GCT--TT
[A]IX-0957.atp6            TA--TGGAATTGCGCCCGGA-----AATACA-G--AGGCTTT-GCT--TT
[A]IX-0969.atp6            TA--TGGAATTGCGCCCGGA-----AATACA-G--AGGCTTT-GCT--TT
[A]IX-0976.atp6            TA--TGGAATTGCGCCCGGA-----AATACA-G--AGGCTTT-GCT--TT
[AB]SCAUP.atp6-1           TA--CATGATTTTTTCCCAA-----CCAACATC--TCTCAGA-ACT--TT
[AB]SCAUP.atp6-2           TA--CATGATTTTTTCCCAA-----CCAACATC--TCTCAGA-ACT--TT
[AB]Hoh501.atp6-1          TA--CATGATTTTTTCCCAA-----CCAACATC--TCTCAGA-ACT--TT
[AB]Hoh501.atp6-2          TA--CATGATTTTTTCCCAA-----CCAACATC--TCTCAGA-ACT--TT
[AB]DM4.atp6-1             TA--CATGATTTTTTCCCAA-----CCAACATC--TCTCAGA-ACT--TT
[AB]DM4.atp6-2             TA--CATGATTTTTTCCCAA-----CCAACATC--TCTCAGA-ACT--TT
[AB]Langdon.atp6-1         TA--CATGATTTTTTCCCAA-----CCAACATC--TCTCAGA-ACT--TT
[AB]Langdon.atp6-2         TA--CATGATTTTTTCCCAA-----CCAACATC--TCTCAGA-ACT--TT
[AB]81086A.atp6-1          TA--CATGATTTTTTCCCAA-----CCAACATC--TCTCAGA-ACT--TT
[AB]81086A.atp6-2          TA--CATGATTTTTTCCCAA-----CCAACATC--TCTCAGA-ACT--TT
[AB]KJ078649.atp6-1        TA--CATGATTTTTTCCCAA-----CCAACATC--TCTCAGA-ACT--TT
[AB]KJ078649.atp6-2        TA--CATGATTTTTTCCCAA-----CCAACATC--TCTCAGA-ACT--TT
[ABD]Lumai1.atp6-1         TA--CATGATTTTTTCCCAA-----CCAACATC--TCTCAGA-ACT--TT
[ABD]Lumai1.atp6-2         TA--CATGATTTTTTCCCAA-----CCAACATC--TCTCAGA-ACT--TT
[ABD]Kenong9204.atp6-1     TA--CATGATTTTTTCCCAA-----CCAACATC--TCTCAGA-ACT--TT
[ABD]Kenong9204.atp6-2     TA--CATGATTTTTTCCCAA-----CCAACATC--TCTCAGA-ACT--TT
[ABD]AK58.atp6-1           TA--CATGATTTTTTCCCAA-----CCAACATC--TCTCAGA-ACT--TT
[ABD]AK58.atp6-2           TA--CATGATTTTTTCCCAA-----CCAACATC--TCTCAGA-ACT--TT
[ABD]AP008982.atp6-1       TA--CATGATTTTTTCCCAA-----CCAACATC--TCTCAGA-ACT--TT
[ABD]AP008982.atp6-2       TA--CATGATTTTTTCCCAA-----CCAACATC--TCTCAGA-ACT--TT
[ABD]NC_036024.atp6-1      TA--CATGATTTTTTCCCAA-----CCAACATC--TCTCAGA-ACT--TT
[ABD]NC_036024.atp6-2      TA--CATGATTTTTTCCCAA-----CCAACATC--TCTCAGA-ACT--TT
[ABD]MH051716.atp6-1       TA--CATGATTTTTTCCCAA-----CCAACATC--TCTCAGA-ACT--TT
[ABD]MH051716.atp6-2       TA--CATGATTTTTTCCCAA-----CCAACATC--TCTCAGA-ACT--TT
[S]AP013107.atp6           TA--TGGATTGCGCCCGGA-----AATGCG-C--AGGCTTT-GCT--TT
[AG]AP013106.atp6          TA--CATGATTTTTTCCCAA-----CCAACATC--TCTCAGA-ACT--TT
[D]Clae23.atp6             TA--TGGAATTGCGCCCGGA-----AATACA-C--AGGCTTT-GCT--TT
[D]AL8/78.atp6             TA--TGGAATTGCGCCCGGA-----AATACA-C--AGGCTTT-GCT--TT
[D]SQ523.atp6              TA--TGGAATTGCGCCCGGA-----AATACA-C--AGGCTTT-GCT--TT
[D]Y199.atp6               TA--TGGAATTGCGCCCGGA-----AATACA-C--AGGCTTT-GCT--TT
[D]Kaifeng1.atp6           TA--TGGAATTGCGCCCGGA-----AATACA-C--AGGCTTT-GCT--TT
[CD]Jinan0529.atp6         TA--TGGAATTGCGCCCGAA-----AATGCA-C--AGGCTTT-GCT--TT
KJ078648.atp6-p            TA--TGGAATTGCGCCCGGA-----AATACA-C--AGGCTTTTGCTTTTT
MZ202552.atp6             TTTGACGAATCGAGCCTTAATTCGAATTCGA-GTGGGGTTCA-AAC--TT
MN127982.atp6             --------------------------------------------------
OK120846.atp6            GA--AATGATTTTTTCCCAA-----CCAACATC--TCTCAGA-ACT--TT
consensus                 ta  catgatttttcccaa      ccaacatc  tctcaga act  tt
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                              .......260.......270.......280.......290.......300
[A]IX-0944.atp6               TTGAAATCACAA-AAATGGTAGAATCATACATGCAGCAGGCAGAATTGGC
[A]IX-0946.atp6               TTGAAATCACAA-AAATGGTAGAATCATACATGCAGCAGGCAGAATTGGC
[A]IX-0957.atp6               TTGAAATCACAA-AAATGGTAGAATCATACATGCAGCAGGCAGAATTGGC
[A]IX-0969.atp6               TTGAAATCACAA-AAATGGTAGAATCATACATGCAGCAGGCAGAATTGGC
[A]IX-0976.atp6               TTGAAATCACAA-AAATGGTAGAATCATACATGCAGCAGGCAGAATTGGC
[AB]SCAUP.atp6-1              GCTATAACGCCA-AACTTGGATA-TAACGCCAACGCCTGAGCGAATTGCC
[AB]SCAUP.atp6-2              GCTATAACGCCA-AACTTGGATA-TAACGCCAACGCCTGAGCGAATTGCC
[AB]Hoh501.atp6-1            GCTATAACGCCA-AACTTGGATA-TAACGCCAACGCCTGAGCGAATTGCC
[AB]Hoh501.atp6-2            GCTATAACGCCA-AACTTGGATA-TAACGCCAACGCCTGAGCGAATTGCC
[AB]DM4.atp6-1               GCTATAACGCCA-AACTTGGATA-TAACGCCAACGCCTGAGCGAATTGCC
[AB]DM4.atp6-2               GCTATAACGCCA-AACTTGGATA-TAACGCCAACGCCTGAGCGAATTGCC
[AB]Langdon.atp6-1          GCTATAACGCCA-AACTTGGATA-TAACGCCAACGCCTGAGCGAATTGCC
[AB]Langdon.atp6-2          GCTATAACGCCA-AACTTGGATA-TAACGCCAACGCCTGAGCGAATTGCC
[AB]81086A.atp6-1           GCTATAACGCCA-AACTTGGATA-TAACGCCAACGCCTGAGCGAATTGCC
[AB]81086A.atp6-2           GCTATAACGCCA-AACTTGGATA-TAACGCCAACGCCTGAGCGAATTGCC
[AB]KJ078649.atp6-1         GCTATAACGCCA-AACTTGGATA-TAACGCCAACGCCTGAGCGAATTGCC
[AB]KJ078649.atp6-2         GCTATAACGCCA-AACTTGGATA-TAACGCCAACGCCTGAGCGAATTGCC
[ABD]Lumai1.atp6-1          GCTATAACGCCA-AACTTGGATA-TAACGCCAACGCCTGAGCGAATTGCC
[ABD]Lumai1.atp6-2          GCTATAACGCCA-AACTTGGATA-TAACGCCAACGCCTGAGCGAATTGCC
[ABD]Kenong9204.atp6-1      GCTATAACGCCA-AACTTGGATA-TAACGCCAACGCCTGAGCGAATTGCC
[ABD]Kenong9204.atp6-2      GCTATAACGCCA-AACTTGGATA-TAACGCCAACGCCTGAGCGAATTGCC
[ABD]AK58.atp6-1            GCTATAACGCCA-AACTTGGATA-TAACGCCAACGCCTGAGCGAATTGCC
[ABD]AK58.atp6-2            GCTATAACGCCA-AACTTGGATA-TAACGCCAACGCCTGAGCGAATTGCC
[ABD]AP008982.atp6-1        GCTATAACGCCA-AACTTGGATA-TAACGCCAACGCCTGAGCGAATTGCC
[ABD]AP008982.atp6-2        GCTATAACGCCA-AACTTGGATA-TAACGCCAACGCCTGAGCGAATTGCC
[ABD]NC_036024.atp6-1       GCTATAACGCCA-AACTTGGATA-TAACGCCAACGCCTGAGCGAATTGCC
[ABD]NC_036024.atp6-2       GCTATAACGCCA-AACTTGGATA-TAACGCCAACGCCTGAGCGAATTGCC
[ABD]MH051716.atp6-1        GCTATAACGCCA-AACTTGGATA-TAACGCCAACGCCTGAGCGAATTGCC
[ABD]MH051716.atp6-2        GCTATAACGCCA-AACTTGGATA-TAACGCCAACGCCTGAGCGAATTGCC
[S]AP013107.atp6             TTGAAATCACAA-AAATGGTAGAATTATACATGCGGCAGGCAGAAATGGT
[AG]AP013106.atp6            GCTATAACGCCA-AACTTGGATA-TAACGCCAACGCCTGAGCGAATTGCC
[D]Clae23.atp6               TTGAAATCACAA-AAATGGTAGAATCATACATGCGGCAGGCAAATTTGGT
[D]AL8/78.atp6               TTGAAATCACAA-AAATGGTAGAATCATACATGCGGCAGGCAAATTTGGT
[D]SQ523.atp6                TTGAAATCACAA-AAATGGTAGAATCATACATGCGGCAGGCAAATTTGGT
[D]Y199.atp6                 TTGAAATCACAA-AAATGGTAGAATCATACATGCGGCAGGCAAATTTGGT
[D]Kaifeng1.atp6             TTGAAATCACAA-AAATGGTAGAATCATACATGCGGCAGGCAAATTTGGT
[CD]Jinan0529.atp6           TTGAAATCACAA-AAATGGTAGAATTATACATGCGGCAGGCAGAAATGGT
KJ078648.atp6-p              TTGAAATCACAA-AAATGGTAGAATCATACATGCGGCAGGCAAATTTGGT
MZ202552.atp6                TTGAGACCCCAAGTTCTGGTAGAACAATACTAGAAGGATCCAATACAAGT
MN127982.atp6                ----------------------------------TATACTTACGGCAGGCACAAATGGT
OK120846.atp6                GATATAACGCCA-AACTTTGATA-TAACGCCAACGCCTGAGCGAAATGCC
consensus                    gctataacgcca aacttggata taAcgCcaacgcctgagcgaattgcc
```

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                              .......310.......320.......330.......340.......350
[A]IX-0944.atp6               TTTGCCACCTGCATACGATG--T----------------------TACC
[A]IX-0946.atp6               TTTGCCACCTGCATACGATG--T----------------------TACC
[A]IX-0957.atp6               TTTGCCACCTGCATACGATG--T----------------------TACC
[A]IX-0969.atp6               TTTGCCACCTGCATACGATG--T----------------------TACC
[A]IX-0976.atp6               TTTGCCACCTGCATACGATG--T----------------------TACC
[AB]SCAUP.atp6-1              GGCGTCACA------ATAGT--T----------------------TTAC
[AB]SCAUP.atp6-2              GGCGTCACA------ATAGT--T----------------------TTAC
[AB]Hoh501.atp6-1             GGCGTCACA------ATAGT--T----------------------TTAC
[AB]Hoh501.atp6-2             GGCGTCACA------ATAGT--T----------------------TTAC
[AB]DM4.atp6-1               GGCGTCACA------ATAGT--T----------------------TTAC
[AB]DM4.atp6-2               GGCGTCACA------ATAGT--T----------------------TTAC
[AB]Langdon.atp6-1            GGCGTCACA------ATAGT--T----------------------TTAC
[AB]Langdon.atp6-2            GGCGTCACA------ATAGT--T----------------------TTAC
[AB]81086A.atp6-1             GGCGTCACA------ATAGT--T----------------------TTAC
[AB]81086A.atp6-2             GGCGTCACA------ATAGT--T----------------------TTAC
[AB]KJ078649.atp6-1           GGCGTCACA------ATAGT--T----------------------TTAC
[AB]KJ078649.atp6-2           GGCGTCACA------ATAGT--T----------------------TTAC
[ABD]Lumai1.atp6-1            GGCGTCACA------ATAGT--T----------------------TTAC
[ABD]Lumai1.atp6-2            GGCGTCACA------ATAGT--T----------------------TTAC
[ABD]Kenong9204.atp6-1        GGCGTCACA------ATAGT--T----------------------TTAC
[ABD]Kenong9204.atp6-2        GGCGTCACA------ATAGT--T----------------------TTAC
[ABD]AK58.atp6-1              GGCGTCACA------ATAGT--T----------------------TTAC
[ABD]AK58.atp6-2              GGCGTCACA------ATAGT--T----------------------TTAC
[ABD]AP008982.atp6-1          GGCGTCACA------ATAGT--T----------------------TTAC
[ABD]AP008982.atp6-2          GGCGTCACA------ATAGT--T----------------------TTAC
[ABD]NC_036024.atp6-1         GGCGTCACA------ATAGT--T----------------------TTAC
[ABD]NC_036024.atp6-2         GGCGTCACA------ATAGT--T----------------------TTAC
[ABD]MH051716.atp6-1          GGCGTCACA------ATAGT--T----------------------TTAC
[ABD]MH051716.atp6-2          GGCGTCACA------ATAGT--T----------------------TTAC
[S]AP013107.atp6              TTTGCCACCTACATACGATG--T---------------------GACC
[AG]AP013106.atp6             GGCGTCACA------ATAGT--T----------------------TTAC
[D]Clae23.atp6               TTTGCCACCTGCATACGATG--T----------------------TACC
[D]AL8/78.atp6               TTTGCCACCTGCATACGATG--T----------------------TACC
[D]SQ523.atp6                TTTGCCACCTGCATACGATG--T----------------------TACC
[D]Y199.atp6                 TTTGCCACCTGCATACGATG--T----------------------TACC
[D]Kaifeng1.atp6             TTTGCCACCTGCATACGATG--T----------------------TACC
[CD]Jinan0529.atp6            TTTGCCACCTGCATACGATG--T----------------------TACC
KJ078648.atp6-p               TTTGCCACCTGCATACGATG--T----------------------TACC
MZ202552.atp6                 AATGCCECTAATCTTAACGGTATTCCTATTCCGGGGCAGGGGAATTCAAT
MN127982.atp6                 TTTGCCAGCGGCCTATAATG--T----------------------TAGA
OK120846.atp6                 ATGGCCATA------ATATC--C---------------------ATCC
consensus                     ggcGtCaca      atagt  t                      ttac
```

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                    ........360.......370.......380.......390.......400
[A]IX-0944.atp6       -TGGTTTTGTAACCAGTTTCTGGGCGT----------------------
[A]IX-0946.atp6       -TGGTTTTGTAACCAGTTTCTGGGCGT----------------------
[A]IX-0957.atp6       -TGGTTTTGTAACCAGTTTCTGGGCGT----------------------
[A]IX-0969.atp6       -TGGTTTTGTAACCAGTTTCTGGGCGT----------------------
[A]IX-0976.atp6       -TGGTTTTGTAACCAGTTTCTGGGCGT----------------------
[AB]SCAUP.atp6-1      -AA----ATAGAAGAGTATTTGGGCCA----------------------
[AB]SCAUP.atp6-2      -AA----ATAGAAGAGTATTTGGGCCA----------------------
[AB]Hoh501.atp6-1     -AA----ATAGAAGAGTATTTGGGCCA----------------------
[AB]Hoh501.atp6-2     -AA----ATAGAAGAGTATTTGGGCCA----------------------
[AB]DM4.atp6-1        -AA----ATAGAAGAGTATTTGGGCCA----------------------
[AB]DM4.atp6-2        -AA----ATAGAAGAGTATTTGGGCCA----------------------
[AB]Langdon.atp6-1    -AA----ATAGAAGAGTATTTGGGCCA----------------------
[AB]Langdon.atp6-2    -AA----ATAGAAGAGTATTTGGGCCA----------------------
[AB]81086A.atp6-1     -AA----ATAGAAGAGTATTTGGGCCA----------------------
[AB]81086A.atp6-2     -AA----ATAGAAGAGTATTTGGGCCA----------------------
[AB]KJ078649.atp6-1   -AA----ATAGAAGAGTATTTGGGCCA----------------------
[AB]KJ078649.atp6-2   -AA----ATAGAAGAGTATTTGGGCCA----------------------
[ABD]Lumai1.atp6-1    -AA----ATAGAAGAGTATTTGGGCCA----------------------
[ABD]Lumai1.atp6-2    -AA----ATAGAAGAGTATTTGGGCCA----------------------
[ABD]Kenong9204.atp6-1 -AA----ATAGAAGAGTATTTGGGCCA----------------------
[ABD]Kenong9204.atp6-2 -AA----ATAGAAGAGTATTTGGGCCA----------------------
[ABD]AK58.atp6-1      -AA----ATAGAAGAGTATTTGGGCCA----------------------
[ABD]AK58.atp6-2      -AA----ATAGAAGAGTATTTGGGCCA----------------------
[ABD]AP008982.atp6-1  -AA----ATAGAAGAGTATTTGGGCCA----------------------
[ABD]AP008982.atp6-2  -AA----ATAGAAGAGTATTTGGGCCA----------------------
[ABD]NC_036024.atp6-1 -AA----ATAGAAGAGTATTTGGGCCA----------------------
[ABD]NC_036024.atp6-2 -AA----ATAGAAGAGTATTTGGGCCA----------------------
[ABD]MH051716.atp6-1  -AA----ATAGAAGAGTATTTGGGCCA----------------------
[ABD]MH051716.atp6-2  -AA----ATAGAAGAGTATTTGGGCCA----------------------
[S]AP013107.atp6      -TGGTTTTGTAATCAGTTTCTGGGCGT----------------------
[AG]AP013106.atp6     -AA----ATAGAAGAGTATTTGGGCCA----------------------
[D]Clae23.atp6        -TGGTTTTGTAACCAGTTTCTGGGCGT----------------------
[D]AL8/78.atp6        -TGGTTTTGTAACCAGTTTCTGGGCGT----------------------
[D]SQ523.atp6         -TGGTTTTGTAACCAGTTTCTGGGCGT----------------------
[D]Y199.atp6          -TGGTTTTGTAACCAGTTTCTGGGCGT----------------------
[D]Kaifeng1.atp6      -TGGTTTTGTAACCAGTTTCTGGGCGT----------------------
[CD]Jinan0529.atp6    -TGGTTTTGTGACCAGTTTGTGGGCGT----------------------
KJ078648.atp6-p       -TGGTTTTGTAACCAGTTTCTGGGCGT----------------------
MZ202552.atp6         TGGGATTTACGAEGACCATCCAGGTCTAAATCCTGTAACGGAAAGAGTTG
MN127982.atp6         -GAGTTTTGTGACCAGTTTTTTCGGCCT----------------------
OK120846.atp6         -AA----ATACAAAGGTATTTGGGCCA----------------------
consensus             aa     atagAagagtaTttgGGcca
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                          .......410.......420.......430.......440.......450
[A]IX-0944.atp6           -GGATTCTTTCCCGTCTCTAAGGGATACTTTCGCGGATTTACA-------
[A]IX-0946.atp6           -GGATTCTTTCCCGTCTCTAAGGGATACTTTCGCGGATTTACA-------
[A]IX-0957.atp6           -GGATTCTTTCCCGTCTCTAAGGGATACTTTCGCGGATTTACA-------
[A]IX-0969.atp6           -GGATTCTTTCCCGTCTCTAAGGGATACTTTCGCGGATTTACA-------
[A]IX-0976.atp6           -GGATTCTTTCCCGTCTCTAAGGGATACTTTCGCGGATTTACA-------
[AB]SCAUP.atp6-1          -AAATGAGTCCGAACAGGGAGCAGTCAATTTAGCTA--GAACA-------
[AB]SCAUP.atp6-2          -AAATGAGTCCGAACAGGGAGCAGTCAATTTAGCTA--GAACA-------
[AB]Hoh501.atp6-1         -AAATGAGTCCGAACAGGGAGCAGTCAATTTAGCTA--GAACA-------
[AB]Hoh501.atp6-2         -AAATGAGTCCGAACAGGGAGCAGTCAATTTAGCTA--GAACA-------
[AB]DM4.atp6-1            -AAATGAGTCCGAACAGGGAGCAGTCAATTTAGCTA--GAACA-------
[AB]DM4.atp6-2            -AAATGAGTCCGAACAGGGAGCAGTCAATTTAGCTA--GAACA-------
[AB]Langdon.atp6-1        -AAATGAGTCCGAACAGGGAGCAGTCAATTTAGCTA--GAACA-------
[AB]Langdon.atp6-2        -AAATGAGTCCGAACAGGGAGCAGTCAATTTAGCTA--GAACA-------
[AB]81086A.atp6-1         -AAATGAGTCCGAACAGGGAGCAGTCAATTTAGCTA--GAACA-------
[AB]81086A.atp6-2         -AAATGAGTCCGAACAGGGAGCAGTCAATTTAGCTA--GAACA-------
[AB]KJ078649.atp6-1       -AAATGAGTCCGAACAGGGAGCAGTCAATTTAGCTA--GAACA-------
[AB]KJ078649.atp6-2       -AAATGAGTCCGAACAGGGAGCAGTCAATTTAGCTA--GAACA-------
[ABD]Lumai1.atp6-1        -AAATGAGTCCGAACAGGGAGCAGTCAATTTAGCTA--GAACA-------
[ABD]Lumai1.atp6-2        -AAATGAGTCCGAACAGGGAGCAGTCAATTTAGCTA--GAACA-------
[ABD]Kenong9204.atp6-1    -AAATGAGTCCGAACAGGGAGCAGTCAATTTAGCTA--GAACA-------
[ABD]Kenong9204.atp6-2    -AAATGAGTCCGAACAGGGAGCAGTCAATTTAGCTA--GAACA-------
[ABD]AK58.atp6-1          -AAATGAGTCCGAACAGGGAGCAGTCAATTTAGCTA--GAACA-------
[ABD]AK58.atp6-2          -AAATGAGTCCGAACAGGGAGCAGTCAATTTAGCTA--GAACA-------
[ABD]AP008982.atp6-1      -AAATGAGTCCGAACAGGGAGCAGTCAATTTAGCTA--GAACA-------
[ABD]AP008982.atp6-2      -AAATGAGTCCGAACAGGGAGCAGTCAATTTAGCTA--GAACA-------
[ABD]NC_036024.atp6-1     -AAATGAGTCCGAACAGGGAGCAGTCAATTTAGCTA--GAACA-------
[ABD]NC_036024.atp6-2     -AAATGAGTCCGAACAGGGAGCAGTCAATTTAGCTA--GAACA-------
[ABD]MH051716.atp6-1      -AAATGAGTCCGAACAGGGAGCAGTCAATTTAGCTA--GAACA-------
[ABD]MH051716.atp6-2      -AAATGAGTCCGAACAGGGAGCAGTCAATTTAGCTA--GAACA-------
[S]AP013107.atp6          -GGATCCTGCTGAGAGTCTAAGGAATACTTTCTTAGATTTACA-------
[AG]AP013106.atp6         -AAATGAGTCCGAACAGGGAGCAGTCAATTTAGCTA--GAACA-------
[D]Clae23.atp6            -GGATTCTTTTAAGGATCTAAAGGATACTTTCGTAGATTTACA-------
[D]AL8/78.atp6            -GGATTCTTTTAAGGATCTAAAGGATACTTTCGTAGATTTACA-------
[D]SQ523.atp6             -GGATTCTTTTAAGGATCTAAAGGATACTTTCGTAGATTTACA-------
[D]Y199.atp6              -GGATTCTTTTAAGGATCTAAAGGATACTTTCGTAGATTTACA-------
[D]Kaifeng1.atp6          -GGATTCTTTTAAGGATCTAAAGGATACTTTCGTAGATTTACA-------
[CD]Jinan0529.atp6        -GGATCCTGCTGAGAGTCTAAGGAATACTTTCGTAGATTTACA-------
KJ078648.atp6-p           -GGATTCTTTTAAGGATCTAAAGGATACTTTCGTAGATTTACA-------
MZ202552.atp6             TGGAATATCAAGCTGCTATACACGATAAGTTAAAAGATTTAATGCCTGGC
MN127982.atp6             -GGATTCTCCCCGGAGTCTCTGGGGTAGTTTCGTAGATTTACA-------
OK120846.atp6             -AAATGAGTCCGGACAGGGAGCAGTCGATTTAGCTA--GAACA-------
consensus                  aaAtgagtccgaacagggagcagtcaatTTagcta  gaAca
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               ........460.......470.......480.......490.......500
[A]IX-0944.atp6          ----------------TTTCAAGGGG--CGCCAAAGC-TTCACTTGGAACG
[A]IX-0946.atp6          ----------------TTTCAAGGGG--CGCCAAAGC-TTCACTTGGAACG
[A]IX-0957.atp6          ----------------TTTCAAGGGG--CGCCAAAGC-TTCACTTGGAACG
[A]IX-0969.atp6          ----------------TTTCAAGGGG--CGCCAAAGC-TTCACTTGGAACG
[A]IX-0976.atp6          ----------------TTTCAAGGGG--CGCCAAAGC-TTCACTTGGAACG
[AB]SCAUP.atp6-1         ----------------GTATTGGGAG--CCCGCCACC-GAAATGGCGAAAC
[AB]SCAUP.atp6-2         ----------------GTATTGGGAG--CCCGCCACC-GAAATGGCGAAAC
[AB]Hoh501.atp6-1        ----------------GTATTGGGAG--CCCGCCACC-GAAATGGCGAAAC
[AB]Hoh501.atp6-2        ----------------GTATTGGGAG--CCCGCCACC-GAAATGGCGAAAC
[AB]DM4.atp6-1           ----------------GTATTGGGAG--CCCGCCACC-GAAATGGCGAAAC
[AB]DM4.atp6-2           ----------------GTATTGGGAG--CCCGCCACC-GAAATGGCGAAAC
[AB]Langdon.atp6-1       ----------------GTATTGGGAG--CCCGCCACC-GAAATGGCGAAAC
[AB]Langdon.atp6-2       ----------------GTATTGGGAG--CCCGCCACC-GAAATGGCGAAAC
[AB]81086A.atp6-1        ----------------GTATTGGGAG--CCCGCCACC-GAAATGGCGAAAC
[AB]81086A.atp6-2        ----------------GTATTGGGAG--CCCGCCACC-GAAATGGCGAAAC
[AB]KJ078649.atp6-1      ----------------GTATTGGGAG--CCCGCCACC-GAAATGGCGAAAC
[AB]KJ078649.atp6-2      ----------------GTATTGGGAG--CCCGCCACC-GAAATGGCGAAAC
[ABD]Lumai1.atp6-1       ----------------GTATTGGGAG--CCCGCCACC-GAAATGGCGAAAC
[ABD]Lumai1.atp6-2       ----------------GTATTGGGAG--CCCGCCACC-GAAATGGCGAAAC
[ABD]Kenong9204.atp6-1   ----------------GTATTGGGAG--CCCGCCACC-GAAATGGCGAAAC
[ABD]Kenong9204.atp6-2   ----------------GTATTGGGAG--CCCGCCACC-GAAATGGCGAAAC
[ABD]AK58.atp6-1         ----------------GTATTGGGAG--CCCGCCACC-GAAATGGCGAAAC
[ABD]AK58.atp6-2         ----------------GTATTGGGAG--CCCGCCACC-GAAATGGCGAAAC
[ABD]AP008982.atp6-1     ----------------GTATTGGGAG--CCCGCCACC-GAAATGGCGAAAC
[ABD]AP008982.atp6-2     ----------------GTATTGGGAG--CCCGCCACC-GAAATGGCGAAAC
[ABD]NC_036024.atp6-1    ----------------GTATTGGGAG--CCCGCCACC-GAAATGGCGAAAC
[ABD]NC_036024.atp6-2    ----------------GTATTGGGAG--CCCGCCACC-GAAATGGCGAAAC
[ABD]MH051716.atp6-1     ----------------GTATTGGGAG--CCCGCCACC-GAAATGGCGAAAC
[ABD]MH051716.atp6-2     ----------------GTATTGGGAG--CCCGCCACC-GAAATGGCGAAAC
[S]AP013107.atp6         ----------------TTTCAAAGGG--CGCGAAAGC-TTCACTTGGAACA
[AG]AP013106.atp6        ----------------GTATTGGGAG--CCCGCCACC-GAAATGGCGAAAC
[D]Clae23.atp6           ----------------TTTCAAGGGG--CGCGAAAGC-TTAACTTGGAACA
[D]AL8/78.atp6           ----------------TTTCAAGGGG--CGCGAAAGC-TTAACTTGGAACA
[D]SQ523.atp6            ----------------TTTCAAGGGG--CGCGAAAGC-TTAACTTGGAACA
[D]Y199.atp6             ----------------TTTCAAGGGG--CGCGAAAGC-TTAACTTGGAACA
[D]Kaifeng1.atp6         ----------------TTTCAAGGGG--CGCGAAAGC-TTAACTTGGAACA
[CD]Jinan0529.atp6       ----------------TTTCAAGGGG--CGCGAAAGC-TTCACTTGGAACA
KJ078648.atp6-p          ----------------TTTCAAGGGG--CGCGAAAGC-TTAACTTGGAACA
MZ202552.atp6            AGGAATTCCCACGAAGTTCTGGCTGCGGCCGAACGTGTACATGGGGAAAG
MN127982.atp6            ----------------TTTAAAAGGG--CACGAAAGC-GTCACTTGGGACT
OK120846.atp6            ----------------GTAATGGGAG--CCCGCCACC-GAAATGGCGAAAC
consensus                                gTattgggaG  ccCgccacc gaaAtggcGaAac
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                 .......510.......520.......530.......540.......550
[A]IX-0944.atp6            CGGGCTTTGTTAATTTTTATAACGAAATATGGAGGGCCGAAGACTCCCCG
[A]IX-0946.atp6            CGGGCTTTGTTAATTTTTATAACGAAATATGGAGGGCCGAAGACTCCCCG
[A]IX-0957.atp6            CGGGCTTTGTTAATTTTTATAACGAAATATGGAGGGCCGAAGACTCCCCG
[A]IX-0969.atp6            CGGGCTTTGTTAATTTTTATAACGAAATATGGAGGGCCGAAGACTCCCCG
[A]IX-0976.atp6            CGGGCTTTGTTAATTTTTATAACGAAATATGGAGGGCCGAAGACTCCCCG
[AB]SCAUP.atp6-1           TTGGCAGGGCATA----------------------TTAGAGGATATTCGG
[AB]SCAUP.atp6-2           TTGGCAGGGCATA----------------------TTAGAGGATATTCGG
[AB]Hoh501.atp6-1          TTGGCAGGGCATA----------------------TTAGAGGATATTCGG
[AB]Hoh501.atp6-2          TTGGCAGGGCATA----------------------TTAGAGGATATTCGG
[AB]DM4.atp6-1             TTGGCAGGGCATA----------------------TTAGAGGATATTCGG
[AB]DM4.atp6-2             TTGGCAGGGCATA----------------------TTAGAGGATATTCGG
[AB]Langdon.atp6-1         TTGGCAGGGCATA----------------------TTAGAGGATATTCGG
[AB]Langdon.atp6-2         TTGGCAGGGCATA----------------------TTAGAGGATATTCGG
[AB]81086A.atp6-1          TTGGCAGGGCATA----------------------TTAGAGGATATTCGG
[AB]81086A.atp6-2          TTGGCAGGGCATA----------------------TTAGAGGATATTCGG
[AB]KJ078649.atp6-1        TTGGCAGGGCATA----------------------TTAGAGGATATTCGG
[AB]KJ078649.atp6-2        TTGGCAGGGCATA----------------------TTAGAGGATATTCGG
[ABD]Lumai1.atp6-1         TTGGCAGGGCATA----------------------TTAGAGGATATTCGG
[ABD]Lumai1.atp6-2         TTGGCAGGGCATA----------------------TTAGAGGATATTCGG
[ABD]Kenong9204.atp6-1     TTGGCAGGGCATA----------------------TTAGAGGATATTCGG
[ABD]Kenong9204.atp6-2     TTGGCAGGGCATA----------------------TTAGAGGATATTCGG
[ABD]AK58.atp6-1           TTGGCAGGGCATA----------------------TTAGAGGATATTCGG
[ABD]AK58.atp6-2           TTGGCAGGGCATA----------------------TTAGAGGATATTCGG
[ABD]AP008982.atp6-1       TTGGCAGGGCATA----------------------TTAGAGGATATTCGG
[ABD]AP008982.atp6-2       TTGGCAGGGCATA----------------------TTAGAGGATATTCGG
[ABD]NC_036024.atp6-1      TTGGCAGGGCATA----------------------TTAGAGGATATTCGG
[ABD]NC_036024.atp6-2      TTGGCAGGGCATA----------------------TTAGAGGATATTCGG
[ABD]MH051716.atp6-1       TTGGCAGGGCATA----------------------TTAGAGGATATTCGG
[ABD]MH051716.atp6-2       TTGGCAGGGCATA----------------------TTAGAGGATATTCGG
[S]AP013107.atp6           CGGGCTTTGTTAATTTTTATAACGAAATATGGAGGGCCACGACTCCCCG
[AG]AP013106.atp6          TTGGCAGGGCATA----------------------TTAGAGGATATTCGG
[D]Clae23.atp6             CGGGCTTTGTTAATTTTTATAACGAAATATGGAGGGCCGAAGACTCCCCG
[D]AL8/78.atp6             CGGGCTTTGTTAATTTTTATAACGAAATATGGAGGGCCGAAGACTCCCCG
[D]SQ523.atp6              CGGGCTTTGTTAATTTTTATAACGAAATATGGAGGGCCGAAGACTCCCCG
[D]Y199.atp6               CGGGCTTTGTTAATTTTTATAACGAAATATGGAGGGCCGAAGACTCCCCG
[D]Kaifeng1.atp6           CGGGCTTTGTTAATTTTTATAACGAAATATGGAGGGCCGAAGACTCCCCG
[CD]Jinan0529.atp6         CGGGCTTTGTTAATTTTTATAACGAAATATGGAGGGCCGAAGACTCCCCG
KJ078648.atp6-p            CGGGCTTTGTTAATTTTTATAACGAAATATGGAGGGCCGAAGACTCCCCG
MZ202552.atp6              CGATGATCTATCAT--TTCTTGCGGAGCA-----GTTACAAGATTTAGTG
MN127982.atp6             CGGGCGTGGCTCATCTTTATCACGAAATATGTAAGGCCGAAGCTTACTG
OK120846.atp6             TTGGCTGGGCATA----------------------TTAGAGGATATTCGG
consensus                 ttggcagggcatA                     ttagagGatattcgG
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                              .......560.......570.......580.......590.......600
[A]IX-0944.atp6               CCGGGTAGCGTTGTAAGTGCT------------------------
[A]IX-0946.atp6               CCGGGTAGCGTTGTAAGTGCT------------------------
[A]IX-0957.atp6               CCGGGTAGCGTTGTAAGTGCT------------------------
[A]IX-0969.atp6               CCGGGTAGCGTTGTAAGTGCT------------------------
[A]IX-0976.atp6               CCGGGTAGCGTTGTAAGTGCT------------------------
[AB]SCAUP.atp6-1              GCGGGTGGTGGTATGGATAAT------------------------
[AB]SCAUP.atp6-2              GCGGGTGGTGGTATGGATAAT------------------------
[AB]Hoh501.atp6-1            GCGGGTGGTGGTATGGATAAT------------------------
[AB]Hoh501.atp6-2            GCGGGTGGTGGTATGGATAAT------------------------
[AB]DM4.atp6-1               GCGGGTGGTGGTATGGATAAT------------------------
[AB]DM4.atp6-2               GCGGGTGGTGGTATGGATAAT------------------------
[AB]Langdon.atp6-1           GCGGGTGGTGGTATGGATAAT------------------------
[AB]Langdon.atp6-2           GCGGGTGGTGGTATGGATAAT------------------------
[AB]81086A.atp6-1            GCGGGTGGTGGTATGGATAAT------------------------
[AB]81086A.atp6-2            GCGGGTGGTGGTATGGATAAT------------------------
[AB]KJ078649.atp6-1          GCGGGTGGTGGTATGGATAAT------------------------
[AB]KJ078649.atp6-2          GCGGGTGGTGGTATGGATAAT------------------------
[ABD]Lumai1.atp6-1           GCGGGTGGTGGTATGGATAAT------------------------
[ABD]Lumai1.atp6-2           GCGGGTGGTGGTATGGATAAT------------------------
[ABD]Kenong9204.atp6-1       GCGGGTGGTGGTATGGATAAT------------------------
[ABD]Kenong9204.atp6-2       GCGGGTGGTGGTATGGATAAT------------------------
[ABD]AK58.atp6-1             GCGGGTGGTGGTATGGATAAT------------------------
[ABD]AK58.atp6-2             GCGGGTGGTGGTATGGATAAT------------------------
[ABD]AP008982.atp6-1         GCGGGTGGTGGTATGGATAAT------------------------
[ABD]AP008982.atp6-2         GCGGGTGGTGGTATGGATAAT------------------------
[ABD]NC_036024.atp6-1        GCGGGTGGTGGTATGGATAAT------------------------
[ABD]NC_036024.atp6-2        GCGGGTGGTGGTATGGATAAT------------------------
[ABD]MH051716.atp6-1         GCGGGTGGTGGTATGGATAAT------------------------
[ABD]MH051716.atp6-2         GCGGGTGGTGGTATGGATAAT------------------------
[S]AP013107.atp6             CCGGGTCGCGCTGTAAGTGCT------------------------
[AG]AP013106.atp6            GCGGGTGGTGGTATGGATAAT------------------------
[D]Clae23.atp6               CCGGGTAGCGCTGTAAGTGCT------------------------
[D]AL8/78.atp6               CCGGGTAGCGCTGTAAGTGCT------------------------
[D]SQ523.atp6                CCGGGTAGCGCTGTAAGTGCT------------------------
[D]Y199.atp6                 CCGGGTAGCGCTGTAAGTGCT------------------------
[D]Kaifeng1.atp6             CCGGGTAGCGCTGTAAGTGCT------------------------
[CD]Jinan0529.atp6           CCGGGTAGCGCTGTAAGTGCT------------------------
KJ078648.atp6-p              CCGGGTAGCGCTGTAAGTGCT------------------------
MZ202552.atp6                GTAAAGGGAGTAGAAAGTGAA------------------------
MN127982.atp6                CCGGATAGCCCACTCAGTGCTCCGAATAGTCCTTTCAGTGATCCGAATAG
OK120846.atp6                GCGGGTGGTGGTATGGATAAT------------------------
consensus                    gcgggtgGtggtatggaTaat
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                                  .......610.......620.......630.......640.......650
[A]IX-0944.atp6                   -----------------------------------------------
[A]IX-0946.atp6                   -----------------------------------------------
[A]IX-0957.atp6                   -----------------------------------------------
[A]IX-0969.atp6                   -----------------------------------------------
[A]IX-0976.atp6                   -----------------------------------------------
[AB]SCAUP.atp6-1                  -----------------------------------------------
[AB]SCAUP.atp6-2                  -----------------------------------------------
[AB]Hoh501.atp6-1                 -----------------------------------------------
[AB]Hoh501.atp6-2                 -----------------------------------------------
[AB]DM4.atp6-1                    -----------------------------------------------
[AB]DM4.atp6-2                    -----------------------------------------------
[AB]Langdon.atp6-1               -----------------------------------------------
[AB]Langdon.atp6-2               -----------------------------------------------
[AB]81086A.atp6-1                 -----------------------------------------------
[AB]81086A.atp6-2                 -----------------------------------------------
[AB]KJ078649.atp6-1               -----------------------------------------------
[AB]KJ078649.atp6-2               -----------------------------------------------
[ABD]Lumai1.atp6-1                -----------------------------------------------
[ABD]Lumai1.atp6-2                -----------------------------------------------
[ABD]Kenong9204.atp6-1        -----------------------------------------------
[ABD]Kenong9204.atp6-2        -----------------------------------------------
[ABD]AK58.atp6-1                  -----------------------------------------------
[ABD]AK58.atp6-2                  -----------------------------------------------
[ABD]AP008982.atp6-1              -----------------------------------------------
[ABD]AP008982.atp6-2              -----------------------------------------------
[ABD]NC_036024.atp6-1             -----------------------------------------------
[ABD]NC_036024.atp6-2             -----------------------------------------------
[ABD]MH051716.atp6-1              -----------------------------------------------
[ABD]MH051716.atp6-2              -----------------------------------------------
[S]AP013107.atp6                  -----------------------------------------------
[AG]AP013106.atp6                 -----------------------------------------------
[D]Clae23.atp6                    -----------------------------------------------
[D]AL8/78.atp6                    -----------------------------------------------
[D]SQ523.atp6                     -----------------------------------------------
[D]Y199.atp6                      -----------------------------------------------
[D]Kaifeng1.atp6                  -----------------------------------------------
[CD]Jinan0529.atp6                -----------------------------------------------
KJ078648.atp6-p                   -----------------------------------------------
MZ202552.atp6                     ------------------------------------GCCTT-TAA-
MN127982.atp6                     TCCTTTTCTCGGGGATACCTCCCCTCGATCAGTTGTTGACGCCTTTCAGC
OK120846.atp6                     -----------------------------------------------
consensus
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                                 ........660.......670.......680.......690.......700
[A]IX-0944.atp6          --------TC------G-AATCAGC------TTTTTTTGGAAACCCCATT
[A]IX-0946.atp6          --------TC------G-AATCAGC------TTTTTTTGGAAACCCCATT
[A]IX-0957.atp6          --------TC------G-AATCAGC------TTTTTTTGGAAACCCCATT
[A]IX-0969.atp6          --------TC------G-AATCAGC------TTTTTTTGGAAACCCCATT
[A]IX-0976.atp6          --------TC------G-AATCAGC------TTTTTTTGGAAACCCCATT
[AB]SCAUP.atp6-1         --------TTTATCCAG-AATCTGCCTGGTGCCTACCCGGAAACCCCATT
[AB]SCAUP.atp6-2         --------TTTATCCAG-AATCTGCCTGGTGCCTACCCGGAAACCCCATT
[AB]Hoh501.atp6-1        --------TTTATCCAG-AATCTGCCTGGTGCCTACCCGGAAACCCCATT
[AB]Hoh501.atp6-2        --------TTTATCCAG-AATCTGCCTGGTGCCTACCCGGAAACCCCATT
[AB]DM4.atp6-1           --------TTTATCCAG-AATCTGCCTGGTGCCTACCCGGAAACCCCATT
[AB]DM4.atp6-2           --------TTTATCCAG-AATCTGCCTGGTGCCTACCCGGAAACCCCATT
[AB]Langdon.atp6-1       --------TTTATCCAG-AATCTGCCTGGTGCCTACCCGGAAACCCCATT
[AB]Langdon.atp6-2       --------TTTATCCAG-AATCTGCCTGGTGCCTACCCGGAAACCCCATT
[AB]81086A.atp6-1        --------TTTATCCAG-AATCTGCCTGGTGCCTACCCGGAAACCCCATT
[AB]81086A.atp6-2        --------TTTATCCAG-AATCTGCCTGGTGCCTACCCGGAAACCCCATT
[AB]KJ078649.atp6-1      --------TTTATCCAG-AATCTGCCTGGTGCCTACCCGGAAACCCCATT
[AB]KJ078649.atp6-2      --------TTTATCCAG-AATCTGCCTGGTGCCTACCCGGAAACCCCATT
[ABD]Lumai1.atp6-1       --------TTTATCCAG-AATCTGCCTGGTGCCTACCCGGAAACCCCATT
[ABD]Lumai1.atp6-2       --------TTTATCCAG-AATCTGCCTGGTGCCTACCCGGAAACCCCATT
[ABD]Kenong9204.atp6-1   --------TTTATCCAG-AATCTGCCTGGTGCCTACCCGGAAACCCCATT
[ABD]Kenong9204.atp6-2   --------TTTATCCAG-AATCTGCCTGGTGCCTACCCGGAAACCCCATT
[ABD]AK58.atp6-1         --------TTTATCCAG-AATCTGCCTGGTGCCTACCCGGAAACCCCATT
[ABD]AK58.atp6-2         --------TTTATCCAG-AATCTGCCTGGTGCCTACCCGGAAACCCCATT
[ABD]AP008982.atp6-1     --------TTTATCCAG-AATCTGCCTGGTGCCTACCCGGAAACCCCATT
[ABD]AP008982.atp6-2     --------TTTATCCAG-AATCTGCCTGGTGCCTACCCGGAAACCCCATT
[ABD]NC_036024.atp6-1    --------TTTATCCAG-AATCTGCCTGGTGCCTACCCGGAAACCCCATT
[ABD]NC_036024.atp6-2    --------TTTATCCAG-AATCTGCCTGGTGCCTACCCGGAAACCCCATT
[ABD]MH051716.atp6-1     --------TTTATCCAG-AATCTGCCTGGTGCCTACCCGGAAACCCCATT
[ABD]MH051716.atp6-2     --------TTTATCCAG-AATCTGCCTGGTGCCTACCCGGAAACCCCATT
[S]AP013107.atp6         --------CC------G-AATCAGC------TTTTTTTGGAAACCCCATT
[AG]AP013106.atp6        --------TTTATCCAG-AATCTGCCTGGTGCCTACCCGGAAACCCCATT
[D]Clae23.atp6           --------CC------G-AATCAGC------TTTTTTTGGAAAACCCATT
[D]AL8/78.atp6           --------CC------G-AATCAGC------TTTTTTTGGAAAACCCATT
[D]SQ523.atp6            --------CC------G-AATCAGC------TTTTTTTGGAAAACCCATT
[D]Y199.atp6             --------CC------G-AATCAGC------TTTTTTTGGAAAACCCATT
[D]Kaifeng1.atp6         --------CC------G-AATCAGC------TTTTTTTGGAAAACCCATT
[CD]Jinan0529.atp6       --------CC------G-AATCAGC------TTTTTTTGGAAAACCCATT
KJ078648.atp6-p          --------CC------G-AATCAGC------T-TTTTGGAAAACCCATT
MZ202552.atp6            -----GATAG------GAGTGCAGA------ATTTACCCCAGAGCCCATT
MN127982.atp6            AGCCTGCTCC------G-AATCAGA------ATTTATTGGAGAACCCATT
OK120846.atp6            --------TTTATCCGG-AATCTGCCTGGTGCCTACCCTTCAACCCCATT
consensus                        tttatccaG aatCtGcctggtgccTacccggaaAcCCCATT
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                 ........710.......720.......730.......740.......750
[A]IX-0944.atp6         GGATCAATTTGTCATTTACCCAATAATTGATCTTCATGTGGGCAACTTTT
[A]IX-0946.atp6         GGATCAATTTGTCATTTACCCAATAATTGATCTTCATGTGGGCAACTTTT
[A]IX-0957.atp6         GGATCAATTTGTCATTTACCCAATAATTGATCTTCATGTGGGCAACTTTT
[A]IX-0969.atp6         GGATCAATTTGTCATTTACCCAATAATTGATCTTCATGTGGGCAACTTTT
[A]IX-0976.atp6         GGATCAATTTGTCATTTACCCAATAATTGATCTTCATGTGGGCAACTTTT
[AB]SCAUP.atp6-1        GGATCAATTTGCCATTATCCCAATAATTGATCTTCATGTGGGCAACTTTT
[AB]SCAUP.atp6-2        GGATCAATTTGCCATTATCCCAATAATTGATCTTCATGTGGGCAACTTTT
[AB]Hoh501.atp6-1       GGATCAATTTGCCATTATCCCAATAATTGATCTTCATGTGGGCAACTTTT
[AB]Hoh501.atp6-2       GGATCAATTTGCCATTATCCCAATAATTGATCTTCATGTGGGCAACTTTT
[AB]DM4.atp6-1          GGATCAATTTGCCATTATCCCAATAATTGATCTTCATGTGGGCAACTTTT
[AB]DM4.atp6-2          GGATCAATTTGCCATTATCCCAATAATTGATCTTCATGTGGGCAACTTTT
[AB]Langdon.atp6-1      GGATCAATTTGCCATTATCCCAATAATTGATCTTCATGTGGGCAACTTTT
[AB]Langdon.atp6-2      GGATCAATTTGCCATTATCCCAATAATTGATCTTCATGTGGGCAACTTTT
[AB]81086A.atp6-1       GGATCAATTTGCCATTATCCCAATAATTGATCTTCATGTGGGCAACTTTT
[AB]81086A.atp6-2       GGATCAATTTGCCATTATCCCAATAATTGATCTTCATGTGGGCAACTTTT
[AB]KJ078649.atp6-1     GGATCAATTTGCCATTATCCCAATAATTGATCTTCATGTGGGCAACTTTT
[AB]KJ078649.atp6-2     GGATCAATTTGCCATTATCCCAATAATTGATCTTCATGTGGGCAACTTTT
[ABD]Lumai1.atp6-1      GGATCAATTTGCCATTATCCCAATAATTGATCTTCATGTGGGCAACTTTT
[ABD]Lumai1.atp6-2      GGATCAATTTGCCATTATCCCAATAATTGATCTTCATGTGGGCAACTTTT
[ABD]Kenong9204.atp6-1  GGATCAATTTGCCATTATCCCAATAATTGATCTTCATGTGGGCAACTTTT
[ABD]Kenong9204.atp6-2  GGATCAATTTGCCATTATCCCAATAATTGATCTTCATGTGGGCAACTTTT
[ABD]AK58.atp6-1        GGATCAATTTGCCATTATCCCAATAATTGATCTTCATGTGGGCAACTTTT
[ABD]AK58.atp6-2        GGATCAATTTGCCATTATCCCAATAATTGATCTTCATGTGGGCAACTTTT
[ABD]AP008982.atp6-1    GGATCAATTTGCCATTATCCCAATAATTGATCTTCATGTGGGCAACTTTT
[ABD]AP008982.atp6-2    GGATCAATTTGCCATTATCCCAATAATTGATCTTCATGTGGGCAACTTTT
[ABD]NC_036024.atp6-1   GGATCAATTTGCCATTATCCCAATAATTGATCTTCATGTGGGCAACTTTT
[ABD]NC_036024.atp6-2   GGATCAATTTGCCATTATCCCAATAATTGATCTTCATGTGGGCAACTTTT
[ABD]MH051716.atp6-1    GGATCAATTTGCCATTATCCCAATAATTGATCTTCATGTGGGCAACTTTT
[ABD]MH051716.atp6-2    GGATCAATTTGCCATTATCCCAATAATTGATCTTCATGTGGGCAACTTTT
[S]AP013107.atp6        GGATCAATTTGCCATTATCCCAATAATTGATCTTCATGTGGGCAACTTTT
[AG]AP013106.atp6       GGATCAATTTGCCATTATCCCAATAATTGATCTTCATGTGGGCAACTTTT
[D]Clae23.atp6          GGATCAATTTGCCATTTACCCAATAATTGATCTTCATGTGGGCAACTTTT
[D]AL8/78.atp6          GGATCAATTTGCCATTTACCCAATAATTGATCTTCATGTGGGCAACTTTT
[D]SQ523.atp6           GGATCAATTTGCCATTTACCCAATAATTGATCTTCATGTGGGCAACTTTT
[D]Y199.atp6            GGATCAATTTGCCATTTACCCAATAATTGATCTTCATGTGGGCAACTTTT
[D]Kaifeng1.atp6        GGATCAATTTGCCATTTACCCAATAATTGATCTTCATGTGGGCAACTTTT
[CD]Jinan0529.atp6      GGATCAATTTGCCATTTACCCAATAATTGATCTTCATGTGGGCAACTTTT
KJ078648.atp6-p         GGATCAATTTGCCATTTACCCAATAATTGATCTTCATGTGGGCAACTTTT
MZ202552.atp6           GGATCAATTTGCCATTTACCCAATAATTGATCTTCATGTGGGCAACTATT
MN127982.atp6           GGATCAATTTACCATTCAGCCAATAATTGATCTGAATGTGGGCAACTATT
OK120846.atp6           GGATCAATTTGCCATTTACCCAATAATTGATCTTCATGTGGGCAACTTTT
consensus               GGATCAATTTgcCATTatcCCAATAATTGATCTtcATGTGGGCAACTtTT
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                              ........760.......770.......780.......790.......800
[A]IX-0944.atp6               ATTTTACATTTACAATTTCAGTCTTGTATATGCTGCTCACTGTCGTTTTG
[A]IX-0946.atp6               ATTTTACATTTACAATTTCAGTCTTGTATATGCTGCTCACTGTCGTTTTG
[A]IX-0957.atp6               ATTTTACATTTACAATTTCAGTCTTGTATATGCTGCTCACTGTCGTTTTG
[A]IX-0969.atp6               ATTTTACATTTACAATTTCAGTCTTGTATATGCTGCTCACTGTCGTTTTG
[A]IX-0976.atp6               ATTTTACATTTACAATTTCAGTCTTGTATATGCTGCTCACTGTCGTTTTG
[AB]SCAUP.atp6-1              ATTTATCATTTACAAATGAAGTCTTGTATATGCTGCTCACTGTCGTTTTG
[AB]SCAUP.atp6-2              ATTTATCATTTACAAATGAAGTCTTGTATATGCTGCTCACTGTCGTTTTG
[AB]Hoh501.atp6-1            ATTTATCATTTACAAATGAAGTCTTGTATATGCTGCTCACTGTCGTTTTG
[AB]Hoh501.atp6-2            ATTTATCATTTACAAATGAAGTCTTGTATATGCTGCTCACTGTCGTTTTG
[AB]DM4.atp6-1               ATTTATCATTTACAAATGAAGTCTTGTATATGCTGCTCACTGTCGTTTTG
[AB]DM4.atp6-2               ATTTATCATTTACAAATGAAGTCTTGTATATGCTGCTCACTGTCGTTTTG
[AB]Langdon.atp6-1          ATTTATCATTTACAAATGAAGTCTTGTATATGCTGCTCACTGTCGTTTTG
[AB]Langdon.atp6-2          ATTTATCATTTACAAATGAAGTCTTGTATATGCTGCTCACTGTCGTTTTG
[AB]81086A.atp6-1           ATTTATCATTTACAAATGAAGTCTTGTATATGCTGCTCACTGTCGTTTTG
[AB]81086A.atp6-2           ATTTATCATTTACAAATGAAGTCTTGTATATGCTGCTCACTGTCGTTTTG
[AB]KJ078649.atp6-1         ATTTATCATTTACAAATGAAGTCTTGTATATGCTGCTCACTGTCGTTTTG
[AB]KJ078649.atp6-2         ATTTATCATTTACAAATGAAGTCTTGTATATGCTGCTCACTGTCGTTTTG
[ABD]Lumai1.atp6-1          ATTTATCATTTACAAATGAAGTCTTGTATATGCTGCTCACTGTCGTTTTG
[ABD]Lumai1.atp6-2          ATTTATCATTTACAAATGAAGTCTTGTATATGCTGCTCACTGTCGTTTTG
[ABD]Kenong9204.atp6-1      ATTTATCATTTACAAATGAAGTCTTGTATATGCTGCTCACTGTCGTTTTG
[ABD]Kenong9204.atp6-2      ATTTATCATTTACAAATGAAGTCTTGTATATGCTGCTCACTGTCGTTTTG
[ABD]AK58.atp6-1            ATTTATCATTTACAAATGAAGTCTTGTATATGCTGCTCACTGTCGTTTTG
[ABD]AK58.atp6-2            ATTTATCATTTACAAATGAAGTCTTGTATATGCTGCTCACTGTCGTTTTG
[ABD]AP008982.atp6-1        ATTTATCATTTACAAATGAAGTCTTGTATATGCTGCTCACTGTCGTTTTG
[ABD]AP008982.atp6-2        ATTTATCATTTACAAATGAAGTCTTGTATATGCTGCTCACTGTCGTTTTG
[ABD]NC_036024.atp6-1       ATTTATCATTTACAAATGAAGTCTTGTATATGCTGCTCACTGTCGTTTTG
[ABD]NC_036024.atp6-2       ATTTATCATTTACAAATGAAGTCTTGTATATGCTGCTCACTGTCGTTTTG
[ABD]MH051716.atp6-1        ATTTATCATTTACAAATGAAGTCTTGTATATGCTGCTCACTGTCGTTTTG
[ABD]MH051716.atp6-2        ATTTATCATTTACAAATGAAGTCTTGTATATGCTGCTCACTGTCGTTTTG
[S]AP013107.atp6            ATTTTACATTTACAAATGCAGTCTTGTATATGCTGCTCACTGTCGTTTTG
[AG]AP013106.atp6           ATTTATCATTTACAAATGAAGTCTTGTATATGCTGCTCACTGTCGTTTTG
[D]Clae23.atp6              ATTTTACATTTACAAATGCAGTCTTGTATATGCTGCTCACTGTCGTTTTG
[D]AL8/78.atp6              ATTTTACATTTACAAATGCAGTCTTGTATATGCTGCTCACTGTCGTTTTG
[D]SQ523.atp6               ATTTTACATTTACAAATGCAGTCTTGTATATGCTGCTCACTGTCGTTTTG
[D]Y199.atp6                ATTTTACATTTACAAATGCAGTCTTGTATATGCTGCTCACTGTCGTTTTG
[D]Kaifeng1.atp6            ATTTTACATTTACAAATGCAGTCTTGTATATGCTGCTCACTGTCGTTTTG
[CD]Jinan0529.atp6          ATTTTACATTTACAAATGCAGTCTTGTATATGCTGCTCACTGTCGTTTTG
KJ078648.atp6-p             ATTTTACATTTACAAATGCAGTCTTGTATATGCTGCTCACTGTCGTTTTG
MZ202552.atp6               ATTTGTCATTTACAAATATAGCCTTGTATATGCTGCTCACTGTCGTTTTG
MN127982.atp6               ATTTATCATTTACAAATCAGTCCTTGTATATGCTGCTCACTGTCGTTTTG
OK120846.atp6              ATTTCTCATTTACAAATGCAGTCTTGTATATGCTGCTCACTGTCGTTTTG
consensus                  ATTTatCATTTACAAaTgaagtCTTGTATATGCTGCTCACTGTCGTTTTG
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                              .......810.......820.......830.......840.......850
[A]IX-0944.atp6               GTCGTTTTTCTTTTTTTTTGTTGTTACGAAAAAGGGAGGTGGAAAGTCAGT
[A]IX-0946.atp6               GTCGTTTTTCTTTTTTTTTGTTGTTACGAAAAAGGGAGGTGGAAAGTCAGT
[A]IX-0957.atp6               GTCGTTTTTCTTTTTTTTTGTTGTTACGAAAAAGGGAGGTGGAAAGTCAGT
[A]IX-0969.atp6               GTCGTTTTTCTTTTTTTTTGTTGTTACGAAAAAGGGAGGTGGAAAGTCAGT
[A]IX-0976.atp6               GTCGTTTTTCTTTTTTTTTGTTGTTACGAAAAAGGGAGGTGGAAAGTCAGT
[AB]SCAUP.atp6-1              GTCGTTTTTCTTTTTTTTTGTTGTTACGAAAAAGGGAGGTGGAAAGTCAGT
[AB]SCAUP.atp6-2              GTCGTTTTTCTTTTTTTTTGTTGTTACGAAAAAGGGAGGTGGAAAGTCAGT
[AB]Hoh501.atp6-1             GTCGTTTTTCTTTTTTTTTGTTGTTACGAAAAAGGGAGGTGGAAAGTCAGT
[AB]Hoh501.atp6-2             GTCGTTTTTCTTTTTTTTTGTTGTTACGAAAAAGGGAGGTGGAAAGTCAGT
[AB]DM4.atp6-1                GTCGTTTTTCTTTTTTTTTGTTGTTACGAAAAAGGGAGGTGGAAAGTCAGT
[AB]DM4.atp6-2                GTCGTTTTTCTTTTTTTTTGTTGTTACGAAAAAGGGAGGTGGAAAGTCAGT
[AB]Langdon.atp6-1            GTCGTTTTTCTTTTTTTTTGTTGTTACGAAAAAGGGAGGTGGAAAGTCAGT
[AB]Langdon.atp6-2            GTCGTTTTTCTTTTTTTTTGTTGTTACGAAAAAGGGAGGTGGAAAGTCAGT
[AB]81086A.atp6-1             GTCGTTTTTCTTTTTTTTTGTTGTTACGAAAAAGGGAGGTGGAAAGTCAGT
[AB]81086A.atp6-2             GTCGTTTTTCTTTTTTTTTGTTGTTACGAAAAAGGGAGGTGGAAAGTCAGT
[AB]KJ078649.atp6-1           GTCGTTTTTCTTTTTTTTTGTTGTTACGAAAAAGGGAGGTGGAAAGTCAGT
[AB]KJ078649.atp6-2           GTCGTTTTTCTTTTTTTTTGTTGTTACGAAAAAGGGAGGTGGAAAGTCAGT
[ABD]Lumai1.atp6-1            GTCGTTTTTCTTTTTTTTTGTTGTTACGAAAAAGGGAGGTGGAAAGTCAGT
[ABD]Lumai1.atp6-2            GTCGTTTTTCTTTTTTTTTGTTGTTACGAAAAAGGGAGGTGGAAAGTCAGT
[ABD]Kenong9204.atp6-1        GTCGTTTTTCTTTTTTTTTGTTGTTACGAAAAAGGGAGGTGGAAAGTCAGT
[ABD]Kenong9204.atp6-2        GTCGTTTTTCTTTTTTTTTGTTGTTACGAAAAAGGGAGGTGGAAAGTCAGT
[ABD]AK58.atp6-1              GTCGTTTTTCTTTTTTTTTGTTGTTACGAAAAAGGGAGGTGGAAAGTCAGT
[ABD]AK58.atp6-2              GTCGTTTTTCTTTTTTTTTGTTGTTACGAAAAAGGGAGGTGGAAAGTCAGT
[ABD]AP008982.atp6-1          GTCGTTTTTCTTTTTTTTTGTTGTTACGAAAAAGGGAGGTGGAAAGTCAGT
[ABD]AP008982.atp6-2          GTCGTTTTTCTTTTTTTTTGTTGTTACGAAAAAGGGAGGTGGAAAGTCAGT
[ABD]NC_036024.atp6-1         GTCGTTTTTCTTTTTTTTTGTTGTTACGAAAAAGGGAGGTGGAAAGTCAGT
[ABD]NC_036024.atp6-2         GTCGTTTTTCTTTTTTTTTGTTGTTACGAAAAAGGGAGGTGGAAAGTCAGT
[ABD]MH051716.atp6-1          GTCGTTTTTCTTTTTTTTTGTTGTTACGAAAAAGGGAGGTGGAAAGTCAGT
[ABD]MH051716.atp6-2          GTCGTTTTTCTTTTTTTTTGTTGTTACGAAAAAGGGAGGTGGAAAGTCAGT
[S]AP013107.atp6              GTCGTTTTTCTTTTTTTTTGTTGTTACGAAAAAGGGAGGTGGAAAGTCAGT
[AG]AP013106.atp6             GTCGTTTTTCTTTTTTTTTGTTGTTACGAAAAAGGGAGGTGGAAAGTCAGT
[D]Clae23.atp6                GTCGTTTTTCTGTTTTTTGTTGTTACGAAAAAGGGAGGTGGAAGTCAGT
[D]AL8/78.atp6                GTCGTTTTTCTGTTTTTTGTTGTTACGAAAAAGGGAGGTGGAAGTCAGT
[D]SQ523.atp6                 GTCGTTTTTCTGTTTTTTGTTGTTACGAAAAAGGGAGGTGGAAGTCAGT
[D]Y199.atp6                  GTCGTTTTTCTGTTTTTTGTTGTTACGAAAAAGGGAGGTGGAAGTCAGT
[D]Kaifeng1.atp6              GTCGTTTTTCTGTTTTTTGTTGTTACGAAAAAGGGAGGTGGAAGTCAGT
[CD]Jinan0529.atp6            GTCGTTTTTCTGTTTTTTGTTGTTACGAAAAAGGGAGGTGGAAGTCAGT
KJ078648.atp6-p               GTCGTTTTTCTGTTTTTTGTTGTTACGAAAAAGGGAGGTGGAAGTCAGT
MZ202552.atp6                 GTCGTTTTTCTGTTTTTTGTTGTTACGAAAAAGGGAGGTGGAAGTCAGT
MN127982.atp6                 GTCGTTTTTCTGTTTTTTGTTGTTACGAAAAAGGGAGGTGGAAGTCAGT
OK120846.atp6                 GTCGTTTTTCTGTTTTTTGTTGTTACGAAAAAGGGAGGTGGAAGTCAGT
consensus                    GTCGTTTTTCTtTTTTTTGTTGTTACGAAAAAGGGAGGTGGAAAGTCAGT
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[A]IX-0944.atp6              GCCAAATGCATGGCAATCCTTGGTCGAGCTTATTTATGATTTCGTGCTGA
[A]IX-0946.atp6              GCCAAATGCATGGCAATCCTTGGTCGAGCTTATTTATGATTTCGTGCTGA
[A]IX-0957.atp6              GCCAAATGCATGGCAATCCTTGGTCGAGCTTATTTATGATTTCGTGCTGA
[A]IX-0969.atp6              GCCAAATGCATGGCAATCCTTGGTCGAGCTTATTTATGATTTCGTGCTGA
[A]IX-0976.atp6              GCCAAATGCATGGCAATCCTTGGTCGAGCTTATTTATGATTTCGTGCTGA
[AB]SCAUP.atp6-1             GCCAAATGCATGGCAATCCTTGGTCGAGCTTATTTATGATTTCGTGCTGA
[AB]SCAUP.atp6-2             GCCAAATGCATGGCAATCCTTGGTCGAGCTTATTTATGATTTCGTGCTGA
[AB]Hoh501.atp6-1           GCCAAATGCATGGCAATCCTTGGTCGAGCTTATTTATGATTTCGTGCTGA
[AB]Hoh501.atp6-2           GCCAAATGCATGGCAATCCTTGGTCGAGCTTATTTATGATTTCGTGCTGA
[AB]DM4.atp6-1              GCCAAATGCATGGCAATCCTTGGTCGAGCTTATTTATGATTTCGTGCTGA
[AB]DM4.atp6-2              GCCAAATGCATGGCAATCCTTGGTCGAGCTTATTTATGATTTCGTGCTGA
[AB]Langdon.atp6-1          GCCAAATGCATGGCAATCCTTGGTCGAGCTTATTTATGATTTCGTGCTGA
[AB]Langdon.atp6-2          GCCAAATGCATGGCAATCCTTGGTCGAGCTTATTTATGATTTCGTGCTGA
[AB]81086A.atp6-1           GCCAAATGCATGGCAATCCTTGGTCGAGCTTATTTATGATTTCGTGCTGA
[AB]81086A.atp6-2           GCCAAATGCATGGCAATCCTTGGTCGAGCTTATTTATGATTTCGTGCTGA
[AB]KJ078649.atp6-1         GCCAAATGCATGGCAATCCTTGGTCGAGCTTATTTATGATTTCGTGCTGA
[AB]KJ078649.atp6-2         GCCAAATGCATGGCAATCCTTGGTCGAGCTTATTTATGATTTCGTGCTGA
[ABD]Lumai1.atp6-1          GCCAAATGCATGGCAATCCTTGGTCGAGCTTATTTATGATTTCGTGCTGA
[ABD]Lumai1.atp6-2          GCCAAATGCATGGCAATCCTTGGTCGAGCTTATTTATGATTTCGTGCTGA
[ABD]Kenong9204.atp6-1      GCCAAATGCATGGCAATCCTTGGTCGAGCTTATTTATGATTTCGTGCTGA
[ABD]Kenong9204.atp6-2      GCCAAATGCATGGCAATCCTTGGTCGAGCTTATTTATGATTTCGTGCTGA
[ABD]AK58.atp6-1            GCCAAATGCATGGCAATCCTTGGTCGAGCTTATTTATGATTTCGTGCTGA
[ABD]AK58.atp6-2            GCCAAATGCATGGCAATCCTTGGTCGAGCTTATTTATGATTTCGTGCTGA
[ABD]AP008982.atp6-1        GCCAAATGCATGGCAATCCTTGGTCGAGCTTATTTATGATTTCGTGCTGA
[ABD]AP008982.atp6-2        GCCAAATGCATGGCAATCCTTGGTCGAGCTTATTTATGATTTCGTGCTGA
[ABD]NC_036024.atp6-1       GCCAAATGCATGGCAATCCTTGGTCGAGCTTATTTATGATTTCGTGCTGA
[ABD]NC_036024.atp6-2       GCCAAATGCATGGCAATCCTTGGTCGAGCTTATTTATGATTTCGTGCTGA
[ABD]MH051716.atp6-1        GCCAAATGCATGGCAATCCTTGGTCGAGCTTATTTATGATTTCGTGCTGA
[ABD]MH051716.atp6-2        GCCAAATGCATGGCAATCCTTGGTCGAGCTTATTTATGATTTCGTGCTGA
[S]AP013107.atp6            GCCAAATGCATGGCAATCCTTGGTCGAGCTTATTTATGATTTCGTGCTGA
[AG]AP013106.atp6           GCCAAATGCATGGCAATCCTTGGTCGAGCTTATTTATGATTTCGTGCTGA
[D]Clae23.atp6              GCCAAATGCATGGCAATCCTTGGTCGAGCTTATTTATGATTTCGTGCTGA
[D]AL8/78.atp6              GCCAAATGCATGGCAATCCTTGGTCGAGCTTATTTATGATTTCGTGCTGA
[D]SQ523.atp6               GCCAAATGCATGGCAATCCTTGGTCGAGCTTATTTATGATTTCGTGCTGA
[D]Y199.atp6                GCCAAATGCATGGCAATCCTTGGTCGAGCTTATTTATGATTTCGTGCTGA
[D]Kaifeng1.atp6            GCCAAATGCATGGCAATCCTTGGTCGAGCTTATTTATGATTTCGTGCTGA
[CD]Jinan0529.atp6          GCCAAATGCATGGCAATCCTTGGTCGAGCTTATTTATGATTTCGTGCTGA
KJ078648.atp6-p             GCCAAATGCATGGCAATCCTTGGTCGAGCTTATTTATGATTTCGTGCTGA
MZ202552.atp6               GCCAAATGCATGGCAATCCTTGGTCGAGCTTATTTATGATTTCGTGCTGA
MN127982.atp6               GCCAAATGCATGGCAATCCTTGGTCGAGCTTATTTATGATTTCGTGCTGA
OK120846.atp6               GCCAAATGCATGGCAATCCTTGGTCGAGCTTATTTATGATTTCGTGCTGA
consensus                   GCCAAATGCATGGCAATCCTTGGTCGAGCTTATTTATGATTTCGTGCTGA
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[A]IX-0946.atp6            ACCTGGTAAACGAACAAATAGGTGGTCTTTCCGGAAATGTGAAACAAAAG
[A]IX-0957.atp6           ACCTGGTAAACGAACAAATAGGTGGTCTTTCCGGAAATGTGAAACAAAAG
[A]IX-0969.atp6           ACCTGGTAAACGAACAAATAGGTGGTCTTTCCGGAAATGTGAAACAAAAG
[A]IX-0976.atp6           ACCTGGTAAACGAACAAATAGGTGGTCTTTCCGGAAATGTGAAACAAAAG
[AB]SCAUP.atp6-1          ACCTGGTAAACGAACAAATAGGTGGTCTTTCCGGAAATGTGAAACAAAAG
[AB]SCAUP.atp6-2          ACCTGGTAAACGAACAAATAGGTGGTCTTTCCGGAAATGTGAAACAAAAG
[AB]Hoh501.atp6-1         ACCTGGTAAACGAACAAATAGGTGGTCTTTCCGGAAATGTGAAACAAAAG
[AB]Hoh501.atp6-2         ACCTGGTAAACGAACAAATAGGTGGTCTTTCCGGAAATGTGAAACAAAAG
[AB]DM4.atp6-1            ACCTGGTAAACGAACAAATAGGTGGTCTTTCCGGAAATGTGAAACAAAAG
[AB]DM4.atp6-2            ACCTGGTAAACGAACAAATAGGTGGTCTTTCCGGAAATGTGAAACAAAAG
[AB]Langdon.atp6-1        ACCTGGTAAACGAACAAATAGGTGGTCTTTCCGGAAATGTGAAACAAAAG
[AB]Langdon.atp6-2        ACCTGGTAAACGAACAAATAGGTGGTCTTTCCGGAAATGTGAAACAAAAG
[AB]81086A.atp6-1         ACCTGGTAAACGAACAAATAGGTGGTCTTTCCGGAAATGTGAAACAAAAG
[AB]81086A.atp6-2         ACCTGGTAAACGAACAAATAGGTGGTCTTTCCGGAAATGTGAAACAAAAG
[AB]KJ078649.atp6-1       ACCTGGTAAACGAACAAATAGGTGGTCTTTCCGGAAATGTGAAACAAAAG
[AB]KJ078649.atp6-2       ACCTGGTAAACGAACAAATAGGTGGTCTTTCCGGAAATGTGAAACAAAAG
[ABD]Lumai1.atp6-1        ACCTGGTAAACGAACAAATAGGTGGTCTTTCCGGAAATGTGAAACAAAAG
[ABD]Lumai1.atp6-2        ACCTGGTAAACGAACAAATAGGTGGTCTTTCCGGAAATGTGAAACAAAAG
[ABD]Kenong9204.atp6-1    ACCTGGTAAACGAACAAATAGGTGGTCTTTCCGGAAATGTGAAACAAAAG
[ABD]Kenong9204.atp6-2    ACCTGGTAAACGAACAAATAGGTGGTCTTTCCGGAAATGTGAAACAAAAG
[ABD]AK58.atp6-1          ACCTGGTAAACGAACAAATAGGTGGTCTTTCCGGAAATGTGAAACAAAAG
[ABD]AK58.atp6-2          ACCTGGTAAACGAACAAATAGGTGGTCTTTCCGGAAATGTGAAACAAAAG
[ABD]AP008982.atp6-1      ACCTGGTAAACGAACAAATAGGTGGTCTTTCCGGAAATGTGAAACAAAAG
[ABD]AP008982.atp6-2      ACCTGGTAAACGAACAAATAGGTGGTCTTTCCGGAAATGTGAAACAAAAG
[ABD]NC_036024.atp6-1     ACCTGGTAAACGAACAAATAGGTGGTCTTTCCGGAAATGTGAAACAAAAG
[ABD]NC_036024.atp6-2     ACCTGGTAAACGAACAAATAGGTGGTCTTTCCGGAAATGTGAAACAAAAG
[ABD]MH051716.atp6-1      ACCTGGTAAACGAACAAATAGGTGGTCTTTCCGGAAATGTGAAACAAAAG
[ABD]MH051716.atp6-2      ACCTGGTAAACGAACAAATAGGTGGTCTTTCCGGAAATGTGAAACAAAAG
[S]AP013107.atp6          ACCTGGTAAACGAACAAATAGGTGGTCTTTCCGGAAATGTGAAACAAAAG
[AG]AP013106.atp6         ACCTGGTAAACGAACAAATAGGTGGTCTTTCCGGAAATGTGAAACAAAAG
[D]Clae23.atp6            ACCTGGTAAACGAACAAATAGGTGGTCTTTCCGGAAATGTGAAACAAAAG
[D]AL8/78.atp6            ACCTGGTAAACGAACAAATAGGTGGTCTTTCCGGAAATGTGAAACAAAAG
[D]SQ523.atp6             ACCTGGTAAACGAACAAATAGGTGGTCTTTCCGGAAATGTGAAACAAAAG
[D]Y199.atp6              ACCTGGTAAACGAACAAATAGGTGGTCTTTCCGGAAATGTGAAACAAAAG
[D]Kaifeng1.atp6          ACCTGGTAAACGAACAAATAGGTGGTCTTTCCGGAAATGTGAAACAAAAG
[CD]Jinan0529.atp6        ACCTGGTAAACGAACAAATAGGTGGTCTTTCCGGAAATGTGAAACAAAAG
KJ078648.atp6-p           ACCTGGTAAACGAACAAATAGGTGGTCTTTCCGGAAATGTGAAACAAAAG
MZ202552.atp6             ACCTGGTAAACGAACAAATAGGTGGTCTTTCCGGAAATGTGAAACAAAAG
MN127982.atp6             ACCTGGTAAACGAACAAATAGGTGGTCTTTCCGGAAATGTGAAACAAAAG
OK120846.atp6             ACCTGGTAAACGAACAAATAGGTGGTCTTTCCGGAAATGTGAAACAAAAG
consensus                 ACCTGGTAAACGAACAAATAGGTGGTCTTTCCGGAAATGTGAAACAAAAG
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[A]IX-0946.atp6             TTTTTCCCTCGCATCTCGGTCACTTTTACTTTTTCGTTATTTCGTAATCC
[A]IX-0957.atp6             TTTTTCCCTCGCATCTCGGTCACTTTTACTTTTTCGTTATTTCGTAATCC
[A]IX-0969.atp6             TTTTTCCCTCGCATCTCGGTCACTTTTACTTTTTCGTTATTTCGTAATCC
[A]IX-0976.atp6             TTTTTCCCTCGCATCTCGGTCACTTTTACTTTTTCGTTATTTCGTAATCC
[AB]SCAUP.atp6-1            TTTTTCCCTCGCATCTCGGTCACTTTTACTTTTTCGTTATTTCGTAATCC
[AB]SCAUP.atp6-2            TTTTTCCCTCGCATCTCGGTCACTTTTACTTTTTCGTTATTTCGTAATCC
[AB]Hoh501.atp6-1          TTTTTCCCTCGCATCTCGGTCACTTTTACTTTTTCGTTATTTCGTAATCC
[AB]Hoh501.atp6-2          TTTTTCCCTCGCATCTCGGTCACTTTTACTTTTTCGTTATTTCGTAATCC
[AB]DM4.atp6-1             TTTTTCCCTCGCATCTCGGTCACTTTTACTTTTTCGTTATTTCGTAATCC
[AB]DM4.atp6-2             TTTTTCCCTCGCATCTCGGTCACTTTTACTTTTTCGTTATTTCGTAATCC
[AB]Langdon.atp6-1         TTTTTCCCTCGCATCTCGGTCACTTTTACTTTTTCGTTATTTCGTAATCC
[AB]Langdon.atp6-2         TTTTTCCCTCGCATCTCGGTCACTTTTACTTTTTCGTTATTTCGTAATCC
[AB]81086A.atp6-1          TTTTTCCCTCGCATCTCGGTCACTTTTACTTTTTCGTTATTTCGTAATCC
[AB]81086A.atp6-2          TTTTTCCCTCGCATCTCGGTCACTTTTACTTTTTCGTTATTTCGTAATCC
[AB]KJ078649.atp6-1        TTTTTCCCTCGCATCTCGGTCACTTTTACTTTTTCGTTATTTCGTAATCC
[AB]KJ078649.atp6-2        TTTTTCCCTCGCATCTCGGTCACTTTTACTTTTTCGTTATTTCGTAATCC
[ABD]Lumai1.atp6-1         TTTTTCCCTCGCATCTCGGTCACTTTTACTTTTTCGTTATTTCGTAATCC
[ABD]Lumai1.atp6-2         TTTTTCCCTCGCATCTCGGTCACTTTTACTTTTTCGTTATTTCGTAATCC
[ABD]Kenong9204.atp6-1     TTTTTCCCTCGCATCTCGGTCACTTTTACTTTTTCGTTATTTCGTAATCC
[ABD]Kenong9204.atp6-2     TTTTTCCCTCGCATCTCGGTCACTTTTACTTTTTCGTTATTTCGTAATCC
[ABD]AK58.atp6-1           TTTTTCCCTCGCATCTCGGTCACTTTTACTTTTTCGTTATTTCGTAATCC
[ABD]AK58.atp6-2           TTTTTCCCTCGCATCTCGGTCACTTTTACTTTTTCGTTATTTCGTAATCC
[ABD]AP008982.atp6-1       TTTTTCCCTCGCATCTCGGTCACTTTTACTTTTTCGTTATTTCGTAATCC
[ABD]AP008982.atp6-2       TTTTTCCCTCGCATCTCGGTCACTTTTACTTTTTCGTTATTTCGTAATCC
[ABD]NC_036024.atp6-1      TTTTTCCCTCGCATCTCGGTCACTTTTACTTTTTCGTTATTTCGTAATCC
[ABD]NC_036024.atp6-2      TTTTTCCCTCGCATCTCGGTCACTTTTACTTTTTCGTTATTTCGTAATCC
[ABD]MH051716.atp6-1       TTTTTCCCTCGCATCTCGGTCACTTTTACTTTTTCGTTATTTCGTAATCC
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[S]AP013107.atp6           TTTTTCCCTCGCATCTCGGTCACTTTTACTTTTTCGTTATTTCGTAATCC
[AG]AP013106.atp6          TTTTTCCCTCGCATCTCGGTCACTTTTACTTTTTCGTTATTTCGTAATCC
[D]Clae23.atp6             TTTTTCCCTCGCATCTCGGTCACTTTTACTTTTTCGTTATTTCGTAATCC
[D]AL8/78.atp6             TTTTTCCCTCGCATCTCGGTCACTTTTACTTTTTCGTTATTTCGTAATCC
[D]SQ523.atp6              TTTTTCCCTCGCATCTCGGTCACTTTTACTTTTTCGTTATTTCGTAATCC
[D]Y199.atp6               TTTTTCCCTCGCATCTCGGTCACTTTTACTTTTTCGTTATTTCGTAATCC
[D]Kaifeng1.atp6           TTTTTCCCTCGCATCTCGGTCACTTTTACTTTTTCGTTATTTCGTAATCC
[CD]Jinan0529.atp6         TTTTTCCCTCGCATCTCGGTCACTTTTACTTTTTCGTTATTTCGTAATCC
KJ078648.atp6-p            TTTTTCCCTCGCATCTCGGTCACTTTTACTTTTTCGTTATTTCGTAATCC
MZ202552.atp6              TTTTTCCCTCGCATCTCGGTCACTTTTACTTTTTCGTTATTTCGTAATCC
MN127982.atp6              TTTTTCCCTCGCATCTCGGTCACTTTTACTTTTTCGTTATTTCGTAATCC
OK120846.atp6              TTTTTCCCTCGCATCTCGGTCACTTTTACTTTTTCGTTATTTCGTAATCC
consensus                  TTTTTCCCTCGCATCTCGGTCACTTTTACTTTTTCGTTATTTCGTAATCC
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[A]IX-0946.atp6         CCAGGGTATGATACCCTTTAGCTTCACAGTGACAAGTCATTTTCTCATTA
[A]IX-0957.atp6         CCAGGGTATGATACCCTTTAGCTTCACAGTGACAAGTCATTTTCTCATTA
[A]IX-0969.atp6         CCAGGGTATGATACCCTTTAGCTTCACAGTGACAAGTCATTTTCTCATTA
[A]IX-0976.atp6         CCAGGGTATGATACCCTTTAGCTTCACAGTGACAAGTCATTTTCTCATTA
[AB]SCAUP.atp6-1        CCAGGGTATGATACCCTTTAGCTTCACAGTGACAAGTCATTTTCTCATTA
[AB]SCAUP.atp6-2        CCAGGGTATGATACCCTTTAGCTTCACAGTGACAAGTCATTTTCTCATTA
[AB]Hoh501.atp6-1       CCAGGGTATGATACCCTTTAGCTTCACAGTGACAAGTCATTTTCTCATTA
[AB]Hoh501.atp6-2       CCAGGGTATGATACCCTTTAGCTTCACAGTGACAAGTCATTTTCTCATTA
[AB]DM4.atp6-1          CCAGGGTATGATACCCTTTAGCTTCACAGTGACAAGTCATTTTCTCATTA
[AB]DM4.atp6-2          CCAGGGTATGATACCCTTTAGCTTCACAGTGACAAGTCATTTTCTCATTA
[AB]Langdon.atp6-1      CCAGGGTATGATACCCTTTAGCTTCACAGTGACAAGTCATTTTCTCATTA
[AB]Langdon.atp6-2      CCAGGGTATGATACCCTTTAGCTTCACAGTGACAAGTCATTTTCTCATTA
[AB]81086A.atp6-1       CCAGGGTATGATACCCTTTAGCTTCACAGTGACAAGTCATTTTCTCATTA
[AB]81086A.atp6-2       CCAGGGTATGATACCCTTTAGCTTCACAGTGACAAGTCATTTTCTCATTA
[AB]KJ078649.atp6-1     CCAGGGTATGATACCCTTTAGCTTCACAGTGACAAGTCATTTTCTCATTA
[AB]KJ078649.atp6-2     CCAGGGTATGATACCCTTTAGCTTCACAGTGACAAGTCATTTTCTCATTA
[ABD]Lumai1.atp6-1      CCAGGGTATGATACCCTTTAGCTTCACAGTGACAAGTCATTTTCTCATTA
[ABD]Lumai1.atp6-2      CCAGGGTATGATACCCTTTAGCTTCACAGTGACAAGTCATTTTCTCATTA
[ABD]Kenong9204.atp6-1  CCAGGGTATGATACCCTTTAGCTTCACAGTGACAAGTCATTTTCTCATTA
[ABD]Kenong9204.atp6-2  CCAGGGTATGATACCCTTTAGCTTCACAGTGACAAGTCATTTTCTCATTA
[ABD]AK58.atp6-1        CCAGGGTATGATACCCTTTAGCTTCACAGTGACAAGTCATTTTCTCATTA
[ABD]AK58.atp6-2        CCAGGGTATGATACCCTTTAGCTTCACAGTGACAAGTCATTTTCTCATTA
[ABD]AP008982.atp6-1    CCAGGGTATGATACCCTTTAGCTTCACAGTGACAAGTCATTTTCTCATTA
[ABD]AP008982.atp6-2    CCAGGGTATGATACCCTTTAGCTTCACAGTGACAAGTCATTTTCTCATTA
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[ABD]NC_036024.atp6-2   CCAGGGTATGATACCCTTTAGCTTCACAGTGACAAGTCATTTTCTCATTA
[ABD]MH051716.atp6-1    CCAGGGTATGATACCCTTTAGCTTCACAGTGACAAGTCATTTTCTCATTA
[ABD]MH051716.atp6-2    CCAGGGTATGATACCCTTTAGCTTCACAGTGACAAGTCATTTTCTCATTA
[S]AP013107.atp6        CCAGGGTATGATACCCTTTAGCTTCACAGTGACAAGTCATTTTCTCATTA
[AG]AP013106.atp6       CCAGGGTATGATACCCTTTAGCTTCACAGTGACAAGTCATTTTCTCATTA
[D]Clae23.atp6          CCAGGGTATGATACCCTTTAGCTTCACAGTGACAAGTCATTTTCTCATTA
[D]AL8/78.atp6          CCAGGGTATGATACCCTTTAGCTTCACAGTGACAAGTCATTTTCTCATTA
[D]SQ523.atp6           CCAGGGTATGATACCCTTTAGCTTCACAGTGACAAGTCATTTTCTCATTA
[D]Y199.atp6            CCAGGGTATGATACCCTTTAGCTTCACAGTGACAAGTCATTTTCTCATTA
[D]Kaifeng1.atp6        CCAGGGTATGATACCCTTTAGCTTCACAGTGACAAGTCATTTTCTCATTA
[CD]Jinan0529.atp6      CCAGGGTATGATACCCTTTAGCTTCACAGTGACAAGTCATTTTCTCATTA
KJ078648.atp6-p         CCAGGGTATGATACCCTTTAGCTTCACAGTGACAAGTCATTTTCTCATTA
MZ202552.atp6           CCAGGGTATGATACCCTTTAGCTTCACAGTGACAAGTCATTTTCTCATTA
MN127982.atp6           CCAGGGTATGATACCCTTTAGCTTCACAGTGACAAGTCATTTTCTCATTA
OK120846.atp6           CCAGGGTATGATACCCTTTAGCTTCACAGTGACAAGTCATTTTCTCATTA
consensus               CCAGGGTATGATACCCTTTAGCTTCACAGTGACAAGTCATTTTCTCATTA
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[A]IX-0946.atp6           CTTTGGCTCTTTCATTTTCCATTTTTATAGGCATTACGATCGTTGGATTT
[A]IX-0957.atp6           CTTTGGCTCTTTCATTTTCCATTTTTATAGGCATTACGATCGTTGGATTT
[A]IX-0969.atp6           CTTTGGCTCTTTCATTTTCCATTTTTATAGGCATTACGATCGTTGGATTT
[A]IX-0976.atp6           CTTTGGCTCTTTCATTTTCCATTTTTATAGGCATTACGATCGTTGGATTT
[AB]SCAUP.atp6-1          CTTTGGCTCTTTCATTTTCCATTTTTATAGGCATTACGATCGTTGGATTT
[AB]SCAUP.atp6-2          CTTTGGCTCTTTCATTTTCCATTTTTATAGGCATTACGATCGTTGGATTT
[AB]Hoh501.atp6-1         CTTTGGCTCTTTCATTTTCCATTTTTATAGGCATTACGATCGTTGGATTT
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[AB]DM4.atp6-1            CTTTGGCTCTTTCATTTTCCATTTTTATAGGCATTACGATCGTTGGATTT
[AB]DM4.atp6-2            CTTTGGCTCTTTCATTTTCCATTTTTATAGGCATTACGATCGTTGGATTT
[AB]Langdon.atp6-1        CTTTGGCTCTTTCATTTTCCATTTTTATAGGCATTACGATCGTTGGATTT
[AB]Langdon.atp6-2        CTTTGGCTCTTTCATTTTCCATTTTTATAGGCATTACGATCGTTGGATTT
[AB]81086A.atp6-1         CTTTGGCTCTTTCATTTTCCATTTTTATAGGCATTACGATCGTTGGATTT
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[ABD]Lumai1.atp6-1        CTTTGGCTCTTTCATTTTCCATTTTTATAGGCATTACGATCGTTGGATTT
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[ABD]AK58.atp6-1          CTTTGGCTCTTTCATTTTCCATTTTTATAGGCATTACGATCGTTGGATTT
[ABD]AK58.atp6-2          CTTTGGCTCTTTCATTTTCCATTTTTATAGGCATTACGATCGTTGGATTT
[ABD]AP008982.atp6-1      CTTTGGCTCTTTCATTTTCCATTTTTATAGGCATTACGATCGTTGGATTT
[ABD]AP008982.atp6-2      CTTTGGCTCTTTCATTTTCCATTTTTATAGGCATTACGATCGTTGGATTT
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[ABD]NC_036024.atp6-2     CTTTGGCTCTTTCATTTTCCATTTTTATAGGCATTACGATCGTTGGATTT
[ABD]MH051716.atp6-1      CTTTGGCTCTTTCATTTTCCATTTTTATAGGCATTACGATCGTTGGATTT
[ABD]MH051716.atp6-2      CTTTGGCTCTTTCATTTTCCATTTTTATAGGCATTACGATCGTTGGATTT
[S]AP013107.atp6          CTTTGGCTCTTTCATTTTCCATTTTTATAGGCATTACGATCGTTGGATTT
[AG]AP013106.atp6         CTTTGGCTCTTTCATTTTCCATTTTTATAGGCATTACGATCGTTGGATTT
[D]Clae23.atp6            CTTTGGCTCTTTCATTTTCCATTTTTATAGGCATTACGATCGTTGGATTT
[D]AL8/78.atp6            CTTTGGCTCTTTCATTTTCCATTTTTATAGGCATTACGATCGTTGGATTT
[D]SQ523.atp6             CTTTGGCTCTTTCATTTTCCATTTTTATAGGCATTACGATCGTTGGATTT
[D]Y199.atp6              CTTTGGCTCTTTCATTTTCCATTTTTATAGGCATTACGATCGTTGGATTT
[D]Kaifeng1.atp6          CTTTGGCTCTTTCATTTTCCATTTTTATAGGCATTACGATCGTTGGATTT
[CD]Jinan0529.atp6        CTTTGGCTCTTTCATTTTCCATTTTTATAGGCATTACGATCGTTGGATTT
KJ078648.atp6-p           CTTTGGCTCTTTCATTTTCCATTTTTATAGGCATTACGATCGTTGGATTT
MZ202552.atp6             CTTTGGCTCTTTCATTTTCCATTTTTATAGGCATTACGATCGTTGGATTT
MN127982.atp6             CTTTGGCTCTTTCATTTTCCATTTTTATAGGCATTACGATCGTTGGATTT
OK120846.atp6             CTTTGGCTCTTTCATTTTCCATTTTTATAGGCATTACGATCGTTGGATTT
consensus                 CTTTGGCTCTTTCATTTTCCATTTTTATAGGCATTACGATCGTTGGATTT
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[A]IX-0946.atp6           CAAAGACATGGGCTTCATTTTTTTAGCTTCTTATTACCTGCGGGAGTCCC
[A]IX-0957.atp6           CAAAGACATGGGCTTCATTTTTTTAGCTTCTTATTACCTGCGGGAGTCCC
[A]IX-0969.atp6           CAAAGACATGGGCTTCATTTTTTTAGCTTCTTATTACCTGCGGGAGTCCC
[A]IX-0976.atp6           CAAAGACATGGGCTTCATTTTTTTAGCTTCTTATTACCTGCGGGAGTCCC
[AB]SCAUP.atp6-1          CAAAGACATGGGCTTCATTTTTTTAGCTTCTTATTACCTGCGGGAGTCCC
[AB]SCAUP.atp6-2          CAAAGACATGGGCTTCATTTTTTTAGCTTCTTATTACCTGCGGGAGTCCC
[AB]Hoh501.atp6-1         CAAAGACATGGGCTTCATTTTTTTAGCTTCTTATTACCTGCGGGAGTCCC
[AB]Hoh501.atp6-2         CAAAGACATGGGCTTCATTTTTTTAGCTTCTTATTACCTGCGGGAGTCCC
[AB]DM4.atp6-1            CAAAGACATGGGCTTCATTTTTTTAGCTTCTTATTACCTGCGGGAGTCCC
[AB]DM4.atp6-2            CAAAGACATGGGCTTCATTTTTTTAGCTTCTTATTACCTGCGGGAGTCCC
[AB]Langdon.atp6-1        CAAAGACATGGGCTTCATTTTTTTAGCTTCTTATTACCTGCGGGAGTCCC
[AB]Langdon.atp6-2        CAAAGACATGGGCTTCATTTTTTTAGCTTCTTATTACCTGCGGGAGTCCC
[AB]81086A.atp6-1         CAAAGACATGGGCTTCATTTTTTTAGCTTCTTATTACCTGCGGGAGTCCC
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[AB]KJ078649.atp6-1       CAAAGACATGGGCTTCATTTTTTTAGCTTCTTATTACCTGCGGGAGTCCC
[AB]KJ078649.atp6-2       CAAAGACATGGGCTTCATTTTTTTAGCTTCTTATTACCTGCGGGAGTCCC
[ABD]Lumai1.atp6-1        CAAAGACATGGGCTTCATTTTTTTAGCTTCTTATTACCTGCGGGAGTCCC
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[ABD]AK58.atp6-1          CAAAGACATGGGCTTCATTTTTTTAGCTTCTTATTACCTGCGGGAGTCCC
[ABD]AK58.atp6-2          CAAAGACATGGGCTTCATTTTTTTAGCTTCTTATTACCTGCGGGAGTCCC
[ABD]AP008982.atp6-1      CAAAGACATGGGCTTCATTTTTTTAGCTTCTTATTACCTGCGGGAGTCCC
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[ABD]NC_036024.atp6-2     CAAAGACATGGGCTTCATTTTTTTAGCTTCTTATTACCTGCGGGAGTCCC
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[ABD]MH051716.atp6-2      CAAAGACATGGGCTTCATTTTTTTAGCTTCTTATTACCTGCGGGAGTCCC
[S]AP013107.atp6          CAAAGACATGGGCTTCATTTTTTTAGCTTCTTATTACCTGCGGGAGTCCC
[AG]AP013106.atp6         CAAAGACATGGGCTTCATTTTTTTAGCTTCTTATTACCTGCGGGAGTCCC
[D]Clae23.atp6            CAAAGACATGGGCTTCATTTTTTTAGCTTCTTATTACCTGCGGGAGTCCC
[D]AL8/78.atp6            CAAAGACATGGGCTTCATTTTTTTAGCTTCTTATTACCTGCGGGAGTCCC
[D]SQ523.atp6             CAAAGACATGGGCTTCATTTTTTTAGCTTCTTATTACCTGCGGGAGTCCC
[D]Y199.atp6              CAAAGACATGGGCTTCATTTTTTTAGCTTCTTATTACCTGCGGGAGTCCC
[D]Kaifeng1.atp6          CAAAGACATGGGCTTCATTTTTTTAGCTTCTTATTACCTGCGGGAGTCCC
[CD]Jinan0529.atp6        CAAAGACATGGGCTTCATTTTTTTAGCTTCTTATTACCTGCGGGAGTCCC
KJ078648.atp6-p           CAAAGACATGGGCTTCATTTTTTTAGCTTCTTATTACCTGCGGGAGTCCC
MZ202552.atp6             CAAAGACATGGGCTTCATTTTTTTAGCTTCTTATTACCTGCGGGAGTCCC
MN127982.atp6             CAAAGACATGGGCTTCATTTTTTTAGCTTCTTATTACCTGCGGGAGTCCC
OK120846.atp6             CAAAGACATGGGCTTCATTTTTTTAGCTTCTTATTACCTGCGGGAGTCCC
consensus                 CAAAGACATGGGCTTCATTTTTTTAGCTTCTTATTACCTGCGGGAGTCCC
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                            ......1160......1170......1180......1190......1200
[A]IX-0944.atp6             ACTGCCGTTAGCACCTTTCTTAGTACTCCTTGAGCTAATCTCTTATTGTT
[A]IX-0946.atp6             ACTGCCGTTAGCACCTTTCTTAGTACTCCTTGAGCTAATCTCTTATTGTT
[A]IX-0957.atp6             ACTGCCGTTAGCACCTTTCTTAGTACTCCTTGAGCTAATCTCTTATTGTT
[A]IX-0969.atp6             ACTGCCGTTAGCACCTTTCTTAGTACTCCTTGAGCTAATCTCTTATTGTT
[A]IX-0976.atp6             ACTGCCGTTAGCACCTTTCTTAGTACTCCTTGAGCTAATCTCTTATTGTT
[AB]SCAUP.atp6-1            ACTGCCGTTAGCACCTTTCTTAGTACTCCTTGAGCTAATCTCTTATTGTT
[AB]SCAUP.atp6-2            ACTGCCGTTAGCACCTTTCTTAGTACTCCTTGAGCTAATCTCTTATTGTT
[AB]Hoh501.atp6-1          ACTGCCGTTAGCACCTTTCTTAGTACTCCTTGAGCTAATCTCTTATTGTT
[AB]Hoh501.atp6-2          ACTGCCGTTAGCACCTTTCTTAGTACTCCTTGAGCTAATCTCTTATTGTT
[AB]DM4.atp6-1             ACTGCCGTTAGCACCTTTCTTAGTACTCCTTGAGCTAATCTCTTATTGTT
[AB]DM4.atp6-2             ACTGCCGTTAGCACCTTTCTTAGTACTCCTTGAGCTAATCTCTTATTGTT
[AB]Langdon.atp6-1         ACTGCCGTTAGCACCTTTCTTAGTACTCCTTGAGCTAATCTCTTATTGTT
[AB]Langdon.atp6-2         ACTGCCGTTAGCACCTTTCTTAGTACTCCTTGAGCTAATCTCTTATTGTT
[AB]81086A.atp6-1          ACTGCCGTTAGCACCTTTCTTAGTACTCCTTGAGCTAATCTCTTATTGTT
[AB]81086A.atp6-2          ACTGCCGTTAGCACCTTTCTTAGTACTCCTTGAGCTAATCTCTTATTGTT
[AB]KJ078649.atp6-1        ACTGCCGTTAGCACCTTTCTTAGTACTCCTTGAGCTAATCTCTTATTGTT
[AB]KJ078649.atp6-2        ACTGCCGTTAGCACCTTTCTTAGTACTCCTTGAGCTAATCTCTTATTGTT
[ABD]Lumai1.atp6-1         ACTGCCGTTAGCACCTTTCTTAGTACTCCTTGAGCTAATCTCTTATTGTT
[ABD]Lumai1.atp6-2         ACTGCCGTTAGCACCTTTCTTAGTACTCCTTGAGCTAATCTCTTATTGTT
[ABD]Kenong9204.atp6-1     ACTGCCGTTAGCACCTTTCTTAGTACTCCTTGAGCTAATCTCTTATTGTT
[ABD]Kenong9204.atp6-2     ACTGCCGTTAGCACCTTTCTTAGTACTCCTTGAGCTAATCTCTTATTGTT
[ABD]AK58.atp6-1           ACTGCCGTTAGCACCTTTCTTAGTACTCCTTGAGCTAATCTCTTATTGTT
[ABD]AK58.atp6-2           ACTGCCGTTAGCACCTTTCTTAGTACTCCTTGAGCTAATCTCTTATTGTT
[ABD]AP008982.atp6-1       ACTGCCGTTAGCACCTTTCTTAGTACTCCTTGAGCTAATCTCTTATTGTT
[ABD]AP008982.atp6-2       ACTGCCGTTAGCACCTTTCTTAGTACTCCTTGAGCTAATCTCTTATTGTT
[ABD]NC_036024.atp6-1      ACTGCCGTTAGCACCTTTCTTAGTACTCCTTGAGCTAATCTCTTATTGTT
[ABD]NC_036024.atp6-2      ACTGCCGTTAGCACCTTTCTTAGTACTCCTTGAGCTAATCTCTTATTGTT
[ABD]MH051716.atp6-1       ACTGCCGTTAGCACCTTTCTTAGTACTCCTTGAGCTAATCTCTTATTGTT
[ABD]MH051716.atp6-2       ACTGCCGTTAGCACCTTTCTTAGTACTCCTTGAGCTAATCTCTTATTGTT
[S]AP013107.atp6           ACTGCCGTTAGCACCTTTCTTAGTACTCCTTGAGCTAATCTCTTATTGTT
[AG]AP013106.atp6          ACTGCCGTTAGCACCTTTCTTAGTACTCCTTGAGCTAATCTCTTATTGTT
[D]Clae23.atp6             ACTGCCGTTAGCACCTTTCTTAGTACTCCTTGAGCTAATCTCTTATTGTT
[D]AL8/78.atp6             ACTGCCGTTAGCACCTTTCTTAGTACTCCTTGAGCTAATCTCTTATTGTT
[D]SQ523.atp6              ACTGCCGTTAGCACCTTTCTTAGTACTCCTTGAGCTAATCTCTTATTGTT
[D]Y199.atp6               ACTGCCGTTAGCACCTTTCTTAGTACTCCTTGAGCTAATCTCTTATTGTT
[D]Kaifeng1.atp6           ACTGCCGTTAGCACCTTTCTTAGTACTCCTTGAGCTAATCTCTTATTGTT
[CD]Jinan0529.atp6         ACTGCCGTTAGCACCTTTCTTAGTACTCCTTGAGCTAATCTCTTATTGTT
KJ078648.atp6-p            ACTGCCGTTAGCACCTTTCTTAGTACTCCTTGAGCTAATCTCTTATTGTT
MZ202552.atp6              ACTGCCGTTAGCACCTTTCTTAGTACTCCTTGAGCTAATCTCTTATTGTT
MN127982.atp6              ACTGCCGTTAGCACCTTTCTTAGTACTCCTTGAGCTAATCTCTTATTGTT
OK120846.atp6              ACTGCCGTTAGCACCTTTCTTAGTACTCCTTGAGCTAATCTCTTATTGTT
consensus                  ACTGCCGTTAGCACCTTTCTTAGTACTCCTTGAGCTAATCTCTTATTGTT
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[A]IX-0944.atp6              TTCGTGCATTAAGCTTAGGAATACGTTTATTTGCTAATATGATGGCCGGT
[A]IX-0946.atp6              TTCGTGCATTAAGCTTAGGAATACGTTTATTTGCTAATATGATGGCCGGT
[A]IX-0957.atp6              TTCGTGCATTAAGCTTAGGAATACGTTTATTTGCTAATATGATGGCCGGT
[A]IX-0969.atp6             TTCGTGCATTAAGCTTAGGAATACGTTTATTTGCTAATATGATGGCCGGT
[A]IX-0976.atp6             TTCGTGCATTAAGCTTAGGAATACGTTTATTTGCTAATATGATGGCCGGT
[AB]SCAUP.atp6-1            TTCGTGCATTAAGCTTAGGAATACGTTTATTTGCTAATATGATGGCCGGT
[AB]SCAUP.atp6-2            TTCGTGCATTAAGCTTAGGAATACGTTTATTTGCTAATATGATGGCCGGT
[AB]Hoh501.atp6-1          TTCGTGCATTAAGCTTAGGAATACGTTTATTTGCTAATATGATGGCCGGT
[AB]Hoh501.atp6-2          TTCGTGCATTAAGCTTAGGAATACGTTTATTTGCTAATATGATGGCCGGT
[AB]DM4.atp6-1             TTCGTGCATTAAGCTTAGGAATACGTTTATTTGCTAATATGATGGCCGGT
[AB]DM4.atp6-2             TTCGTGCATTAAGCTTAGGAATACGTTTATTTGCTAATATGATGGCCGGT
[AB]Langdon.atp6-1         TTCGTGCATTAAGCTTAGGAATACGTTTATTTGCTAATATGATGGCCGGT
[AB]Langdon.atp6-2         TTCGTGCATTAAGCTTAGGAATACGTTTATTTGCTAATATGATGGCCGGT
[AB]81086A.atp6-1          TTCGTGCATTAAGCTTAGGAATACGTTTATTTGCTAATATGATGGCCGGT
[AB]81086A.atp6-2          TTCGTGCATTAAGCTTAGGAATACGTTTATTTGCTAATATGATGGCCGGT
[AB]KJ078649.atp6-1        TTCGTGCATTAAGCTTAGGAATACGTTTATTTGCTAATATGATGGCCGGT
[AB]KJ078649.atp6-2        TTCGTGCATTAAGCTTAGGAATACGTTTATTTGCTAATATGATGGCCGGT
[ABD]Lumai1.atp6-1         TTCGTGCATTAAGCTTAGGAATACGTTTATTTGCTAATATGATGGCCGGT
[ABD]Lumai1.atp6-2         TTCGTGCATTAAGCTTAGGAATACGTTTATTTGCTAATATGATGGCCGGT
[ABD]Kenong9204.atp6-1     TTCGTGCATTAAGCTTAGGAATACGTTTATTTGCTAATATGATGGCCGGT
[ABD]Kenong9204.atp6-2     TTCGTGCATTAAGCTTAGGAATACGTTTATTTGCTAATATGATGGCCGGT
[ABD]AK58.atp6-1           TTCGTGCATTAAGCTTAGGAATACGTTTATTTGCTAATATGATGGCCGGT
[ABD]AK58.atp6-2           TTCGTGCATTAAGCTTAGGAATACGTTTATTTGCTAATATGATGGCCGGT
[ABD]AP008982.atp6-1       TTCGTGCATTAAGCTTAGGAATACGTTTATTTGCTAATATGATGGCCGGT
[ABD]AP008982.atp6-2       TTCGTGCATTAAGCTTAGGAATACGTTTATTTGCTAATATGATGGCCGGT
[ABD]NC_036024.atp6-1      TTCGTGCATTAAGCTTAGGAATACGTTTATTTGCTAATATGATGGCCGGT
[ABD]NC_036024.atp6-2      TTCGTGCATTAAGCTTAGGAATACGTTTATTTGCTAATATGATGGCCGGT
[ABD]MH051716.atp6-1       TTCGTGCATTAAGCTTAGGAATACGTTTATTTGCTAATATGATGGCCGGT
[ABD]MH051716.atp6-2       TTCGTGCATTAAGCTTAGGAATACGTTTATTTGCTAATATGATGGCCGGT
[S]AP013107.atp6           TTCGTGCATTAAGCTTAGGAATACGTTTATTTGCTAATATGATGGCCGGT
[AG]AP013106.atp6          TTCGTGCATTAAGCTTAGGAATACGTTTATTTGCTAATATGATGGCCGGT
[D]Clae23.atp6             TTCGTGCATTAAGCTTAGGAATACGTTTATTTGCTAATATGATGGCCGGT
[D]AL8/78.atp6             TTCGTGCATTAAGCTTAGGAATACGTTTATTTGCTAATATGATGGCCGGT
[D]SQ523.atp6              TTCGTGCATTAAGCTTAGGAATACGTTTATTTGCTAATATGATGGCCGGT
[D]Y199.atp6               TTCGTGCATTAAGCTTAGGAATACGTTTATTTGCTAATATGATGGCCGGT
[D]Kaifeng1.atp6           TTCGTGCATTAAGCTTAGGAATACGTTTATTTGCTAATATGATGGCCGGT
[CD]Jinan0529.atp6         TTCGTGCATTAAGCTTAGGAATACGTTTATTTGCTAATATGATGGCCGGT
KJ078648.atp6-p            TTCGTGCATTAAGCTTAGGAATACGTTTATTTGCTAATATGATGGCCGGT
MZ202552.atp6              TTCGTGCATTAAGCTTAGGAATACGTTTATTTGCTAATATGATGGCCGGT
MN127982.atp6              TTCGTGCATTAAGCTTAGGAATACGTTTATTTGCTAATATGATGGCCGGT
OK120846.atp6              TTCGTGCATTAAGCTTAGGAATACGTTTATTTGCTAATATGATGGCCGGT
consensus                  TTCGTGCATTAAGCTTAGGAATACGTTTATTTGCTAATATGATGGCCGGT
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                     ......1260......1270......1280......1290......1300
[A]IX-0944.atp6      CATAGTTTAGTAAAGATTTTAAGTGGGTTTGCTTGGACTATGCTATTTCT
[A]IX-0946.atp6      CATAGTTTAGTAAAGATTTTAAGTGGGTTTGCTTGGACTATGCTATTTCT
[A]IX-0957.atp6      CATAGTTTAGTAAAGATTTTAAGTGGGTTTGCTTGGACTATGCTATTTCT
[A]IX-0969.atp6      CATAGTTTAGTAAAGATTTTAAGTGGGTTTGCTTGGACTATGCTATTTCT
[A]IX-0976.atp6      CATAGTTTAGTAAAGATTTTAAGTGGGTTTGCTTGGACTATGCTATTTCT
[AB]SCAUP.atp6-1     CATAGTTTAGTAAAGATTTTAAGTGGGTTTGCTTGGACTATGCTATTTCT
[AB]SCAUP.atp6-2     CATAGTTTAGTAAAGATTTTAAGTGGGTTTGCTTGGACTATGCTATTTCT
[AB]Hoh501.atp6-1    CATAGTTTAGTAAAGATTTTAAGTGGGTTTGCTTGGACTATGCTATTTCT
[AB]Hoh501.atp6-2    CATAGTTTAGTAAAGATTTTAAGTGGGTTTGCTTGGACTATGCTATTTCT
[AB]DM4.atp6-1       CATAGTTTAGTAAAGATTTTAAGTGGGTTTGCTTGGACTATGCTATTTCT
[AB]DM4.atp6-2       CATAGTTTAGTAAAGATTTTAAGTGGGTTTGCTTGGACTATGCTATTTCT
[AB]Langdon.atp6-1   CATAGTTTAGTAAAGATTTTAAGTGGGTTTGCTTGGACTATGCTATTTCT
[AB]Langdon.atp6-2   CATAGTTTAGTAAAGATTTTAAGTGGGTTTGCTTGGACTATGCTATTTCT
[AB]81086A.atp6-1    CATAGTTTAGTAAAGATTTTAAGTGGGTTTGCTTGGACTATGCTATTTCT
[AB]81086A.atp6-2    CATAGTTTAGTAAAGATTTTAAGTGGGTTTGCTTGGACTATGCTATTTCT
[AB]KJ078649.atp6-1  CATAGTTTAGTAAAGATTTTAAGTGGGTTTGCTTGGACTATGCTATTTCT
[AB]KJ078649.atp6-2  CATAGTTTAGTAAAGATTTTAAGTGGGTTTGCTTGGACTATGCTATTTCT
[ABD]Lumai1.atp6-1   CATAGTTTAGTAAAGATTTTAAGTGGGTTTGCTTGGACTATGCTATTTCT
[ABD]Lumai1.atp6-2   CATAGTTTAGTAAAGATTTTAAGTGGGTTTGCTTGGACTATGCTATTTCT
[ABD]Kenong9204.atp6-1 CATAGTTTAGTAAAGATTTTAAGTGGGTTTGCTTGGACTATGCTATTTCT
[ABD]Kenong9204.atp6-2 CATAGTTTAGTAAAGATTTTAAGTGGGTTTGCTTGGACTATGCTATTTCT
[ABD]AK58.atp6-1     CATAGTTTAGTAAAGATTTTAAGTGGGTTTGCTTGGACTATGCTATTTCT
[ABD]AK58.atp6-2     CATAGTTTAGTAAAGATTTTAAGTGGGTTTGCTTGGACTATGCTATTTCT
[ABD]AP008982.atp6-1 CATAGTTTAGTAAAGATTTTAAGTGGGTTTGCTTGGACTATGCTATTTCT
[ABD]AP008982.atp6-2 CATAGTTTAGTAAAGATTTTAAGTGGGTTTGCTTGGACTATGCTATTTCT
[ABD]NC_036024.atp6-1 CATAGTTTAGTAAAGATTTTAAGTGGGTTTGCTTGGACTATGCTATTTCT
[ABD]NC_036024.atp6-2 CATAGTTTAGTAAAGATTTTAAGTGGGTTTGCTTGGACTATGCTATTTCT
[ABD]MH051716.atp6-1 CATAGTTTAGTAAAGATTTTAAGTGGGTTTGCTTGGACTATGCTATTTCT
[ABD]MH051716.atp6-2 CATAGTTTAGTAAAGATTTTAAGTGGGTTTGCTTGGACTATGCTATTTCT
[S]AP013107.atp6     CATAGTTTAGTAAAGATTTTAAGTGGGTTTGCTTGGACTATGCTATTTCT
[AG]AP013106.atp6    CATAGTTTAGTAAAGATTTTAAGTGGGTTTGCTTGGACTATGCTATTTCT
[D]Clae23.atp6       CATAGTTTAGTAAAGATTTTAAGTGGGTTTGCTTGGACTATGCTATTTCT
[D]AL8/78.atp6       CATAGTTTAGTAAAGATTTTAAGTGGGTTTGCTTGGACTATGCTATTTCT
[D]SQ523.atp6        CATAGTTTAGTAAAGATTTTAAGTGGGTTTGCTTGGACTATGCTATTTCT
[D]Y199.atp6         CATAGTTTAGTAAAGATTTTAAGTGGGTTTGCTTGGACTATGCTATTTCT
[D]Kaifeng1.atp6     CATAGTTTAGTAAAGATTTTAAGTGGGTTTGCTTGGACTATGCTATTTCT
[CD]Jinan0529.atp6   CATAGTTTAGTAAAGATTTTAAGTGGGTTTGCTTGGACTATGCTATTTCT
KJ078648.atp6-p      CATAGTTTAGTAAAGATTTTAAGTGGGTTTGCTTGGACTATGCTATTTCT
MZ202552.atp6        CATAGTTTAGTAAAGATTTTAAGTGGGTTTGCTTGGACTATGCTATTTCT
MN127982.atp6        CATAGTTTAGTAAAGATTTTAAGTGGGTTTGCTTGGACTATGCTATTTCT
OK120846.atp6        CATAGTTTAGTAAAGATTTTAAGTGGGTTTGCTTGGACTATGCTATTTCT
consensus            CATAGTTTAGTAAAGATTTTAAGTGGGTTTGCTTGGACTATGCTATTTCT
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[A]IX-0944.atp6           GAATAATATTTTCTATTTCATAGGAGATCTTGGTCCCTTATTTATAGTTC
[A]IX-0946.atp6           GAATAATATTTTCTATTTCATAGGAGATCTTGGTCCCTTATTTATAGTTC
[A]IX-0957.atp6           GAATAATATTTTCTATTTCATAGGAGATCTTGGTCCCTTATTTATAGTTC
[A]IX-0969.atp6           GAATAATATTTTCTATTTCATAGGAGATCTTGGTCCCTTATTTATAGTTC
[A]IX-0976.atp6           GAATAATATTTTCTATTTCATAGGAGATCTTGGTCCCTTATTTATAGTTC
[AB]SCAUP.atp6-1          GAATAATATTTTCTATTTCATAGGAGATCTTGGTCCCTTATTTATAGTTC
[AB]SCAUP.atp6-2          GAATAATATTTTCTATTTCATAGGAGATCTTGGTCCCTTATTTATAGTTC
[AB]Hoh501.atp6-1         GAATAATATTTTCTATTTCATAGGAGATCTTGGTCCCTTATTTATAGTTC
[AB]Hoh501.atp6-2         GAATAATATTTTCTATTTCATAGGAGATCTTGGTCCCTTATTTATAGTTC
[AB]DM4.atp6-1            GAATAATATTTTCTATTTCATAGGAGATCTTGGTCCCTTATTTATAGTTC
[AB]DM4.atp6-2            GAATAATATTTTCTATTTCATAGGAGATCTTGGTCCCTTATTTATAGTTC
[AB]Langdon.atp6-1        GAATAATATTTTCTATTTCATAGGAGATCTTGGTCCCTTATTTATAGTTC
[AB]Langdon.atp6-2        GAATAATATTTTCTATTTCATAGGAGATCTTGGTCCCTTATTTATAGTTC
[AB]81086A.atp6-1         GAATAATATTTTCTATTTCATAGGAGATCTTGGTCCCTTATTTATAGTTC
[AB]81086A.atp6-2         GAATAATATTTTCTATTTCATAGGAGATCTTGGTCCCTTATTTATAGTTC
[AB]KJ078649.atp6-1       GAATAATATTTTCTATTTCATAGGAGATCTTGGTCCCTTATTTATAGTTC
[AB]KJ078649.atp6-2       GAATAATATTTTCTATTTCATAGGAGATCTTGGTCCCTTATTTATAGTTC
[ABD]Lumai1.atp6-1        GAATAATATTTTCTATTTCATAGGAGATCTTGGTCCCTTATTTATAGTTC
[ABD]Lumai1.atp6-2        GAATAATATTTTCTATTTCATAGGAGATCTTGGTCCCTTATTTATAGTTC
[ABD]Kenong9204.atp6-1    GAATAATATTTTCTATTTCATAGGAGATCTTGGTCCCTTATTTATAGTTC
[ABD]Kenong9204.atp6-2    GAATAATATTTTCTATTTCATAGGAGATCTTGGTCCCTTATTTATAGTTC
[ABD]AK58.atp6-1          GAATAATATTTTCTATTTCATAGGAGATCTTGGTCCCTTATTTATAGTTC
[ABD]AK58.atp6-2          GAATAATATTTTCTATTTCATAGGAGATCTTGGTCCCTTATTTATAGTTC
[ABD]AP008982.atp6-1      GAATAATATTTTCTATTTCATAGGAGATCTTGGTCCCTTATTTATAGTTC
[ABD]AP008982.atp6-2      GAATAATATTTTCTATTTCATAGGAGATCTTGGTCCCTTATTTATAGTTC
[ABD]NC_036024.atp6-1     GAATAATATTTTCTATTTCATAGGAGATCTTGGTCCCTTATTTATAGTTC
[ABD]NC_036024.atp6-2     GAATAATATTTTCTATTTCATAGGAGATCTTGGTCCCTTATTTATAGTTC
[ABD]MH051716.atp6-1      GAATAATATTTTCTATTTCATAGGAGATCTTGGTCCCTTATTTATAGTTC
[ABD]MH051716.atp6-2      GAATAATATTTTCTATTTCATAGGAGATCTTGGTCCCTTATTTATAGTTC
[S]AP013107.atp6          GAATAATATTTTCTATTTCATAGGAGATCTTGGTCCCTTATTTATAGTTC
[AG]AP013106.atp6         GAATAATATTTTCTATTTCATAGGAGATCTTGGTCCCTTATTTATAGTTC
[D]Clae23.atp6            GAATAATATTTTCTATTTCATAGGAGATCTTGGTCCCTTATTTATAGTTC
[D]AL8/78.atp6            GAATAATATTTTCTATTTCATAGGAGATCTTGGTCCCTTATTTATAGTTC
[D]SQ523.atp6             GAATAATATTTTCTATTTCATAGGAGATCTTGGTCCCTTATTTATAGTTC
[D]Y199.atp6              GAATAATATTTTCTATTTCATAGGAGATCTTGGTCCCTTATTTATAGTTC
[D]Kaifeng1.atp6          GAATAATATTTTCTATTTCATAGGAGATCTTGGTCCCTTATTTATAGTTC
[CD]Jinan0529.atp6        GAATAATATTTTCTATTTCATAGGAGATCTTGGTCCCTTATTTATAGTTC
KJ078648.atp6-p           GAATAATATTTTCTATTTCATAGGAGATCTTGGTCCCTTATTTATAGTTC
MZ202552.atp6             GAATAATATTTTCTATTTCATAGGAGATCTTGGTCCCTTATTTATAGTTC
MN127982.atp6             GAATAATATTTTCTATTTCATAGGAGATCTTGGTCCCTTATTTATAGTTC
OK120846.atp6             GAATAATATTTTCTATTTCATAGGAGATCTTGGTCCCTTATTTATAGTTC
consensus                 GAATAATATTTTCTATTTCATAGGAGATCTTGGTCCCTTATTTATAGTTC
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[A]IX-0944.atp6            TAGCATTAACCGGTCTGGAATTAGGTGTAGCTATATCACAAGCTCATGTT
[A]IX-0946.atp6            TAGCATTAACCGGTCTGGAATTAGGTGTAGCTATATCACAAGCTCATGTT
[A]IX-0957.atp6            TAGCATTAACCGGTCTGGAATTAGGTGTAGCTATATCACAAGCTCATGTT
[A]IX-0969.atp6            TAGCATTAACCGGTCTGGAATTAGGTGTAGCTATATCACAAGCTCATGTT
[A]IX-0976.atp6            TAGCATTAACCGGTCTGGAATTAGGTGTAGCTATATCACAAGCTCATGTT
[AB]SCAUP.atp6-1           TAGCATTAACCGGTCTGGAATTAGGTGTAGCTATATCACAAGCTCATGTT
[AB]SCAUP.atp6-2           TAGCATTAACCGGTCTGGAATTAGGTGTAGCTATATCACAAGCTCATGTT
[AB]Hoh501.atp6-1          TAGCATTAACCGGTCTGGAATTAGGTGTAGCTATATCACAAGCTCATGTT
[AB]Hoh501.atp6-2          TAGCATTAACCGGTCTGGAATTAGGTGTAGCTATATCACAAGCTCATGTT
[AB]DM4.atp6-1             TAGCATTAACCGGTCTGGAATTAGGTGTAGCTATATCACAAGCTCATGTT
[AB]DM4.atp6-2             TAGCATTAACCGGTCTGGAATTAGGTGTAGCTATATCACAAGCTCATGTT
[AB]Langdon.atp6-1         TAGCATTAACCGGTCTGGAATTAGGTGTAGCTATATCACAAGCTCATGTT
[AB]Langdon.atp6-2         TAGCATTAACCGGTCTGGAATTAGGTGTAGCTATATCACAAGCTCATGTT
[AB]81086A.atp6-1          TAGCATTAACCGGTCTGGAATTAGGTGTAGCTATATCACAAGCTCATGTT
[AB]81086A.atp6-2          TAGCATTAACCGGTCTGGAATTAGGTGTAGCTATATCACAAGCTCATGTT
[AB]KJ078649.atp6-1        TAGCATTAACCGGTCTGGAATTAGGTGTAGCTATATCACAAGCTCATGTT
[AB]KJ078649.atp6-2        TAGCATTAACCGGTCTGGAATTAGGTGTAGCTATATCACAAGCTCATGTT
[ABD]Lumai1.atp6-1         TAGCATTAACCGGTCTGGAATTAGGTGTAGCTATATCACAAGCTCATGTT
[ABD]Lumai1.atp6-2         TAGCATTAACCGGTCTGGAATTAGGTGTAGCTATATCACAAGCTCATGTT
[ABD]Kenong9204.atp6-1     TAGCATTAACCGGTCTGGAATTAGGTGTAGCTATATCACAAGCTCATGTT
[ABD]Kenong9204.atp6-2     TAGCATTAACCGGTCTGGAATTAGGTGTAGCTATATCACAAGCTCATGTT
[ABD]AK58.atp6-1           TAGCATTAACCGGTCTGGAATTAGGTGTAGCTATATCACAAGCTCATGTT
[ABD]AK58.atp6-2           TAGCATTAACCGGTCTGGAATTAGGTGTAGCTATATCACAAGCTCATGTT
[ABD]AP008982.atp6-1       TAGCATTAACCGGTCTGGAATTAGGTGTAGCTATATCACAAGCTCATGTT
[ABD]AP008982.atp6-2       TAGCATTAACCGGTCTGGAATTAGGTGTAGCTATATCACAAGCTCATGTT
[ABD]NC_036024.atp6-1      TAGCATTAACCGGTCTGGAATTAGGTGTAGCTATATCACAAGCTCATGTT
[ABD]NC_036024.atp6-2      TAGCATTAACCGGTCTGGAATTAGGTGTAGCTATATCACAAGCTCATGTT
[ABD]MH051716.atp6-1       TAGCATTAACCGGTCTGGAATTAGGTGTAGCTATATCACAAGCTCATGTT
[ABD]MH051716.atp6-2       TAGCATTAACCGGTCTGGAATTAGGTGTAGCTATATCACAAGCTCATGTT
[S]AP013107.atp6           TAGCATTAACCGGTCTGGAATTAGGTGTAGCTATATCACAAGCTCATGTT
[AG]AP013106.atp6          TAGCATTAACCGGTCTGGAATTAGGTGTAGCTATATCACAAGCTCATGTT
[D]Clae23.atp6             TAGCATTAACCGGTCTGGAATTAGGTGTAGCTATATCACAAGCTCATGTT
[D]AL8/78.atp6             TAGCATTAACCGGTCTGGAATTAGGTGTAGCTATATCACAAGCTCATGTT
[D]SQ523.atp6              TAGCATTAACCGGTCTGGAATTAGGTGTAGCTATATCACAAGCTCATGTT
[D]Y199.atp6               TAGCATTAACCGGTCTGGAATTAGGTGTAGCTATATCACAAGCTCATGTT
[D]Kaifeng1.atp6           TAGCATTAACCGGTCTGGAATTAGGTGTAGCTATATCACAAGCTCATGTT
[CD]Jinan0529.atp6         TAGCATTAACCGGTCTGGAATTAGGTGTAGCTATATCACAAGCTCATGTT
KJ078648.atp6-p            TAGCATTAACCGGTCTGGAATTAGGTGTAGCTATATCACAAGCTCATGTT
MZ202552.atp6             TAGCATTAACCGGTCTGGAATTAGGTGTAGCTATATCACAAGCTCATGTT
MN127982.atp6             TAGCATTAACCGGTCTGGAATTAGGTGTAGCTATATCACAAGCTCATGTT
OK120846.atp6             TAGCATTAACCGGTCTGGAATTAGGTGTAGCTATATCACAAGCTCATGTT
consensus                 TAGCATTAACCGGTCTGGAATTAGGTGTAGCTATATCACAAGCTCATGTT
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                                    ......1410......1420......1430......1440......1450
[A]IX-0944.atp6          TCTACGATCTCAATTTGTATTTACTTGAATGATGCTACAAATCTCCATCA
[A]IX-0946.atp6          TCTACGATCTCAATTTGTATTTACTTGAATGATGCTACAAATCTCCATCA
[A]IX-0957.atp6          TCTACGATCTCAATTTGTATTTACTTGAATGATGCTACAAATCTCCATCA
[A]IX-0969.atp6          TCTACGATCTCAATTTGTATTTACTTGAATGATGCTACAAATCTCCATCA
[A]IX-0976.atp6          TCTACGATCTCAATTTGTATTTACTTGAATGATGCTACAAATCTCCATCA
[AB]SCAUP.atp6-1         TCTACGATCTCAATTTGTATTTACTTGAATGATGCTACAAATCTCCATCA
[AB]SCAUP.atp6-2         TCTACGATCTCAATTTGTATTTACTTGAATGATGCTACAAATCTCCATCA
[AB]Hoh501.atp6-1        TCTACGATCTCAATTTGTATTTACTTGAATGATGCTACAAATCTCCATCA
[AB]Hoh501.atp6-2        TCTACGATCTCAATTTGTATTTACTTGAATGATGCTACAAATCTCCATCA
[AB]DM4.atp6-1           TCTACGATCTCAATTTGTATTTACTTGAATGATGCTACAAATCTCCATCA
[AB]DM4.atp6-2           TCTACGATCTCAATTTGTATTTACTTGAATGATGCTACAAATCTCCATCA
[AB]Langdon.atp6-1       TCTACGATCTCAATTTGTATTTACTTGAATGATGCTACAAATCTCCATCA
[AB]Langdon.atp6-2       TCTACGATCTCAATTTGTATTTACTTGAATGATGCTACAAATCTCCATCA
[AB]81086A.atp6-1        TCTACGATCTCAATTTGTATTTACTTGAATGATGCTACAAATCTCCATCA
[AB]81086A.atp6-2        TCTACGATCTCAATTTGTATTTACTTGAATGATGCTACAAATCTCCATCA
[AB]KJ078649.atp6-1      TCTACGATCTCAATTTGTATTTACTTGAATGATGCTACAAATCTCCATCA
[AB]KJ078649.atp6-2      TCTACGATCTCAATTTGTATTTACTTGAATGATGCTACAAATCTCCATCA
[ABD]Lumai1.atp6-1       TCTACGATCTCAATTTGTATTTACTTGAATGATGCTACAAATCTCCATCA
[ABD]Lumai1.atp6-2       TCTACGATCTCAATTTGTATTTACTTGAATGATGCTACAAATCTCCATCA
[ABD]Kenong9204.atp6-1   TCTACGATCTCAATTTGTATTTACTTGAATGATGCTACAAATCTCCATCA
[ABD]Kenong9204.atp6-2   TCTACGATCTCAATTTGTATTTACTTGAATGATGCTACAAATCTCCATCA
[ABD]AK58.atp6-1         TCTACGATCTCAATTTGTATTTACTTGAATGATGCTACAAATCTCCATCA
[ABD]AK58.atp6-2         TCTACGATCTCAATTTGTATTTACTTGAATGATGCTACAAATCTCCATCA
[ABD]AP008982.atp6-1     TCTACGATCTCAATTTGTATTTACTTGAATGATGCTACAAATCTCCATCA
[ABD]AP008982.atp6-2     TCTACGATCTCAATTTGTATTTACTTGAATGATGCTACAAATCTCCATCA
[ABD]NC_036024.atp6-1    TCTACGATCTCAATTTGTATTTACTTGAATGATGCTACAAATCTCCATCA
[ABD]NC_036024.atp6-2    TCTACGATCTCAATTTGTATTTACTTGAATGATGCTACAAATCTCCATCA
[ABD]MH051716.atp6-1     TCTACGATCTCAATTTGTATTTACTTGAATGATGCTACAAATCTCCATCA
[ABD]MH051716.atp6-2     TCTACGATCTCAATTTGTATTTACTTGAATGATGCTACAAATCTCCATCA
[S]AP013107.atp6         TCTACGATCTCAATTTGTATTTACTTGAATGATGCTACAAATCTCCATCA
[AG]AP013106.atp6        TCTACGATCTCAATTTGTATTTACTTGAATGATGCTACAAATCTCCATCA
[D]Clae23.atp6           TCTACGATCTCAATTTGTATTTACTTGAATGATGCTACAAATCTCCATCA
[D]AL8/78.atp6           TCTACGATCTCAATTTGTATTTACTTGAATGATGCTACAAATCTCCATCA
[D]SQ523.atp6            TCTACGATCTCAATTTGTATTTACTTGAATGATGCTACAAATCTCCATCA
[D]Y199.atp6             TCTACGATCTCAATTTGTATTTACTTGAATGATGCTACAAATCTCCATCA
[D]Kaifeng1.atp6         TCTACGATCTCAATTTGTATTTACTTGAATGATGCTACAAATCTCCATCA
[CD]Jinan0529.atp6       TCTACGATCTCAATTTGTATTTACTTGAATGATGCTACAAATCTCCATCA
KJ078648.atp6-p          TCTACGATCTCAATTTGTATTTACTTGAATGATGCTACAAATCTCCATCA
MZ202552.atp6            TCTACGATCTCAATTTGTATTTACTTGAATGATGCTACAAATCTCCATCA
MN127982.atp6            TCTACGATCTCAATTTGTATTTACTTGAATGATGCTACAAATCTCCATCA
OK120846.atp6            TCTACGATCTCAATTTGTATTTACTTGAATGATGCTACAAATCTCCATCA
consensus               TCTACGATCTCAATTTGTATTTACTTGAATGATGCTACAAATCTCCATCA
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                          ......1460......1470..
[A]IX-0944.atp6           AAATGAGTCATTTCATAATTGA
[A]IX-0946.atp6           AAATGAGTCATTTCATAATTGA
[A]IX-0957.atp6           AAATGAGTCATTTCATAATTGA
[A]IX-0969.atp6           AAATGAGTCATTTCATAATTGA
[A]IX-0976.atp6           AAATGAGTCATTTCATAATTGA
[AB]SCAUP.atp6-1          AAATGAGTCATTTCATAATTGA
[AB]SCAUP.atp6-2          AAATGAGTCATTTCATAATTGA
[AB]Hoh501.atp6-1         AAATGAGTCATTTCATAATTGA
[AB]Hoh501.atp6-2         AAATGAGTCATTTCATAATTGA
[AB]DM4.atp6-1            AAATGAGTCATTTCATAATTGA
[AB]DM4.atp6-2            AAATGAGTCATTTCATAATTGA
[AB]Langdon.atp6-1        AAATGAGTCATTTCATAATTGA
[AB]Langdon.atp6-2        AAATGAGTCATTTCATAATTGA
[AB]81086A.atp6-1         AAATGAGTCATTTCATAATTGA
[AB]81086A.atp6-2         AAATGAGTCATTTCATAATTGA
[AB]KJ078649.atp6-1       AAATGAGTCATTTCATAATTGA
[AB]KJ078649.atp6-2       AAATGAGTCATTTCATAATTGA
[ABD]Lumai1.atp6-1        AAATGAGTCATTTCATAATTGA
[ABD]Lumai1.atp6-2        AAATGAGTCATTTCATAATTGA
[ABD]Kenong9204.atp6-1    AAATGAGTCATTTCATAATTGA
[ABD]Kenong9204.atp6-2    AAATGAGTCATTTCATAATTGA
[ABD]AK58.atp6-1          AAATGAGTCATTTCATAATTGA
[ABD]AK58.atp6-2          AAATGAGTCATTTCATAATTGA
[ABD]AP008982.atp6-1      AAATGAGTCATTTCATAATTGA
[ABD]AP008982.atp6-2      AAATGAGTCATTTCATAATTGA
[ABD]NC_036024.atp6-1     AAATGAGTCATTTCATAATTGA
[ABD]NC_036024.atp6-2     AAATGAGTCATTTCATAATTGA
[ABD]MH051716.atp6-1      AAATGAGTCATTTCATAATTGA
[ABD]MH051716.atp6-2      AAATGAGTCATTTCATAATTGA
[S]AP013107.atp6          AAATGAGTCATTTCATAATTGA
[AG]AP013106.atp6         AAATGAGTCATTTCATAATTGA
[D]Clae23.atp6            AAATGAGTCATTTCATAATTGA
[D]AL8/78.atp6            AAATGAGTCATTTCATAATTGA
[D]SQ523.atp6             AAATGAGTCATTTCATAATTGA
[D]Y199.atp6              AAATGAGTCATTTCATAATTGA
[D]Kaifeng1.atp6          AAATGAGTCATTTCATAATTGA
[CD]Jinan0529.atp6        AAATGAGTCATTTCATAATTGA
KJ078648.atp6-p           AAATGAGTCATTTCATAATTGA
MZ202552.atp6             AAATGAGTCATTTCATAATTGA
MN127982.atp6             AAATGAGTCATTTCATAATTGA
OK120846.atp6             AAATGAGTCATTTCATAATTGA
consensus                 AAATGAGTCATTTCATAATTGA
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                        .........10........20........30........40........50
[A]IX-0944.cob          ATGACTATAAGGAACCAACGATTCTCTCTTCTTAAACAACCTATATACTC
[A]IX-0946.cob          ATGACTATAAGGAACCAACGATTCTCTCTTCTTAAACAACCTATATACTC
[A]IX-0957.cob          ATGACTATAAGGAACCAACGATTCTCTCTTCTTAAACAACCTATATACTC
[A]IX-0969.cob          ATGACTATAAGGAACCAACGATTCTCTCTTCTTAAACAACCTATATACTC
[A]IX-0976.cob          ATGACTATAAGGAACCAACGATTCTCTCTTCTTAAACAACCTATATACTC
[AB]SCAUP.cob           ATGACTATAAGGAACCAACGATTCTCTCTTCTTAAACAACCTATATACTC
[AB]Hoh501.cob          ATGACTATAAGGAACCAACGATTCTCTCTTCTTAAACAACCTATATACTC
[AB]DM4.cob             ATGACTATAAGGAACCAACGATTCTCTCTTCTTAAACAACCTATATACTC
[AB]Langdon.cob         ATGACTATAAGGAACCAACGATTCTCTCTTCTTAAACAACCTATATACTC
[AB]81086A.cob          ATGACTATAAGGAACCAACGATTCTCTCTTCTTAAACAACCTATATACTC
[AB]KJ078649.cob        ATGACTATAAGGAACCAACGATTCTCTCTTCTTAAACAACCTATATACTC
[ABD]Lumai1.cob         ATGACTATAAGGAACCAACGATTCTCTCTTCTTAAACAACCTATATACTC
[ABD]Kenong9204.cob     ATGACTATAAGGAACCAACGATTCTCTCTTCTTAAACAACCTATATACTC
[ABD]AK58.cob           ATGACTATAAGGAACCAACGATTCTCTCTTCTTAAACAACCTATATACTC
[ABD]AP008982.cob       ATGACTATAAGGAACCAACGATTCTCTCTTCTTAAACAACCTATATACTC
[ABD]NC 036024.cob      ATGACTATAAGGAACCAACGATTCTCTCTTCTTAAACAACCTATATACTC
[ABD]MH051716.cob       ATGACTATAAGGAACCAACGATTCTCTCTTCTTAAACAACCTATATACTC
[S]AP013107.cob         ATGACTATAAGGAACCAACGATTCTCTCTTCTTAAACAACCAATATACGG
[AG]AP013106.cob-A      ATGACTATAAGGAACCAACGATTCTCTCTTCTTAAACAACCTATATACTC
[AG]AP013106.cob-B      ATGACTATAAGGAACCAACGATTCTCTCTTCTTAAACAACCTATATACTC
[D]Clae23.cob           ATGACTATAAGGAACCAACGATTCTCTCTTCTTAAACAACCTATATACTC
[D]AL8/78.cob           ATGACTATAAGGAACCAACGATTCTCTCTTCTTAAACAACCTATATACTC
[D]SQ523.cob            ATGACTATAAGGAACCAACGATTCTCTCTTCTTAAACAACCTATATACTC
[D]Y199.cob             ATGACTATAAGGAACCAACGATTCTCTCTTCTTAAACAACCTATATACTC
[D]Kaifeng1.cob         ATGACTATAAGGAACCAACGATTCTCTCTTCTTAAACAACCTATATACTC
[CD]Jinan0529.cob       ATGACTATAAGGAACCAACGATTCTCTCTTCTTAAACAACCTATATACTC
KJ078648.cob            ATGACTATAAGGAACCAACGATTCTCTCTTCTTAAACAACCTATATACTC
MZ202552.cob            ATGACTATAAGGAACCAACGATTCTCTCTTCTTAAACAACCTATATACTC
MZ202552.cob-p          ATGACTATAAGGAACCAACGATTCTCTCTTCTTAAACAACCTATATACTC
MN127982.cob            ATGACTATAAGGAACCAACGATTCTCTCTTCTTAAACAACCTATATACTC
MN127982.cob-p          ATGACTATAAGGAACCAACGATTCTCTCTTCTTAAACAACCTATATACTC
OK120846.cob            ATGACTATAAGGAACCAACGATTCTCTCTTCTTAAACAACCTATATACTC
consensus               ATGACTATAAGGAACCAACGATTCTCTCTTCTTAAACAACCTaTATACTc

                        .........60........70........80........90.......100
[A]IX-0944.cob          CACACTTAACCAGCATTTGATAGATTATCCAACCCCGAGCAATCTTAGTT
[A]IX-0946.cob          CACACTTAACCAGCATTTGATAGATTATCCAACCCCGAGCAATCTTAGTT
[A]IX-0957.cob          CACACTTAACCAGCATTTGATAGATTATCCAACCCCGAGCAATCTTAGTT
[A]IX-0969.cob          CACACTTAACCAGCATTTGATAGATTATCCAACCCCGAGCAATCTTAGTT
[A]IX-0976.cob          CACACTTAACCAGCATTTGATAGATTATCCAACCCCGAGCAATCTTAGTT
[AB]SCAUP.cob           CACACTTAACCAGCATTTGATAGATTATCCAACCCCGAGCAATCTTAGTT
[AB]Hoh501.cob          CACACTTAACCAGCATTTGATAGATTATCCAACCCCGAGCAATCTTAGTT
[AB]DM4.cob             CACACTTAACCAGCATTTGATAGATTATCCAACCCCGAGCAATCTTAGTT
[AB]Langdon.cob         CACACTTAACCAGCATTTGATAGATTATCCAACCCCGAGCAATCTTAGTT
[AB]81086A.cob          CACACTTAACCAGCATTTGATAGATTATCCAACCCCGAGCAATCTTAGTT
[AB]KJ078649.cob        CACACTTAACCAGCATTTGATAGATTATCCAACCCCGAGCAATCTTAGTT
[ABD]Lumai1.cob         CACACTTAACCAGCATTTGATAGATTATCCAACCCCGAGCAATCTTAGTT
[ABD]Kenong9204.cob     CACACTTAACCAGCATTTGATAGATTATCCAACCCCGAGCAATCTTAGTT
[ABD]AK58.cob           CACACTTAACCAGCATTTGATAGATTATCCAACCCCGAGCAATCTTAGTT
[ABD]AP008982.cob       CACACTTAACCAGCATTTGATAGATTATCCAACCCCGAGCAATCTTAGTT
[ABD]NC 036024.cob      CACACTTAACCAGCATTTGATAGATTATCCAACCCCGAGCAATCTTAGTT
[ABD]MH051716.cob       CACACTTAACCAGCATTTGATAGATTATCCAACCCCGAGCAATCTTAGTT
[S]AP013107.cob         AACACTTAACCAGCATTTGATAGATTATCCAACCCCGAGCAATCTTAGTT
[AG]AP013106.cob-A      CACACTTAACCAGCATTTGATAGATTATCCAACCCCGAGCAATCTTAGTT
[AG]AP013106.cob-B      CACACTTAACCAGCATTTGATAGATTATCCAACCCCGAGCAATCTTAGTT
[D]Clae23.cob           CACACTTAACCAGCATTTGATAGATTATCCAACCCCGAGCAATCTTAGTT
[D]AL8/78.cob           CACACTTAACCAGCATTTGATAGATTATCCAACCCCGAGCAATCTTAGTT
[D]SQ523.cob            CACACTTAACCAGCATTTGATAGATTATCCAACCCCGAGCAATCTTAGTT
[D]Y199.cob             CACACTTAACCAGCATTTGATAGATTATCCAACCCCGAGCAATCTTAGTT
[D]Kaifeng1.cob         CACACTTAACCAGCATTTGATAGATTATCCAACCCCGAGCAATCTTAGTT
[CD]Jinan0529.cob       CACACTTAACCAGCATTTGATAGATTATCCAACCCCGAGCAATCTTAGTT
KJ078648.cob            CACACTTAACCAGCATTTGATAGATTATCCAACCCCGAGCAATCTTAGTT
MZ202552.cob            CACACTTAACCAGCATTTGATAGATTATCCAACCCCGAGCAATCTTAGTT
MZ202552.cob-p          CACACTTAACCAGCATTTGATAGATTATCCAACCCCGAGCAATCTTAGTT
MN127982.cob            CACACTTAACCAGCATTTGATAGATTATCCAACCCCGAGCAATCTTAGTT
MN127982.cob-p          CACACTTAACCAGCATTTGATAGATTATCCAACCCCGAGCAATCTTAGTT
OK120846.cob            CACACTTAACCAGCATTTGATAGATTATCCAACCCCGAGCAATCTTAGTT
consensus               cACACTTAACCAGCATTTGATAGATTATCCAACCCCGAGCAATCTTAGTT
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                              ........110.......120.......130.......140.......150
[A]IX-0944.cob              ATTGGTGGGGGTTCGGTTCGTTAGCAGGTATTTGTTTAGTCATTCAGATA
[A]IX-0946.cob              ATTGGTGGGGGTTCGGTTCGTTAGCAGGTATTTGTTTAGTCATTCAGATA
[A]IX-0957.cob              ATTGGTGGGGGTTCGGTTCGTTAGCAGGTATTTGTTTAGTCATTCAGATA
[A]IX-0969.cob              ATTGGTGGGGGTTCGGTTCGTTAGCAGGTATTTGTTTAGTCATTCAGATA
[A]IX-0976.cob              ATTGGTGGGGGTTCGGTTCGTTAGCAGGTATTTGTTTAGTCATTCAGATA
[AB]SCAUP.cob               ATTGGTGGGGGTTCGGTTCGTTAGCAGGTATTTGTTTAGTCATTCAGATA
[AB]Hoh501.cob             ATTGGTGGGGGTTCGGTTCGTTAGCAGGTATTTGTTTAGTCATTCAGATA
[AB]DM4.cob                ATTGGTGGGGGTTCGGTTCGTTAGCAGGTATTTGTTTAGTCATTCAGATA
[AB]Langdon.cob            ATTGGTGGGGGTTCGGTTCGTTAGCAGGTATTTGTTTAGTCATTCAGATA
[AB]81086A.cob             ATTGGTGGGGGTTCGGTTCGTTAGCAGGTATTTGTTTAGTCATTCAGATA
[AB]KJ078649.cob           ATTGGTGGGGGTTCGGTTCGTTAGCAGGTATTTGTTTAGTCATTCAGATA
[ABD]Lumai1.cob            ATTGGTGGGGGTTCGGTTCGTTAGCAGGTATTTGTTTAGTCATTCAGATA
[ABD]Kenong9204.cob        ATTGGTGGGGGTTCGGTTCGTTAGCAGGTATTTGTTTAGTCATTCAGATA
[ABD]AK58.cob              ATTGGTGGGGGTTCGGTTCGTTAGCAGGTATTTGTTTAGTCATTCAGATA
[ABD]AP008982.cob          ATTGGTGGGGGTTCGGTTCGTTAGCAGGTATTTGTTTAGTCATTCAGATA
[ABD]NC 036024.cob         ATTGGTGGGGGTTCGGTTCGTTAGCAGGTATTTGTTTAGTCATTCAGATA
[ABD]MH051716.cob          ATTGGTGGGGGTTCGGTTCGTTAGCAGGTATTTGTTTAGTCATTCAGATA
[S]AP013107.cob            ATTGGTGGGGGTTCGGTTCGTTAGCAGGTATTTGTTTAGTCATTCAGATA
[AG]AP013106.cob-A         ATTGGTGGGGGTTCGGTTCGTTAGCAGGTATTTGTTTAGTCATTCAGATA
[AG]AP013106.cob-B         ATTGGTGGGGGTTCGGTTCGTTAGCAGGTATTTGTTTAGTCATTCAGATA
[D]Clae23.cob              ATTGGTGGGGGTTCGGTTCGTTAGCAGGTATTTGTTTAGTCATTCAGATA
[D]AL8/78.cob              ATTGGTGGGGGTTCGGTTCGTTAGCAGGTATTTGTTTAGTCATTCAGATA
[D]SQ523.cob               ATTGGTGGGGGTTCGGTTCGTTAGCAGGTATTTGTTTAGTCATTCAGATA
[D]Y199.cob                ATTGGTGGGGGTTCGGTTCGTTAGCAGGTATTTGTTTAGTCATTCAGATA
[D]Kaifeng1.cob            ATTGGTGGGGGTTCGGTTCGTTAGCAGGTATTTGTTTAGTCATTCAGATA
[CD]Jinan0529.cob          ATTGGTGGGGGTTCGGTTCGTTAGCAGGTATTTGTTTAGTCATTCAGATA
KJ078648.cob               ATTGGTGGGGGTTCGGTTCGTTAGCAGGTATTTGTTTAGTCATTCAGATA
MZ202552.cob               ATTGGTGGGGGTTCGGTTCGTTAGCAGGTATTTGTTTAGTCATTCAGATA
MZ202552.cob-p             ATTGGTGGGGGTTCGGTTCGTTAGCAGGTATTTGTTTAGTCATTCAGATA
MN127982.cob               ATTGGTGGGGGTTCGGTTCGTTAGCAGGTATTTGTTTAGTCATTCAGATA
MN127982.cob-p             ATTGGTGGGGGTTCGGTTCGTTAGCAGGTATTTGTTTAGTCATTCAGATA
OK120846.cob               ATTGGTGGGGGTTCGGTTCGTTAGCAGGTATTTGTTTAGTCATTCAGATA
consensus                  ATTGGTGGGGGTTCGGTTCGTTAGCAGGTATTTGTTTAGTCATTCAGATA

                              .......160.......170.......180.......190.......200
[A]IX-0944.cob              GTGACTGGCGTTTTTTTAGCTATGCATCACACACCTCATGTGGATCTAGC
[A]IX-0946.cob              GTGACTGGCGTTTTTTTAGCTATGCATCACACACCTCATGTGGATCTAGC
[A]IX-0957.cob              GTGACTGGCGTTTTTTTAGCTATGCATCACACACCTCATGTGGATCTAGC
[A]IX-0969.cob              GTGACTGGCGTTTTTTTAGCTATGCATCACACACCTCATGTGGATCTAGC
[A]IX-0976.cob              GTGACTGGCGTTTTTTTAGCTATGCATCACACACCTCATGTGGATCTAGC
[AB]SCAUP.cob               GTGACTGGCGTTTTTTTAGCTATGCATCACACACCTCATGTGGATCTAGC
[AB]Hoh501.cob             GTGACTGGCGTTTTTTTAGCTATGCATCACACACCTCATGTGGATCTAGC
[AB]DM4.cob                GTGACTGGCGTTTTTTTAGCTATGCATCACACACCTCATGTGGATCTAGC
[AB]Langdon.cob            GTGACTGGCGTTTTTTTAGCTATGCATCACACACCTCATGTGGATCTAGC
[AB]81086A.cob             GTGACTGGCGTTTTTTTAGCTATGCATCACACACCTCATGTGGATCTAGC
[AB]KJ078649.cob           GTGACTGGCGTTTTTTTAGCTATGCATCACACACCTCATGTGGATCTAGC
[ABD]Lumai1.cob            GTGACTGGCGTTTTTTTAGCTATGCATCACACACCTCATGTGGATCTAGC
[ABD]Kenong9204.cob        GTGACTGGCGTTTTTTTAGCTATGCATCACACACCTCATGTGGATCTAGC
[ABD]AK58.cob              GTGACTGGCGTTTTTTTAGCTATGCATCACACACCTCATGTGGATCTAGC
[ABD]AP008982.cob          GTGACTGGCGTTTTTTTAGCTATGCATCACACACCTCATGTGGATCTAGC
[ABD]NC 036024.cob         GTGACTGGCGTTTTTTTAGCTATGCATCACACACCTCATGTGGATCTAGC
[ABD]MH051716.cob          GTGACTGGCGTTTTTTTAGCTATGCATCACACACCTCATGTGGATCTAGC
[S]AP013107.cob            GTGACTGGCGTTTTTTTAGCTATGCATCACACACCTCATGTGGATCTAGC
[AG]AP013106.cob-A         GTGACTGGCGTTTTTTTAGCTATGCATCACACACCTCATGTGGATCTAGC
[AG]AP013106.cob-B         GTGACTGGCGTTTTTTTAGCTATGCATCACACACCTCATGTGGATCTAGC
[D]Clae23.cob              GTGACTGGCGTTTTTTTAGCTATGCATCACACACCTCATGTGGATCTAGC
[D]AL8/78.cob              GTGACTGGCGTTTTTTTAGCTATGCATCACACACCTCATGTGGATCTAGC
[D]SQ523.cob               GTGACTGGCGTTTTTTTAGCTATGCATCACACACCTCATGTGGATCTAGC
[D]Y199.cob                GTGACTGGCGTTTTTTTAGCTATGCATCACACACCTCATGTGGATCTAGC
[D]Kaifeng1.cob            GTGACTGGCGTTTTTTTAGCTATGCATCACACACCTCATGTGGATCTAGC
[CD]Jinan0529.cob          GTGACTGGCGTTTTTTTAGCTATGCATCACACACCTCATGTGGATCTAGC
KJ078648.cob               GTGACTGGCGTTTTTTTAGCTATGCATCACACACCTCATGTGGATCTAGC
MZ202552.cob               GTGACTGGCGTTTTTTTAGCTATGCATCACACACCTCATGTGGATCTAGC
MZ202552.cob-p             GTGACTGGCGTTTTTTTAGCTATGCATCACACACCTCATGTGGATCTAGC
MN127982.cob               GTGACTGGCGTTTTTTTAGCTATGCATCACACACCTCATGTGGATCTAGC
MN127982.cob-p             GTGACTGGCGTTTTTTTAGCTATGCATCACACACCTCATGTGGATCTAGC
OK120846.cob               GTGACTGGCGTTTTTTTAGCTATGCATCACACACCTCATGTGGATCTAGC
consensus                  GTGACTGGCGTTTTTTTAGCTATGCATCACACACCTCATGTGGATCTAGC
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                                ........210.......220.......230.......240.......250
[A]IX-0944.cob                  TTTCAACAGCGTAGAACACATTATGAGAGATGTTGAAGGGGGCTGGTTGC
[A]IX-0946.cob                  TTTCAACAGCGTAGAACACATTATGAGAGATGTTGAAGGGGGCTGGTTGC
[A]IX-0957.cob                  TTTCAACAGCGTAGAACACATTATGAGAGATGTTGAAGGGGGCTGGTTGC
[A]IX-0969.cob                  TTTCAACAGCGTAGAACACATTATGAGAGATGTTGAAGGGGGCTGGTTGC
[A]IX-0976.cob                  TTTCAACAGCGTAGAACACATTATGAGAGATGTTGAAGGGGGCTGGTTGC
[AB]SCAUP.cob                   TTTCAACAGCGTAGAACACATTATGAGAGATGTTGAAGGGGGCTGGTTGC
[AB]Hoh501.cob                  TTTCAACAGCGTAGAACACATTATGAGAGATGTTGAAGGGGGCTGGTTGC
[AB]DM4.cob                     TTTCAACAGCGTAGAACACATTATGAGAGATGTTGAAGGGGGCTGGTTGC
[AB]Langdon.cob                 TTTCAACAGCGTAGAACACATTATGAGAGATGTTGAAGGGGGCTGGTTGC
[AB]81086A.cob                  TTTCAACAGCGTAGAACACATTATGAGAGATGTTGAAGGGGGCTGGTTGC
[AB]KJ078649.cob                TTTCAACAGCGTAGAACACATTATGAGAGATGTTGAAGGGGGCTGGTTGC
[ABD]Lumai1.cob                 TTTCAACAGCGTAGAACACATTATGAGAGATGTTGAAGGGGGCTGGTTGC
[ABD]Kenong9204.cob             TTTCAACAGCGTAGAACACATTATGAGAGATGTTGAAGGGGGCTGGTTGC
[ABD]AK58.cob                   TTTCAACAGCGTAGAACACATTATGAGAGATGTTGAAGGGGGCTGGTTGC
[ABD]AP008982.cob               TTTCAACAGCGTAGAACACATTATGAGAGATGTTGAAGGGGGCTGGTTGC
[ABD]NC 036024.cob              TTTCAACAGCGTAGAACACATTATGAGAGATGTTGAAGGGGGCTGGTTGC
[ABD]MH051716.cob               TTTCAACAGCGTAGAACACATTATGAGAGATGTTGAAGGGGGCTGGTTGC
[S]AP013107.cob                 TTTCAACAGCGTAGAACACATTATGAGAGATGTTGAAGGGGGCTGGTTGC
[AG]AP013106.cob-A              TTTCAACAGCGTAGAACACATTATGAGAGATGTTGAAGGGGGCTGGTTGC
[AG]AP013106.cob-B              TTTCAACAGCGTAGAACACATTATGAGAGATGTTGAAGGGGGCTGGTTGC
[D]Clae23.cob                   TTTCAACAGCGTAGAACACATTATGAGAGATGTTGAAGGGGGCTGGTTGC
[D]AL8/78.cob                   TTTCAACAGCGTAGAACACATTATGAGAGATGTTGAAGGGGGCTGGTTGC
[D]SQ523.cob                    TTTCAACAGCGTAGAACACATTATGAGAGATGTTGAAGGGGGCTGGTTGC
[D]Y199.cob                     TTTCAACAGCGTAGAACACATTATGAGAGATGTTGAAGGGGGCTGGTTGC
[D]Kaifeng1.cob                 TTTCAACAGCGTAGAACACATTATGAGAGATGTTGAAGGGGGCTGGTTGC
[CD]Jinan0529.cob               TTTCAACAGCGTAGAACACATTATGAGAGATGTTGAAGGGGGCTGGTTGC
KJ078648.cob                    TTTCAACAGCGTAGAACACATTATGAGAGATGTTGAAGGGGGCTGGTTGC
MZ202552.cob                    TTTCAACAGCGTAGAACACATTATGAGAGATGTTGAAGGGGGCTGGTTGC
MZ202552.cob-p                  TTTCAACAGCGTAGAACACATTATGAGAGATGTTGAAGG-GGCTGGTTGC
MN127982.cob                    TTTCAACAGCGTAGAACACATTATGAGAGATGTTGAAGGGGGCTGGTTGC
MN127982.cob-p                  TTTCAACAGCGTAGAACACATTATGAGAGATGTTGAAGGGGGCTGGTTGC
OK120846.cob                    TTTCAACAGCGTAGAACACATTATGAGAGATGTTGAAGGGGGCTGGTTGC
consensus                       TTTCAACAGCGTAGAACACATTATGAGAGATGTTGAAGGgGGCTGGTTGC

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[A]IX-0946.cob                  TCCGTTATATGCATGCTAATGGGGCAAGTATGTTTCTCATTGTGGTTCAC
[A]IX-0957.cob                  TCCGTTATATGCATGCTAATGGGGCAAGTATGTTTCTCATTGTGGTTCAC
[A]IX-0969.cob                  TCCGTTATATGCATGCTAATGGGGCAAGTATGTTTCTCATTGTGGTTCAC
[A]IX-0976.cob                  TCCGTTATATGCATGCTAATGGGGCAAGTATGTTTCTCATTGTGGTTCAC
[AB]SCAUP.cob                   TCCGTTATATGCATGCTAATGGGGCAAGTATGTTTCTCATTGTGGTTCAC
[AB]Hoh501.cob                  TCCGTTATATGCATGCTAATGGGGCAAGTATGTTTCTCATTGTGGTTCAC
[AB]DM4.cob                     TCCGTTATATGCATGCTAATGGGGCAAGTATGTTTCTCATTGTGGTTCAC
[AB]Langdon.cob                 TCCGTTATATGCATGCTAATGGGGCAAGTATGTTTCTCATTGTGGTTCAC
[AB]81086A.cob                  TCCGTTATATGCATGCTAATGGGGCAAGTATGTTTCTCATTGTGGTTCAC
[AB]KJ078649.cob                TCCGTTATATGCATGCTAATGGGGCAAGTATGTTTCTCATTGTGGTTCAC
[ABD]Lumai1.cob                 TCCGTTATATGCATGCTAATGGGGCAAGTATGTTTCTCATTGTGGTTCAC
[ABD]Kenong9204.cob             TCCGTTATATGCATGCTAATGGGGCAAGTATGTTTCTCATTGTGGTTCAC
[ABD]AK58.cob                   TCCGTTATATGCATGCTAATGGGGCAAGTATGTTTCTCATTGTGGTTCAC
[ABD]AP008982.cob               TCCGTTATATGCATGCTAATGGGGCAAGTATGTTTCTCATTGTGGTTCAC
[ABD]NC 036024.cob              TCCGTTATATGCATGCTAATGGGGCAAGTATGTTTCTCATTGTGGTTCAC
[ABD]MH051716.cob               TCCGTTATATGCATGCTAATGGGGCAAGTATGTTTCTCATTGTGGTTCAC
[S]AP013107.cob                 TCCGTTATATGCATGCTAATGGGGCAAGTATGTTTCTCATTGTGGTTCAC
[AG]AP013106.cob-A              TCCGTTATATGCATGCTAATGGGGCAAGTATGTTTCTCATTGTGGTTCAC
[AG]AP013106.cob-B              TCCGTTATATGCATGCTAATGGGGCAAGTATGTTTCTCATTGTGGTTCAC
[D]Clae23.cob                   TCCGTTATATGCATGCTAATGGGGCAAGTATGTTTCTCATTGTGGTTCAC
[D]AL8/78.cob                   TCCGTTATATGCATGCTAATGGGGCAAGTATGTTTCTCATTGTGGTTCAC
[D]SQ523.cob                    TCCGTTATATGCATGCTAATGGGGCAAGTATGTTTCTCATTGTGGTTCAC
[D]Y199.cob                     TCCGTTATATGCATGCTAATGGGGCAAGTATGTTTCTCATTGTGGTTCAC
[D]Kaifeng1.cob                 TCCGTTATATGCATGCTAATGGGGCAAGTATGTTTCTCATTGTGGTTCAC
[CD]Jinan0529.cob               TCCGTTATATGCATGCTAATGGGGCAAGTATGTTTCTCATTGTGGTTCAC
KJ078648.cob                    TCCGTTATATGCATGCTAATGGGGCAAGTATGTTTCTCATTGTGGTTCAC
MZ202552.cob                    TCCGTTATATGCATGCTAATGGGGCAAGTATGTTTCTCATTGTGGTTCAC
MZ202552.cob-p                  TCCGTTATATGCATGCTAATGGGGCAAGTATGTTTCTCATTGTGGTTCAC
MN127982.cob                    TCCGTTATATGCATGCTAATGGGGCAAGTATGTTTCTCATTGTGGTTCAC
MN127982.cob-p                  TCCGTTATATGCATGCTAATGGGGCAAGTATGTTTCTCATTGTGGTTCAC
OK120846.cob                    TCCGTTATATGCATGCTAATGGGGCAAGTATGTTTCTCATTGTGGTTCAC
consensus                       TCCGTTATATGCATGCTAATGGGGCAAGTATGTTTCTCATTGTGGTTCAC
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[A]IX-0946.cob          CTTCATATTTTTCGTGGTCTATATCATGCGAGTTATAGCAGTCCTAGGGA
[A]IX-0957.cob          CTTCATATTTTTCGTGGTCTATATCATGCGAGTTATAGCAGTCCTAGGGA
[A]IX-0969.cob          CTTCATATTTTTCGTGGTCTATATCATGCGAGTTATAGCAGTCCTAGGGA
[A]IX-0976.cob          CTTCATATTTTTCGTGGTCTATATCATGCGAGTTATAGCAGTCCTAGGGA
[AB]SCAUP.cob           CTTCATATTTTTCGTGGTCTATATCATGCGAGTTATAGCAGTCCTAGGGA
[AB]Hoh501.cob          CTTCATATTTTTCGTGGTCTATATCATGCGAGTTATAGCAGTCCTAGGGA
[AB]DM4.cob             CTTCATATTTTTCGTGGTCTATATCATGCGAGTTATAGCAGTCCTAGGGA
[AB]Langdon.cob         CTTCATATTTTTCGTGGTCTATATCATGCGAGTTATAGCAGTCCTAGGGA
[AB]81086A.cob          CTTCATATTTTTCGTGGTCTATATCATGCGAGTTATAGCAGTCCTAGGGA
[AB]KJ078649.cob        CTTCATATTTTTCGTGGTCTATATCATGCGAGTTATAGCAGTCCTAGGGA
[ABD]Lumai1.cob         CTTCATATTTTTCGTGGTCTATATCATGCGAGTTATAGCAGTCCTAGGGA
[ABD]Kenong9204.cob     CTTCATATTTTTCGTGGTCTATATCATGCGAGTTATAGCAGTCCTAGGGA
[ABD]AK58.cob           CTTCATATTTTTCGTGGTCTATATCATGCGAGTTATAGCAGTCCTAGGGA
[ABD]AP008982.cob       CTTCATATTTTTCGTGGTCTATATCATGCGAGTTATAGCAGTCCTAGGGA
[ABD]NC 036024.cob      CTTCATATTTTTCGTGGTCTATATCATGCGAGTTATAGCAGTCCTAGGGA
[ABD]MH051716.cob       CTTCATATTTTTCGTGGTCTATATCATGCGAGTTATAGCAGTCCTAGGGA
[S]AP013107.cob         CTTCATATTTTTCGTGGTCTATATCATGCGAGTTATAGCAGTCCTAGGGA
[AG]AP013106.cob-A      CTTCATATTTTTCGTGGTCTATATCATGCGAGTTATAGCAGTCCTAGGGA
[AG]AP013106.cob-B      CTTCATATTTTTCGTGGTCTATATCATGCGAGTTATAGCAGTCCTAGGGA
[D]Clae23.cob           CTTCATATTTTTCGTGGTCTATATCATGCGAGTTATAGCAGTCCTAGGGA
[D]AL8/78.cob           CTTCATATTTTTCGTGGTCTATATCATGCGAGTTATAGCAGTCCTAGGGA
[D]SQ523.cob            CTTCATATTTTTCGTGGTCTATATCATGCGAGTTATAGCAGTCCTAGGGA
[D]Y199.cob             CTTCATATTTTTCGTGGTCTATATCATGCGAGTTATAGCAGTCCTAGGGA
[D]Kaifeng1.cob         CTTCATATTTTTCGTGGTCTATATCATGCGAGTTATAGCAGTCCTAGGGA
[CD]Jinan0529.cob       CTTCATATTTTTCGTGGTCTATATCATGCGAGTTATAGCAGTCCTAGGGA
KJ078648.cob            CTTCATATTTTTCGTGGTCTATATCATGCGAGTTATAGCAGTCCTAGGGA
MZ202552.cob            CTTCATATTTTTCGTGGTCTATATCATGCGAGTTATAGCAGTCCTAGGGA
MZ202552.cob-p          CTTCATATTTTTCGTGGTCTATATCATGCGAGTTATAGCAGTCCTAGGGA
MN127982.cob            CTTCATATTTTTCGTGGTCTATATCATGCGAGTTATAGCAGTCCTAGGGA
MN127982.cob-p          CTTCATATTTTTCGTGGTCTATATCATGCGAGTTATAGCAGTCCTAGGGA
OK120846.cob            CTTCATATTTTTCGTGGTCTATATCATGCGAGTTATAGCAGTCCTAGGGA
consensus              CTTCATATTTTTCGTGGTCTATATCATGCGAGTTATAGCAGTCCTAGGGA

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[A]IX-0957.cob          ATTTGTTCGGTGTCTCGGAGTTGTCATATTCCTATTAATGATTGTGACAG
[A]IX-0969.cob          ATTTGTTCGGTGTCTCGGAGTTGTCATATTCCTATTAATGATTGTGACAG
[A]IX-0976.cob          ATTTGTTCGGTGTCTCGGAGTTGTCATATTCCTATTAATGATTGTGACAG
[AB]SCAUP.cob           ATTTGTTCGGTGTCTCGGAGTTGTCATATTCCTATTAATGATTGTGACAG
[AB]Hoh501.cob          ATTTGTTCGGTGTCTCGGAGTTGTCATATTCCTATTAATGATTGTGACAG
[AB]DM4.cob             ATTTGTTCGGTGTCTCGGAGTTGTCATATTCCTATTAATGATTGTGACAG
[AB]Langdon.cob         ATTTGTTCGGTGTCTCGGAGTTGTCATATTCCTATTAATGATTGTGACAG
[AB]81086A.cob          ATTTGTTCGGTGTCTCGGAGTTGTCATATTCCTATTAATGATTGTGACAG
[AB]KJ078649.cob        ATTTGTTCGGTGTCTCGGAGTTGTCATATTCCTATTAATGATTGTGACAG
[ABD]Lumai1.cob         ATTTGTTCGGTGTCTCGGAGTTGTCATATTCCTATTAATGATTGTGACAG
[ABD]Kenong9204.cob     ATTTGTTCGGTGTCTCGGAGTTGTCATATTCCTATTAATGATTGTGACAG
[ABD]AK58.cob           ATTTGTTCGGTGTCTCGGAGTTGTCATATTCCTATTAATGATTGTGACAG
[ABD]AP008982.cob       ATTTGTTCGGTGTCTCGGAGTTGTCATATTCCTATTAATGATTGTGACAG
[ABD]NC 036024.cob      ATTTGTTCGGTGTCTCGGAGTTGTCATATTCCTATTAATGATTGTGACAG
[ABD]MH051716.cob       ATTTGTTCGGTGTCTCGGAGTTGTCATATTCCTATTAATGATTGTGACAG
[S]AP013107.cob         ATTTGTTCGGTGTCTCGGAGTTGTCATATTCCTATTAATGATTGTGACAG
[AG]AP013106.cob-A      ATTTGTTCGGTGTCTCGGAGTTGTCATATTCCTATTAATGATTGTGACAG
[AG]AP013106.cob-B      ATTTGTTCGGTGTCTCGGAGTTGTCATATTCCTATTAATGATTGTGACAG
[D]Clae23.cob           ATTTGTTCGGTGTCTCGGAGTTGTCATATTCCTATTAATGATTGTGACAG
[D]AL8/78.cob           ATTTGTTCGGTGTCTCGGAGTTGTCATATTCCTATTAATGATTGTGACAG
[D]SQ523.cob            ATTTGTTCGGTGTCTCGGAGTTGTCATATTCCTATTAATGATTGTGACAG
[D]Y199.cob             ATTTGTTCGGTGTCTCGGAGTTGTCATATTCCTATTAATGATTGTGACAG
[D]Kaifeng1.cob         ATTTGTTCGGTGTCTCGGAGTTGTCATATTCCTATTAATGATTGTGACAG
[CD]Jinan0529.cob       ATTTGTTCGGTGTCTCGGAGTTGTCATATTCCTATTAATGATTGTGACAG
KJ078648.cob            ATTTGTTCGGTGTCTCGGAGTTGTCATATTCCTATTAATGATTGTGACAG
MZ202552.cob            ATTTGTTCGGTGTCTCGGAGTTGTCATATTCCTATTAATGATTGTGACAG
MZ202552.cob-p          ATTTGTTCGGTGTCTCGGAGTTGTCATATTCCTATTAATGATTGTGACAG
MN127982.cob            ATTTGTTCGGTGTCTCGGAGTTGTCATATTCCTATTAATGATTGTGACAG
MN127982.cob-p          ATTTGTTCGGTGTCTCGGAGTTGTCATATTCCTATTAATGATTGTGACAG
OK120846.cob            ATTTGTTCGGTGTCTCGGAGTTGTCATATTCCTATTAATGATTGTGACAG
consensus              ATTTGTTCGGTGTCTCGGAGTTGTCATATTCCTATTAATGATTGTGACAG
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[A]IX-0957.cob        CTTTTATAGGATACGTACCACCTTGGGGTCAGATGAGCTTTTGGGGAGCA
[A]IX-0969.cob        CTTTTATAGGATACGTACCACCTTGGGGTCAGATGAGCTTTTGGGGAGCA
[A]IX-0976.cob        CTTTTATAGGATACGTACCACCTTGGGGTCAGATGAGCTTTTGGGGAGCA
[AB]SCAUP.cob         CTTTTATAGGATACGTACCACCTTGGGGTCAGATGAGCTTTTGGGGAGCA
[AB]Hoh501.cob        CTTTTATAGGATACGTACCACCTTGGGGTCAGATGAGCTTTTGGGGAGCA
[AB]DM4.cob           CTTTTATAGGATACGTACCACCTTGGGGTCAGATGAGCTTTTGGGGAGCA
[AB]Langdon.cob       CTTTTATAGGATACGTACCACCTTGGGGTCAGATGAGCTTTTGGGGAGCA
[AB]81086A.cob        CTTTTATAGGATACGTACCACCTTGGGGTCAGATGAGCTTTTGGGGAGCA
[AB]KJ078649.cob      CTTTTATAGGATACGTACCACCTTGGGGTCAGATGAGCTTTTGGGGAGCA
[ABD]Lumai1.cob       CTTTTATAGGATACGTACCACCTTGGGGTCAGATGAGCTTTTGGGGAGCA
[ABD]Kenong9204.cob   CTTTTATAGGATACGTACCACCTTGGGGTCAGATGAGCTTTTGGGGAGCA
[ABD]AK58.cob         CTTTTATAGGATACGTACCACCTTGGGGTCAGATGAGCTTTTGGGGAGCA
[ABD]AP008982.cob     CTTTTATAGGATACGTACCACCTTGGGGTCAGATGAGCTTTTGGGGAGCA
[ABD]NC 036024.cob    CTTTTATAGGATACGTACCACCTTGGGGTCAGATGAGCTTTTGGGGAGCA
[ABD]MH051716.cob     CTTTTATAGGATACGTACCACCTTGGGGTCAGATGAGCTTTTGGGGAGCA
[S]AP013107.cob       CTTTTATAGGATACGTACCACCTTGGGGTCAGATGAGCTTTTGGGGAGCA
[AG]AP013106.cob-A    CTTTTATAGGATACGTACCACCTTGGGGTCAGATGAGCTTTTGGGGAGCA
[AG]AP013106.cob-B    CTTTTATAGGATACGTACCACCTTGGGGTCAGATGAGCTTTTGGGGAGCA
[D]Clae23.cob         CTTTTATAGGATACGTACCACCTTGGGGTCAGATGAGCTTTTGGGGAGCA
[D]AL8/78.cob         CTTTTATAGGATACGTACCACCTTGGGGTCAGATGAGCTTTTGGGGAGCA
[D]SQ523.cob          CTTTTATAGGATACGTACCACCTTGGGGTCAGATGAGCTTTTGGGGAGCA
[D]Y199.cob           CTTTTATAGGATACGTACCACCTTGGGGTCAGATGAGCTTTTGGGGAGCA
[D]Kaifeng1.cob       CTTTTATAGGATACGTACCACCTTGGGGTCAGATGAGCTTTTGGGGAGCA
[CD]Jinan0529.cob     CTTTTATAGGATACGTACCACCTTGGGGTCAGATGAGCTTTTGGGGAGCA
KJ078648.cob          CTTTTATAGGATACGTACCACCTTGGGGTCAGATGAGCTTTTGGGGAGCA
MZ202552.cob          CTTTTATAGGATACGTACCACCTTGGGGTCAGATGAGCTTTTGGGGAGCA
MZ202552.cob-p        CTTTTATAGGATACGTACCACCTTGGGGTCAGATGAGCTTTTGGGGAGCA
MN127982.cob          CTTTTATAGGATACGTACCACCTTGGGGTCAGATGAGCTTTTGGGGAGCA
MN127982.cob-p        CTTTTATAGGATACGTACCACCTTGGGGTCAGATGAGCTTTTGGGGAGCA
OK120846.cob          CTTTTATAGGATACGTACCACCTTGGGGTCAGATGAGCTTTTGGGGAGCA
consensus             CTTTTATAGGATACGTACCACCTTGGGGTCAGATGAGCTTTTGGGGAGCA

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[A]IX-0946.cob        ACAGTAATTACAAGCTTAGCTAGCGCCATACCAGTAGTAGGAGATACCAT
[A]IX-0957.cob        ACAGTAATTACAAGCTTAGCTAGCGCCATACCAGTAGTAGGAGATACCAT
[A]IX-0969.cob        ACAGTAATTACAAGCTTAGCTAGCGCCATACCAGTAGTAGGAGATACCAT
[A]IX-0976.cob        ACAGTAATTACAAGCTTAGCTAGCGCCATACCAGTAGTAGGAGATACCAT
[AB]SCAUP.cob         ACAGTAATTACAAGCTTAGCTAGCGCCATACCAGTAGTAGGAGATACCAT
[AB]Hoh501.cob        ACAGTAATTACAAGCTTAGCTAGCGCCATACCAGTAGTAGGAGATACCAT
[AB]DM4.cob           ACAGTAATTACAAGCTTAGCTAGCGCCATACCAGTAGTAGGAGATACCAT
[AB]Langdon.cob       ACAGTAATTACAAGCTTAGCTAGCGCCATACCAGTAGTAGGAGATACCAT
[AB]81086A.cob        ACAGTAATTACAAGCTTAGCTAGCGCCATACCAGTAGTAGGAGATACCAT
[AB]KJ078649.cob      ACAGTAATTACAAGCTTAGCTAGCGCCATACCAGTAGTAGGAGATACCAT
[ABD]Lumai1.cob       ACAGTAATTACAAGCTTAGCTAGCGCCATACCAGTAGTAGGAGATACCAT
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[ABD]AP008982.cob     ACAGTAATTACAAGCTTAGCTAGCGCCATACCAGTAGTAGGAGATACCAT
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[ABD]MH051716.cob     ACAGTAATTACAAGCTTAGCTAGCGCCATACCAGTAGTAGGAGATACCAT
[S]AP013107.cob       ACAGTAATTACAAGCTTAGCTAGCGCCATACCAGTAGTAGGAGATACCAT
[AG]AP013106.cob-A    ACAGTAATTACAAGCTTAGCTAGCGCCATACCAGTAGTAGGAGATACCAT
[AG]AP013106.cob-B    ACAGTAATTACAAGCTTAGCTAGCGCCATACCAGTAGTAGGAGATACCAT
[D]Clae23.cob         ACAGTAATTACAAGCTTAGCTAGCGCCATACCAGTAGTAGGAGATACCAT
[D]AL8/78.cob         ACAGTAATTACAAGCTTAGCTAGCGCCATACCAGTAGTAGGAGATACCAT
[D]SQ523.cob          ACAGTAATTACAAGCTTAGCTAGCGCCATACCAGTAGTAGGAGATACCAT
[D]Y199.cob           ACAGTAATTACAAGCTTAGCTAGCGCCATACCAGTAGTAGGAGATACCAT
[D]Kaifeng1.cob       ACAGTAATTACAAGCTTAGCTAGCGCCATACCAGTAGTAGGAGATACCAT
[CD]Jinan0529.cob     ACAGTAATTACAAGCTTAGCTAGCGCCATACCAGTAGTAGGAGATACCAT
KJ078648.cob          ACAGTAATTACAAGCTTAGCTAGCGCCATACCAGTAGTAGGAGATACCAT
MZ202552.cob          ACAGTAATTACAAGCTTAGCTAGCGCCATACCAGTAGTAGGAGATACCAT
MZ202552.cob-p        ACAGTAATTACAAGCTTAGCTAGCGCCATACCAGTAGTAGGAGATACCAT
MN127982.cob          ACAGTAATTACAAGCTTAGCTAGCGCCATACCAGTAGTAGGAGATACCAT
MN127982.cob-p        ACAGTAATTACAAGCTTAGCTAGCGCCATACCAGTAGTAGGAGATACCAT
OK120846.cob          ACAGTAATTACAAGCTTAGCTAGCGCCATACCAGTAGTAGGAGATACCAT
consensus             ACAGTAATTACAAGCTTAGCTAGCGCCATACCAGTAGTAGGAGATACCAT
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[A]IX-0946.cob         AGTGACTTGGCTTTGGGGTGGTTTCTCCGTGGACAATGCCACCTTAAATC
[A]IX-0957.cob         AGTGACTTGGCTTTGGGGTGGTTTCTCCGTGGACAATGCCACCTTAAATC
[A]IX-0969.cob         AGTGACTTGGCTTTGGGGTGGTTTCTCCGTGGACAATGCCACCTTAAATC
[A]IX-0976.cob         AGTGACTTGGCTTTGGGGTGGTTTCTCCGTGGACAATGCCACCTTAAATC
[AB]SCAUP.cob          AGTGACTTGGCTTTGGGGTGGTTTCTCCGTGGACAATGCCACCTTAAATC
[AB]Hoh501.cob         AGTGACTTGGCTTTGGGGTGGTTTCTCCGTGGACAATGCCACCTTAAATC
[AB]DM4.cob            AGTGACTTGGCTTTGGGGTGGTTTCTCCGTGGACAATGCCACCTTAAATC
[AB]Langdon.cob        AGTGACTTGGCTTTGGGGTGGTTTCTCCGTGGACAATGCCACCTTAAATC
[AB]81086A.cob         AGTGACTTGGCTTTGGGGTGGTTTCTCCGTGGACAATGCCACCTTAAATC
[AB]KJ078649.cob       AGTGACTTGGCTTTGGGGTGGTTTCTCCGTGGACAATGCCACCTTAAATC
[ABD]Lumai1.cob        AGTGACTTGGCTTTGGGGTGGTTTCTCCGTGGACAATGCCACCTTAAATC
[ABD]Kenong9204.cob    AGTGACTTGGCTTTGGGGTGGTTTCTCCGTGGACAATGCCACCTTAAATC
[ABD]AK58.cob          AGTGACTTGGCTTTGGGGTGGTTTCTCCGTGGACAATGCCACCTTAAATC
[ABD]AP008982.cob      AGTGACTTGGCTTTGGGGTGGTTTCTCCGTGGACAATGCCACCTTAAATC
[ABD]NC 036024.cob     AGTGACTTGGCTTTGGGGTGGTTTCTCCGTGGACAATGCCACCTTAAATC
[ABD]MH051716.cob      AGTGACTTGGCTTTGGGGTGGTTTCTCCGTGGACAATGCCACCTTAAATC
[S]AP013107.cob        AGTGACTTGGCTTTGGGGTGGTTTCTCCGTGGACAATGCCACCTTAAATC
[AG]AP013106.cob-A     AGTGACTTGGCTTTGGGGTGGTTTCTCCGTGGACAATGCCACCTTAAATC
[AG]AP013106.cob-B     AGTGACTTGGCTTTGGGGTGGTTTCTCCGTGGACAATGCCACCTTAAATC
[D]Clae23.cob          AGTGACTTGGCTTTGGGGTGGTTTCTCCGTGGACAATGCCACCTTAAATC
[D]AL8/78.cob          AGTGACTTGGCTTTGGGGTGGTTTCTCCGTGGACAATGCCACCTTAAATC
[D]SQ523.cob           AGTGACTTGGCTTTGGGGTGGTTTCTCCGTGGACAATGCCACCTTAAATC
[D]Y199.cob            AGTGACTTGGCTTTGGGGTGGTTTCTCCGTGGACAATGCCACCTTAAATC
[D]Kaifeng1.cob        AGTGACTTGGCTTTGGGGTGGTTTCTCCGTGGACAATGCCACCTTAAATC
[CD]Jinan0529.cob      AGTGACTTGGCTTTGGGGTGGTTTCTCCGTGGACAATGCCACCTTAAATC
KJ078648.cob           AGTGACTTGGCTTTGGGGTGGTTTCTCCGTGGACAATGCCACCTTAAATC
MZ202552.cob           AGTGACTTGGCTTTGGGGTGGTTTCTCCGTGGACAATGCCACCTTAAATC
MZ202552.cob-p         AGTGACTTGGCTTTGGGGTGGTTTCTCCGTGGACAATGCCACCTTAAATC
MN127982.cob           AGTGACTTGGCTTTGGGGTGGTTTCTCCGTGGACAATGCCACCTTAAATC
MN127982.cob-p         AGTGACTTGGCTTTGGGGTGGTTTCTCCGTGGACAATGCCACCTTAAATC
OK120846.cob           AGTGACTTGGCTTTGGGGTGGTTTCTCCGTGGACAATGCCACCTTAAATC
consensus              AGTGACTTGGCTTTGGGGTGGTTTCTCCGTGGACAATGCCACCTTAAATC

                  .......560.......570.......580.......590.......600
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[A]IX-0946.cob         GTTTTTTTAGTCTCCATCATTTACTCCCCCTTATTTTAGTAGGCGCCAGT
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[A]IX-0969.cob         GTTTTTTTAGTCTCCATCATTTACTCCCCCTTATTTTAGTAGGCGCCAGT
[A]IX-0976.cob         GTTTTTTTAGTCTCCATCATTTACTCCCCCTTATTTTAGTAGGCGCCAGT
[AB]SCAUP.cob          GTTTTTTTAGTCTCCATCATTTACTCCCCCTTATTTTAGTAGGCGCCAGT
[AB]Hoh501.cob         GTTTTTTTAGTCTCCATCATTTACTCCCCCTTATTTTAGTAGGCGCCAGT
[AB]DM4.cob            GTTTTTTTAGTCTCCATCATTTACTCCCCCTTATTTTAGTAGGCGCCAGT
[AB]Langdon.cob        GTTTTTTTAGTCTCCATCATTTACTCCCCCTTATTTTAGTAGGCGCCAGT
[AB]81086A.cob         GTTTTTTTAGTCTCCATCATTTACTCCCCCTTATTTTAGTAGGCGCCAGT
[AB]KJ078649.cob       GTTTTTTTAGTCTCCATCATTTACTCCCCCTTATTTTAGTAGGCGCCAGT
[ABD]Lumai1.cob        GTTTTTTTAGTCTCCATCATTTACTCCCCCTTATTTTAGTAGGCGCCAGT
[ABD]Kenong9204.cob    GTTTTTTTAGTCTCCATCATTTACTCCCCCTTATTTTAGTAGGCGCCAGT
[ABD]AK58.cob          GTTTTTTTAGTCTCCATCATTTACTCCCCCTTATTTTAGTAGGCGCCAGT
[ABD]AP008982.cob      GTTTTTTTAGTCTCCATCATTTACTCCCCCTTATTTTAGTAGGCGCCAGT
[ABD]NC 036024.cob     GTTTTTTTAGTCTCCATCATTTACTCCCCCTTATTTTAGTAGGCGCCAGT
[ABD]MH051716.cob      GTTTTTTTAGTCTCCATCATTTACTCCCCCTTATTTTAGTAGGCGCCAGT
[S]AP013107.cob        GTTTTTTTAGTCTCCATCATTTACTCCCCCTTATTTTAGTAGGCGCCAGT
[AG]AP013106.cob-A     GTTTTTTTAGTCTCCATCATTTACTCCCCCTTATTTTAGTAGGCGCCAGT
[AG]AP013106.cob-B     GTTTTTTTAGTCTCCATCATTTACTCCCCCTTATTTTAGTAGGCGCCAGT
[D]Clae23.cob          GTTTTTTTAGTCTCCATCATTTACTCCCCCTTATTTTAGTAGGCGCCAGT
[D]AL8/78.cob          GTTTTTTTAGTCTCCATCATTTACTCCCCCTTATTTTAGTAGGCGCCAGT
[D]SQ523.cob           GTTTTTTTAGTCTCCATCATTTACTCCCCCTTATTTTAGTAGGCGCCAGT
[D]Y199.cob            GTTTTTTTAGTCTCCATCATTTACTCCCCCTTATTTTAGTAGGCGCCAGT
[D]Kaifeng1.cob        GTTTTTTTAGTCTCCATCATTTACTCCCCCTTATTTTAGTAGGCGCCAGT
[CD]Jinan0529.cob      GTTTTTTTAGTCTCCATCATTTACTCCCCCTTATTTTAGTAGGCGCCAGT
KJ078648.cob           GTTTTTTTAGTCTCCATCATTTACTCCCCCTTATTTTAGTAGGCGCCAGT
MZ202552.cob           GTTTTTTTAGTCTCCATCATTTACTCCCCCTTATTTTAGTAGGCGCCAGT
MZ202552.cob-p         GTTTTTTTAGTCTCCATCATTTACTCCCCCTTATTTTAGTAGGCGCCAGT
MN127982.cob           GTTTTTTTAGTCTCCATCATTTACTCCCCCTTATTTTAGTAGGCGCCAGT
MN127982.cob-p         GTTTTTTTAGTCTCCATCATTTACTCCCCCTTATTTTAGTAGGCGCCAGT
OK120846.cob           GTTTTTTTAGTCTCCATCATTTACTCCCCCTTATTTTAGTAGGCGCCAGT
consensus              GTTTTTTTAGTCTCCATCATTTACTCCCCCTTATTTTAGTAGGCGCCAGT
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[A]IX-0957.cob            CTTCTTCATCTGGCCGCATTGCATCAATATGGATCAAATAATCCATTGGG
[A]IX-0969.cob            CTTCTTCATCTGGCCGCATTGCATCAATATGGATCAAATAATCCATTGGG
[A]IX-0976.cob            CTTCTTCATCTGGCCGCATTGCATCAATATGGATCAAATAATCCATTGGG
[AB]SCAUP.cob             CTTCTTCATCTGGCCGCATTGCATCAATATGGATCAAATAATCCATTGGG
[AB]Hoh501.cob            CTTCTTCATCTGGCCGCATTGCATCAATATGGATCAAATAATCCATTGGG
[AB]DM4.cob               CTTCTTCATCTGGCCGCATTGCATCAATATGGATCAAATAATCCATTGGG
[AB]Langdon.cob           CTTCTTCATCTGGCCGCATTGCATCAATATGGATCAAATAATCCATTGGG
[AB]81086A.cob            CTTCTTCATCTGGCCGCATTGCATCAATATGGATCAAATAATCCATTGGG
[AB]KJ078649.cob          CTTCTTCATCTGGCCGCATTGCATCAATATGGATCAAATAATCCATTGGG
[ABD]Lumai1.cob           CTTCTTCATCTGGCCGCATTGCATCAATATGGATCAAATAATCCATTGGG
[ABD]Kenong9204.cob       CTTCTTCATCTGGCCGCATTGCATCAATATGGATCAAATAATCCATTGGG
[ABD]AK58.cob             CTTCTTCATCTGGCCGCATTGCATCAATATGGATCAAATAATCCATTGGG
[ABD]AP008982.cob         CTTCTTCATCTGGCCGCATTGCATCAATATGGATCAAATAATCCATTGGG
[ABD]NC 036024.cob        CTTCTTCATCTGGCCGCATTGCATCAATATGGATCAAATAATCCATTGGG
[ABD]MH051716.cob         CTTCTTCATCTGGCCGCATTGCATCAATATGGATCAAATAATCCATTGGG
[S]AP013107.cob           CTTCTTCATCTGGCCGCATTGCATCAATATGGATCAAATAATCCATTGGG
[AG]AP013106.cob-A        CTTCTTCATCTGGCCGCATTGCATCAATATGGATCAAATAATCCATTGGG
[AG]AP013106.cob-B        CTTCTTCATCTGGCCGCATTGCATCAATATGGATCAAATAATCCATTGGG
[D]Clae23.cob             CTTCTTCATCTGGCCGCATTGCATCAATATGGATCAAATAATCCATTGGG
[D]AL8/78.cob             CTTCTTCATCTGGCCGCATTGCATCAATATGGATCAAATAATCCATTGGG
[D]SQ523.cob              CTTCTTCATCTGGCCGCATTGCATCAATATGGATCAAATAATCCATTGGG
[D]Y199.cob               CTTCTTCATCTGGCCGCATTGCATCAATATGGATCAAATAATCCATTGGG
[D]Kaifeng1.cob           CTTCTTCATCTGGCCGCATTGCATCAATATGGATCAAATAATCCATTGGG
[CD]Jinan0529.cob         CTTCTTCATCTGGCCGCATTGCATCAATATGGATCAAATAATCCATTGGG
KJ078648.cob              CTTCTTCATCTGGCCGCATTGCATCAATATGGATCAAATAATCCATTGGG
MZ202552.cob              CTTCTTCATCTGGCCGCATTGCATCAATATGGATCAAATAATCCATTGGG
MZ202552.cob-p            CTTCTTCATCTGGCCGCATTGCATCAATATGGATCAAATAATCCATTGGG
MN127982.cob              CTTCTTCATCTGGCCGCATTGCATCAATATGGATCAAATAATCCATTGGG
MN127982.cob-p            CTTCTTCATCTGGCCGCATTGCATCAATATGGATCAAATAATCCATTGGG
OK120846.cob              CTTCTTCATCTGGCCGCATTGCATCAATATGGATCAAATAATCCATTGGG
consensus                 CTTCTTCATCTGGCCGCATTGCATCAATATGGATCAAATAATCCATTGGG

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[A]IX-0957.cob            TGTACATTCTGAGATGGATAAAATTGCTTCTTACCCTTATTTTTATGTAA
[A]IX-0969.cob            TGTACATTCTGAGATGGATAAAATTGCTTCTTACCCTTATTTTTATGTAA
[A]IX-0976.cob            TGTACATTCTGAGATGGATAAAATTGCTTCTTACCCTTATTTTTATGTAA
[AB]SCAUP.cob             TGTACATTCTGAGATGGATAAAATTGCTTCTTACCCTTATTTTTATGTAA
[AB]Hoh501.cob            TGTACATTCTGAGATGGATAAAATTGCTTCTTACCCTTATTTTTATGTAA
[AB]DM4.cob               TGTACATTCTGAGATGGATAAAATTGCTTCTTACCCTTATTTTTATGTAA
[AB]Langdon.cob           TGTACATTCTGAGATGGATAAAATTGCTTCTTACCCTTATTTTTATGTAA
[AB]81086A.cob            TGTACATTCTGAGATGGATAAAATTGCTTCTTACCCTTATTTTTATGTAA
[AB]KJ078649.cob          TGTACATTCTGAGATGGATAAAATTGCTTCTTACCCTTATTTTTATGTAA
[ABD]Lumai1.cob           TGTACATTCTGAGATGGATAAAATTGCTTCTTACCCTTATTTTTATGTAA
[ABD]Kenong9204.cob       TGTACATTCTGAGATGGATAAAATTGCTTCTTACCCTTATTTTTATGTAA
[ABD]AK58.cob             TGTACATTCTGAGATGGATAAAATTGCTTCTTACCCTTATTTTTATGTAA
[ABD]AP008982.cob         TGTACATTCTGAGATGGATAAAATTGCTTCTTACCCTTATTTTTATGTAA
[ABD]NC 036024.cob        TGTACATTCTGAGATGGATAAAATTGCTTCTTACCCTTATTTTTATGTAA
[ABD]MH051716.cob         TGTACATTCTGAGATGGATAAAATTGCTTCTTACCCTTATTTTTATGTAA
[S]AP013107.cob           TGTACATTCTGAGATGGATAAAATTGCTTCTTACCCTTATTTTTATGTAA
[AG]AP013106.cob-A        TGTACATTCTGAGATGGATAAAATTGCTTCTTACCCTTATTTTTATGTAA
[AG]AP013106.cob-B        TGTACATTCTGAGATGGATAAAATTGCTTCTTACCCTTATTTTTATGTAA
[D]Clae23.cob             TGTACATTCTGAGATGGATAAAATTGCTTCTTACCCTTATTTTTATGTAA
[D]AL8/78.cob             TGTACATTCTGAGATGGATAAAATTGCTTCTTACCCTTATTTTTATGTAA
[D]SQ523.cob              TGTACATTCTGAGATGGATAAAATTGCTTCTTACCCTTATTTTTATGTAA
[D]Y199.cob               TGTACATTCTGAGATGGATAAAATTGCTTCTTACCCTTATTTTTATGTAA
[D]Kaifeng1.cob           TGTACATTCTGAGATGGATAAAATTGCTTCTTACCCTTATTTTTATGTAA
[CD]Jinan0529.cob         TGTACATTCTGAGATGGATAAAATTGCTTCTTACCCTTATTTTTATGTAA
KJ078648.cob              TGTACATTCTGAGATGGATAAAATTGCTTCTTACCCTTATTTTTATGTAA
MZ202552.cob              TGTACATTCTGAGATGGATAAAATTGCTTCTTACCCTTATTTTTATGTAA
MZ202552.cob-p            TGTACATTCTGAGATGGATAAAATTGCTTCTTACCCTTATTTTTATGTAA
MN127982.cob              TGTACATTCTGAGATGGATAAAATTGCTTCTTACCCTTATTTTTATGTAA
MN127982.cob-p            TGTACATTCTGAGATGGATAAAATTGCTTCTTACCCTTATTTTTATGTAA
OK120846.cob              TGTACATTCTGAGATGGATAAAATTGCTTCTTACCCTTATTTTTATGTAA
consensus                 TGTACATTCTGAGATGGATAAAATTGCTTCTTACCCTTATTTTTATGTAA
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[A]IX-0957.cob      AGGATCTTGTAGGTCGGGTAGCTTCTGCTATCTTTTTTTCCATTTGGATT
[A]IX-0969.cob      AGGATCTTGTAGGTCGGGTAGCTTCTGCTATCTTTTTTTCCATTTGGATT
[A]IX-0976.cob      AGGATCTTGTAGGTCGGGTAGCTTCTGCTATCTTTTTTTCCATTTGGATT
[AB]SCAUP.cob       AGGATCTTGTAGGTCGGGTAGCTTCTGCTATCTTTTTTTCCATTTGGATT
[AB]Hoh501.cob      AGGATCTTGTAGGTCGGGTAGCTTCTGCTATCTTTTTTTCCATTTGGATT
[AB]DM4.cob         AGGATCTTGTAGGTCGGGTAGCTTCTGCTATCTTTTTTTCCATTTGGATT
[AB]Langdon.cob     AGGATCTTGTAGGTCGGGTAGCTTCTGCTATCTTTTTTTCCATTTGGATT
[AB]81086A.cob      AGGATCTTGTAGGTCGGGTAGCTTCTGCTATCTTTTTTTCCATTTGGATT
[AB]KJ078649.cob    AGGATCTTGTAGGTCGGGTAGCTTCTGCTATCTTTTTTTCCATTTGGATT
[ABD]Lumai1.cob     AGGATCTTGTAGGTCGGGTAGCTTCTGCTATCTTTTTTTCCATTTGGATT
[ABD]Kenong9204.cob AGGATCTTGTAGGTCGGGTAGCTTCTGCTATCTTTTTTTCCATTTGGATT
[ABD]AK58.cob       AGGATCTTGTAGGTCGGGTAGCTTCTGCTATCTTTTTTTCCATTTGGATT
[ABD]AP008982.cob   AGGATCTTGTAGGTCGGGTAGCTTCTGCTATCTTTTTTTCCATTTGGATT
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[S]AP013107.cob     AGGATCTTGTAGGTCGGGTAGCTTCTGCTATCTTTTTTTCCATTTGGATT
[AG]AP013106.cob-A  AGGATCTTGTAGGTCGGGTAGCTTCTGCTATCTTTTTTTCCATTTGGATT
[AG]AP013106.cob-B  AGGATCTTGTAGGTCGGGTAGCTTCTGCTATCTTTTTTTCCATTTGGATT
[D]Clae23.cob       AGGATCTTGTAGGTCGGGTAGCTTCTGCTATCTTTTTTTCCATTTGGATT
[D]AL8/78.cob       AGGATCTTGTAGGTCGGGTAGCTTCTGCTATCTTTTTTTCCATTTGGATT
[D]SQ523.cob        AGGATCTTGTAGGTCGGGTAGCTTCTGCTATCTTTTTTTCCATTTGGATT
[D]Y199.cob         AGGATCTTGTAGGTCGGGTAGCTTCTGCTATCTTTTTTTCCATTTGGATT
[D]Kaifeng1.cob     AGGATCTTGTAGGTCGGGTAGCTTCTGCTATCTTTTTTTCCATTTGGATT
[CD]Jinan0529.cob   AGGATCTTGTAGGTCGGGTAGCTTCTGCTATCTTTTTTTCCATTTGGATT
KJ078648.cob        AGGATCTTGTAGGTCGGGTAGCTTCTGCTATCTTTTTTTCCATTTGGATT
MZ202552.cob        AGGATCTTGTAGGTCGGGTAGCTTCTGCTATCTTTTTTTCCATTTGGATT
MZ202552.cob-p      AGGATCTTGTAGGTCGGGTAGCTTCTGCTATCTTTTTTTCCATTTGGATT
MN127982.cob        AGGATCTTGTAGGTCGGGTAGCTTCTGCTATCTTTTTTTCCATTTGGATT
MN127982.cob-p      AGGATCTTGTAGGTCGGGTAGCTTCTGCTATCTTTTTTTCCATTTGGATT
OK120846.cob        AGGATCTTGTAGGTCGGGTAGCTTCTGCTATCTTTTTTTCCATTTGGATT
consensus           AGGATCTTGTAGGTCGGGTAGCTTCTGCTATCTTTTTTTCCATTTGGATT

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[A]IX-0957.cob      TTTTTTGCTCCTAATGTTTTGGGGCATCCCGACAATTATATACCTGCTAA
[A]IX-0969.cob      TTTTTTGCTCCTAATGTTTTGGGGCATCCCGACAATTATATACCTGCTAA
[A]IX-0976.cob      TTTTTTGCTCCTAATGTTTTGGGGCATCCCGACAATTATATACCTGCTAA
[AB]SCAUP.cob       TTTTTTGCTCCTAATGTTTTGGGGCATCCCGACAATTATATACCTGCTAA
[AB]Hoh501.cob      TTTTTTGCTCCTAATGTTTTGGGGCATCCCGACAATTATATACCTGCTAA
[AB]DM4.cob         TTTTTTGCTCCTAATGTTTTGGGGCATCCCGACAATTATATACCTGCTAA
[AB]Langdon.cob     TTTTTTGCTCCTAATGTTTTGGGGCATCCCGACAATTATATACCTGCTAA
[AB]81086A.cob      TTTTTTGCTCCTAATGTTTTGGGGCATCCCGACAATTATATACCTGCTAA
[AB]KJ078649.cob    TTTTTTGCTCCTAATGTTTTGGGGCATCCCGACAATTATATACCTGCTAA
[ABD]Lumai1.cob     TTTTTTGCTCCTAATGTTTTGGGGCATCCCGACAATTATATACCTGCTAA
[ABD]Kenong9204.cob TTTTTTGCTCCTAATGTTTTGGGGCATCCCGACAATTATATACCTGCTAA
[ABD]AK58.cob       TTTTTTGCTCCTAATGTTTTGGGGCATCCCGACAATTATATACCTGCTAA
[ABD]AP008982.cob   TTTTTTGCTCCTAATGTTTTGGGGCATCCCGACAATTATATACCTGCTAA
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[ABD]MH051716.cob   TTTTTTGCTCCTAATGTTTTGGGGCATCCCGACAATTATATACCTGCTAA
[S]AP013107.cob     TTTTTTGCTCCTAATGTTTTGGGGCATCCCGACAATTATATACCTGCTAA
[AG]AP013106.cob-A  TTTTTTGCTCCTAATGTTTTGGGGCATCCCGACAATTATATACCTGCTAA
[AG]AP013106.cob-B  TTTTTTGCTCCTAATGTTTTGGGGCATCCCGACAATTATATACCTGCTAA
[D]Clae23.cob       TTTTTTGCTCCTAATGTTTTGGGGCATCCCGACAATTATATACCTGCTAA
[D]AL8/78.cob       TTTTTTGCTCCTAATGTTTTGGGGCATCCCGACAATTATATACCTGCTAA
[D]SQ523.cob        TTTTTTGCTCCTAATGTTTTGGGGCATCCCGACAATTATATACCTGCTAA
[D]Y199.cob         TTTTTTGCTCCTAATGTTTTGGGGCATCCCGACAATTATATACCTGCTAA
[D]Kaifeng1.cob     TTTTTTGCTCCTAATGTTTTGGGGCATCCCGACAATTATATACCTGCTAA
[CD]Jinan0529.cob   TTTTTTGCTCCTAATGTTTTGGGGCATCCCGACAATTATATACCTGCTAA
KJ078648.cob        TTTTTTGCTCCTAATGTTTTGGGGCATCCCGACAATTATATACCTGCTAA
MZ202552.cob        TTTTTTGCTCCTAATGTTTTGGGGCATCCCGACAATTATATACCTGCTAA
MZ202552.cob-p      TTTTTTGCTCCTAATGTTTTGGGGCATCCCGACAATTATATACCTGCTAA
MN127982.cob        TTTTTTGCTCCTAATGTTTTGGGGCATCCCGACAATTATATACCTGCTAA
MN127982.cob-p      TTTTTTGCTCCTAATGTTTTGGGGCATCCCGAC-----------------
OK120846.cob        TTTTTTGCTCCTAATGTTTTGGGGCATCCCGACAATTATATACCTGCTAA
consensus           TTTTTTGCTCCTAATGTTTTGGGGCATCCCGACaattatatacctgctaa
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[A]IX-0946.cob           TCCGATGCCCACCCCGCCTCATATTGTGCCGGAATGGTATTTCCTACCGA
[A]IX-0957.cob           TCCGATGCCCACCCCGCCTCATATTGTGCCGGAATGGTATTTCCTACCGA
[A]IX-0969.cob           TCCGATGCCCACCCCGCCTCATATTGTGCCGGAATGGTATTTCCTACCGA
[A]IX-0976.cob           TCCGATGCCCACCCCGCCTCATATTGTGCCGGAATGGTATTTCCTACCGA
[AB]SCAUP.cob            TCCGATGCCCACCCCGCCTCATATTGTGCCGGAATGGTATTTCCTACCGA
[AB]Hoh501.cob           TCCGATGCCCACCCCGCCTCATATTGTGCCGGAATGGTATTTCCTACCGA
[AB]DM4.cob              TCCGATGCCCACCCCGCCTCATATTGTGCCGGAATGGTATTTCCTACCGA
[AB]Langdon.cob          TCCGATGCCCACCCCGCCTCATATTGTGCCGGAATGGTATTTCCTACCGA
[AB]81086A.cob           TCCGATGCCCACCCCGCCTCATATTGTGCCGGAATGGTATTTCCTACCGA
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[ABD]Lumai1.cob          TCCGATGCCCACCCCGCCTCATATTGTGCCGGAATGGTATTTCCTACCGA
[ABD]Kenong9204.cob      TCCGATGCCCACCCCGCCTCATATTGTGCCGGAATGGTATTTCCTACCGA
[ABD]AK58.cob            TCCGATGCCCACCCCGCCTCATATTGTGCCGGAATGGTATTTCCTACCGA
[ABD]AP008982.cob        TCCGATGCCCACCCCGCCTCATATTGTGCCGGAATGGTATTTCCTACCGA
[ABD]NC 036024.cob       TCCGATGCCCACCCCGCCTCATATTGTGCCGGAATGGTATTTCCTACCGA
[ABD]MH051716.cob        TCCGATGCCCACCCCGCCTCATATTGTGCCGGAATGGTATTTCCTACCGA
[S]AP013107.cob          TCCGATGCCCACCCCGCCTCATATTGTGCCGGAATGGTATTTCCTACCGA
[AG]AP013106.cob-A       TCCGATGCCCACCCCGCCTCATATTGTGCCGGAATGGTATTTCCTACCGA
[AG]AP013106.cob-B       TCCGATGCCCACCCCGCCTCATATTGTGCCGGAATGGTATTTCCTACCGA
[D]Clae23.cob            TCCGATGCCCACCCCGCCTCATATTGTGCCGGAATGGTATTTCCTACCGA
[D]AL8/78.cob            TCCGATGCCCACCCCGCCTCATATTGTGCCGGAATGGTATTTCCTACCGA
[D]SQ523.cob             TCCGATGCCCACCCCGCCTCATATTGTGCCGGAATGGTATTTCCTACCGA
[D]Y199.cob              TCCGATGCCCACCCCGCCTCATATTGTGCCGGAATGGTATTTCCTACCGA
[D]Kaifeng1.cob          TCCGATGCCCACCCCGCCTCATATTGTGCCGGAATGGTATTTCCTACCGA
[CD]Jinan0529.cob        TCCGATGCCCACCCCGCCTCATATTGTGCCGGAATGGTATTTCCTACCGA
KJ078648.cob             TCCGATGCCCACCCCGCCTCATATTGTGCCGGAATGGTATTTCCTACCGA
MZ202552.cob             TCCGATGCCCACCCCGCCTCATATTGTGCCGGAATGGTATTTCCTACCGA
MZ202552.cob-p           TCCGATGCCCACCCCGCCTCATATTGTGCCGGAATGGTATTTCCTACCGA
MN127982.cob             TCCGATGCCCACCCCGCCTCATATTGTGCCGGAATGGTATTTCCTACCGA
MN127982.cob-p           --------------------------------------------------
OK120846.cob             TCCGATGCCCACCCCGCCTCATATTGTGCCGGAATGGTATTTCCTACCGA
consensus                tccgatgcccaccccgcctcatattgtgccggaatggtatttcctaccga

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[A]IX-0976.cob           TCCATGCCATTCTTCGCAGTATACCTGACAAAGCGGGAGGTGTAGCCGCA
[AB]SCAUP.cob            TCCATGCCATTCTTCGCAGTATACCTGACAAAGCGGGAGGTGTAGCCGCA
[AB]Hoh501.cob           TCCATGCCATTCTTCGCAGTATACCTGACAAAGCGGGAGGTGTAGCCGCA
[AB]DM4.cob              TCCATGCCATTCTTCGCAGTATACCTGACAAAGCGGGAGGTGTAGCCGCA
[AB]Langdon.cob          TCCATGCCATTCTTCGCAGTATACCTGACAAAGCGGGAGGTGTAGCCGCA
[AB]81086A.cob           TCCATGCCATTCTTCGCAGTATACCTGACAAAGCGGGAGGTGTAGCCGCA
[AB]KJ078649.cob         TCCATGCCATTCTTCGCAGTATACCTGACAAAGCGGGAGGTGTAGCCGCA
[ABD]Lumai1.cob          TCCATGCCATTCTTCGCAGTATACCTGACAAAGCGGGAGGTGTAGCCGCA
[ABD]Kenong9204.cob      TCCATGCCATTCTTCGCAGTATACCTGACAAAGCGGGAGGTGTAGCCGCA
[ABD]AK58.cob            TCCATGCCATTCTTCGCAGTATACCTGACAAAGCGGGAGGTGTAGCCGCA
[ABD]AP008982.cob        TCCATGCCATTCTTCGCAGTATACCTGACAAAGCGGGAGGTGTAGCCGCA
[ABD]NC 036024.cob       TCCATGCCATTCTTCGCAGTATACCTGACAAAGCGGGAGGTGTAGCCGCA
[ABD]MH051716.cob        TCCATGCCATTCTTCGCAGTATACCTGACAAAGCGGGAGGTGTAGCCGCA
[S]AP013107.cob          TCCATGCCATTCTTCGCAGTATACCTGACAAAGCGGGAGGTGTAGCCGCA
[AG]AP013106.cob-A       TCCATGCCATTCTTCGCAGTATACCTGACAAAGCGGGAGGTGTAGCCGCA
[AG]AP013106.cob-B       TCCATGCCATTCTTCGCAGTATACCTGACAAAGCGGGAGGTGTAGCCGCA
[D]Clae23.cob            TCCATGCCATTCTTCGCAGTATACCTGACAAAGCGGGAGGTGTAGCCGCA
[D]AL8/78.cob            TCCATGCCATTCTTCGCAGTATACCTGACAAAGCGGGAGGTGTAGCCGCA
[D]SQ523.cob             TCCATGCCATTCTTCGCAGTATACCTGACAAAGCGGGAGGTGTAGCCGCA
[D]Y199.cob              TCCATGCCATTCTTCGCAGTATACCTGACAAAGCGGGAGGTGTAGCCGCA
[D]Kaifeng1.cob          TCCATGCCATTCTTCGCAGTATACCTGACAAAGCGGGAGGTGTAGCCGCA
[CD]Jinan0529.cob        TCCATGCCATTCTTCGCAGTATACCTGACAAAGCGGGAGGTGTAGCCGCA
KJ078648.cob             TCCATGCCATTCTTCGCAGTATACCTGACAAAGCGGGAGGTGTAGCCGCA
MZ202552.cob             TCCATGCCATTCTTCGCAGTATACCTGACAAAGCGGGAGGTGTAGCCGCA
MZ202552.cob-p           TCCATGCCATTCTTCGCAGTATACCTGACAAAGCGGGAGGTGTAGCCGCA
MN127982.cob             TCCATGCCATTCTTCGCAGTATACCTGACAAAGCGGGAGGTGTAGCCGCA
MN127982.cob-p           --------------------------------------------------
OK120846.cob             TCCATGCCATTCTTCGCAGTATACCTGACAAAGCGGGAGGTGTAGCCGCA
consensus                tccatgccattcttcgcagtatacctgacaaagcgggaggtgtagccgca
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[A]IX-0946.cob      ATAGCACCAGTTTTTATATCTCTCTTGGCTTTACCTTTTTTTTAAAGAAAT
[A]IX-0957.cob      ATAGCACCAGTTTTTATATCTCTCTTGGCTTTACCTTTTTTTTAAAGAAAT
[A]IX-0969.cob      ATAGCACCAGTTTTTATATCTCTCTTGGCTTTACCTTTTTTTTAAAGAAAT
[A]IX-0976.cob      ATAGCACCAGTTTTTATATCTCTCTTGGCTTTACCTTTTTTTTAAAGAAAT
[AB]SCAUP.cob       ATAGCACCAGTTTTTATATCTCTCTTGGCTTTACCTTTTTTTTAAAGAAAT
[AB]Hoh501.cob      ATAGCACCAGTTTTTATATCTCTCTTGGCTTTACCTTTTTTTTAAAGAAAT
[AB]DM4.cob         ATAGCACCAGTTTTTATATCTCTCTTGGCTTTACCTTTTTTTTAAAGAAAT
[AB]Langdon.cob     ATAGCACCAGTTTTTATATCTCTCTTGGCTTTACCTTTTTTTTAAAGAAAT
[AB]81086A.cob      ATAGCACCAGTTTTTATATCTCTCTTGGCTTTACCTTTTTTTTAAAGAAAT
[AB]KJ078649.cob    ATAGCACCAGTTTTTATATCTCTCTTGGCTTTACCTTTTTTTTAAAGAAAT
[ABD]Lumai1.cob     ATAGCACCAGTTTTTATATCTCTCTTGGCTTTACCTTTTTTTTAAAGAAAT
[ABD]Kenong9204.cob ATAGCACCAGTTTTTATATCTCTCTTGGCTTTACCTTTTTTTTAAAGAAAT
[ABD]AK58.cob       ATAGCACCAGTTTTTATATCTCTCTTGGCTTTACCTTTTTTTTAAAGAAAT
[ABD]AP008982.cob   ATAGCACCAGTTTTTATATCTCTCTTGGCTTTACCTTTTTTTTAAAGAAAT
[ABD]NC 036024.cob  ATAGCACCAGTTTTTATATCTCTCTTGGCTTTACCTTTTTTTTAAAGAAAT
[ABD]MH051716.cob   ATAGCACCAGTTTTTATATCTCTCTTGGCTTTACCTTTTTTTTAAAGAAAT
[S]AP013107.cob     ATAGCACCAGTTTTTATATCTCTCTTGGCTTTACCTTTTTTTTAAAGAAAT
[AG]AP013106.cob-A  ATAGCACCAGTTTTTATATCTCTCTTGGCTTTACCTTTTTTTTAAAGAAAT
[AG]AP013106.cob-B  ATAGCACCAGTTTTTATATCTCTCTTGGCTTTACCTTTTTTTTAAAGAAAT
[D]Clae23.cob       ATAGCACCAGTTTTTATATCTCTCTTGGCTTTACCTTTTTTTTAAAGAAAT
[D]AL8/78.cob       ATAGCACCAGTTTTTATATCTCTCTTGGCTTTACCTTTTTTTTAAAGAAAT
[D]SQ523.cob        ATAGCACCAGTTTTTATATCTCTCTTGGCTTTACCTTTTTTTTAAAGAAAT
[D]Y199.cob         ATAGCACCAGTTTTTATATCTCTCTTGGCTTTACCTTTTTTTTAAAGAAAT
[D]Kaifeng1.cob     ATAGCACCAGTTTTTATATCTCTCTTGGCTTTACCTTTTTTTTAAAGAAAT
[CD]Jinan0529.cob   ATAGCACCAGTTTTTATATCTCTCTTGGCTTTACCTTTTTTTTAAAGAAAT
KJ078648.cob        ATAGCACCAGTTTTTATATCTCTCTTGGCTTTACCTTTTTTTTAAAGAAAT
MZ202552.cob        ATAGCACCAGTTTTTATATCTCTCTTGGCTTTACCTTTTTTTTAAAGAAAT
MZ202552.cob-p      ATAGCACCAGTTTTTATATCTCTCTTG------------------------
MN127982.cob        ATAGCACCAGTTTTTATATCTCTCTTGGCTTTACCTTTTTTTTAAAGAAAT
MN127982.cob-p      --------------------------------------------------
OK120846.cob        ATAGCACCAGTTTTTATATCTCTCTTGGCTTTACCTTTTTTTTAAAGAAAT
consensus           atagcaccagtttttatatctctcttggctttaccttttttttaaagaaat

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[A]IX-0944.cob      GTATGTGCGTAGTTCAAGTTTTCGACCGATTCACCAAGGAATATTTTGGT
[A]IX-0946.cob      GTATGTGCGTAGTTCAAGTTTTCGACCGATTCACCAAGGAATATTTTGGT
[A]IX-0957.cob      GTATGTGCGTAGTTCAAGTTTTCGACCGATTCACCAAGGAATATTTTGGT
[A]IX-0969.cob      GTATGTGCGTAGTTCAAGTTTTCGACCGATTCACCAAGGAATATTTTGGT
[A]IX-0976.cob      GTATGTGCGTAGTTCAAGTTTTCGACCGATTCACCAAGGAATATTTTGGT
[AB]SCAUP.cob       GTATGTGCGTAGTTCAAGTTTTCGACCGATTCACCAAGGAATATTTTGGT
[AB]Hoh501.cob      GTATGTGCGTAGTTCAAGTTTTCGACCGATTCACCAAGGAATATTTTGGT
[AB]DM4.cob         GTATGTGCGTAGTTCAAGTTTTCGACCGATTCACCAAGGAATATTTTGGT
[AB]Langdon.cob     GTATGTGCGTAGTTCAAGTTTTCGACCGATTCACCAAGGAATATTTTGGT
[AB]81086A.cob      GTATGTGCGTAGTTCAAGTTTTCGACCGATTCACCAAGGAATATTTTGGT
[AB]KJ078649.cob    GTATGTGCGTAGTTCAAGTTTTCGACCGATTCACCAAGGAATATTTTGGT
[ABD]Lumai1.cob     GTATGTGCGTAGTTCAAGTTTTCGACCGATTCACCAAGGAATATTTTGGT
[ABD]Kenong9204.cob GTATGTGCGTAGTTCAAGTTTTCGACCGATTCACCAAGGAATATTTTGGT
[ABD]AK58.cob       GTATGTGCGTAGTTCAAGTTTTCGACCGATTCACCAAGGAATATTTTGGT
[ABD]AP008982.cob   GTATGTGCGTAGTTCAAGTTTTCGACCGATTCACCAAGGAATATTTTGGT
[ABD]NC 036024.cob  GTATGTGCGTAGTTCAAGTTTTCGACCGATTCACCAAGGAATATTTTGGT
[ABD]MH051716.cob   GTATGTGCGTAGTTCAAGTTTTCGACCGATTCACCAAGGAATATTTTGGT
[S]AP013107.cob     GTATGTGCGTAGTTCAAGTTTTCGACCGATTCACCAAGGAATATTTTGGT
[AG]AP013106.cob-A  GTATGTGCGTAGTTCAAGTTTTCGACCGATTCACCAAGGAATATTTTGGT
[AG]AP013106.cob-B  GTATGTGCGTAGTTCAAGTTTTCGACCGATTCACCAAGGAATATTTTGGT
[D]Clae23.cob       GTATGTGCGTAGTTCAAGTTTTCGACCGATTCACCAAGGAATATTTTGGT
[D]AL8/78.cob       GTATGTGCGTAGTTCAAGTTTTCGACCGATTCACCAAGGAATATTTTGGT
[D]SQ523.cob        GTATGTGCGTAGTTCAAGTTTTCGACCGATTCACCAAGGAATATTTTGGT
[D]Y199.cob         GTATGTGCGTAGTTCAAGTTTTCGACCGATTCACCAAGGAATATTTTGGT
[D]Kaifeng1.cob     GTATGTGCGTAGTTCAAGTTTTCGACCGATTCACCAAGGAATATTTTGGT
[CD]Jinan0529.cob   GTATGTGCGTAGTTCAAGTTTTCGACCGATTCACCAAGGAATATTTTGGT
KJ078648.cob        GTATGTGCGTAGTTCAAGTTTTCGACCGATTCACCAAGGAATATTTTGGT
MZ202552.cob        GTATGTGCGTAGTTCAAGTTTTCGACCGATTCACCAAGGAATATTTTGGT
MZ202552.cob-p      --------------------------------------------------
MN127982.cob        GTATGTGCGTAGTTCAAGTTTTCGACCGATTCACCAAGGAATATTTTGGT
MN127982.cob-p      --------------------------------------------------
OK120846.cob        GTATGTGCGTAGTTCAAGTTTTCGACCGATTCACCAAGGAATATTTTGGT
consensus           gtatgtgcgtagttcaagttttcgaccgattcaccaaggaatattttggt
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                 ......1010......1020......1030......1040......1050
[A]IX-0944.cob    TGCTTTTGGCGGATTGCTTACTACTAGGTTGGATCGGATGTCAACCTGTG
[A]IX-0946.cob    TGCTTTTGGCGGATTGCTTACTACTAGGTTGGATCGGATGTCAACCTGTG
[A]IX-0957.cob    TGCTTTTGGCGGATTGCTTACTACTAGGTTGGATCGGATGTCAACCTGTG
[A]IX-0969.cob    TGCTTTTGGCGGATTGCTTACTACTAGGTTGGATCGGATGTCAACCTGTG
[A]IX-0976.cob    TGCTTTTGGCGGATTGCTTACTACTAGGTTGGATCGGATGTCAACCTGTG
[AB]SCAUP.cob     TGCTTTTGGCGGATTGCTTACTACTAGGTTGGATCGGATGTCAACCTGTG
[AB]Hoh501.cob    TGCTTTTGGCGGATTGCTTACTACTAGGTTGGATCGGATGTCAACCTGTG
[AB]DM4.cob       TGCTTTTGGCGGATTGCTTACTACTAGGTTGGATCGGATGTCAACCTGTG
[AB]Langdon.cob   TGCTTTTGGCGGATTGCTTACTACTAGGTTGGATCGGATGTCAACCTGTG
[AB]81086A.cob    TGCTTTTGGCGGATTGCTTACTACTAGGTTGGATCGGATGTCAACCTGTG
[AB]KJ078649.cob  TGCTTTTGGCGGATTGCTTACTACTAGGTTGGATCGGATGTCAACCTGTG
[ABD]Lumai1.cob   TGCTTTTGGCGGATTGCTTACTACTAGGTTGGATCGGATGTCAACCTGTG
[ABD]Kenong9204.cob TGCTTTTGGCGGATTGCTTACTACTAGGTTGGATCGGATGTCAACCTGTG
[ABD]AK58.cob     TGCTTTTGGCGGATTGCTTACTACTAGGTTGGATCGGATGTCAACCTGTG
[ABD]AP008982.cob TGCTTTTGGCGGATTGCTTACTACTAGGTTGGATCGGATGTCAACCTGTG
[ABD]NC 036024.cob TGCTTTTGGCGGATTGCTTACTACTAGGTTGGATCGGATGTCAACCTGTG
[ABD]MH051716.cob TGCTTTTGGCGGATTGCTTACTACTAGGTTGGATCGGATGTCAACCTGTG
[S]AP013107.cob   TGCTTTTGGCGGATTGCTTACTACTAGGTTGGATCGGATGTCAACCTGTG
[AG]AP013106.cob-A TGCTTTTGGCGGATTGCTTACTACTAGGTTGGATCGGATGTCAACCTGTG
[AG]AP013106.cob-B TGCTTTTGGCGGATTGCTTACTACTAGGTTGGATCGGATGTCAACCTGTG
[D]Clae23.cob     TGCTTTTGGCGGATTGCTTACTACTAGGTTGGATCGGATGTCAACCTGTG
[D]AL8/78.cob     TGCTTTTGGCGGATTGCTTACTACTAGGTTGGATCGGATGTCAACCTGTG
[D]SQ523.cob      TGCTTTTGGCGGATTGCTTACTACTAGGTTGGATCGGATGTCAACCTGTG
[D]Y199.cob       TGCTTTTGGCGGATTGCTTACTACTAGGTTGGATCGGATGTCAACCTGTG
[D]Kaifeng1.cob   TGCTTTTGGCGGATTGCTTACTACTAGGTTGGATCGGATGTCAACCTGTG
[CD]Jinan0529.cob TGCTTTTGGCGGATTGCTTACTACTAGGTTGGATCGGATGTCAACCTGTG
KJ078648.cob      TGCTTTTGGCGGATTGCTTACTACTAGGTTGGATCGGATGTCAACCTGTG
MZ202552.cob      TGCTTTTGGCGGATTGCTTACTACTAGGTTGGATCGGATGTCAACCTGTG
MZ202552.cob-p    --------------------------------------------------
MN127982.cob      TGCTTTTGGCGGATTGCTTACTACTAGGTTGGATCGGATGTCAACCTGTG
MN127982.cob-p    --------------------------------------------------
OK120846.cob      TGCTTTTGGCGGATTGCTTACTACTAGGTTGGATCGGATGTCAACCTGTG
consensus         tgcttttggcggattgcttactactaggttggatcggatgtcaacctgtg

                 ......1060......1070......1080......1090......1100
[A]IX-0944.cob    GAGGCACCATTTGTTACTATTGGACAAATTCCTTCTGTCTTTTTCTTCTT
[A]IX-0946.cob    GAGGCACCATTTGTTACTATTGGACAAATTCCTTCTGTCTTTTTCTTCTT
[A]IX-0957.cob    GAGGCACCATTTGTTACTATTGGACAAATTCCTTCTGTCTTTTTCTTCTT
[A]IX-0969.cob    GAGGCACCATTTGTTACTATTGGACAAATTCCTTCTGTCTTTTTCTTCTT
[A]IX-0976.cob    GAGGCACCATTTGTTACTATTGGACAAATTCCTTCTGTCTTTTTCTTCTT
[AB]SCAUP.cob     GAGGCACCATTTGTTACTATTGGACAAATTCCTTCTGTCTTTTTCTTCTT
[AB]Hoh501.cob    GAGGCACCATTTGTTACTATTGGACAAATTCCTTCTGTCTTTTTCTTCTT
[AB]DM4.cob       GAGGCACCATTTGTTACTATTGGACAAATTCCTTCTGTCTTTTTCTTCTT
[AB]Langdon.cob   GAGGCACCATTTGTTACTATTGGACAAATTCCTTCTGTCTTTTTCTTCTT
[AB]81086A.cob    GAGGCACCATTTGTTACTATTGGACAAATTCCTTCTGTCTTTTTCTTCTT
[AB]KJ078649.cob  GAGGCACCATTTGTTACTATTGGACAAATTCCTTCTGTCTTTTTCTTCTT
[ABD]Lumai1.cob   GAGGCACCATTTGTTACTATTGGACAAATTCCTTCTGTCTTTTTCTTCTT
[ABD]Kenong9204.cob GAGGCACCATTTGTTACTATTGGACAAATTCCTTCTGTCTTTTTCTTCTT
[ABD]AK58.cob     GAGGCACCATTTGTTACTATTGGACAAATTCCTTCTGTCTTTTTCTTCTT
[ABD]AP008982.cob GAGGCACCATTTGTTACTATTGGACAAATTCCTTCTGTCTTTTTCTTCTT
[ABD]NC 036024.cob GAGGCACCATTTGTTACTATTGGACAAATTCCTTCTGTCTTTTTCTTCTT
[ABD]MH051716.cob GAGGCACCATTTGTTACTATTGGACAAATTCCTTCTGTCTTTTTCTTCTT
[S]AP013107.cob   GAGGCACCATTTGTTACTATTGGACAAATTCCTTCTGTCTTTTTCTTCTT
[AG]AP013106.cob-A GAGGCACCATTTGTTACTATTGGACAAATTCCTTCTGTCTTTTTCTTCTT
[AG]AP013106.cob-B GAGGCACCATTTGTTACTATTGGACAAATTCCTTCTGTCTTTTTCTTCTT
[D]Clae23.cob     GAGGCACCATTTGTTACTATTGGACAAATTCCTTCTGTCTTTTTCTTCTT
[D]AL8/78.cob     GAGGCACCATTTGTTACTATTGGACAAATTCCTTCTGTCTTTTTCTTCTT
[D]SQ523.cob      GAGGCACCATTTGTTACTATTGGACAAATTCCTTCTGTCTTTTTCTTCTT
[D]Y199.cob       GAGGCACCATTTGTTACTATTGGACAAATTCCTTCTGTCTTTTTCTTCTT
[D]Kaifeng1.cob   GAGGCACCATTTGTTACTATTGGACAAATTCCTTCTGTCTTTTTCTTCTT
[CD]Jinan0529.cob GAGGCACCATTTGTTACTATTGGACAAATTCCTTCTGTCTTTTTCTTCTT
KJ078648.cob      GAGGCACCATTTGTTACTATTGGACAAATTCCTTCTGTCTTTTTCTTCTT
MZ202552.cob      GAGGCACCATTTGTTACTATTGGACAAATTCCTTCTGTCTTTTTCTTCTT
MZ202552.cob-p    --------------------------------------------------
MN127982.cob      GAGGCACCATTTGTTACTATTGGACAAATTCCTTCTGTCTTTTTCTTCTT
MN127982.cob-p    --------------------------------------------------
OK120846.cob      GAGGCACCATTTGTTACTATTGGACAAATTCCTTCTGTCTTTTTCTTCTT
consensus         gaggcaccatttgttactattggacaaattccttctgtctttttcttctt
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[A]IX-0944.cob     GTTCTTTGCCATAACGCCCATTCCGGGACGAGTTGGAAGAGGAATTCCAA
[A]IX-0946.cob     GTTCTTTGCCATAACGCCCATTCCGGGACGAGTTGGAAGAGGAATTCCAA
[A]IX-0957.cob     GTTCTTTGCCATAACGCCCATTCCGGGACGAGTTGGAAGAGGAATTCCAA
[A]IX-0969.cob     GTTCTTTGCCATAACGCCCATTCCGGGACGAGTTGGAAGAGGAATTCCAA
[A]IX-0976.cob     GTTCTTTGCCATAACGCCCATTCCGGGACGAGTTGGAAGAGGAATTCCAA
[AB]SCAUP.cob      GTTCTTTGCCATAACGCCCATTCCGGGACGAGTTGGAAGAGGAATTCCAA
[AB]Hoh501.cob     GTTCTTTGCCATAACGCCCATTCCGGGACGAGTTGGAAGAGGAATTCCAA
[AB]DM4.cob        GTTCTTTGCCATAACGCCCATTCCGGGACGAGTTGGAAGAGGAATTCCAA
[AB]Langdon.cob    GTTCTTTGCCATAACGCCCATTCCGGGACGAGTTGGAAGAGGAATTCCAA
[AB]81086A.cob     GTTCTTTGCCATAACGCCCATTCCGGGACGAGTTGGAAGAGGAATTCCAA
[AB]KJ078649.cob   GTTCTTTGCCATAACGCCCATTCCGGGACGAGTTGGAAGAGGAATTCCAA
[ABD]Lumai1.cob    GTTCTTTGCCATAACGCCCATTCCGGGACGAGTTGGAAGAGGAATTCCAA
[ABD]Kenong9204.cob GTTCTTTGCCATAACGCCCATTCCGGGACGAGTTGGAAGAGGAATTCCAA
[ABD]AK58.cob      GTTCTTTGCCATAACGCCCATTCCGGGACGAGTTGGAAGAGGAATTCCAA
[ABD]AP008982.cob  GTTCTTTGCCATAACGCCCATTCCGGGACGAGTTGGAAGAGGAATTCCAA
[ABD]NC 036024.cob GTTCTTTGCCATAACGCCCATTCCGGGACGAGTTGGAAGAGGAATTCCAA
[ABD]MH051716.cob  GTTCTTTGCCATAACGCCCATTCCGGGACGAGTTGGAAGAGGAATTCCAA
[S]AP013107.cob    GTTCTTTGCCATAACGCCCATTCCGGGACGAGTTGGAAGAGGAATTCCAA
[AG]AP013106.cob-A GTTCTTTGCCATAACGCCCATTCCGGGACGAGTTGGAAGAGGAATTCCAA
[AG]AP013106.cob-B GTTCTTTGCCATAACGCCCATTCCGGGACGAGTTGGAAGAGGAATTCCAA
[D]Clae23.cob      GTTCTTTGCCATAACGCCCATTCCGGGACGAGTTGGAAGAGGAATTCCAA
[D]AL8/78.cob      GTTCTTTGCCATAACGCCCATTCCGGGACGAGTTGGAAGAGGAATTCCAA
[D]SQ523.cob       GTTCTTTGCCATAACGCCCATTCCGGGACGAGTTGGAAGAGGAATTCCAA
[D]Y199.cob        GTTCTTTGCCATAACGCCCATTCCGGGACGAGTTGGAAGAGGAATTCCAA
[D]Kaifeng1.cob    GTTCTTTGCCATAACGCCCATTCCGGGACGAGTTGGAAGAGGAATTCCAA
[CD]Jinan0529.cob  GTTCTTTGCCATAACGCCCATTCCGGGACGAGTTGGAAGAGGAATTCCAA
KJ078648.cob       GTTCTTTGCCATAACGCCCATTCCGGGACGAGTTGGAAGAGGAATTCCAA
MZ202552.cob       GTTCTTTGCCATAACGCCCATTCCGGGACGAGTTGGAAGAGGAATTCCAA
MZ202552.cob-p     --------------------------------------------------
MN127982.cob       GTTCTTTGCCATAACGCCCATTCCGGGACGAGTTGGAAGAGGAATTCCAA
MN127982.cob-p     --------------------------------------------------
OK120846.cob       GTTCTTTGCCATAACGCCCATTCCGGGACGAGTTGGAAGAGGAATTCCAA
consensus          gttctttgccataacgcccattccgggacgagttggaagaggaattccaa

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[A]IX-0944.cob     AATATTACACGGATGAGACTCATCGCACCGGATCCTTT--TCC-------
[A]IX-0946.cob     AATATTACACGGATGAGACTCATCGCACCGGATCCTTT--TCC-------
[A]IX-0957.cob     AATATTACACGGATGAGACTCATCGCACCGGATCCTTT--TCC-------
[A]IX-0969.cob     AATATTACACGGATGAGACTCATCGCACCGGATCCTTT--TCC-------
[A]IX-0976.cob     AATATTACACGGATGAGACTCATCGCACCGGATCCTTT--TCC-------
[AB]SCAUP.cob      AATATTACACGGATGAGACTCATCGCACCGGATCCTTT-------TGGC
[AB]Hoh501.cob     AATATTACACGGATGAGACTCATCGCACCGGATCCTTT-------TGGC
[AB]DM4.cob        AATATTACACGGATGAGACTCATCGCACCGGATCCTTT-------TGGC
[AB]Langdon.cob    AATATTACACGGATGAGACTCATCGCACCGGATCCTTT-------TGGC
[AB]81086A.cob     AATATTACACGGATGAGACTCATCGCACCGGATCCTTT-------TGGC
[AB]KJ078649.cob   AATATTACACGGATGAGACTCATCGCACCGGATCCTTT-------TGGC
[ABD]Lumai1.cob    AATATTACACGGATGAGACTCATCGCACCGGATCCTTT-------TGGC
[ABD]Kenong9204.cob AATATTACACGGATGAGACTCATCGCACCGGATCCTTT-------TGGC
[ABD]AK58.cob      AATATTACACGGATGAGACTCATCGCACCGGATCCTTT-------TGGC
[ABD]AP008982.cob  AATATTACACGGATGAGACTCATCGCACCGGATCCTTT-------TGGC
[ABD]NC 036024.cob AATATTACACGGATGAGACTCATCGCACCGGATCCTTT-------TGGC
[ABD]MH051716.cob  AATATTACACGGATGAGACTCATCGCACCGGATCCTTT-------TGGC
[S]AP013107.cob    AATATTACACGGATGAGACTCATCGCACCGGATCCTTTTCTCCTTTTGGC
[AG]AP013106.cob-A AATATTACACGGATGAGACTCATCGCACCGGATCCTTTTCTCCTTTTGGC
[AG]AP013106.cob-B AATATTACACGGATGAGACTCATCGCACCGGATCCTT-------------
[D]Clae23.cob      AATATTACACGGATGAGACTCATCGCACCGGATCCTT-------------
[D]AL8/78.cob      AATATTACACGGATGAGACTCATCGCACCGGATCCTT-------------
[D]SQ523.cob       AATATTACACGGATGAGACTCATCGCACCGGATCCTT-------------
[D]Y199.cob        AATATTACACGGATGAGACTCATCGCACCGGATCCTT-------------
[D]Kaifeng1.cob    AATATTACACGGATGAGACTCATCGCACCGGATCCTT-------------
[CD]Jinan0529.cob  AATATTACACGGATGAGACTCATCGCACCGGATCCTTTTCTCCTTTTGGC
KJ078648.cob       AATATTACACGGATGAGACTCATCGCACCGGATCCTT-------------
MZ202552.cob       AATATTACACGGATGAGACTCATCGCACCGGATCCTT-------------
MZ202552.cob-p     --------------------------------------------------
MN127982.cob       AATATTACACGGATGAGACTCATCGCACCGGATCCTT-------------
MN127982.cob-p     --------------------------------------------------
OK120846.cob       AATATTACACGGATGAGACTCATCGCACCGGATCCTT-------------
consensus          aatattacacggatgagactcatcgcaccggatccttt
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[A]IX-0944.cob         --------------------------------------------------
[A]IX-0946.cob         --------------------------------------------------
[A]IX-0957.cob         --------------------------------------------------
[A]IX-0969.cob         --------------------------------------------------
[A]IX-0976.cob         --------------------------------------------------
[AB]SCAUP.cob          CATAG---------------------------------------------
[AB]Hoh501.cob         CATAG---------------------------------------------
[AB]DM4.cob            CATAG---------------------------------------------
[AB]Langdon.cob        CATAG---------------------------------------------
[AB]81086A.cob         CATAG---------------------------------------------
[AB]KJ078649.cob       CATAG---------------------------------------------
[ABD]Lumai1.cob        CATAG---------------------------------------------
[ABD]Kenong9204.cob    CATAG---------------------------------------------
[ABD]AK58.cob          CATAG---------------------------------------------
[ABD]AP008982.cob      CATAG---------------------------------------------
[ABD]NC 036024.cob     CATAG---------------------------------------------
[ABD]MH051716.cob      CATAG---------------------------------------------
[S]AP013107.cob        CATAGCCATAGAAGAAGCTGCTCCTCCGAAGCGGAGGGAGGGGAATCTAT
[AG]AP013106.cob-A     CATAGCCATAGAAGAAGCTGCTCCTCCGAAGCGGAGGGAGGGGAATCTAT
[AG]AP013106.cob-B     ---------AGA-----C--------------------------------
[D]Clae23.cob          ---------AGA-----C--------------------------------
[D]AL8/78.cob          ---------AGA-----C--------------------------------
[D]SQ523.cob           ---------AGA-----C--------------------------------
[D]Y199.cob            ---------AGA-----C--------------------------------
[D]Kaifeng1.cob        ---------AGA-----C--------------------------------
[CD]Jinan0529.cob      CATAGCCATATAAGAAGCTTCTCCTCCAAAGCGGAGGGAGGGGAATCTCA
KJ078648.cob           ---------AGA-----C--------------------------------
MZ202552.cob           ---------AGA-----C--------------------------------
MZ202552.cob-p         --------------------------------------------------
MN127982.cob           ---------AGA-----C--------------------------------
MN127982.cob-p         --------------------------------------------------
OK120846.cob           ---------AGA-----C--------------------------------
consensus

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[A]IX-0944.cob         --------------------------------------------------
[A]IX-0946.cob         --------------------------------------------------
[A]IX-0957.cob         --------------------------------------------------
[A]IX-0969.cob         --------------------------------------------------
[A]IX-0976.cob         --------------------------------------------------
[AB]SCAUP.cob          --------------------------------------------------
[AB]Hoh501.cob         --------------------------------------------------
[AB]DM4.cob            --------------------------------------------------
[AB]Langdon.cob        --------------------------------------------------
[AB]81086A.cob         --------------------------------------------------
[AB]KJ078649.cob       --------------------------------------------------
[ABD]Lumai1.cob        --------------------------------------------------
[ABD]Kenong9204.cob    --------------------------------------------------
[ABD]AK58.cob          --------------------------------------------------
[ABD]AP008982.cob      --------------------------------------------------
[ABD]NC 036024.cob     --------------------------------------------------
[ABD]MH051716.cob      --------------------------------------------------
[S]AP013107.cob        TGATTCCTATAACCCTGCTTATATAGCGTTTTTAAGACAACATTTAGGGT
[AG]AP013106.cob-A     TGATTCCTATAACCCTGCTTATATAGCGTTTTTAAGACAACATTTAGGGT
[AG]AP013106.cob-B     --------------------------------------------------
[D]Clae23.cob          --------------------------------------------------
[D]AL8/78.cob          --------------------------------------------------
[D]SQ523.cob           --------------------------------------------------
[D]Y199.cob            --------------------------------------------------
[D]Kaifeng1.cob        --------------------------------------------------
[CD]Jinan0529.cob      GGATTCCTATGACCCTGCTTATATAGATTTTTTAAGAGCTCGTTTAGGGT
KJ078648.cob           --------------------------------------------------
MZ202552.cob           --------------------------------------------------
MZ202552.cob-p         --------------------------------------------------
MN127982.cob           --------------------------------------------------
MN127982.cob-p         --------------------------------------------------
OK120846.cob           --------------------------------------------------
consensus
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                        ......1310......1320......1330......1340......1350
[A]IX-0944.cob          --------------------------------------------------
[A]IX-0946.cob          --------------------------------------------------
[A]IX-0957.cob          --------------------------------------------------
[A]IX-0969.cob          --------------------------------------------------
[A]IX-0976.cob          --------------------------------------------------
[AB]SCAUP.cob           --------------------------------------------------
[AB]Hoh501.cob          --------------------------------------------------
[AB]DM4.cob             --------------------------------------------------
[AB]Langdon.cob         --------------------------------------------------
[AB]81086A.cob          --------------------------------------------------
[AB]KJ078649.cob        --------------------------------------------------
[ABD]Lumai1.cob         --------------------------------------------------
[ABD]Kenong9204.cob     --------------------------------------------------
[ABD]AK58.cob           --------------------------------------------------
[ABD]AP008982.cob       --------------------------------------------------
[ABD]NC 036024.cob      --------------------------------------------------
[ABD]MH051716.cob       --------------------------------------------------
[S]AP013107.cob         TTTTCCCGGGTTTGGTACCAAATCTGGATAAACTCCTTTCGGTTCTTAAA
[AG]AP013106.cob-A      TTTTCCCGGGTTTGGTACCAAATCTGGATAAACTCCTTTCGGTTCTTAAA
[AG]AP013106.cob-B      --------------------------------------------------
[D]Clae23.cob           --------------------------------------------------
[D]AL8/78.cob           --------------------------------------------------
[D]SQ523.cob            --------------------------------------------------
[D]Y199.cob             --------------------------------------------------
[D]Kaifeng1.cob         --------------------------------------------------
[CD]Jinan0529.cob       TTTTCCCGGGTTTGGTACCAAATCTGGATAAACTCCTTTCGGTTCTTAAA
KJ078648.cob            --------------------------------------------------
MZ202552.cob            --------------------------------------------------
MZ202552.cob-p          --------------------------------------------------
MN127982.cob            --------------------------------------------------
MN127982.cob-p          --------------------------------------------------
OK120846.cob            --------------------------------------------------
consensus

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[A]IX-0946.cob          --------------------------------------------------
[A]IX-0957.cob          --------------------------------------------------
[A]IX-0969.cob          --------------------------------------------------
[A]IX-0976.cob          --------------------------------------------------
[AB]SCAUP.cob           --------------------------------------------------
[AB]Hoh501.cob          --------------------------------------------------
[AB]DM4.cob             --------------------------------------------------
[AB]Langdon.cob         --------------------------------------------------
[AB]81086A.cob          --------------------------------------------------
[AB]KJ078649.cob        --------------------------------------------------
[ABD]Lumai1.cob         --------------------------------------------------
[ABD]Kenong9204.cob     --------------------------------------------------
[ABD]AK58.cob           --------------------------------------------------
[ABD]AP008982.cob       --------------------------------------------------
[ABD]NC 036024.cob      --------------------------------------------------
[ABD]MH051716.cob       --------------------------------------------------
[S]AP013107.cob         CCGGAGGAAATTCTCTTTCTGGCTTTCCGCTTCCCGCGGGATGCGAACAT
[AG]AP013106.cob-A      CCGGAGGAAATTCTCTTTCTGGCTTTCCGCTTCCCGCGGGATGCGAACAT
[AG]AP013106.cob-B      --------------------------------------------------
[D]Clae23.cob           --------------------------------------------------
[D]AL8/78.cob           --------------------------------------------------
[D]SQ523.cob            --------------------------------------------------
[D]Y199.cob             --------------------------------------------------
[D]Kaifeng1.cob         --------------------------------------------------
[CD]Jinan0529.cob       CCTGAGGAAATTCTATTTCTGGCTTTTCGCTTCCCGCGGGATGCGAACAT
KJ078648.cob            --------------------------------------------------
MZ202552.cob            --------------------------------------------------
MZ202552.cob-p          --------------------------------------------------
MN127982.cob            --------------------------------------------------
MN127982.cob-p          --------------------------------------------------
OK120846.cob            --------------------------------------------------
consensus
```

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                  ......1410......1420......1430......1440......1450
[A]IX-0944.cob    --------------------------------------------------
[A]IX-0946.cob    --------------------------------------------------
[A]IX-0957.cob    --------------------------------------------------
[A]IX-0969.cob    --------------------------------------------------
[A]IX-0976.cob    --------------------------------------------------
[AB]SCAUP.cob     --------------------------------------------------
[AB]Hoh501.cob    --------------------------------------------------
[AB]DM4.cob       --------------------------------------------------
[AB]Langdon.cob   --------------------------------------------------
[AB]81086A.cob    --------------------------------------------------
[AB]KJ078649.cob  --------------------------------------------------
[ABD]Lumai1.cob   --------------------------------------------------
[ABD]Kenong9204.cob -------------------------------------------------
[ABD]AK58.cob     --------------------------------------------------
[ABD]AP008982.cob --------------------------------------------------
[ABD]NC 036024.cob --------------------------------------------------
[ABD]MH051716.cob --------------------------------------------------
[S]AP013107.cob   GTTTAAATTGCCCCTAAAGAAGATCAAAGATATGATTAAAGAAGTAATGG
[AG]AP013106.cob-A GTTTAAATTGCCCCTAAAGAAGATCAAAGATATGATTAAAGAAGTAATGG
[AG]AP013106.cob-B --------------------------------------------------
[D]Clae23.cob     --------------------------------------------------
[D]AL8/78.cob     --------------------------------------------------
[D]SQ523.cob      --------------------------------------------------
[D]Y199.cob       --------------------------------------------------
[D]Kaifeng1.cob   --------------------------------------------------
[CD]Jinan0529.cob GTTTAAATTGCCCCTAAAGAATATCCAAAATATGATTAAAGAAGCGATGG
KJ078648.cob      --------------------------------------------------
MZ202552.cob      --------------------------------------------------
MZ202552.cob-p    --------------------------------------------------
MN127982.cob      --------------------------------------------------
MN127982.cob-p    --------------------------------------------------
OK120846.cob      --------------------------------------------------
consensus         

                  ......1460......1470......1480......1490......1500
[A]IX-0944.cob    --------------------------------------------------
[A]IX-0946.cob    --------------------------------------------------
[A]IX-0957.cob    --------------------------------------------------
[A]IX-0969.cob    --------------------------------------------------
[A]IX-0976.cob    --------------------------------------------------
[AB]SCAUP.cob     --------------------------------------------------
[AB]Hoh501.cob    --------------------------------------------------
[AB]DM4.cob       --------------------------------------------------
[AB]Langdon.cob   --------------------------------------------------
[AB]81086A.cob    --------------------------------------------------
[AB]KJ078649.cob  --------------------------------------------------
[ABD]Lumai1.cob   --------------------------------------------------
[ABD]Kenong9204.cob -------------------------------------------------
[ABD]AK58.cob     --------------------------------------------------
[ABD]AP008982.cob --------------------------------------------------
[ABD]NC 036024.cob --------------------------------------------------
[ABD]MH051716.cob --------------------------------------------------
[S]AP013107.cob   CTAAAGAGGAGGAAAACAGATACAAGCCTCCGGTGGAAGGTTGTGAAGAC
[AG]AP013106.cob-A CTAAAGAGGAGGAAAACAGATACAAGCCTCCGGTGGAAGGTTGTGAAGAC
[AG]AP013106.cob-B --------------------------------------------------
[D]Clae23.cob     --------------------------------------------------
[D]AL8/78.cob     --------------------------------------------------
[D]SQ523.cob      --------------------------------------------------
[D]Y199.cob       --------------------------------------------------
[D]Kaifeng1.cob   --------------------------------------------------
[CD]Jinan0529.cob ------AGGAGGAAAACAGATACAAGCCTCCGGTGGAAGGTTGTGAAGAC
KJ078648.cob      --------------------------------------------------
MZ202552.cob      --------------------------------------------------
MZ202552.cob-p    --------------------------------------------------
MN127982.cob      --------------------------------------------------
MN127982.cob-p    --------------------------------------------------
OK120846.cob      --------------------------------------------------
consensus         
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                        ......1510......1520......1530......1540......1550
[A]IX-0944.cob          --------------------------------------------------
[A]IX-0946.cob          --------------------------------------------------
[A]IX-0957.cob          --------------------------------------------------
[A]IX-0969.cob          --------------------------------------------------
[A]IX-0976.cob          --------------------------------------------------
[AB]SCAUP.cob           --------------------------------------------------
[AB]Hoh501.cob          --------------------------------------------------
[AB]DM4.cob             --------------------------------------------------
[AB]Langdon.cob         --------------------------------------------------
[AB]81086A.cob          --------------------------------------------------
[AB]KJ078649.cob        --------------------------------------------------
[ABD]Lumai1.cob         --------------------------------------------------
[ABD]Kenong9204.cob     --------------------------------------------------
[ABD]AK58.cob           --------------------------------------------------
[ABD]AP008982.cob       --------------------------------------------------
[ABD]NC 036024.cob      --------------------------------------------------
[ABD]MH051716.cob       --------------------------------------------------
[S]AP013107.cob         C---TAAGTATGACGGAGGAGGAAAACAGATACAAGCCTCCGGTGGAAGG
[AG]AP013106.cob-A      C---TAAGTATGACGGAGGAGGAAAACAGATACAAGCCTCCGGTGGAAGG
[AG]AP013106.cob-B      --------------------------------------------------
[D]Clae23.cob           --------------------------------------------------
[D]AL8/78.cob           --------------------------------------------------
[D]SQ523.cob            --------------------------------------------------
[D]Y199.cob             --------------------------------------------------
[D]Kaifeng1.cob         --------------------------------------------------
[CD]Jinan0529.cob       CGTC---GTATGA----------------------------CT---------
KJ078648.cob            --------------------------------------------------
MZ202552.cob            --------------------------------------------------
MZ202552.cob-p          --------------------------------------------------
MN127982.cob            --------------------------------------------------
MN127982.cob-p          --------------------------------------------------
OK120846.cob            --------------------------------------------------
consensus

                        ......1560......1570......1580......1590......1600
[A]IX-0944.cob          --------------------------------------------------
[A]IX-0946.cob          --------------------------------------------------
[A]IX-0957.cob          --------------------------------------------------
[A]IX-0969.cob          --------------------------------------------------
[A]IX-0976.cob          --------------------------------------------------
[AB]SCAUP.cob           --------------------------------------------------
[AB]Hoh501.cob          --------------------------------------------------
[AB]DM4.cob             --------------------------------------------------
[AB]Langdon.cob         --------------------------------------------------
[AB]81086A.cob          --------------------------------------------------
[AB]KJ078649.cob        --------------------------------------------------
[ABD]Lumai1.cob         --------------------------------------------------
[ABD]Kenong9204.cob     --------------------------------------------------
[ABD]AK58.cob           --------------------------------------------------
[ABD]AP008982.cob       --------------------------------------------------
[ABD]NC 036024.cob      --------------------------------------------------
[ABD]MH051716.cob       --------------------------------------------------
[S]AP013107.cob         TTGTGAAAAGACCTAA----------------------------------
[AG]AP013106.cob-A      TTGTGAA--GACCTAAGTATGACGGAGGAGGAAAGGAAAAAATTGCTGGA
[AG]AP013106.cob-B      --------------------------------------------------
[D]Clae23.cob           --------------------------------------------------
[D]AL8/78.cob           --------------------------------------------------
[D]SQ523.cob            --------------------------------------------------
[D]Y199.cob             --------------------------------------------------
[D]Kaifeng1.cob         --------------------------------------------------
[CD]Jinan0529.cob       ----------------CC------------GGAGGAAAGGACAAAATTGCTTGA
KJ078648.cob            --------------------------------------------------
MZ202552.cob            --------------------------------------------------
MZ202552.cob-p          --------------------------------------------------
MN127982.cob            --------------------------------------------------
MN127982.cob-p          --------------------------------------------------
OK120846.cob            --------------------------------------------------
consensus
```

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                         .......1610......1620......1630....
[A]IX-0944.cob           -------------------------------TGA
[A]IX-0946.cob           -------------------------------TGA
[A]IX-0957.cob           -------------------------------TGA
[A]IX-0969.cob           -------------------------------TGA
[A]IX-0976.cob           -------------------------------TGA
[AB]SCAUP.cob            -------------------------------
[AB]Hoh501.cob           -------------------------------
[AB]DM4.cob              -------------------------------
[AB]Langdon.cob          -------------------------------
[AB]81086A.cob           -------------------------------
[AB]KJ078649.cob         -------------------------------
[ABD]Lumai1.cob          -------------------------------
[ABD]Kenong9204.cob      -------------------------------
[ABD]AK58.cob            -------------------------------
[ABD]AP008982.cob        -------------------------------
[ABD]NC 036024.cob       -------------------------------
[ABD]MH051716.cob        -------------------------------
[S]AP013107.cob          -------------------------------
[AG]AP013106.cob-A       AGCATTTTCTTTCCTATGGGATAAAAAACAATGA
[AG]AP013106.cob-B       -----------------GGA----------TGA
[D]Clae23.cob            -----------------GGA----------TGA
[D]AL8/78.cob            -----------------GGA----------TGA
[D]SQ523.cob             -----------------GGA----------TGA
[D]Y199.cob              -----------------GGA----------TGA
[D]Kaifeng1.cob          -----------------GGA----------TGA
[CD]Jinan0529.cob        AGCATTTTCTTTCCTATGGGATAAAAAAAAATGA
KJ078648.cob             -----------------GGA----------TGA
MZ202552.cob             -----------------GGA----------TGA
MZ202552.cob-p           ----------------------------------
MN127982.cob             -----------------GGA----------TGA
MN127982.cob-p           ----------------------------------
OK120846.cob             -----------------GGA----------TGA
consensus                                              tga
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                      .........10........20........30........40........50
[A]IX-0944.nad6        ATGCGTCTTCTTGCTCCAGCATTCAAGTTCCATTTCAAGGGAGGACGACG
[A]IX-0946.nad6        ATGCGTCTTCTTGCTCCAGCATTCAAGTTCCATTTCAAGGGAGGACGACG
[A]IX-0957.nad6        ATGCGTCTTCTTGCTCCAGCATTCAAGTTCCATTTCAAGGGAGGACGACG
[A]IX-0969.nad6        ATGCGTCTTCTTGCTCCAGCATTCAAGTTCCATTTCAAGGGAGGACGACG
[A]IX-0976.nad6        ATGCGTCTTCTTGCTCCAGCATTCAAGTTCCATTTCAAGGGAGGACGACG
[AB]SCAUP.nad6         ATGCGTCTTCTTGCTCCAGCATTCAAGTTCCATTTCAAGGGAGGACGACG
[AB]Hoh501.nad6        ATGCGTCTTCTTGCTCCAGCATTCAAGTTCCATTTCAAGGGAGGACGACG
[AB]DM4.nad6           ATGCGTCTTCTTGCTCCAGCATTCAAGTTCCATTTCAAGGGAGGACGACG
[AB]Langdon.nad6       ATGCGTCTTCTTGCTCCAGCATTCAAGTTCCATTTCAAGGGAGGACGACG
[AB]81086A.nad6        ATGCGTCTTCTTGCTCCAGCATTCAAGTTCCATTTCAAGGGAGGACGACG
[AB]KJ078649.nad6      ATGCGTCTTCTTGCTCCAGCATTCAAGTTCCATTTCAAGGGAGGACGACG
[ABD]Lumai1.nad6       ATGCGTCTTCTTGCTCCAGCATTCAAGTTCCATTTCAAGGGAGGACGACG
[ABD]Kenong9204.nad6   ATGCGTCTTCTTGCTCCAGCATTCAAGTTCCATTTCAAGGGAGGACGACG
[ABD]AK58.nad6         ATGCGTCTTCTTGCTCCAGCATTCAAGTTCCATTTCAAGGGAGGACGACG
[ABD]AP008982.nad6     ATGCGTCTTCTTGCTCCAGCATTCAAGTTCCATTTCAAGGGAGGACGACG
[ABD]NC_036024.nad6    ATGCGTCTTCTTGCTCCAGCATTCAAGTTCCATTTCAAGGGAGGACGACG
[ABD]MH051716.nad6     ATGCGTCTTCTTGCTCCAGCATTCAAGTTCCATTTCAAGGGAGGACGACG
[S]AP013107.nad6       ATGCGTCTTCTTGCTCCAGCATTCAAGTTCCATTTCAAGGGAGGACGACG
[AG]AP013106.nad6      ATGCGTCTTCTTGCTCCAGCATTCAAGTTCCATTTCAAGGGAGGACGACG
[D]Clae23.nad6         ATGCGTCTTCTTGCTCCAGCATTCAAGTTCCATTTCAAGGGAGGACGACG
[D]AL8/78.nad6         ATGCGTCTTCTTGCTCCAGCATTCAAGTTCCATTTCAAGGGAGGACGACG
[D]SQ523.nad6          ATGCGTCTTCTTGCTCCAGCATTCAAGTTCCATTTCAAGGGAGGACGACG
[D]Y199.nad6           ATGCGTCTTCTTGCTCCAGCATTCAAGTTCCATTTCAAGGGAGGACGACG
[D]Kaifeng1.nad6       ATGCGTCTTCTTGCTCCAGCATTCAAGTTCCATTTCAAGGGAGGACGACG
[CD]Jinan0529.nad6     ATGCGTCTTCTTGCTCCAGCATTCAAGTTCCATTTCAAGGGAGGACGACG
KJ078648.nad6          ATGCGTCTTCTTGCTCCAGCATTCAAGTTCCATTTCAAGGGAGGACGACG
MZ202552.nad6          ATGCGTCTTCTTGCTCCAGCATTCAAGTTCCATTTCAAGGGAGGACGACG
MZ202552.nad6-p        ATGCGTCTTCTTGCTCCAGCATTCAAGTTCCATTTCAAGGAAGGACGACG
MN127982.nad6          ATGCGTCTTCTTGCTCCAGCATTCAAGTTCCATTTCAAGGGAGGACGACG
MN127982.nad6-p        --------------------------------------------------
OK120846.nad6          ATGCGTCTTCTTGCTCCAGCATTCAAGTTCCATTTCAAGGGAGGACGACG
consensus              atgcgtcttcttgctccagcattcaagttccatttcaagggaggacgacg

                      ........60........70........80........90.......100
[A]IX-0944.nad6        TACCATGATACTTTCTGTTTTGTCGAGCCCTGCTTTGGTCTCTGGTTTGA
[A]IX-0946.nad6        TACCATGATACTTTCTGTTTTGTCGAGCCCTGCTTTGGTCTCTGGTTTGA
[A]IX-0957.nad6        TACCATGATACTTTCTGTTTTGTCGAGCCCTGCTTTGGTCTCTGGTTTGA
[A]IX-0969.nad6        TACCATGATACTTTCTGTTTTGTCGAGCCCTGCTTTGGTCTCTGGTTTGA
[A]IX-0976.nad6        TACCATGATACTTTCTGTTTTGTCGAGCCCTGCTTTGGTCTCTGGTTTGA
[AB]SCAUP.nad6         TACCATGATACTTTCTGTTTTGTCGAGCCCTGCTTTGGTCTCTGGTTTGA
[AB]Hoh501.nad6        TACCATGATACTTTCTGTTTTGTCGAGCCCTGCTTTGGTCTCTGGTTTGA
[AB]DM4.nad6           TACCATGATACTTTCTGTTTTGTCGAGCCCTGCTTTGGTCTCTGGTTTGA
[AB]Langdon.nad6       TACCATGATACTTTCTGTTTTGTCGAGCCCTGCTTTGGTCTCTGGTTTGA
[AB]81086A.nad6        TACCATGATACTTTCTGTTTTGTCGAGCCCTGCTTTGGTCTCTGGTTTGA
[AB]KJ078649.nad6      TACCATGATACTTTCTGTTTTGTCGAGCCCTGCTTTGGTCTCTGGTTTGA
[ABD]Lumai1.nad6       TACCATGATACTTTCTGTTTTGTCGAGCCCTGCTTTGGTCTCTGGTTTGA
[ABD]Kenong9204.nad6   TACCATGATACTTTCTGTTTTGTCGAGCCCTGCTTTGGTCTCTGGTTTGA
[ABD]AK58.nad6         TACCATGATACTTTCTGTTTTGTCGAGCCCTGCTTTGGTCTCTGGTTTGA
[ABD]AP008982.nad6     TACCATGATACTTTCTGTTTTGTCGAGCCCTGCTTTGGTCTCTGGTTTGA
[ABD]NC_036024.nad6    TACCATGATACTTTCTGTTTTGTCGAGCCCTGCTTTGGTCTCTGGTTTGA
[ABD]MH051716.nad6     TACCATGATACTTTCTGTTTTGTCGAGCCCTGCTTTGGTCTCTGGTTTGA
[S]AP013107.nad6       TACCATGATACTTTCTGTTTTGTCGAGCCCTGCTTTGGTCTCTGGTTTGA
[AG]AP013106.nad6      TACCATGATACTTTCTGTTTTGTCGAGCCCTGCTTTGGTCTCTGGTTTGA
[D]Clae23.nad6         TACCATGATACTTTCTGTTTTGTCGAGCCCTGCTTTGGTCTCTGGTTTGA
[D]AL8/78.nad6         TACCATGATACTTTCTGTTTTGTCGAGCCCTGCTTTGGTCTCTGGTTTGA
[D]SQ523.nad6          TACCATGATACTTTCTGTTTTGTCGAGCCCTGCTTTGGTCTCTGGTTTGA
[D]Y199.nad6           TACCATGATACTTTCTGTTTTGTCGAGCCCTGCTTTGGTCTCTGGTTTGA
[D]Kaifeng1.nad6       TACCATGATACTTTCTGTTTTGTCGAGCCCTGCTTTGGTCTCTGGTTTGA
[CD]Jinan0529.nad6     TACCATGATACTTTCTGTTTTGTCGAGCCCTGCTTTGGTCTCTGGTTTGA
KJ078648.nad6          TACCATGATACTTTCTGTTTTGTCGAGCCCTGCTTTGGTCTCTGGTTTGA
MZ202552.nad6          TACCATGATACTTTCTGTTTTGTCGAGCCCTGCTTTGGTCTCTGGTTTGA
MZ202552.nad6-p        TACCATGATACTTTCTGTTTTGTCGAGCCCTGCTTTGGTCTCTGGTTTGA
MN127982.nad6          TACCATGATACTTTCTGTTTTGTCGAGCCCTGCTTTGGTCTCTGGTTTGA
MN127982.nad6-p        --------------------------------------------------
OK120846.nad6          TACCATGATACTTTCTGTTTTGTCGAGCCCTGCTTTGGTCTCTGGTTTGA
consensus              taccatgatactttctgttttgtcgagccctgctttggtctctggtttga
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                      .......110.......120.......130.......140.......150
[A]IX-0944.nad6        TGGTTGTACGTGCTAAAAATCCGGTACATTCCGTTTTGTTTCCCATCCTA
[A]IX-0946.nad6        TGGTTGTACGTGCTAAAAATCCGGTACATTCCGTTTTGTTTCCCATCCTA
[A]IX-0957.nad6        TGGTTGTACGTGCTAAAAATCCGGTACATTCCGTTTTGTTTCCCATCCTA
[A]IX-0969.nad6        TGGTTGTACGTGCTAAAAATCCGGTACATTCCGTTTTGTTTCCCATCCTA
[A]IX-0976.nad6        TGGTTGTACGTGCTAAAAATCCGGTACATTCCGTTTTGTTTCCCATCCTA
[AB]SCAUP.nad6         TGGTTGTACGTGCTAAAAATCCGGTACATTCCGTTTTGTTTCCCATCCTA
[AB]Hoh501.nad6        TGGTTGTACGTGCTAAAAATCCGGTACATTCCGTTTTGTTTCCCATCCTA
[AB]DM4.nad6           TGGTTGTACGTGCTAAAAATCCGGTACATTCCGTTTTGTTTCCCATCCTA
[AB]Langdon.nad6       TGGTTGTACGTGCTAAAAATCCGGTACATTCCGTTTTGTTTCCCATCCTA
[AB]81086A.nad6        TGGTTGTACGTGCTAAAAATCCGGTACATTCCGTTTTGTTTCCCATCCTA
[AB]KJ078649.nad6      TGGTTGTACGTGCTAAAAATCCGGTACATTCCGTTTTGTTTCCCATCCTA
[ABD]Lumai1.nad6       TGGTTGTACGTGCTAAAAATCCGGTACATTCCGTTTTGTTTCCCATCCTA
[ABD]Kenong9204.nad6   TGGTTGTACGTGCTAAAAATCCGGTACATTCCGTTTTGTTTCCCATCCTA
[ABD]AK58.nad6         TGGTTGTACGTGCTAAAAATCCGGTACATTCCGTTTTGTTTCCCATCCTA
[ABD]AP008982.nad6     TGGTTGTACGTGCTAAAAATCCGGTACATTCCGTTTTGTTTCCCATCCTA
[ABD]NC_036024.nad6    TGGTTGTACGTGCTAAAAATCCGGTACATTCCGTTTTGTTTCCCATCCTA
[ABD]MH051716.nad6     TGGTTGTACGTGCTAAAAATCCGGTACATTCCGTTTTGTTTCCCATCCTA
[S]AP013107.nad6       TGGTTGTACGTGCTAAAAATCCGGTACATTCCGTTTTGTTTCCCATCCTA
[AG]AP013106.nad6      TGGTTGTACGTGCTAAAAATCCGGTACATTCCGTTTTGTTTCCCATCCTA
[D]Clae23.nad6         TGGTTGTACGTGCTAAAAATCCGGTACATTCCGTTTTGTTTCCCATCCTA
[D]AL8/78.nad6         TGGTTGTACGTGCTAAAAATCCGGTACATTCCGTTTTGTTTCCCATCCTA
[D]SQ523.nad6          TGGTTGTACGTGCTAAAAATCCGGTACATTCCGTTTTGTTTCCCATCCTA
[D]Y199.nad6           TGGTTGTACGTGCTAAAAATCCGGTACATTCCGTTTTGTTTCCCATCCTA
[D]Kaifeng1.nad6       TGGTTGTACGTGCTAAAAATCCGGTACATTCCGTTTTGTTTCCCATCCTA
[CD]Jinan0529.nad6     TGGTTGTACGTGCTAAAAATCCGGTACATTCCGTTTTGTTTCCCATCCTA
KJ078648.nad6          TGGTTGTACGTGCTAAAAATCCGGTACATTCCGTTTTGTTTCCCATCCTA
MZ202552.nad6          TGGTTGTACGTGCTAAAAATCCGGTACATTCCGTTTTGTTTCCCATCCTA
MZ202552.nad6-p        TGGTTGTACGTGCTAAAAATCCGGTACATTCCGTTTTGTTTCCCATCCTA
MN127982.nad6          TGGTTGTACGTGCTAAAAATCCGGTACATTCCGTTTTGTTTCCCATCCTA
MN127982.nad6-p        -------------------CCGGTACATTCCGTTTTGTTTCCCATCCTA
OK120846.nad6          TGGTTGTACGTGCTAAAAATCCGGTACATTCCGTTTTGTTTCCCATCCTA
consensus              tggttgtacgtgctaaaaatCCGGTACATTCCGTTTTGTTTCCCATCCTA

                      .......160.......170.......180.......190.......200
[A]IX-0944.nad6        GTCTTTTGCGACACTTCTGGTTTACTTATTTTGTTAGGTCTCGACTTCTC
[A]IX-0946.nad6        GTCTTTTGCGACACTTCTGGTTTACTTATTTTGTTAGGTCTCGACTTCTC
[A]IX-0957.nad6        GTCTTTTGCGACACTTCTGGTTTACTTATTTTGTTAGGTCTCGACTTCTC
[A]IX-0969.nad6        GTCTTTTGCGACACTTCTGGTTTACTTATTTTGTTAGGTCTCGACTTCTC
[A]IX-0976.nad6        GTCTTTTGCGACACTTCTGGTTTACTTATTTTGTTAGGTCTCGACTTCTC
[AB]SCAUP.nad6         GTCTTTTGCGACACTTCTGGTTTACTTATTTTGTTAGGTCTCGACTTCTC
[AB]Hoh501.nad6        GTCTTTTGCGACACTTCTGGTTTACTTATTTTGTTAGGTCTCGACTTCTC
[AB]DM4.nad6           GTCTTTTGCGACACTTCTGGTTTACTTATTTTGTTAGGTCTCGACTTCTC
[AB]Langdon.nad6       GTCTTTTGCGACACTTCTGGTTTACTTATTTTGTTAGGTCTCGACTTCTC
[AB]81086A.nad6        GTCTTTTGCGACACTTCTGGTTTACTTATTTTGTTAGGTCTCGACTTCTC
[AB]KJ078649.nad6      GTCTTTTGCGACACTTCTGGTTTACTTATTTTGTTAGGTCTCGACTTCTC
[ABD]Lumai1.nad6       GTCTTTTGCGACACTTCTGGTTTACTTATTTTGTTAGGTCTCGACTTCTC
[ABD]Kenong9204.nad6   GTCTTTTGCGACACTTCTGGTTTACTTATTTTGTTAGGTCTCGACTTCTC
[ABD]AK58.nad6         GTCTTTTGCGACACTTCTGGTTTACTTATTTTGTTAGGTCTCGACTTCTC
[ABD]AP008982.nad6     GTCTTTTGCGACACTTCTGGTTTACTTATTTTGTTAGGTCTCGACTTCTC
[ABD]NC_036024.nad6    GTCTTTTGCGACACTTCTGGTTTACTTATTTTGTTAGGTCTCGACTTCTC
[ABD]MH051716.nad6     GTCTTTTGCGACACTTCTGGTTTACTTATTTTGTTAGGTCTCGACTTCTC
[S]AP013107.nad6       GTCTTTTGCGACACTTCTGGTTTACTTATTTTGTTAGGTCTCGACTTCTC
[AG]AP013106.nad6      GTCTTTTGCGACACTTCTGGTTTACTTATTTTGTTAGGTCTCGACTTCTC
[D]Clae23.nad6         GTCTTTTGCGACACTTCTGGTTTACTTATTTTGTTAGGTCTCGACTTCTC
[D]AL8/78.nad6         GTCTTTTGCGACACTTCTGGTTTACTTATTTTGTTAGGTCTCGACTTCTC
[D]SQ523.nad6          GTCTTTTGCGACACTTCTGGTTTACTTATTTTGTTAGGTCTCGACTTCTC
[D]Y199.nad6           GTCTTTTGCGACACTTCTGGTTTACTTATTTTGTTAGGTCTCGACTTCTC
[D]Kaifeng1.nad6       GTCTTTTGCGACACTTCTGGTTTACTTATTTTGTTAGGTCTCGACTTCTC
[CD]Jinan0529.nad6     GTCTTTTGCGACACTTCTGGTTTACTTATTTTGTTAGGTCTCGACTTCTC
KJ078648.nad6          GTCTTTTGCGACACTTCTGGTTTACTTATTTTGTTAGGTCTCGACTTCTC
MZ202552.nad6          GTCTTTTGCGACACTTCTGGTTTACTTATTTTGTTAGGTCTCGACTTCTC
MZ202552.nad6-p        GTCTTTTGCGACACTTCTGGTTTACTTATTTTGTTAGGTCTCGACTTCTC
MN127982.nad6          GTCTTTTGCGACACTTCTGGTTTACTTATTTTGTTAGGTCTCGACTTCTC
MN127982.nad6-p        GTCTTTTGCGACACTTCTGGTTTACTTATTTTGTTAGGTCTCGACTTCTC
OK120846.nad6          GTCTTTTGCGACACTTCTGGTTTACTTATTTTGTTAGGTCTCGACTTCTC
consensus              GTCTTTTGCGACACTTCTGGTTTACTTATTTTGTTAGGTCTCGACTTCTC
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                .......210.......220.......230.......240.......250
[A]IX-0944.nad6          CGCTATGATCTCCCCAGTAGTTCATATAGGAGCTATTGCCGTTTCATTCC
[A]IX-0946.nad6          CGCTATGATCTCCCCAGTAGTTCATATAGGAGCTATTGCCGTTTCATTCC
[A]IX-0957.nad6          CGCTATGATCTCCCCAGTAGTTCATATAGGAGCTATTGCCGTTTCATTCC
[A]IX-0969.nad6          CGCTATGATCTCCCCAGTAGTTCATATAGGAGCTATTGCCGTTTCATTCC
[A]IX-0976.nad6          CGCTATGATCTCCCCAGTAGTTCATATAGGAGCTATTGCCGTTTCATTCC
[AB]SCAUP.nad6           CGCTATGATCTCCCCAGTAGTTCATATAGGAGCTATTGCCGTTTCATTCC
[AB]Hoh501.nad6          CGCTATGATCTCCCCAGTAGTTCATATAGGAGCTATTGCCGTTTCATTCC
[AB]DM4.nad6             CGCTATGATCTCCCCAGTAGTTCATATAGGAGCTATTGCCGTTTCATTCC
[AB]Langdon.nad6         CGCTATGATCTCCCCAGTAGTTCATATAGGAGCTATTGCCGTTTCATTCC
[AB]81086A.nad6          CGCTATGATCTCCCCAGTAGTTCATATAGGAGCTATTGCCGTTTCATTCC
[AB]KJ078649.nad6        CGCTATGATCTCCCCAGTAGTTCATATAGGAGCTATTGCCGTTTCATTCC
[ABD]Lumai1.nad6         CGCTATGATCTCCCCAGTAGTTCATATAGGAGCTATTGCCGTTTCATTCC
[ABD]Kenong9204.nad6     CGCTATGATCTCCCCAGTAGTTCATATAGGAGCTATTGCCGTTTCATTCC
[ABD]AK58.nad6           CGCTATGATCTCCCCAGTAGTTCATATAGGAGCTATTGCCGTTTCATTCC
[ABD]AP008982.nad6       CGCTATGATCTCCCCAGTAGTTCATATAGGAGCTATTGCCGTTTCATTCC
[ABD]NC_036024.nad6      CGCTATGATCTCCCCAGTAGTTCATATAGGAGCTATTGCCGTTTCATTCC
[ABD]MH051716.nad6       CGCTATGATCTCCCCAGTAGTTCATATAGGAGCTATTGCCGTTTCATTCC
[S]AP013107.nad6         CGCTATGATCTCCCCAGTAGTTCATATAGGAGCTATTGCCGTTTCATTCC
[AG]AP013106.nad6        CGCTATGATCTCCCCAGTAGTTCATATAGGAGCTATTGCCGTTTCATTCC
[D]Clae23.nad6           CGCTATGATCTCCCCAGTAGTTCATATAGGAGCTATTGCCGTTTCATTCC
[D]AL8/78.nad6           CGCTATGATCTCCCCAGTAGTTCATATAGGAGCTATTGCCGTTTCATTCC
[D]SQ523.nad6            CGCTATGATCTCCCCAGTAGTTCATATAGGAGCTATTGCCGTTTCATTCC
[D]Y199.nad6             CGCTATGATCTCCCCAGTAGTTCATATAGGAGCTATTGCCGTTTCATTCC
[D]Kaifeng1.nad6         CGCTATGATCTCCCCAGTAGTTCATATAGGAGCTATTGCCGTTTCATTCC
[CD]Jinan0529.nad6       CGCTATGATCTCCCCAGTAGTTCATATAGGAGCTATTGCCGTTTCATTCC
KJ078648.nad6            CGCTATGATCTCCCCAGTAGTTCATATAGGAGCTATTGCCGTTTCATTCC
MZ202552.nad6            CGCTATGATCTCCCCAGTAGTTCATATAGGAGCTATTGCCGTTTCATTCC
MZ202552.nad6-p          CGCTATGATCTTCCCCAGTAGTTCATATAGGAGCTATTGCCGTTTCATTCC
MN127982.nad6            CGCTATGATCTCCCCAGTAGTTCATATAGGAGCTATTGCCGTTTCATTCC
MN127982.nad6-p          CGCTATGATCTCCCCAGTAGTTCATATAGGAGCTATTGCCGTTTCATTCC
OK120846.nad6            CGCTATGATCTCCCCAGTAGTTCATATAGGAGCTATTGCCGTTTCATTCC
consensus               CGCTATGATCTcCCCAGTAGTTCATATAGGAGCTATTGCCGTTTCATTCC

                .......260.......270.......280.......290.......300
[A]IX-0944.nad6          TATTCGTGGTTATGATGTTCAATATTCAAATAGCGGAGATTCACGAAGAA
[A]IX-0946.nad6          TATTCGTGGTTATGATGTTCAATATTCAAATAGCGGAGATTCACGAAGAA
[A]IX-0957.nad6          TATTCGTGGTTATGATGTTCAATATTCAAATAGCGGAGATTCACGAAGAA
[A]IX-0969.nad6          TATTCGTGGTTATGATGTTCAATATTCAAATAGCGGAGATTCACGAAGAA
[A]IX-0976.nad6          TATTCGTGGTTATGATGTTCAATATTCAAATAGCGGAGATTCACGAAGAA
[AB]SCAUP.nad6           TATTCGTGGTTATGATGTTCAATATTCAAATAGCGGAGATTCACGAAGAA
[AB]Hoh501.nad6          TATTCGTGGTTATGATGTTCAATATTCAAATAGCGGAGATTCACGAAGAA
[AB]DM4.nad6             TATTCGTGGTTATGATGTTCAATATTCAAATAGCGGAGATTCACGAAGAA
[AB]Langdon.nad6         TATTCGTGGTTATGATGTTCAATATTCAAATAGCGGAGATTCACGAAGAA
[AB]81086A.nad6          TATTCGTGGTTATGATGTTCAATATTCAAATAGCGGAGATTCACGAAGAA
[AB]KJ078649.nad6        TATTCGTGGTTATGATGTTCAATATTCAAATAGCGGAGATTCACGAAGAA
[ABD]Lumai1.nad6         TATTCGTGGTTATGATGTTCAATATTCAAATAGCGGAGATTCACGAAGAA
[ABD]Kenong9204.nad6     TATTCGTGGTTATGATGTTCAATATTCAAATAGCGGAGATTCACGAAGAA
[ABD]AK58.nad6           TATTCGTGGTTATGATGTTCAATATTCAAATAGCGGAGATTCACGAAGAA
[ABD]AP008982.nad6       TATTCGTGGTTATGATGTTCAATATTCAAATAGCGGAGATTCACGAAGAA
[ABD]NC_036024.nad6      TATTCGTGGTTATGATGTTCAATATTCAAATAGCGGAGATTCACGAAGAA
[ABD]MH051716.nad6       TATTCGTGGTTATGATGTTCAATATTCAAATAGCGGAGATTCACGAAGAA
[S]AP013107.nad6         TATTCGTGGTTATGATGTTCAATATTCAAATAGCGGAGATTCACGAAGAA
[AG]AP013106.nad6        TATTCGTGGTTATGATGTTCAATATTCAAATAGCGGAGATTCACGAAGAA
[D]Clae23.nad6           TATTCGTGGTTATGATGTTCAATATTCAAATAGCGGAGATTCACGAAGAA
[D]AL8/78.nad6           TATTCGTGGTTATGATGTTCAATATTCAAATAGCGGAGATTCACGAAGAA
[D]SQ523.nad6            TATTCGTGGTTATGATGTTCAATATTCAAATAGCGGAGATTCACGAAGAA
[D]Y199.nad6             TATTCGTGGTTATGATGTTCAATATTCAAATAGCGGAGATTCACGAAGAA
[D]Kaifeng1.nad6         TATTCGTGGTTATGATGTTCAATATTCAAATAGCGGAGATTCACGAAGAA
[CD]Jinan0529.nad6       TATTCGTGGTTATGATGTTCAATATTCAAATAGCGGAGATTCACGAAGAA
KJ078648.nad6            TATTCGTGGTTATGATGTTCAATATTCAAATAGCGGAGATTCACGAAGAA
MZ202552.nad6            TATTCGTGGTTATGATGTTCAATATTCAAATAGCGGAGATTCACGAAGAA
MZ202552.nad6-p          TAT-----------------------------------------------
MN127982.nad6            TATTCGTGGTTATGATGTTCAATATTCAAATAGCGGAGATTCACGAAGAA
MN127982.nad6-p          TATTCGTGGTTATGATGTTCAATATTCAAATAGCGGAGATTCACGAAGAA
OK120846.nad6            TATTCGTGGTTATGATGTTCAATATTCAAATAGCGGAGATTCACGAAGAA
consensus               TATtcgtggttatgatgttcaatattcaaatagcggagattcacgaagaa
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                      .......310.......320.......330.......340.......350
[A]IX-0944.nad6       GTATTGCGCTATTTACCAGTGAGTGGTATTATTGGACTGATCTTTTGGTG
[A]IX-0946.nad6       GTATTGCGCTATTTACCAGTGAGTGGTATTATTGGACTGATCTTTTGGTG
[A]IX-0957.nad6       GTATTGCGCTATTTACCAGTGAGTGGTATTATTGGACTGATCTTTTGGTG
[A]IX-0969.nad6       GTATTGCGCTATTTACCAGTGAGTGGTATTATTGGACTGATCTTTTGGTG
[A]IX-0976.nad6       GTATTGCGCTATTTACCAGTGAGTGGTATTATTGGACTGATCTTTTGGTG
[AB]SCAUP.nad6        GTATTGCGCTATTTACCAGTGAGTGGTATTATTGGACTGATCTTTTGGTG
[AB]Hoh501.nad6       GTATTGCGCTATTTACCAGTGAGTGGTATTATTGGACTGATCTTTTGGTG
[AB]DM4.nad6          GTATTGCGCTATTTACCAGTGAGTGGTATTATTGGACTGATCTTTTGGTG
[AB]Langdon.nad6      GTATTGCGCTATTTACCAGTGAGTGGTATTATTGGACTGATCTTTTGGTG
[AB]81086A.nad6       GTATTGCGCTATTTACCAGTGAGTGGTATTATTGGACTGATCTTTTGGTG
[AB]KJ078649.nad6     GTATTGCGCTATTTACCAGTGAGTGGTATTATTGGACTGATCTTTTGGTG
[ABD]Lumai1.nad6      GTATTGCGCTATTTACCAGTGAGTGGTATTATTGGACTGATCTTTTGGTG
[ABD]Kenong9204.nad6  GTATTGCGCTATTTACCAGTGAGTGGTATTATTGGACTGATCTTTTGGTG
[ABD]AK58.nad6        GTATTGCGCTATTTACCAGTGAGTGGTATTATTGGACTGATCTTTTGGTG
[ABD]AP008982.nad6    GTATTGCGCTATTTACCAGTGAGTGGTATTATTGGACTGATCTTTTGGTG
[ABD]NC_036024.nad6   GTATTGCGCTATTTACCAGTGAGTGGTATTATTGGACTGATCTTTTGGTG
[ABD]MH051716.nad6    GTATTGCGCTATTTACCAGTGAGTGGTATTATTGGACTGATCTTTTGGTG
[S]AP013107.nad6      GTATTGCGCTATTTACCAGTGAGTGGTATTATTGGACTGATCTTTTGGTG
[AG]AP013106.nad6     GTATTGCGCTATTTACCAGTGAGTGGTATTATTGGACTGATCTTTTGGTG
[D]Clae23.nad6        GTATTGCGCTATTTACCAGTGAGTGGTATTATTGGACTGATCTTTTGGTG
[D]AL8/78.nad6        GTATTGCGCTATTTACCAGTGAGTGGTATTATTGGACTGATCTTTTGGTG
[D]SQ523.nad6         GTATTGCGCTATTTACCAGTGAGTGGTATTATTGGACTGATCTTTTGGTG
[D]Y199.nad6          GTATTGCGCTATTTACCAGTGAGTGGTATTATTGGACTGATCTTTTGGTG
[D]Kaifeng1.nad6      GTATTGCGCTATTTACCAGTGAGTGGTATTATTGGACTGATCTTTTGGTG
[CD]Jinan0529.nad6    GTATTGCGCTATTTACCAGTGAGTGGTATTATTGGACTGATCTTTTGGTG
KJ078648.nad6         GTATTGCGCTATTTACCAGTGAGTGGTATTATTGGACTGATCTTTTGGTG
MZ202552.nad6         GTATTGCGCTATTTACCAGTGAGTGGTATTATTGGACTGATCTTTTGGTG
MZ202552.nad6-p       --------------------------------------------------
MN127982.nad6         GTATTGCGCTATTTACCAGTGAGTGGTATTATTGGACTGATCTTTTGGTG
MN127982.nad6-p       GTATTGCGCTATTTACCAGTGAGTGGTATTATTGGACTGATCTTTTGGTG
OK120846.nad6         GTATTGCGCTATTTACCAGTGAGTGGTATTATTGGACTGATCTTTTGGTG
consensus             gtattgcgctatttaccagtgagtggtattattggactgatcttttggtg

                      .......360.......370.......380.......390.......400
[A]IX-0944.nad6       GGAAATGTTCTTCATTTTAGATAATGAAACCATTCCATTACTACCAACCC
[A]IX-0946.nad6       GGAAATGTTCTTCATTTTAGATAATGAAACCATTCCATTACTACCAACCC
[A]IX-0957.nad6       GGAAATGTTCTTCATTTTAGATAATGAAACCATTCCATTACTACCAACCC
[A]IX-0969.nad6       GGAAATGTTCTTCATTTTAGATAATGAAACCATTCCATTACTACCAACCC
[A]IX-0976.nad6       GGAAATGTTCTTCATTTTAGATAATGAAACCATTCCATTACTACCAACCC
[AB]SCAUP.nad6        GGAAATGTTCTTCATTTTAGATAATGAAACCATTCCATTACTACCAACCC
[AB]Hoh501.nad6       GGAAATGTTCTTCATTTTAGATAATGAAACCATTCCATTACTACCAACCC
[AB]DM4.nad6          GGAAATGTTCTTCATTTTAGATAATGAAACCATTCCATTACTACCAACCC
[AB]Langdon.nad6      GGAAATGTTCTTCATTTTAGATAATGAAACCATTCCATTACTACCAACCC
[AB]81086A.nad6       GGAAATGTTCTTCATTTTAGATAATGAAACCATTCCATTACTACCAACCC
[AB]KJ078649.nad6     GGAAATGTTCTTCATTTTAGATAATGAAACCATTCCATTACTACCAACCC
[ABD]Lumai1.nad6      GGAAATGTTCTTCATTTTAGATAATGAAACCATTCCATTACTACCAACCC
[ABD]Kenong9204.nad6  GGAAATGTTCTTCATTTTAGATAATGAAACCATTCCATTACTACCAACCC
[ABD]AK58.nad6        GGAAATGTTCTTCATTTTAGATAATGAAACCATTCCATTACTACCAACCC
[ABD]AP008982.nad6    GGAAATGTTCTTCATTTTAGATAATGAAACCATTCCATTACTACCAACCC
[ABD]NC_036024.nad6   GGAAATGTTCTTCATTTTAGATAATGAAACCATTCCATTACTACCAACCC
[ABD]MH051716.nad6    GGAAATGTTCTTCATTTTAGATAATGAAACCATTCCATTACTACCAACCC
[S]AP013107.nad6      GGAAATGTTCTTCATTTTAGATAATGAAACCATTCCATTACTACCAACCC
[AG]AP013106.nad6     GGAAATGTTCTTCATTTTAGATAATGAAACCATTCCATTACTACCAACCC
[D]Clae23.nad6        GGAAATGTTCTTCATTTTAGATAATGAAACCATTCCATTACTACCAACCC
[D]AL8/78.nad6        GGAAATGTTCTTCATTTTAGATAATGAAACCATTCCATTACTACCAACCC
[D]SQ523.nad6         GGAAATGTTCTTCATTTTAGATAATGAAACCATTCCATTACTACCAACCC
[D]Y199.nad6          GGAAATGTTCTTCATTTTAGATAATGAAACCATTCCATTACTACCAACCC
[D]Kaifeng1.nad6      GGAAATGTTCTTCATTTTAGATAATGAAACCATTCCATTACTACCAACCC
[CD]Jinan0529.nad6    GGAAATGTTCTTCATTTTAGATAATGAAACCATTCCATTACTACCAACCC
KJ078648.nad6         GGAAATGTTCTTCATTTTAGATAATGAAACCATTCCATTACTACCAACCC
MZ202552.nad6         GGAAATGTTCTTCATTTTAGATAATGAAACCATTCCATTACTACCAACCC
MZ202552.nad6-p       --------------------------------------------------
MN127982.nad6         GGAAATGTTCTTCATTTTAGATAATGAAACCATTCCATTACTACCAACCC
MN127982.nad6-p       GGAAATGTTCTTCATTTTAGATAATGAAACCATTCCATTACTACCAACCC
OK120846.nad6         GGAAATGTTCTTCATTTTAGATAATGAAACCATTCCATTACTACCAACCC
consensus             ggaaatgttcttcattttagataatgaaaccattccattactaccaaccc
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                    .......410.......420.......430.......440.......450
[A]IX-0944.nad6      ACAGAAATACGACCTCTCTGAGATATACGGTTTATGCCGGAAAGGTACGA
[A]IX-0946.nad6      ACAGAAATACGACCTCTCTGAGATATACGGTTTATGCCGGAAAGGTACGA
[A]IX-0957.nad6      ACAGAAATACGACCTCTCTGAGATATACGGTTTATGCCGGAAAGGTACGA
[A]IX-0969.nad6      ACAGAAATACGACCTCTCTGAGATATACGGTTTATGCCGGAAAGGTACGA
[A]IX-0976.nad6      ACAGAAATACGACCTCTCTGAGATATACGGTTTATGCCGGAAAGGTACGA
[AB]SCAUP.nad6       ACAGAAATACGACCTCTCTGAGATATACGGTTTATGCCGGAAAGGTACGA
[AB]Hoh501.nad6      ACAGAAATACGACCTCTCTGAGATATACGGTTTATGCCGGAAAGGTACGA
[AB]DM4.nad6         ACAGAAATACGACCTCTCTGAGATATACGGTTTATGCCGGAAAGGTACGA
[AB]Langdon.nad6     ACAGAAATACGACCTCTCTGAGATATACGGTTTATGCCGGAAAGGTACGA
[AB]81086A.nad6      ACAGAAATACGACCTCTCTGAGATATACGGTTTATGCCGGAAAGGTACGA
[AB]KJ078649.nad6    ACAGAAATACGACCTCTCTGAGATATACGGTTTATGCCGGAAAGGTACGA
[ABD]Lumai1.nad6     ACAGAAATACGACCTCTCTGAGATATACGGTTTATGCCGGAAAGGTACGA
[ABD]Kenong9204.nad6 ACAGAAATACGACCTCTCTGAGATATACGGTTTATGCCGGAAAGGTACGA
[ABD]AK58.nad6       ACAGAAATACGACCTCTCTGAGATATACGGTTTATGCCGGAAAGGTACGA
[ABD]AP008982.nad6   ACAGAAATACGACCTCTCTGAGATATACGGTTTATGCCGGAAAGGTACGA
[ABD]NC_036024.nad6  ACAGAAATACGACCTCTCTGAGATATACGGTTTATGCCGGAAAGGTACGA
[ABD]MH051716.nad6   ACAGAAATACGACCTCTCTGAGATATACGGTTTATGCCGGAAAGGTACGA
[S]AP013107.nad6     ACAGAAATACGACCTCTCTGAGATATACGGTTTATGCCGGAAAGGTACGA
[AG]AP013106.nad6    ACAGAAATACGACCTCTCTGAGATATACGGTTTATGCCGGAAAGGTACGA
[D]Clae23.nad6       ACAGAAATACGACCTCTCTGAGATATACGGTTTATGCCGGAAAGGTACGA
[D]AL8/78.nad6       ACAGAAATACGACCTCTCTGAGATATACGGTTTATGCCGGAAAGGTACGA
[D]SQ523.nad6        ACAGAAATACGACCTCTCTGAGATATACGGTTTATGCCGGAAAGGTACGA
[D]Y199.nad6         ACAGAAATACGACCTCTCTGAGATATACGGTTTATGCCGGAAAGGTACGA
[D]Kaifeng1.nad6     ACAGAAATACGACCTCTCTGAGATATACGGTTTATGCCGGAAAGGTACGA
[CD]Jinan0529.nad6   ACAGAAATACGACCTCTCTGAGATATACGGTTTATGCCGGAAAGGTACGA
KJ078648.nad6        ACAGAAATACGACCTCTCTGAGATATACGGTTTATGCCGGAAAGGTACGA
MZ202552.nad6        ACAGAAATACGACCTCTCTGAGATATACGGTTTATGCCGGAAAGGTACGA
MZ202552.nad6-p      --------------------------------------------------
MN127982.nad6        ACAGAAATACGACCTCTCTGAGATATACGGTTTATGCCGGAAAGGTACGA
MN127982.nad6-p      ACAGAAATACGACCTCTCTGAGATATACGGTTTATGCCGGAAAGGTACGA
OK120846.nad6        ACAGAAATACGACCTCTCTGAGATATACGGTTTATGCCGGAAAGGTACGA
consensus            acagaaatacgacctctctgagatatacggtttatgccggaaaggtacga

                    .......460.......470.......480.......490.......500
[A]IX-0944.nad6      AGTTGGACTAATTTGGAAACATTGGGCAATTTCCTTTATACCTACTATTC
[A]IX-0946.nad6      AGTTGGACTAATTTGGAAACATTGGGCAATTTCCTTTATACCTACTATTC
[A]IX-0957.nad6      AGTTGGACTAATTTGGAAACATTGGGCAATTTCCTTTATACCTACTATTC
[A]IX-0969.nad6      AGTTGGACTAATTTGGAAACATTGGGCAATTTCCTTTATACCTACTATTC
[A]IX-0976.nad6      AGTTGGACTAATTTGGAAACATTGGGCAATTTCCTTTATACCTACTATTC
[AB]SCAUP.nad6       AGTTGGACTAATTTGGAAACATTGGGCAATTACTTTATACCTACTATTC
[AB]Hoh501.nad6      AGTTGGACTAATTTGGAAACATTGGGCAATTACTTTATACCTACTATTC
[AB]DM4.nad6         AGTTGGACTAATTTGGAAACATTGGGCAATTACTTTATACCTACTATTC
[AB]Langdon.nad6     AGTTGGACTAATTTGGAAACATTGGGCAATTACTTTATACCTACTATTC
[AB]81086A.nad6      AGTTGGACTAATTTGGAAACATTGGGCAATTACTTTATACCTACTATTC
[AB]KJ078649.nad6    AGTTGGACTAATTTGGAAACATTGGGCAATTACTTTATACCTACTATTC
[ABD]Lumai1.nad6     AGTTGGACTAATTTGGAAACATTGGGCAATTACTTTATACCTACTATTC
[ABD]Kenong9204.nad6 AGTTGGACTAATTTGGAAACATTGGGCAATTACTTTATACCTACTATTC
[ABD]AK58.nad6       AGTTGGACTAATTTGGAAACATTGGGCAATTACTTTATACCTACTATTC
[ABD]AP008982.nad6   AGTTGGACTAATTTGGAAACATTGGGCAATTACTTTATACCTACTATTC
[ABD]NC_036024.nad6  AGTTGGACTAATTTGGAAACATTGGGCAATTACTTTATACCTACTATTC
[ABD]MH051716.nad6   AGTTGGACTAATTTGGAAACATTGGGCAATTACTTTATACCTACTATTC
[S]AP013107.nad6     AGTTGGACTAATTTGGAAACATTGGGCAATTACTTTATACCTACTATTC
[AG]AP013106.nad6    AGTTGGACTAATTTGGAAACATTGGGCAATTACTTTATACCTACTATTC
[D]Clae23.nad6       AGTTGGACTAATTTGGAAACATTGGGCAATTTCCTTTATACCTACTATTC
[D]AL8/78.nad6       AGTTGGACTAATTTGGAAACATTGGGCAATTTCCTTTATACCTACTATTC
[D]SQ523.nad6        AGTTGGACTAATTTGGAAACATTGGGCAATTTCCTTTATACCTACTATTC
[D]Y199.nad6         AGTTGGACTAATTTGGAAACATTGGGCAATTTCCTTTATACCTACTATTC
[D]Kaifeng1.nad6     AGTTGGACTAATTTGGAAACATTGGGCAATTTCCTTTATACCTACTATTC
[CD]Jinan0529.nad6   AGTTGGACTAATTTGGAAACATTGGGCAATTTCCTTTATACCTACTATTC
KJ078648.nad6        AGTTGGACTAATTTGGAAACATTGGGCAATTTCCTTTATACCTACTATTC
MZ202552.nad6        AGTTGGACTAATTTGGAAACATTGGGCAATTACTTTATACCTACTATTC
MZ202552.nad6-p      --------------------------------------------------
MN127982.nad6        AGTTGGACTAATTTGGAAACATTGGGCAATTTCCTTTATACCTACTATTC
MN127982.nad6-p      AGTTGGACTAATTTGGAAACAT-----------------------------
OK120846.nad6        AGTTGGACTAATTTGGAAACATTGGGCAATTTACTTTATACCTACTATTC
consensus            agttggactaatttggaaacattgggcaatttactttatacctactattc
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                          .......510.......520.......530.......540.......550
[A]IX-0944.nad6           CGTCTGGTTTTTGGTTTCTAGTCTGATTTTATTAGTAGCTATGATTGGGG
[A]IX-0946.nad6           CGTCTGGTTTTTGGTTTCTAGTCTGATTTTATTAGTAGCTATGATTGGGG
[A]IX-0957.nad6           CGTCTGGTTTTTGGTTTCTAGTCTGATTTTATTAGTAGCTATGATTGGGG
[A]IX-0969.nad6           CGTCTGGTTTTTGGTTTCTAGTCTGATTTTATTAGTAGCTATGATTGGGG
[A]IX-0976.nad6           CGTCTGGTTTTTGGTTTCTAGTCTGATTTTATTAGTAGCTATGATTGGGG
[AB]SCAUP.nad6            CGTCTGGTTTTTGGTTTCTAGTCTGATTTTATTAGTTGCTATGATTGGGG
[AB]Hoh501.nad6           CGTCTGGTTTTTGGTTTCTAGTCTGATTTTATTAGTTGCTATGATTGGGG
[AB]DM4.nad6              CGTCTGGTTTTTGGTTTCTAGTCTGATTTTATTAGTTGCTATGATTGGGG
[AB]Langdon.nad6          CGTCTGGTTTTTGGTTTCTAGTCTGATTTTATTAGTTGCTATGATTGGGG
[AB]81086A.nad6           CGTCTGGTTTTTGGTTTCTAGTCTGATTTTATTAGTTGCTATGATTGGGG
[AB]KJ078649.nad6         CGTCTGGTTTTTGGTTTCTAGTCTGATTTTATTAGTTGCTATGATTGGGG
[ABD]Lumai1.nad6          CGTCTGGTTTTTGGTTTCTAGTCTGATTTTATTAGTTGCTATGATTGGGG
[ABD]Kenong9204.nad6      CGTCTGGTTTTTGGTTTCTAGTCTGATTTTATTAGTTGCTATGATTGGGG
[ABD]AK58.nad6            CGTCTGGTTTTTGGTTTCTAGTCTGATTTTATTAGTTGCTATGATTGGGG
[ABD]AP008982.nad6        CGTCTGGTTTTTGGTTTCTAGTCTGATTTTATTAGTTGCTATGATTGGGG
[ABD]NC_036024.nad6       CGTCTGGTTTTTGGTTTCTAGTCTGATTTTATTAGTTGCTATGATTGGGG
[ABD]MH051716.nad6        CGTCTGGTTTTTGGTTTCTAGTCTGATTTTATTAGTTGCTATGATTGGGG
[S]AP013107.nad6          CGTCTGGTTTTTGGTTTCTAGTCTGATTTTATTAGTTGCTATGATTGGGG
[AG]AP013106.nad6         CGTCTGGTTTTTGGTTTCTAGTCTGATTTTATTAGTTGCTATGATTGGGG
[D]Clae23.nad6            CGTCTGGTTTTTGGTTTCTAGTCTGATTTTATTAGTAGCTATGATTGGGG
[D]AL8/78.nad6            CGTCTGGTTTTTGGTTTCTAGTCTGATTTTATTAGTAGCTATGATTGGGG
[D]SQ523.nad6             CGTCTGGTTTTTGGTTTCTAGTCTGATTTTATTAGTAGCTATGATTGGGG
[D]Y199.nad6              CGTCTGGTTTTTGGTTTCTAGTCTGATTTTATTAGTAGCTATGATTGGGG
[D]Kaifeng1.nad6          CGTCTGGTTTTTGGTTTCTAGTCTGATTTTATTAGTAGCTATGATTGGGG
[CD]Jinan0529.nad6        CGTCTGGTTTTTGGTTTCTAGTCTGATTTTATTAGTAGCTATGATTGGGG
KJ078648.nad6             CGTCTGGTTTTTGGTTTCTAGTCTGATTTTATTAGTAGCTATGATTGGGG
MZ202552.nad6             CGTCTGGTTTTTGGTTTCTAGTCTGATTTTATTAGTAGCTATGATTGGGG
MZ202552.nad6-p           --------------------------------------------------
MN127982.nad6             CGTCTGGTTTTTGGTTTCTAGTCTGATTTTATTAGTTGCTATGATTGGGG
MN127982.nad6-p           --------------------------------------------------
OK120846.nad6             CGTCTGGTTTTTGGTTTCTAGTCTGATTTTATTAGTTGCTATGATTGGGG
consensus                 cgtctggtttttggtttctagtctgattttattagttgctatgattgggg

                          .......560.......570.......580.......590.......600
[A]IX-0944.nad6           CTATAGTACTTACTATGCATAGGACTACAAAGGTGAAAAGACAGGATGTA
[A]IX-0946.nad6           CTATAGTACTTACTATGCATAGGACTACAAAGGTGAAAAGACAGGATGTA
[A]IX-0957.nad6           CTATAGTACTTACTATGCATAGGACTACAAAGGTGAAAAGACAGGATGTA
[A]IX-0969.nad6           CTATAGTACTTACTATGCATAGGACTACAAAGGTGAAAAGACAGGATGTA
[A]IX-0976.nad6           CTATAGTACTTACTATGCATAGGACTACAAAGGTGAAAAGACAGGATGTA
[AB]SCAUP.nad6            CTATAGTACTTACTATGCATAGGACTACAAAGGTGAAAAGACAGGATGTA
[AB]Hoh501.nad6           CTATAGTACTTACTATGCATAGGACTACAAAGGTGAAAAGACAGGATGTA
[AB]DM4.nad6              CTATAGTACTTACTATGCATAGGACTACAAAGGTGAAAAGACAGGATGTA
[AB]Langdon.nad6          CTATAGTACTTACTATGCATAGGACTACAAAGGTGAAAAGACAGGATGTA
[AB]81086A.nad6           CTATAGTACTTACTATGCATAGGACTACAAAGGTGAAAAGACAGGATGTA
[AB]KJ078649.nad6         CTATAGTACTTACTATGCATAGGACTACAAAGGTGAAAAGACAGGATGTA
[ABD]Lumai1.nad6          CTATAGTACTTACTATGCATAGGACTACAAAGGTGAAAAGACAGGATGTA
[ABD]Kenong9204.nad6      CTATAGTACTTACTATGCATAGGACTACAAAGGTGAAAAGACAGGATGTA
[ABD]AK58.nad6            CTATAGTACTTACTATGCATAGGACTACAAAGGTGAAAAGACAGGATGTA
[ABD]AP008982.nad6        CTATAGTACTTACTATGCATAGGACTACAAAGGTGAAAAGACAGGATGTA
[ABD]NC_036024.nad6       CTATAGTACTTACTATGCATAGGACTACAAAGGTGAAAAGACAGGATGTA
[ABD]MH051716.nad6        CTATAGTACTTACTATGCATAGGACTACAAAGGTGAAAAGACAGGATGTA
[S]AP013107.nad6          CTATAGTACTTACTATGCATAGGACTACAAAGGTGAAAAGACAGGATGTA
[AG]AP013106.nad6         CTATAGTACTTACTATGCATAGGACTACAAAGGTGAAAAGACAGGATGTA
[D]Clae23.nad6            CTATAGTACTTACTATGCATAGGACTACAAAGGTGAAAAGACAGGATGTA
[D]AL8/78.nad6            CTATAGTACTTACTATGCATAGGACTACAAAGGTGAAAAGACAGGATGTA
[D]SQ523.nad6             CTATAGTACTTACTATGCATAGGACTACAAAGGTGAAAAGACAGGATGTA
[D]Y199.nad6              CTATAGTACTTACTATGCATAGGACTACAAAGGTGAAAAGACAGGATGTA
[D]Kaifeng1.nad6          CTATAGTACTTACTATGCATAGGACTACAAAGGTGAAAAGACAGGATGTA
[CD]Jinan0529.nad6        CTATAGTACTTACTATGCATAGGACTACAAAGGTGAAAAGACAGGATGTA
KJ078648.nad6             CTATAGTACTTACTATGCATAGGACTACAAAGGTGAAAAGACAGGATGTA
MZ202552.nad6             CTATAGTACTTACTATGCATAGGACTACAAAGGTGAAAAGACAGGATGTA
MZ202552.nad6-p           --------------------------------------------------
MN127982.nad6             CTATAGTACTTACTATGCATAGACTACAGAGGTGAAAAGACAGGATGTA
MN127982.nad6-p           --------------------------------------------------
OK120846.nad6             CTATAGTACTTACTATGCATAGGACTACAAAGGTGAAAAGACAGGATGTA
consensus                 ctatagtacttactatgcataggactacaaaggtgaaaagacaggatgta
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                ........610.......620.......630.......640.......650
[A]IX-0944.nad6       TTCCGACGAAATGCCTTGGATTCTAGGAGGAATATAATGAACAGGACTAT
[A]IX-0946.nad6       TTCCGACGAAATGCCTTGGATTCTAGGAGGAATATAATGAACAGGACTAT
[A]IX-0957.nad6       TTCCGACGAAATGCCTTGGATTCTAGGAGGAATATAATGAACAGGACTAT
[A]IX-0969.nad6       TTCCGACGAAATGCCTTGGATTCTAGGAGGAATATAATGAACAGGACTAT
[A]IX-0976.nad6       TTCCGACGAAATGCCTTGGATTCTAGGAGGAATATAATGAACAGGACTAT
[AB]SCAUP.nad6        TTCCGACGAAATGCCTTGGATTCTAGGAGCCATATAATGAACAGGACTAT
[AB]Hoh501.nad6       TTCCGACGAAATGCCTTGGATTCTAGGAGCCATATAATGAACAGGACTAT
[AB]DM4.nad6          TTCCGACGAAATGCCTTGGATTCTAGGAGCCATATAATGAACAGGACTAT
[AB]Langdon.nad6      TTCCGACGAAATGCCTTGGATTCTAGGAGCCATATAATGAACAGGACTAT
[AB]81086A.nad6       TTCCGACGAAATGCCTTGGATTCTAGGAGCCATATAATGAACAGGACTAT
[AB]KJ078649.nad6     TTCCGACGAAATGCCTTGGATTCTAGGAGCCATATAATGAACAGGACTAT
[ABD]Lumai1.nad6      TTCCGACGAAATGCCTTGGATTCTAGGAGCCATATAATGAACAGGACTAT
[ABD]Kenong9204.nad6  TTCCGACGAAATGCCTTGGATTCTAGGAGCCATATAATGAACAGGACTAT
[ABD]AK58.nad6        TTCCGACGAAATGCCTTGGATTCTAGGAGCCATATAATGAACAGGACTAT
[ABD]AP008982.nad6    TTCCGACGAAATGCCTTGGATTCTAGGAGCCATATAATGAACAGGACTAT
[ABD]NC_036024.nad6   TTCCGACGAAATGCCTTGGATTCTAGGAGCCATATAATGAACAGGACTAT
[ABD]MH051716.nad6    TTCCGACGAAATGCCTTGGATTCTAGGAGCCATATAATGAACAGGACTAT
[S]AP013107.nad6      TTCCGACGAAATGCCTTGGATTCTAGGAGCCATATAATGAACAGGACTAT
[AG]AP013106.nad6     TTCCGACGAAATGCCTTGGATTCTAGGAGCCATATAATGAACAGGACTAT
[D]Clae23.nad6        TTCCGACGAAATGCCTTGGATTCTAGGAGGAATATAATGAACAGGACTAT
[D]AL8/78.nad6        TTCCGACGAAATGCCTTGGATTCTAGGAGGAATATAATGAACAGGACTAT
[D]SQ523.nad6         TTCCGACGAAATGCCTTGGATTCTAGGAGGAATATAATGAACAGGACTAT
[D]Y199.nad6          TTCCGACGAAATGCCTTGGATTCTAGGAGGAATATAATGAACAGGACTAT
[D]Kaifeng1.nad6      TTCCGACGAAATGCCTTGGATTCTAGGAGGAATATAATGAACAGGACTAT
[CD]Jinan0529.nad6    TTCCGACGAAATGCCTTGGATTCTAGGAGGAATATAATGAACAGGACTAT
KJ078648.nad6         TTCCGACGAAATGCCTTGGATTCTAGGAGGAATATAATGAACAGGACTAT
MZ202552.nad6         TTCCGACGAAATGCCTTGGATTCTAGGAGGACTATAATGAGGAGGACGAC
MZ202552.nad6-p       --------------------------------------------------
MN127982.nad6         TTCCGACGAAATGCCTTGGATTCTAGGAGGAATATAATGAGGAGCATGAC
MN127982.nad6-p       --------------------------------------------------
OK120846.nad6         TTCCGACGAAATGCCTTGGATTCTAGGAGGACTATAATGAGGAGGACGAC
consensus             ttccgacgaaatgccttggattctaggag atataatgaacaggactat

                ........660.......670.......680.......690.......700
[A]IX-0944.nad6       TTCTCCTTTTGGCCATAGCCATAGAAGAAGCTTCTCCTCCAAAGCGGAGG
[A]IX-0946.nad6       TTCTCCTTTTGGCCATAGCCATAGAAGAAGCTTCTCCTCCAAAGCGGAGG
[A]IX-0957.nad6       TTCTCCTTTTGGCCATAGCCATAGAAGAAGCTTCTCCTCCAAAGCGGAGG
[A]IX-0969.nad6       TTCTCCTTTTGGCCATAGCCATAGAAGAAGCTTCTCCTCCAAAGCGGAGG
[A]IX-0976.nad6       TTCTCCTTTTGGCCATAGCCATAGAAGAAGCTTCTCCTCCAAAGCGGAGG
[AB]SCAUP.nad6        TTCTCCTTTTGGCCATAGCCATAGAAGAAGCTTCTCCTCCGGAGCGGGGG
[AB]Hoh501.nad6       TTCTCCTTTTGGCCATAGCCATAGAAGAAGCTTCTCCTCCGGAGCGGGGG
[AB]DM4.nad6          TTCTCCTTTTGGCCATAGCCATAGAAGAAGCTTCTCCTCCGGAGCGGGGG
[AB]Langdon.nad6      TTCTCCTTTTGGCCATAGCCATAGAAGAAGCTTCTCCTCCGGAGCGGGGG
[AB]81086A.nad6       TTCTCCTTTTGGCCATAGCCATAGAAGAAGCTTCTCCTCCGGAGCGGGGG
[AB]KJ078649.nad6     TTCTCCTTTTGGCCATAGCCATAGAAGAAGCTTCTCCTCCGGAGCGGGGG
[ABD]Lumai1.nad6      TTCTCCTTTTGGCCATAGCCATAGAAGAAGCTTCTCCTCCGGAGCGGGGG
[ABD]Kenong9204.nad6  TTCTCCTTTTGGCCATAGCCATAGAAGAAGCTTCTCCTCCGGAGCGGGGG
[ABD]AK58.nad6        TTCTCCTTTTGGCCATAGCCATAGAAGAAGCTTCTCCTCCGGAGCGGGGG
[ABD]AP008982.nad6    TTCTCCTTTTGGCCATAGCCATAGAAGAAGCTTCTCCTCCGGAGCGGGGG
[ABD]NC_036024.nad6   TTCTCCTTTTGGCCATAGCCATAGAAGAAGCTTCTCCTCCGGAGCGGGGG
[ABD]MH051716.nad6    TTCTCCTTTTGGCCATAGCCATAGAAGAAGCTTCTCCTCCGGAGCGGGGG
[S]AP013107.nad6      TTCTCCTTTTGGCCATAGCCATAGAAGAAGCTTCTCCTCCGGAGCGGGGG
[AG]AP013106.nad6     TTCTCCTTTTGGCCATAGCCATAGAAGAAGCTTCTCCTCCGGAGCGGGGG
[D]Clae23.nad6        TTCTCCTTTTGGCCATAGCCATAGAAGAAGCTTCTCCTCCAAAGCGGAGG
[D]AL8/78.nad6        TTCTCCTTTTGGCCATAGCCATAGAAGAAGCTTCTCCTCCAAAGCGGAGG
[D]SQ523.nad6         TTCTCCTTTTGGCCATAGCCATAGAAGAAGCTTCTCCTCCAAAGCGGAGG
[D]Y199.nad6          TTCTCCTTTTGGCCATAGCCATAGAAGAAGCTTCTCCTCCAAAGCGGAGG
[D]Kaifeng1.nad6      TTCTCCTTTTGGCCATAGCCATAGAAGAAGCTTCTCCTCCAAAGCGGAGG
[CD]Jinan0529.nad6    TTCTCCTTTTGGCCATAGCCATATAAGAAGCTTCTCCTCCAAAGCGGAGG
KJ078648.nad6         TTCTCCTTTTGGCCATAGCCATAGAAGAAGCTTCTCCTCCAAAGCGGAGG
MZ202552.nad6         AGACCAAAT-----------------------------------------
MZ202552.nad6-p       --------------------------------------------------
MN127982.nad6         AATTCCAAAC------GGAACAGAAGGTGCTTTTCGTCCGGAGCGGGGG
MN127982.nad6-p       --------------------------------------------------
OK120846.nad6         AGACCAAAT-----------------------------------------
consensus             ttctccttttggccatagccatagaagaagcttctcctccaaagcggagg
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                       .......710.......720.......730.......740.......750
[A]IX-0944.nad6        GAGGGGAATCTCAGGATTCCTATAACCCTGCTTATA--TAGATTTTTTAA
[A]IX-0946.nad6        GAGGGGAATCTCAGGATTCCTATAACCCTGCTTATA--TAGATTTTTTAA
[A]IX-0957.nad6        GAGGGGAATCTCAGGATTCCTATAACCCTGCTTATA--TAGATTTTTTAA
[A]IX-0969.nad6        GAGGGGAATCTCAGGATTCCTATAACCCTGCTTATA--TAGATTTTTTAA
[A]IX-0976.nad6        GAGGGGAATCTCAGGATTCCTATAACCCTGCTTATA--TAGATTTTTTAA
[AB]SCAUP.nad6         GACCGC---CTGACAATTACAAAGAAACCTTTAAAATGTGGATT------
[AB]Hoh501.nad6        GACCGC---CTGACAATTACAAAGAAACCTTTAAAATGTGGATT------
[AB]DM4.nad6           GACCGC---CTGACAATTACAAAGAAACCTTTAAAATGTGGATT------
[AB]Langdon.nad6       GACCGC---CTGACAATTACAAAGAAACCTTTAAAATGTGGATT------
[AB]81086A.nad6        GACCGC---CTGACAATTACAAAGAAACCTTTAAAATGTGGATT------
[AB]KJ078649.nad6      GACCGC---CTGACAATTACAAAGAAACCTTTAAAATGTGGATT------
[ABD]Lumai1.nad6       GACCGC---CTGACAATTACAAAGAAACCTTTAAAATGTGGATT------
[ABD]Kenong9204.nad6   GACCGC---CTGACAATTACAAAGAAACCTTTAAAATGTGGATT------
[ABD]AK58.nad6         GACCGC---CTGACAATTACAAAGAAACCTTTAAAATGTGGATT------
[ABD]AP008982.nad6     GACCGC---CTGACAATTACAAAGAAACCTTTAAAATGTGGATT------
[ABD]NC_036024.nad6    GACCGC---CTGACAATTACAAAGAAACCTTTAAAATGTGGATT------
[ABD]MH051716.nad6     GACCGC---CTGACAATTACAAAGAAACCTTTAAAATGTGGATT------
[S]AP013107.nad6       GACCGC---CTGACAATTACAAAGAAACCTTTAAAATGTGGATT------
[AG]AP013106.nad6      GACCGC---CTGACAATTACAAAGAAACCTTTAAAATGTGGATT------
[D]Clae23.nad6         GAGGGGAATCTCAGGATTCCTATGACCCTGCTTATA--TCGATTTTTTAA
[D]AL8/78.nad6         GAGGGGAATCTCAGGATTCCTATGACCCTGCTTATA--TCGATTTTTTAA
[D]SQ523.nad6          GAGGGGAATCTCAGGATTCCTATGACCCTGCTTATA--TCGATTTTTTAA
[D]Y199.nad6           GAGGGGAATCTCAGGATTCCTATGACCCTGCTTATA--TCGATTTTTTAA
[D]Kaifeng1.nad6       GAGGGGAATCTCAGGATTCCTATGACCCTGCTTATA--TCGATTTTTTAA
[CD]Jinan0529.nad6     GAGGGGAATCTCAGGATTCCTATGACCCTGCTTATA--TAGATTTTTTAA
KJ078648.nad6          GAGGGGAATCTCAGGATTCCTATGACCCTGCTTATA--TCGATTTTTTAA
MZ202552.nad6          -----------------------------------CACGATCCA-------
MZ202552.nad6-p        --------------------------------------------------
MN127982.nad6          GACCGC---CTGAGAATTACAAAGAAACCTTTAAAAGGTGGAT--TTTGT
MN127982.nad6-p        --------------------------------------------------
OK120846.nad6          -----------------------------------CACGATCCA-------
consensus              ga g    ct a gatt c a ga  c   t a a gtagatt

                       .......760.......770.......780.......790.......800
[A]IX-0944.nad6        GACA-ACATTTAGGGTTTTTCCCGGGTTTGGTACAAAATCTGGATAAACT
[A]IX-0946.nad6        GACA-ACATTTAGGGTTTTTCCCGGGTTTGGTACAAAATCTGGATAAACT
[A]IX-0957.nad6        GACA-ACATTTAGGGTTTTTCCCGGGTTTGGTACAAAATCTGGATAAACT
[A]IX-0969.nad6        GACA-ACATTTAGGGTTTTTCCCGGGTTTGGTACAAAATCTGGATAAACT
[A]IX-0976.nad6        GACA-ACATTTAGGGTTTTTCCCGGGTTTGGTACAAAATCTGGATAAACT
[AB]SCAUP.nad6         --------------------------------------------------
[AB]Hoh501.nad6        --------------------------------------------------
[AB]DM4.nad6           --------------------------------------------------
[AB]Langdon.nad6       --------------------------------------------------
[AB]81086A.nad6        --------------------------------------------------
[AB]KJ078649.nad6      --------------------------------------------------
[ABD]Lumai1.nad6       --------------------------------------------------
[ABD]Kenong9204.nad6   --------------------------------------------------
[ABD]AK58.nad6         --------------------------------------------------
[ABD]AP008982.nad6     --------------------------------------------------
[ABD]NC_036024.nad6    --------------------------------------------------
[ABD]MH051716.nad6     --------------------------------------------------
[S]AP013107.nad6       --------------------------------------------------
[AG]AP013106.nad6      --------------------------------------------------
[D]Clae23.nad6         GAGC-TCGTTTAGGGTTTTTCCCGGGTTTGGTACCAAATCTGGATAAACT
[D]AL8/78.nad6         GAGC-TCGTTTAGGGTTTTTCCCGGGTTTGGTACCAAATCTGGATAAACT
[D]SQ523.nad6          GAGC-TCGTTTAGGGTTTTTCCCGGGTTTGGTACCAAATCTGGATAAACT
[D]Y199.nad6           GAGC-TCGTTTAGGGTTTTTCCCGGGTTTGGTACCAAATCTGGATAAACT
[D]Kaifeng1.nad6       GAGC-TCGTTTAGGGTTTTTCCCGGGTTTGGTACCAAATCTGGATAAACT
[CD]Jinan0529.nad6     GAGC-TCGTTTAGGGTTTTTCCCGGGTTTGGTACCAAATCTGGATAAACT
KJ078648.nad6          GAGC-TCGTTTAGGGTTTTTCCCGGGTTTGGTACCAAATCTGGATAAACT
MZ202552.nad6          --------------------------------------------------
MZ202552.nad6-p        --------------------------------------------------
MN127982.nad6          GCTCAGAATATAGGG-ATTTCCCTGGCTTAAAAAGCAATATAGACAAACT
MN127982.nad6-p        --------------------------------------------------
OK120846.nad6          --------------------------------------------------
consensus
```

```
                    .......810.......820.......830.......840.......850
[A]IX-0944.nad6      CCTTTCGGTTCTTAAAACGGAGGAAATTCTCTTTCTGGCTTTCCGCTTCC
[A]IX-0946.nad6      CCTTTCGGTTCTTAAAACGGAGGAAATTCTCTTTCTGGCTTTCCGCTTCC
[A]IX-0957.nad6      CCTTTCGGTTCTTAAAACGGAGGAAATTCTCTTTCTGGCTTTCCGCTTCC
[A]IX-0969.nad6      CCTTTCGGTTCTTAAAACGGAGGAAATTCTCTTTCTGGCTTTCCGCTTCC
[A]IX-0976.nad6      CCTTTCGGTTCTTAAAACGGAGGAAATTCTCTTTCTGGCTTTCCGCTTCC
[AB]SCAUP.nad6       --------------------------------------------------
[AB]Hoh501.nad6      --------------------------------------------------
[AB]DM4.nad6         --------------------------------------------------
[AB]Langdon.nad6     --------------------------------------------------
[AB]81086A.nad6      --------------------------------------------------
[AB]KJ078649.nad6    --------------------------------------------------
[ABD]Lumai1.nad6     --------------------------------------------------
[ABD]Kenong9204.nad6 --------------------------------------------------
[ABD]AK58.nad6       --------------------------------------------------
[ABD]AP008982.nad6   --------------------------------------------------
[ABD]NC_036024.nad6  --------------------------------------------------
[ABD]MH051716.nad6   --------------------------------------------------
[S]AP013107.nad6     --------------------------------------------------
[AG]AP013106.nad6    --------------------------------------------------
[D]Clae23.nad6       CCTTTCGGTTCTTAAACCTGAGGAAATTCTATTTCTGGCTTTTCGCTTCC
[D]AL8/78.nad6       CCTTTCGGTTCTTAAACCTGAGGAAATTCTATTTCTGGCTTTTCGCTTCC
[D]SQ523.nad6        CCTTTCGGTTCTTAAACCTGAGGAAATTCTATTTCTGGCTTTTCGCTTCC
[D]Y199.nad6         CCTTTCGGTTCTTAAACCTGAGGAAATTCTATTTCTGGCTTTTCGCTTCC
[D]Kaifeng1.nad6     CCTTTCGGTTCTTAAACCTGAGGAAATTCTATTTCTGGCTTTTCGCTTCC
[CD]Jinan0529.nad6   CCTTTCGGTTCTTAAACCTGAGGAAATTCTATTTCTGGCTTTTCGCTTCC
KJ078648.nad6        CCTTTCGGTTCTTAAACCTGAGGAAATTCTATTTCTGGCTTTTCGCTTCC
MZ202552.nad6        --------------------------------------------------
MZ202552.nad6-p      --------------------------------------------------
MN127982.nad6        TATTGCATTCCTTTCACCTTCCGAGATCCTATTCATGGTGCACACCTTTC
MN127982.nad6-p      --------------------------------------------------
OK120846.nad6        --------------------------------------------------
consensus

                    .......860.......870.......880.......890.......900
[A]IX-0944.nad6      CGCGGGATGCGAACATGTTTA---AATTGCCCCTAAAGAAGATCAAAGAT
[A]IX-0946.nad6      CGCGGGATGCGAACATGTTTA---AATTGCCCCTAAAGAAGATCAAAGAT
[A]IX-0957.nad6      CGCGGGATGCGAACATGTTTA---AATTGCCCCTAAAGAAGATCAAAGAT
[A]IX-0969.nad6      CGCGGGATGCGAACATGTTTA---AATTGCCCCTAAAGAAGATCAAAGAT
[A]IX-0976.nad6      CGCGGGATGCGAACATGTTTA---AATTGCCCCTAAAGAAGATCAAAGAT
[AB]SCAUP.nad6       --------------------------------------------------
[AB]Hoh501.nad6      --------------------------------------------------
[AB]DM4.nad6         --------------------------------------------------
[AB]Langdon.nad6     --------------------------------------------------
[AB]81086A.nad6      --------------------------------------------------
[AB]KJ078649.nad6    --------------------------------------------------
[ABD]Lumai1.nad6     --------------------------------------------------
[ABD]Kenong9204.nad6 --------------------------------------------------
[ABD]AK58.nad6       --------------------------------------------------
[ABD]AP008982.nad6   --------------------------------------------------
[ABD]NC_036024.nad6  --------------------------------------------------
[ABD]MH051716.nad6   --------------------------------------------------
[S]AP013107.nad6     --------------------------------------------------
[AG]AP013106.nad6    --------------------------------------------------
[D]Clae23.nad6       CGCGGGATGCGAACATGTTTA---AATTGCCCCTAAAGAATATCAAAGAT
[D]AL8/78.nad6       CGCGGGATGCGAACATGTTTA---AATTGCCCCTAAAGAATATCAAAGAT
[D]SQ523.nad6        CGCGGGATGCGAACATGTTTA---AATTGCCCCTAAAGAATATCAAAGAT
[D]Y199.nad6         CGCGGGATGCGAACATGTTTA---AATTGCCCCTAAAGAATATCAAAGAT
[D]Kaifeng1.nad6     CGCGGGATGCGAACATGTTTA---AATTGCCCCTAAAGAATATCAAAGAT
[CD]Jinan0529.nad6   CGCGGGATGCGAACATGTTTA---AATTGCCCCTAAAGAATATCCAAAAT
KJ078648.nad6        CGCGGGATGCGAACATGTTTA---AATTGCCCCTAAAGAATATCAAAGAT
MZ202552.nad6        --------------------------------------------------
MZ202552.nad6-p      --------------------------------------------------
MN127982.nad6        CCCGGGACTTTCCTCTGCTCGAGATCTTGGAACCACGGGATATCCGCGAA
MN127982.nad6-p      --------------------------------------------------
OK120846.nad6        --------------------------------------------------
consensus
```

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                        .......910.......920.......930.......940.......950
[A]IX-0944.nad6          ATGATTCAAGAAGCAATGGCTAAAGAGGAGGAAAACAGAGAAAAGCCTCC
[A]IX-0946.nad6          ATGATTCAAGAAGCAATGGCTAAAGAGGAGGAAAACAGAGAAAAGCCTCC
[A]IX-0957.nad6          ATGATTCAAGAAGCAATGGCTAAAGAGGAGGAAAACAGAGAAAAGCCTCC
[A]IX-0969.nad6          ATGATTCAAGAAGCAATGGCTAAAGAGGAGGAAAACAGAGAAAAGCCTCC
[A]IX-0976.nad6          ATGATTCAAGAAGCAATGGCTAAAGAGGAGGAAAACAGAGAAAAGCCTCC
[AB]SCAUP.nad6           --------------------------------------------------
[AB]Hoh501.nad6          --------------------------------------------------
[AB]DM4.nad6             --------------------------------------------------
[AB]Langdon.nad6         --------------------------------------------------
[AB]81086A.nad6          --------------------------------------------------
[AB]KJ078649.nad6        --------------------------------------------------
[ABD]Lumai1.nad6         --------------------------------------------------
[ABD]Kenong9204.nad6     --------------------------------------------------
[ABD]AK58.nad6           --------------------------------------------------
[ABD]AP008982.nad6       --------------------------------------------------
[ABD]NC_036024.nad6      --------------------------------------------------
[ABD]MH051716.nad6       --------------------------------------------------
[S]AP013107.nad6         --------------------------------------------------
[AG]AP013106.nad6        --------------------------------------------------
[D]Clae23.nad6           ATGATTAAAGAAGCAATGGCTAAAGAGGAAGAAAACAGAAACAAGCCTCC
[D]AL8/78.nad6           ATGATTAAAGAAGCAATGGCTAAAGAGGAAGAAAACAGAAACAAGCCTCC
[D]SQ523.nad6            ATGATTAAAGAAGCAATGGCTAAAGAGGAAGAAAACAGAAACAAGCCTCC
[D]Y199.nad6             ATGATTAAAGAAGCAATGGCTAAAGAGGAAGAAAACAGAAACAAGCCTCC
[D]Kaifeng1.nad6         ATGATTAAAGAAGCAATGGCTAAAGAGGAAGAAAACAGAAACAAGCCTCC
[CD]Jinan0529.nad6       ATGATTAAAGAAGCGATG------GAGGAGGAAAACAGATACAAGCCTCC
KJ078648.nad6            ATGATTAAAGAAGCAATGGCTAAAGAGGAAGAAAACAGAAACAAGCCTCC
MZ202552.nad6            --------------------------------------------------
MZ202552.nad6-p          --------------------------------------------------
MN127982.nad6            ATAATCGCT----CACTCGCACAAGCAGTGGAAGCC--------------
MN127982.nad6-p          --------------------------------------------------
OK120846.nad6            --------------------------------------------------
consensus

                        .......960.......970.......980.......990......1000
[A]IX-0944.nad6          GGTGGAAGGTTGTGAAGACCGTCGTATGACGGAGGAGGAAAGGACAAAAT
[A]IX-0946.nad6          GGTGGAAGGTTGTGAAGACCGTCGTATGACGGAGGAGGAAAGGACAAAAT
[A]IX-0957.nad6          GGTGGAAGGTTGTGAAGACCGTCGTATGACGGAGGAGGAAAGGACAAAAT
[A]IX-0969.nad6          GGTGGAAGGTTGTGAAGACCGTCGTATGACGGAGGAGGAAAGGACAAAAT
[A]IX-0976.nad6          GGTGGAAGGTTGTGAAGACCGTCGTATGACGGAGGAGGAAAGGACAAAAT
[AB]SCAUP.nad6           --------------------------------------------------
[AB]Hoh501.nad6          --------------------------------------------------
[AB]DM4.nad6             --------------------------------------------------
[AB]Langdon.nad6         --------------------------------------------------
[AB]81086A.nad6          --------------------------------------------------
[AB]KJ078649.nad6        --------------------------------------------------
[ABD]Lumai1.nad6         --------------------------------------------------
[ABD]Kenong9204.nad6     --------------------------------------------------
[ABD]AK58.nad6           --------------------------------------------------
[ABD]AP008982.nad6       --------------------------------------------------
[ABD]NC_036024.nad6      --------------------------------------------------
[ABD]MH051716.nad6       --------------------------------------------------
[S]AP013107.nad6         --------------------------------------------------
[AG]AP013106.nad6        --------------------------------------------------
[D]Clae23.nad6           GGTGGAAGGTTGTGAAGATCGTCGTATGACAGCGGAAGAAAGTCAAAAT
[D]AL8/78.nad6           GGTGGAAGGTTGTGAAGATCGTCGTATGACAGCGGAAGAAAGTCAAAAT
[D]SQ523.nad6            GGTGGAAGGTTGTGAAGATCGTCGTATGACAGCGGAAGAAAGTCAAAAT
[D]Y199.nad6             GGTGGAAGGTTGTGAAGATCGTCGTATGACAGCGGAAGAAAGTCAAAAT
[D]Kaifeng1.nad6         GGTGGAAGGTTGTGAAGATCGTCGTATGACAGCGGAAGAAAGTCAAAAT
[CD]Jinan0529.nad6       GGTGGAAGGTTGTGAAGACCGTCGTATGACTCCGGAGGAAAGGACAAAAT
KJ078648.nad6            GGTGGAAGGTTGTGAAGATCGTCGTATGACAGCGGAAGAAAGTCAAAAT
MZ202552.nad6            --------------------------------------------------
MZ202552.nad6-p          --------------------------------------------------
MN127982.nad6            -----------------------------------------ACCCAAAAG
MN127982.nad6-p          --------------------------------------------------
OK120846.nad6            --------------------------------------------------
consensus
```

```
               ......1010......1020......1030......1040......1050
[A]IX-0944.nad6      TGCTTGAAGCATTTTCTTTCCTATGGGATAAAAAA---------------
[A]IX-0946.nad6      TGCTTGAAGCATTTTCTTTCCTATGGGATAAAAAA---------------
[A]IX-0957.nad6      TGCTTGAAGCATTTTCTTTCCTATGGGATAAAAAA---------------
[A]IX-0969.nad6      TGCTTGAAGCATTTTCTTTCCTATGGGATAAAAAA---------------
[A]IX-0976.nad6      TGCTTGAAGCATTTTCTTTCCTATGGGATAAAAAA---------------
[AB]SCAUP.nad6       --------------------------------------------------
[AB]Hoh501.nad6      --------------------------------------------------
[AB]DM4.nad6         --------------------------------------------------
[AB]Langdon.nad6     --------------------------------------------------
[AB]81086A.nad6      --------------------------------------------------
[AB]KJ078649.nad6    --------------------------------------------------
[ABD]Lumai1.nad6     --------------------------------------------------
[ABD]Kenong9204.nad6 --------------------------------------------------
[ABD]AK58.nad6       --------------------------------------------------
[ABD]AP008982.nad6   --------------------------------------------------
[ABD]NC_036024.nad6  --------------------------------------------------
[ABD]MH051716.nad6   --------------------------------------------------
[S]AP013107.nad6     --------------------------------------------------
[AG]AP013106.nad6    --------------------------------------------------
[D]Clae23.nad6       TGCTAGAAGCATTTTCTTTCCTATGGGATAAAAAAAAAGATTTGGAACTA
[D]AL8/78.nad6       TGCTAGAAGCATTTTCTTTCCTATGGGATAAAAAAAAAGATTTGGAACTA
[D]SQ523.nad6        TGCTAGAAGCATTTTCTTTCCTATGGGATAAAAAAAAAGATTTGGAACTA
[D]Y199.nad6         TGCTAGAAGCATTTTCTTTCCTATGGGATAAAAAAAAAGATTTGGAACTA
[D]Kaifeng1.nad6     TGCTAGAAGCATTTTCTTTCCTATGGGATAAAAAAAAAGATTTGGAACTA
[CD]Jinan0529.nad6   TGCTTGAAGCATTTTCTTTCCTATGGGATAAAAAA---------------
KJ078648.nad6        TGCTAGAAGCATTTTCTTTCCTATGGGATAAAAAAAAAGATTTGGAACTA
MZ202552.nad6        --------------------------------------------------
MZ202552.nad6-p      --------------------------------------------------
MN127982.nad6        G--------------------------------GG---------------
MN127982.nad6-p      --------------------------------------------------
OK120846.nad6        --------------------------------------------------
consensus            

                ......1060......1070......1080...
[A]IX-0944.nad6      --------------------------------CAATGA
[A]IX-0946.nad6      --------------------------------CAATGA
[A]IX-0957.nad6      --------------------------------CAATGA
[A]IX-0969.nad6      --------------------------------CAATGA
[A]IX-0976.nad6      --------------------------------CAATGA
[AB]SCAUP.nad6       ----------------------------------TAG
[AB]Hoh501.nad6      ----------------------------------TAG
[AB]DM4.nad6         ----------------------------------TAG
[AB]Langdon.nad6     ----------------------------------TAG
[AB]81086A.nad6      ----------------------------------TAG
[AB]KJ078649.nad6    ----------------------------------TAG
[ABD]Lumai1.nad6     ----------------------------------TAG
[ABD]Kenong9204.nad6 ----------------------------------TAG
[ABD]AK58.nad6       ----------------------------------TAG
[ABD]AP008982.nad6   ----------------------------------TAG
[ABD]NC_036024.nad6  ----------------------------------TAG
[ABD]MH051716.nad6   ----------------------------------TAG
[S]AP013107.nad6     ----------------------------------TAG
[AG]AP013106.nad6    ----------------------------------TAG
[D]Clae23.nad6       TTGAGTGGTGTAGGTATCCATCTTAGCAAATAG
[D]AL8/78.nad6       TTGAGTGGTGTAGGTATCCATCTTAGCAAATAG
[D]SQ523.nad6        TTGAGTGGTGTAGGTATCCATCTTAGCAAATAG
[D]Y199.nad6         TTGAGTGGTGTAGGTATCCATCTTAGCAAATAG
[D]Kaifeng1.nad6     TTGAGTGGTGTAGGTATCCATCTTAGCAAATAG
[CD]Jinan0529.nad6   -------------------------AAATGA
KJ078648.nad6        TTGAGTGGTGTAGGTATCCATCTTAGCAAATAG
MZ202552.nad6        ----------------------------CTAA
MZ202552.nad6-p      -----------------------------
MN127982.nad6        ------------------------GGCTAG
MN127982.nad6-p      -----------------------------
OK120846.nad6        ----------------------------CTAA
consensus                                        tag
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                            .........10.........20.........30.........40.........50
[A]IX-0944.nad9              --------------------------------------------------
[A]IX-0946.nad9             --------------------------------------------------
[A]IX-0957.nad9             --------------------------------------------------
[A]IX-0969.nad9             --------------------------------------------------
[A]IX-0976.nad9             --------------------------------------------------
[AB]SCAUP.nad9              ATGCTCTGTATAATACTTTTCCCCGAGCGATGGTTTAGCGGATTCGGAAT
[AB]Hoh501.nad9            ATGCTCTGTATAATACTTTTCCCCGAGCGATGGTTTAGCGGATTCGGAAT
[AB]DM4.nad9               ATGCTCTGTATAATACTTTTCCCCGAGCGATGGTTTAGCGGATTCGGAAT
[AB]Langdon.nad9           ATGCTCTGTATAATACTTTTCCCCGAGCGATGGTTTAGCGGATTCGGAAT
[AB]81086A.nad9            ATGCTCTGTATAATACTTTTCCCCGAGCGATGGTTTAGCGGATTCGGAAT
[AB]KJ078649.nad9          ATGCTCTGTATAATACTTTTCCCCGAGCGATGGTTTAGCGGATTCGGAAT
[ABD]Lumai1.nad9           ATGCTCTGTATAATACTTTTCCCCGAGCGATGGTTTAGCGGATTCGGAAT
[ABD]Kenong9204.nad9       ATGCTCTGTATAATACTTTTCCCCGAGCGATGGTTTAGCGGATTCGGAAT
[ABD]AK58.nad9             ATGCTCTGTATAATACTTTTCCCCGAGCGATGGTTTAGCGGATTCGGAAT
[ABD]AP008982.nad9         ATGCTCTGTATAATACTTTTCCCCGAGCGATGGTTTAGCGGATTCGGAAT
[ABD]NC_036024.nad9        ATGCTCTGTATAATACTTTTCCCCGAGCGATGGTTTAGCGGATTCGGAAT
[ABD]MH051716.nad9         ATGCTCTGTATAATACTTTTCCCCGAGCGATGGTTTAGCGGATTCGGAAT
[S]AP013107.nad9           ATGCTCTGTATAATACTTTTCCCCGAGCGATGGTTTAGCGGATTCGGAAT
[AG]AP013106.nad9          ATGCTCTGTATAATACTTTTCCCCGAGCGATGGTTTAGCGGATTCGGAAT
[D]Clae23.nad9             --------------------------------------------------
[D]AL8/78.nad9             --------------------------------------------------
[D]SQ523.nad9              --------------------------------------------------
[D]Y199.nad9               --------------------------------------------------
[D]Kaifeng1.nad9           --------------------------------------------------
[CD]Jinan0529.nad9         ATGCTCTGTATAATACTTTTCCCCGAGCGATGGTTTAGCGGATTCGGAAT
KJ078648.nad9              --------------------------------------------------
MZ202552.nad9              --------------------------------------------------
MN127982.nad9-1            --------------------------------------------------
MN127982.nad9-2            --------------------------------------------------
MN127982.nad9-p1           --------------------------------------------------
MN127982.nad9-p2           --------------------------------------------------
OK120846.nad9              --------------------------------------------------
consensus

                            ........60.........70.........80.........90.......100
[A]IX-0944.nad9            --------------------------------------------------
[A]IX-0946.nad9            --------------------------------------------------
[A]IX-0957.nad9            --------------------------------------------------
[A]IX-0969.nad9            --------------------------------------------------
[A]IX-0976.nad9            --------------------------------------------------
[AB]SCAUP.nad9             TGTAACCAAGCATCCTGGGTTCTATACCCGATTCAACACTAGAGCATGCA
[AB]Hoh501.nad9            TGTAACCAAGCATCCTGGGTTCTATACCCGATTCAACACTAGAGCATGCA
[AB]DM4.nad9               TGTAACCAAGCATCCTGGGTTCTATACCCGATTCAACACTAGAGCATGCA
[AB]Langdon.nad9           TGTAACCAAGCATCCTGGGTTCTATACCCGATTCAACACTAGAGCATGCA
[AB]81086A.nad9            TGTAACCAAGCATCCTGGGTTCTATACCCGATTCAACACTAGAGCATGCA
[AB]KJ078649.nad9          TGTAACCAAGCATCCTGGGTTCTATACCCGATTCAACACTAGAGCATGCA
[ABD]Lumai1.nad9           TGTAACCAAGCATCCTGGGTTCTATACCCGATTCAACACTAGAGCATGCA
[ABD]Kenong9204.nad9       TGTAACCAAGCATCCTGGGTTCTATACCCGATTCAACACTAGAGCATGCA
[ABD]AK58.nad9             TGTAACCAAGCATCCTGGGTTCTATACCCGATTCAACACTAGAGCATGCA
[ABD]AP008982.nad9         TGTAACCAAGCATCCTGGGTTCTATACCCGATTCAACACTAGAGCATGCA
[ABD]NC_036024.nad9        TGTAACCAAGCATCCTGGGTTCTATACCCGATTCAACACTAGAGCATGCA
[ABD]MH051716.nad9         TGTAACCAAGCATCCTGGGTTCTATACCCGATTCAACACTAGAGCATGCA
[S]AP013107.nad9           TGTAACCAAGCATCCTGGGTTCTATACCCGATTCAACACTAGAGCATGCA
[AG]AP013106.nad9          TGTAACCAAGCATCCTGGGTTCTATACCCGATTCAACACTAGAGCATGCA
[D]Clae23.nad9             --------------------------------------------------
[D]AL8/78.nad9             --------------------------------------------------
[D]SQ523.nad9              --------------------------------------------------
[D]Y199.nad9               --------------------------------------------------
[D]Kaifeng1.nad9           --------------------------------------------------
[CD]Jinan0529.nad9         TGTAACCAAGCATCCTGGGTTCTATACCCGATTCAACACTAGAGCATGCA
KJ078648.nad9              --------------------------------------------------
MZ202552.nad9              --------------------------------------------------
MN127982.nad9-1            --------------------------------------------------
MN127982.nad9-2            --------------------------------------------------
MN127982.nad9-p1           --------------------------------------------------
MN127982.nad9-p2           --------------------------------------------------
OK120846.nad9              --------------------------------------------------
consensus
```

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                  .......110.......120.......130.......140.......150
[A]IX-0944.nad9    --------------------------------------------------
[A]IX-0946.nad9    --------------------------------------------------
[A]IX-0957.nad9    --------------------------------------------------
[A]IX-0969.nad9    --------------------------------------------------
[A]IX-0976.nad9    --------------------------------------------------
[AB]SCAUP.nad9     GCCGATCCTGGATACATAACTCTAAAAAGTGTGTGTGCAGTTTTGGATCT
[AB]Hoh501.nad9    GCCGATCCTGGATACATAACTCTAAAAAGTGTGTGTGCAGTTTTGGATCT
[AB]DM4.nad9       GCCGATCCTGGATACATAACTCTAAAAAGTGTGTGTGCAGTTTTGGATCT
[AB]Langdon.nad9   GCCGATCCTGGATACATAACTCTAAAAAGTGTGTGTGCAGTTTTGGATCT
[AB]81086A.nad9    GCCGATCCTGGATACATAACTCTAAAAAGTGTGTGTGCAGTTTTGGATCT
[AB]KJ078649.nad9  GCCGATCCTGGATACATAACTCTAAAAAGTGTGTGTGCAGTTTTGGATCT
[ABD]Lumai1.nad9   GCCGATCCTGGATACATAACTCTAAAAAGTGTGTGTGCAGTTTTGGATCT
[ABD]Kenong9204.nad9 GCCGATCCTGGATACATAACTCTAAAAAGTGTGTGTGCAGTTTTGGATCT
[ABD]AK58.nad9     GCCGATCCTGGATACATAACTCTAAAAAGTGTGTGTGCAGTTTTGGATCT
[ABD]AP008982.nad9 GCCGATCCTGGATACATAACTCTAAAAAGTGTGTGTGCAGTTTTGGATCT
[ABD]NC_036024.nad9 GCCGATCCTGGATACATAACTCTAAAAAGTGTGTGTGCAGTTTTGGATCT
[ABD]MH051716.nad9 GCCGATCCTGGATACATAACTCTAAAAAGTGTGTGTGCAGTTTTGGATCT
[S]AP013107.nad9   GCCGATCCTGGATACATAACTCTAAAAAGTGTGTGTGCAGTTTTGGATCT
[AG]AP013106.nad9  GCCGATCCTGGATACATAACTCTAAAAAGTGTGTGTGCAGTTTTGGATCT
[D]Clae23.nad9     --------------------------------------------------
[D]AL8/78.nad9     --------------------------------------------------
[D]SQ523.nad9      --------------------------------------------------
[D]Y199.nad9       --------------------------------------------------
[D]Kaifeng1.nad9   --------------------------------------------------
[CD]Jinan0529.nad9 GCCGATCCTGGATACATCACTATATAAAGTGTGCATGCAGTTTTGGATCT
KJ078648.nad9      --------------------------------------------------
MZ202552.nad9      --------------------------------------------------
MN127982.nad9-1    --------------------------------------------------
MN127982.nad9-2    --------------------------------------------------
MN127982.nad9-p1   --------------------------------------------------
MN127982.nad9-p2   --------------------------------------------------
OK120846.nad9      --------------------------------------------------
consensus

                  .......160.......170.......180.......190.......200
[A]IX-0944.nad9    --------------------------------------------------
[A]IX-0946.nad9    --------------------------------------------------
[A]IX-0957.nad9    --------------------------------------------------
[A]IX-0969.nad9    --------------------------------------------------
[A]IX-0976.nad9    --------------------------------------------------
[AB]SCAUP.nad9     TTATTGGTAGCCAGTCTTTCACTTCTGCCTCTCCACTCCCATGCCTTTCT
[AB]Hoh501.nad9    TTATTGGTAGCCAGTCTTTCACTTCTGCCTCTCCACTCCCATGCCTTTCT
[AB]DM4.nad9       TTATTGGTAGCCAGTCTTTCACTTCTGCCTCTCCACTCCCATGCCTTTCT
[AB]Langdon.nad9   TTATTGGTAGCCAGTCTTTCACTTCTGCCTCTCCACTCCCATGCCTTTCT
[AB]81086A.nad9    TTATTGGTAGCCAGTCTTTCACTTCTGCCTCTCCACTCCCATGCCTTTCT
[AB]KJ078649.nad9  TTATTGGTAGCCAGTCTTTCACTTCTGCCTCTCCACTCCCATGCCTTTCT
[ABD]Lumai1.nad9   TTATTGGTAGCCAGTCTTTCACTTCTGCCTCTCCACTCCCATGCCTTTCT
[ABD]Kenong9204.nad9 TTATTGGTAGCCAGTCTTTCACTTCTGCCTCTCCACTCCCATGCCTTTCT
[ABD]AK58.nad9     TTATTGGTAGCCAGTCTTTCACTTCTGCCTCTCCACTCCCATGCCTTTCT
[ABD]AP008982.nad9 TTATTGGTAGCCAGTCTTTCACTTCTGCCTCTCCACTCCCATGCCTTTCT
[ABD]NC_036024.nad9 TTATTGGTAGCCAGTCTTTCACTTCTGCCTCTCCACTCCCATGCCTTTCT
[ABD]MH051716.nad9 TTATTGGTAGCCAGTCTTTCACTTCTGCCTCTCCACTCCCATGCCTTTCT
[S]AP013107.nad9   TTATTGGTAGCCAGTCTTTCACTTCTGCCTCTCCACTCCCATGCCTTTCT
[AG]AP013106.nad9  TTATTGGTAGCCAGTCTTTCACTTCTGCCTCTCCACTCCCATGCCTTTCT
[D]Clae23.nad9     --------------------------------------------------
[D]AL8/78.nad9     --------------------------------------------------
[D]SQ523.nad9      --------------------------------------------------
[D]Y199.nad9       --------------------------------------------------
[D]Kaifeng1.nad9   --------------------------------------------------
[CD]Jinan0529.nad9 TTATTGGTAGCCAGTCTTTCACTTCTGCCTCTCCACTCCCATGCCTTTCT
KJ078648.nad9      --------------------------------------------------
MZ202552.nad9      --------------------------------------------------
MN127982.nad9-1    --------------------------------------------------
MN127982.nad9-2    --------------------------------------------------
MN127982.nad9-p1   --------------------------------------------------
MN127982.nad9-p2   -----------------------------------------------TTTCT
OK120846.nad9      --------------------------------------------------
consensus                                                        tttct
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                   ........210.......220.......230.......240.......250
[A]IX-0944.nad9     --------------------------------------------------
[A]IX-0946.nad9     --------------------------------------------------
[A]IX-0957.nad9     --------------------------------------------------
[A]IX-0969.nad9     --------------------------------------------------
[A]IX-0976.nad9     --------------------------------------------------
[AB]SCAUP.nad9      TGGTCGGACCAACCCAACCGGCGATTTCCGACAAGTCTTTCTGCTTAGAG
[AB]Hoh501.nad9     TGGTCGGACCAACCCAACCGGCGATTTCCGACAAGTCTTTCTGCTTAGAG
[AB]DM4.nad9        TGGTCGGACCAACCCAACCGGCGATTTCCGACAAGTCTTTCTGCTTAGAG
[AB]Langdon.nad9    TGGTCGGACCAACCCAACCGGCGATTTCCGACAAGTCTTTCTGCTTAGAG
[AB]81086A.nad9     TGGTCGGACCAACCCAACCGGCGATTTCCGACAAGTCTTTCTGCTTAGAG
[AB]KJ078649.nad9   TGGTCGGACCAACCCAACCGGCGATTTCCGACAAGTCTTTCTGCTTAGAG
[ABD]Lumai1.nad9    TGGTCGGACCAACCCAACCGGCGATTTCCGACAAGTCTTTCTGCTTAGAG
[ABD]Kenong9204.nad9 TGGTCGGACCAACCCAACCGGCGATTTCCGACAAGTCTTTCTGCTTAGAG
[ABD]AK58.nad9      TGGTCGGACCAACCCAACCGGCGATTTCCGACAAGTCTTTCTGCTTAGAG
[ABD]AP008982.nad9  TGGTCGGACCAACCCAACCGGCGATTTCCGACAAGTCTTTCTGCTTAGAG
[ABD]NC_036024.nad9 TGGTCGGACCAACCCAACCGGCGATTTCCGACAAGTCTTTCTGCTTAGAG
[ABD]MH051716.nad9  TGGTCGGACCAACCCAACCGGCGATTTCCGACAAGTCTTTCTGCTTAGAG
[S]AP013107.nad9    TGGTCGGACCAACCCAACCGGCGATTTCCGACAAGTCTTTCTGCTTAGAG
[AG]AP013106.nad9   TGGTCGGACCAACCCAACCGGCGATTTCCGACAAGTCTTTCTGCTTAGAG
[D]Clae23.nad9      --------------------------------------------------
[D]AL8/78.nad9      --------------------------------------------------
[D]SQ523.nad9       --------------------------------------------------
[D]Y199.nad9        --------------------------------------------------
[D]Kaifeng1.nad9    --------------------------------------------------
[CD]Jinan0529.nad9  TGGTCGGACCAACCCAACCGGCGATTTCCGACAAGTCTTTCTGCTTAGAG
KJ078648.nad9       --------------------------------------------------
MZ202552.nad9       --------------------------------------------------
MN127982.nad9-1     --------------------------------------------------
MN127982.nad9-2     --------------------------------------------------
MN127982.nad9-p1    --------------------------------------------------
MN127982.nad9-p2    TGGTTGGACCAACCCAACCGGCGATTTCCGACAAGTCTTTCTGCTTAGAG
OK120846.nad9       --------------------------------------------------
consensus           tggt ggaccaacccaaccggcgatttccgacaagtctttctgcttagag


                   .......260.......270.......280.......290.......300
[A]IX-0944.nad9     -------------------------------------------ATGGATAAC
[A]IX-0946.nad9     -------------------------------------------ATGGATAAC
[A]IX-0957.nad9     -------------------------------------------ATGGATAAC
[A]IX-0969.nad9     -------------------------------------------ATGGATAAC
[A]IX-0976.nad9     -------------------------------------------ATGGATAAC
[AB]SCAUP.nad9      CAAGAAGCGGAACCAAAATAAAGCTTTCTTTATTTTCATTTATGGATAAC
[AB]Hoh501.nad9     CAAGAAGCGGAACCAAAATAAAGCTTTCTTTATTTTCATTTATGGATAAC
[AB]DM4.nad9        CAAGAAGCGGAACCAAAATAAAGCTTTCTTTATTTTCATTTATGGATAAC
[AB]Langdon.nad9    CAAGAAGCGGAACCAAAATAAAGCTTTCTTTATTTTCATTTATGGATAAC
[AB]81086A.nad9     CAAGAAGCGGAACCAAAATAAAGCTTTCTTTATTTTCATTTATGGATAAC
[AB]KJ078649.nad9   CAAGAAGCGGAACCAAAATAAAGCTTTCTTTATTTTCATTTATGGATAAC
[ABD]Lumai1.nad9    CAAGAAGCGGAACCAAAATAAAGCTTTCTTTATTTTCATTTATGGATAAC
[ABD]Kenong9204.nad9 CAAGAAGCGGAACCAAAATAAAGCTTTCTTTATTTTCATTTATGGATAAC
[ABD]AK58.nad9      CAAGAAGCGGAACCAAAATAAAGCTTTCTTTATTTTCATTTATGGATAAC
[ABD]AP008982.nad9  CAAGAAGCGGAACCAAAATAAAGCTTTCTTTATTTTCATTTATGGATAAC
[ABD]NC_036024.nad9 CAAGAAGCGGAACCAAAATAAAGCTTTCTTTATTTTCATTTATGGATAAC
[ABD]MH051716.nad9  CAAGAAGCGGAACCAAAATAAAGCTTTCTTTATTTTCATTTATGGATAAC
[S]AP013107.nad9    CAAGAAGCGGAACCAAAATAAAGCTTTCTTTATTTTCATTTATGGATAAC
[AG]AP013106.nad9   CAAGAAGCGGAACCAAAATAAAGCTTTCTTTATTTTCATTTATGGATAAC
[D]Clae23.nad9      -------------------------------------------ATGGATAAC
[D]AL8/78.nad9      -------------------------------------------ATGGATAAC
[D]SQ523.nad9       -------------------------------------------ATGGATAAC
[D]Y199.nad9        -------------------------------------------ATGGATAAC
[D]Kaifeng1.nad9    -------------------------------------------ATGGATAAC
[CD]Jinan0529.nad9  CAAGAAGCGGAACCAAAATAAAGCTTTCTTTATTTTCATTTATGGATAAC
KJ078648.nad9       -------------------------------------------ATGGATAAC
MZ202552.nad9       -------------------------------------------ATGGATAAC
MN127982.nad9-1     -------------------------------------------ATGGATAAC
MN127982.nad9-2     -------------------------------------------ATGGATAAC
MN127982.nad9-p1    -------------------------------------------ATGGATAAC
MN127982.nad9-p2    CAAGAAA-----GCAGAGCTAAAATTTCTTTTTTTTCATTTATGGATAAC
OK120846.nad9       -------------------------------------------ATGGATAAC
consensus           caagaag      caaaa  aag tttcttt ttttcatttatggataac
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                    .........310.......320.......330.......340.......350
[A]IX-0944.nad9      CAATCCATTTTCCAATATAGTTGGGAGATTTTACCCAAGAAATGGGTACA
[A]IX-0946.nad9      CAATCCATTTTCCAATATAGTTGGGAGATTTTACCCAAGAAATGGGTACA
[A]IX-0957.nad9      CAATCCATTTTCCAATATAGTTGGGAGATTTTACCCAAGAAATGGGTACA
[A]IX-0969.nad9      CAATCCATTTTCCAATATAGTTGGGAGATTTTACCCAAGAAATGGGTACA
[A]IX-0976.nad9      CAATCCATTTTCCAATATAGTTGGGAGATTTTACCCAAGAAATGGGTACA
[AB]SCAUP.nad9       CAATCCATTTTCCAATATAGTTGGGAGATTTTACCCAAGAAATGGGTACA
[AB]Hoh501.nad9      CAATCCATTTTCCAATATAGTTGGGAGATTTTACCCAAGAAATGGGTACA
[AB]DM4.nad9         CAATCCATTTTCCAATATAGTTGGGAGATTTTACCCAAGAAATGGGTACA
[AB]Langdon.nad9     CAATCCATTTTCCAATATAGTTGGGAGATTTTACCCAAGAAATGGGTACA
[AB]81086A.nad9      CAATCCATTTTCCAATATAGTTGGGAGATTTTACCCAAGAAATGGGTACA
[AB]KJ078649.nad9    CAATCCATTTTCCAATATAGTTGGGAGATTTTACCCAAGAAATGGGTACA
[ABD]Lumai1.nad9     CAATCCATTTTCCAATATAGTTGGGAGATTTTACCCAAGAAATGGGTACA
[ABD]Kenong9204.nad9 CAATCCATTTTCCAATATAGTTGGGAGATTTTACCCAAGAAATGGGTACA
[ABD]AK58.nad9       CAATCCATTTTCCAATATAGTTGGGAGATTTTACCCAAGAAATGGGTACA
[ABD]AP008982.nad9   CAATCCATTTTCCAATATAGTTGGGAGATTTTACCCAAGAAATGGGTACA
[ABD]NC_036024.nad9  CAATCCATTTTCCAATATAGTTGGGAGATTTTACCCAAGAAATGGGTACA
[ABD]MH051716.nad9   CAATCCATTTTCCAATATAGTTGGGAGATTTTACCCAAGAAATGGGTACA
[S]AP013107.nad9     CAATCCATTTTCCAATATAGTTGGGAGATTTTACCCAAGAAATGGGTACA
[AG]AP013106.nad9    CAATCCATTTTCCAATATAGTTGGGAGATTTTACCCAAGAAATGGGTACA
[D]Clae23.nad9       CAATCCATTTTCCAATATAGTTGGGAGATTTTACCCAAGAAATGGGTACA
[D]AL8/78.nad9       CAATCCATTTTCCAATATAGTTGGGAGATTTTACCCAAGAAATGGGTACA
[D]SQ523.nad9        CAATCCATTTTCCAATATAGTTGGGAGATTTTACCCAAGAAATGGGTACA
[D]Y199.nad9         CAATCCATTTTCCAATATAGTTGGGAGATTTTACCCAAGAAATGGGTACA
[D]Kaifeng1.nad9     CAATCCATTTTCCAATATAGTTGGGAGATTTTACCCAAGAAATGGGTACA
[CD]Jinan0529.nad9   CAATCCATTTTCCAATATAGTTGGGAGATTTTACCCAAGAAATGGGTACA
KJ078648.nad9        CAATCCATTTTCCAATATAGTTGGGAGATTTTACCCAAGAAATGGGTACA
MZ202552.nad9        CAATCCATTTTCCAATATAGTTGGGAGATTTTACCCAAGAAATGGGTACA
MN127982.nad9-1      CAATCCATTTTCCAATATAGTTGGGAGATTTTACCCAAGAAATGGGTACA
MN127982.nad9-2      CAATCCATTTTCCAATATAGTTGGGAGATTTTACCCAAGAAATGGGTACA
MN127982.nad9-p1     ------------------GTTGGGAGATTTTACCCAAGAAATGGGTACA
MN127982.nad9-p2     CAATCCA------------------------------------------
OK120846.nad9        CAATCCATTTTCCAATATAGTTGGGAGATTTTACCCAAGAAATGGGTACA
consensus            caatccattttccaatatagttgggagattttacccaagaaatgggtaca

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[A]IX-0944.nad9      TAAAATGAAAAGATCGGAACATGGGAATAGATCTTATACCAATACTGACT
[A]IX-0946.nad9      TAAAATGAAAAGATCGGAACATGGGAATAGATCTTATACCAATACTGACT
[A]IX-0957.nad9      TAAAATGAAAAGATCGGAACATGGGAATAGATCTTATACCAATACTGACT
[A]IX-0969.nad9      TAAAATGAAAAGATCGGAACATGGGAATAGATCTTATACCAATACTGACT
[A]IX-0976.nad9      TAAAATGAAAAGATCGGAACATGGGAATAGATCTTATACCAATACTGACT
[AB]SCAUP.nad9       TAAAATGAAAAGATCGGAACATGGGAATAGATCTTATACCAATACTGACT
[AB]Hoh501.nad9      TAAAATGAAAAGATCGGAACATGGGAATAGATCTTATACCAATACTGACT
[AB]DM4.nad9         TAAAATGAAAAGATCGGAACATGGGAATAGATCTTATACCAATACTGACT
[AB]Langdon.nad9     TAAAATGAAAAGATCGGAACATGGGAATAGATCTTATACCAATACTGACT
[AB]81086A.nad9      TAAAATGAAAAGATCGGAACATGGGAATAGATCTTATACCAATACTGACT
[AB]KJ078649.nad9    TAAAATGAAAAGATCGGAACATGGGAATAGATCTTATACCAATACTGACT
[ABD]Lumai1.nad9     TAAAATGAAAAGATCGGAACATGGGAATAGATCTTATACCAATACTGACT
[ABD]Kenong9204.nad9 TAAAATGAAAAGATCGGAACATGGGAATAGATCTTATACCAATACTGACT
[ABD]AK58.nad9       TAAAATGAAAAGATCGGAACATGGGAATAGATCTTATACCAATACTGACT
[ABD]AP008982.nad9   TAAAATGAAAAGATCGGAACATGGGAATAGATCTTATACCAATACTGACT
[ABD]NC_036024.nad9  TAAAATGAAAAGATCGGAACATGGGAATAGATCTTATACCAATACTGACT
[ABD]MH051716.nad9   TAAAATGAAAAGATCGGAACATGGGAATAGATCTTATACCAATACTGACT
[S]AP013107.nad9     TAAAATGAAAAGATCGGAACATGGGAATAGATCTTATACCAATACTGACT
[AG]AP013106.nad9    TAAAATGAAAAGATCGGAACATGGGAATAGATCTTATACCAATACTGACT
[D]Clae23.nad9       TAAAATGAAAAGATCGGAACATGGGAATAGATCTTATACCAATACTGACT
[D]AL8/78.nad9       TAAAATGAAAAGATCGGAACATGGGAATAGATCTTATACCAATACTGACT
[D]SQ523.nad9        TAAAATGAAAAGATCGGAACATGGGAATAGATCTTATACCAATACTGACT
[D]Y199.nad9         TAAAATGAAAAGATCGGAACATGGGAATAGATCTTATACCAATACTGACT
[D]Kaifeng1.nad9     TAAAATGAAAAGATCGGAACATGGGAATAGATCTTATACCAATACTGACT
[CD]Jinan0529.nad9   TAAAATGAAAAGATCGGAACATGGGAATAGATCTTATACCAATACTGACT
KJ078648.nad9        TAAAATGAAAAGATCGGAACATGGGAATAGATCTTATACCAATACTGACT
MZ202552.nad9        TAAAATGAAAAGATCGGAACATGGGAATAGATCTTATACCAATACTGACT
MN127982.nad9-1      TAAAATGAAAAGATCGGAACATGGGAATAGATCTTATACCAATACTGACT
MN127982.nad9-2      TAAAATGAAAAGATCGGAACATGGGAATAGATCTTATACCAATACTGACT
MN127982.nad9-p1     TAAAATGAAAAGATCGGAACATGGGAATAGATCTTATACCAATACTGACT
MN127982.nad9-p2     --------------------------------------------------
OK120846.nad9        TAAAATGAAAAGATCGGAACATGGGAATAGATCTTATACCAATACTGACT
consensus            taaaatgaaaagatcggaacatgggaatagatcttataccaatactgact
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                 .......410.......420.......430.......440.......450
[A]IX-0944.nad9   ACCCATTTCCATTGTTGTGCTTTCTAAAATGGCATACCTATACAAGGGTT
[A]IX-0946.nad9   ACCCATTTCCATTGTTGTGCTTTCTAAAATGGCATACCTATACAAGGGTT
[A]IX-0957.nad9   ACCCATTTCCATTGTTGTGCTTTCTAAAATGGCATACCTATACAAGGGTT
[A]IX-0969.nad9   ACCCATTTCCATTGTTGTGCTTTCTAAAATGGCATACCTATACAAGGGTT
[A]IX-0976.nad9   ACCCATTTCCATTGTTGTGCTTTCTAAAATGGCATACCTATACAAGGGTT
[AB]SCAUP.nad9    ACCCATTTCCATTGTTGTGCTTTCTAAAATGGCATACCTATACAAGGGTT
[AB]Hoh501.nad9   ACCCATTTCCATTGTTGTGCTTTCTAAAATGGCATACCTATACAAGGGTT
[AB]DM4.nad9      ACCCATTTCCATTGTTGTGCTTTCTAAAATGGCATACCTATACAAGGGTT
[AB]Langdon.nad9  ACCCATTTCCATTGTTGTGCTTTCTAAAATGGCATACCTATACAAGGGTT
[AB]81086A.nad9   ACCCATTTCCATTGTTGTGCTTTCTAAAATGGCATACCTATACAAGGGTT
[AB]KJ078649.nad9 ACCCATTTCCATTGTTGTGCTTTCTAAAATGGCATACCTATACAAGGGTT
[ABD]Lumai1.nad9  ACCCATTTCCATTGTTGTGCTTTCTAAAATGGCATACCTATACAAGGGTT
[ABD]Kenong9204.nad9 ACCCATTTCCATTGTTGTGCTTTCTAAAATGGCATACCTATACAAGGGTT
[ABD]AK58.nad9    ACCCATTTCCATTGTTGTGCTTTCTAAAATGGCATACCTATACAAGGGTT
[ABD]AP008982.nad9 ACCCATTTCCATTGTTGTGCTTTCTAAAATGGCATACCTATACAAGGGTT
[ABD]NC_036024.nad9 ACCCATTTCCATTGTTGTGCTTTCTAAAATGGCATACCTATACAAGGGTT
[ABD]MH051716.nad9 ACCCATTTCCATTGTTGTGCTTTCTAAAATGGCATACCTATACAAGGGTT
[S]AP013107.nad9  ACCCATTTCCATTGTTGTGCTTTCTAAAATGGCATACCTATACAAGGGTT
[AG]AP013106.nad9 ACCCATTTCCATTGTTGTGCTTTCTAAAATGGCATACCTATACAAGGGTT
[D]Clae23.nad9    ACCCATTTCCATTGTTGTGCTTTCTAAAATGGCATACCTATACAAGGGTT
[D]AL8/78.nad9    ACCCATTTCCATTGTTGTGCTTTCTAAAATGGCATACCTATACAAGGGTT
[D]SQ523.nad9     ACCCATTTCCATTGTTGTGCTTTCTAAAATGGCATACCTATACAAGGGTT
[D]Y199.nad9      ACCCATTTCCATTGTTGTGCTTTCTAAAATGGCATACCTATACAAGGGTT
[D]Kaifeng1.nad9  ACCCATTTCCATTGTTGTGCTTTCTAAAATGGCATACCTATACAAGGGTT
[CD]Jinan0529.nad9 ACCCATTTCCATTGTTGTGCTTTCTAAAATGGCATACCTATACAAGGGTT
KJ078648.nad9     ACCCATTTCCATTGTTGTGCTTTCTAAAATGGCATACCTATACAAGGGTT
MZ202552.nad9     ACCCATTTCCATTGTTGTGCTTTCTAAAATGGCATACCTATACAAGGGTT
MN127982.nad9-1   ACCCATTTCCATTGTTGTGCTTTCTAAAATGGCATACCTATACAAGGGTT
MN127982.nad9-2   ACCCATTTCCATTGTTGTGCTTTCTAAAATGGCATACCTATACAAGGGTT
MN127982.nad9-p1  ACCCATTTCCATTAT-GTACTTTCTA-------------------------
MN127982.nad9-p2  --------------------------------------------------
OK120846.nad9     ACCCATTTCCATTGTTGTGCTTTCTAAAATGGCATACCTATACAAGGGTT
consensus         acccatttccattgttgtgctttctaaaatggcatacctatacaagggtt

                 .......460.......470.......480.......490.......500
[A]IX-0944.nad9   CAAGTTTCGATCGATATTTGCGGAGTGGATCATCCCTCTCGAAAACGAAG
[A]IX-0946.nad9   CAAGTTTCGATCGATATTTGCGGAGTGGATCATCCCTCTCGAAAACGAAG
[A]IX-0957.nad9   CAAGTTTCGATCGATATTTGCGGAGTGGATCATCCCTCTCGAAAACGAAG
[A]IX-0969.nad9   CAAGTTTCGATCGATATTTGCGGAGTGGATCATCCCTCTCGAAAACGAAG
[A]IX-0976.nad9   CAAGTTTCGATCGATATTTGCGGAGTGGATCATCCCTCTCGAAAACGAAG
[AB]SCAUP.nad9    CAAGTTTCGATCGATATTTGCGGAGTGGATCATCCCTCTCGAAAACGAAG
[AB]Hoh501.nad9   CAAGTTTCGATCGATATTTGCGGAGTGGATCATCCCTCTCGAAAACGAAG
[AB]DM4.nad9      CAAGTTTCGATCGATATTTGCGGAGTGGATCATCCCTCTCGAAAACGAAG
[AB]Langdon.nad9  CAAGTTTCGATCGATATTTGCGGAGTGGATCATCCCTCTCGAAAACGAAG
[AB]81086A.nad9   CAAGTTTCGATCGATATTTGCGGAGTGGATCATCCCTCTCGAAAACGAAG
[AB]KJ078649.nad9 CAAGTTTCGATCGATATTTGCGGAGTGGATCATCCCTCTCGAAAACGAAG
[ABD]Lumai1.nad9  CAAGTTTCGATCGATATTTGCGGAGTGGATCATCCCTCTCGAAAACGAAG
[ABD]Kenong9204.nad9 CAAGTTTCGATCGATATTTGCGGAGTGGATCATCCCTCTCGAAAACGAAG
[ABD]AK58.nad9    CAAGTTTCGATCGATATTTGCGGAGTGGATCATCCCTCTCGAAAACGAAG
[ABD]AP008982.nad9 CAAGTTTCGATCGATATTTGCGGAGTGGATCATCCCTCTCGAAAACGAAG
[ABD]NC_036024.nad9 CAAGTTTCGATCGATATTTGCGGAGTGGATCATCCCTCTCGAAAACGAAG
[ABD]MH051716.nad9 CAAGTTTCGATCGATATTTGCGGAGTGGATCATCCCTCTCGAAAACGAAG
[S]AP013107.nad9  CAAGTTTCGATCGATATTTGCGGAGTGGATCATCCCTCTCGAAAACGAAG
[AG]AP013106.nad9 CAAGTTTCGATCGATATTTGCGGAGTGGATCATCCCTCTCGAAAACGAAG
[D]Clae23.nad9    CAAGTTTCGATCGATATTTGCGGAGTGGATCATCCCTCTCGAAAACGCAG
[D]AL8/78.nad9    CAAGTTTCGATCGATATTTGCGGAGTGGATCATCCCTCTCGAAAACGCAG
[D]SQ523.nad9     CAAGTTTCGATCGATATTTGCGGAGTGGATCATCCCTCTCGAAAACGCAG
[D]Y199.nad9      CAAGTTTCGATCGATATTTGCGGAGTGGATCATCCCTCTCGAAAACGCAG
[D]Kaifeng1.nad9  CAAGTTTCGATCGATATTTGCGGAGTGGATCATCCCTCTCGAAAACGCAG
[CD]Jinan0529.nad9 CAAGTTTCGATCGATATTTGCGGAGTGGATCATCCCTCTCGAAAACGAAG
KJ078648.nad9     CAAGTTTCGATCGATATTTGCGGAGTGGATCATCCCTCTCGAAAACGCAG
MZ202552.nad9     CAAGTTTCGATCGATATTTGCGGAGTGGATCATCCCTCTCGAAAACGCAG
MN127982.nad9-1   CAAGTTTCGATCGATATTTGCGGAGTGGATCATCCCTCTCGAAAACGCAG
MN127982.nad9-2   CAAGTTTCGATCGATATTTGCGGAGTGGATCATCCCTCTCGAAAACGCAG
MN127982.nad9-p1  --------------------------------------------------
MN127982.nad9-p2  --------------------------------------------------
OK120846.nad9     CAAGTTTCGATCGATATTTGCGGAGTGGATCATCCCTCTCGAAAACGAAG
consensus         caagtttcgatcgatatttgcggagtggatcatccctctcgaaaacgaag
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                        ........510.......520.......530.......540.......550
[A]IX-0944.nad9         ATTTGAAGTTGTCCATAATTTACTGAGTACTCGGTATAACTCACGCATTC
[A]IX-0946.nad9         ATTTGAAGTTGTCCATAATTTACTGAGTACTCGGTATAACTCACGCATTC
[A]IX-0957.nad9         ATTTGAAGTTGTCCATAATTTACTGAGTACTCGGTATAACTCACGCATTC
[A]IX-0969.nad9         ATTTGAAGTTGTCCATAATTTACTGAGTACTCGGTATAACTCACGCATTC
[A]IX-0976.nad9         ATTTGAAGTTGTCCATAATTTACTGAGTACTCGGTATAACTCACGCATTC
[AB]SCAUP.nad9          ATTTGAAGTTGTCCATAATTTACTGAGTACTCGGTATAACTCACGCATTC
[AB]Hoh501.nad9         ATTTGAAGTTGTCCATAATTTACTGAGTACTCGGTATAACTCACGCATTC
[AB]DM4.nad9            ATTTGAAGTTGTCCATAATTTACTGAGTACTCGGTATAACTCACGCATTC
[AB]Langdon.nad9        ATTTGAAGTTGTCCATAATTTACTGAGTACTCGGTATAACTCACGCATTC
[AB]81086A.nad9         ATTTGAAGTTGTCCATAATTTACTGAGTACTCGGTATAACTCACGCATTC
[AB]KJ078649.nad9       ATTTGAAGTTGTCCATAATTTACTGAGTACTCGGTATAACTCACGCATTC
[ABD]Lumai1.nad9        ATTTGAAGTTGTCCATAATTTACTGAGTACTCGGTATAACTCACGCATTC
[ABD]Kenong9204.nad9    ATTTGAAGTTGTCCATAATTTACTGAGTACTCGGTATAACTCACGCATTC
[ABD]AK58.nad9          ATTTGAAGTTGTCCATAATTTACTGAGTACTCGGTATAACTCACGCATTC
[ABD]AP008982.nad9      ATTTGAAGTTGTCCATAATTTACTGAGTACTCGGTATAACTCACGCATTC
[ABD]NC_036024.nad9     ATTTGAAGTTGTCCATAATTTACTGAGTACTCGGTATAACTCACGCATTC
[ABD]MH051716.nad9      ATTTGAAGTTGTCCATAATTTACTGAGTACTCGGTATAACTCACGCATTC
[S]AP013107.nad9        ATTTGAAGTTGTCCATAATTTACTGAGTACTCGGTATAACTCACGCATTC
[AG]AP013106.nad9       ATTTGAAGTTGTCCATAATTTACTGAGTACTCGGTATAACTCACGCATTC
[D]Clae23.nad9          ATTTGAAGTTGTCCATAATTTACTGAGTACTCGGTATAACTCACGCATTC
[D]AL8/78.nad9          ATTTGAAGTTGTCCATAATTTACTGAGTACTCGGTATAACTCACGCATTC
[D]SQ523.nad9           ATTTGAAGTTGTCCATAATTTACTGAGTACTCGGTATAACTCACGCATTC
[D]Y199.nad9            ATTTGAAGTTGTCCATAATTTACTGAGTACTCGGTATAACTCACGCATTC
[D]Kaifeng1.nad9        ATTTGAAGTTGTCCATAATTTACTGAGTACTCGGTATAACTCACGCATTC
[CD]Jinan0529.nad9      ATTTGAAGTTGTCCATAATTTACTGAGTACTCGGTATAACTCACGCATTC
KJ078648.nad9           ATTTGAAGTTGTCCATAATTTACTGAGTACTCGGTATAACTCACGCATTC
MZ202552.nad9           ATTTGAAGTTGTCCATAATTTACTGAGTACTCGGTATAACTCACGCATTC
MN127982.nad9-1         ATTTGAAGTTGTCCATAATTTACTGAGTACTCGGTATAACTCACGCATTC
MN127982.nad9-2         ATTTGAAGTTGTCCATAATTTACTGAGTACTCGGTATAACTCACGCATTC
MN127982.nad9-p1        --------------------------------------------------
MN127982.nad9-p2        --------------------------------------------------
OK120846.nad9           ATTTGAAGTTGTCCATAATTTACTGAGTACTCGGTATAACTCACGCATTC
consensus               atttgaagttgtccataatttactgagtactcggtataactcacgcattc


                        ........560.......570.......580.......590.......600
[A]IX-0944.nad9         GTGTACAAACAAGTGCAGACGAAGTAACACGAATATCTCCGGTAGTCAGT
[A]IX-0946.nad9         GTGTACAAACAAGTGCAGACGAAGTAACACGAATATCTCCGGTAGTCAGT
[A]IX-0957.nad9         GTGTACAAACAAGTGCAGACGAAGTAACACGAATATCTCCGGTAGTCAGT
[A]IX-0969.nad9         GTGTACAAACAAGTGCAGACGAAGTAACACGAATATCTCCGGTAGTCAGT
[A]IX-0976.nad9         GTGTACAAACAAGTGCAGACGAAGTAACACGAATATCTCCGGTAGTCAGT
[AB]SCAUP.nad9          GTGTACAAACAAGTGCAGACGAAGTAACACGAATATCTCCGGTAGTCAGT
[AB]Hoh501.nad9         GTGTACAAACAAGTGCAGACGAAGTAACACGAATATCTCCGGTAGTCAGT
[AB]DM4.nad9            GTGTACAAACAAGTGCAGACGAAGTAACACGAATATCTCCGGTAGTCAGT
[AB]Langdon.nad9        GTGTACAAACAAGTGCAGACGAAGTAACACGAATATCTCCGGTAGTCAGT
[AB]81086A.nad9         GTGTACAAACAAGTGCAGACGAAGTAACACGAATATCTCCGGTAGTCAGT
[AB]KJ078649.nad9       GTGTACAAACAAGTGCAGACGAAGTAACACGAATATCTCCGGTAGTCAGT
[ABD]Lumai1.nad9        GTGTACAAACAAGTGCAGACGAAGTAACACGAATATCTCCGGTAGTCAGT
[ABD]Kenong9204.nad9    GTGTACAAACAAGTGCAGACGAAGTAACACGAATATCTCCGGTAGTCAGT
[ABD]AK58.nad9          GTGTACAAACAAGTGCAGACGAAGTAACACGAATATCTCCGGTAGTCAGT
[ABD]AP008982.nad9      GTGTACAAACAAGTGCAGACGAAGTAACACGAATATCTCCGGTAGTCAGT
[ABD]NC_036024.nad9     GTGTACAAACAAGTGCAGACGAAGTAACACGAATATCTCCGGTAGTCAGT
[ABD]MH051716.nad9      GTGTACAAACAAGTGCAGACGAAGTAACACGAATATCTCCGGTAGTCAGT
[S]AP013107.nad9        GTGTACAAACAAGTGCAGACGAAGTAACACGAATATCTCCGGTAGTCAGT
[AG]AP013106.nad9       GTGTACAAACAAGTGCAGACGAAGTAACACGAATATCTCCGGTAGTCAGT
[D]Clae23.nad9          GTGTACAAACAAGTGCAGACGAAGTAACACGAATATCTCCGGTAGTCAGT
[D]AL8/78.nad9          GTGTACAAACAAGTGCAGACGAAGTAACACGAATATCTCCGGTAGTCAGT
[D]SQ523.nad9           GTGTACAAACAAGTGCAGACGAAGTAACACGAATATCTCCGGTAGTCAGT
[D]Y199.nad9            GTGTACAAACAAGTGCAGACGAAGTAACACGAATATCTCCGGTAGTCAGT
[D]Kaifeng1.nad9        GTGTACAAACAAGTGCAGACGAAGTAACACGAATATCTCCGGTAGTCAGT
[CD]Jinan0529.nad9      GTGTACAAACAAGTGCAGACGAAGTAACACGAATATCTCCGGTAGTCAGT
KJ078648.nad9           GTGTACAAACAAGTGCAGACGAAGTAACACGAATATCTCCGGTAGTCAGT
MZ202552.nad9           GTGTACAAACAAGTGCAGACGAAGTAACACGAATATCTCCGGTAGTCAGT
MN127982.nad9-1         GTGTACAAACAAGTGCAGACGAAGTAACACGAATATCTCCGGTAGTCAGT
MN127982.nad9-2         GTGTACAAACAAGTGCAGACGAAGTAACACGAATATCTCCGGTAGTCAGT
MN127982.nad9-p1        --------------------------------------------------
MN127982.nad9-p2        --------------------------------------------------
OK120846.nad9           GTGTACAAACAAGTGCAGACGAAGTAACACGAATATCTCCGGTAGTCAGT
consensus               gtgtacaaacaagtgcagacgaagtaacacgaatatctccggtagtcagt
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                     ........610.......620.......630.......640.......650
[A]IX-0944.nad9       CTATTTCCATCAGCCGGCCGGTGGGAGCGAGAAGTATGGGATATGTCTGG
[A]IX-0946.nad9       CTATTTCCATCAGCCGGCCGGTGGGAGCGAGAAGTATGGGATATGTCTGG
[A]IX-0957.nad9       CTATTTCCATCAGCCGGCCGGTGGGAGCGAGAAGTATGGGATATGTCTGG
[A]IX-0969.nad9       CTATTTCCATCAGCCGGCCGGTGGGAGCGAGAAGTATGGGATATGTCTGG
[A]IX-0976.nad9       CTATTTCCATCAGCCGGCCGGTGGGAGCGAGAAGTATGGGATATGTCTGG
[AB]SCAUP.nad9        CTATTTCCATCAGCCGGCCGGTGGGAGCGAGAAGTATGGGATGTCTGG
[AB]Hoh501.nad9       CTATTTCCATCAGCCGGCCGGTGGGAGCGAGAAGTATGGGATATGTCTGG
[AB]DM4.nad9          CTATTTCCATCAGCCGGCCGGTGGGAGCGAGAAGTATGGGATATGTCTGG
[AB]Langdon.nad9      CTATTTCCATCAGCCGGCCGGTGGGAGCGAGAAGTATGGGATATGTCTGG
[AB]81086A.nad9       CTATTTCCATCAGCCGGCCGGTGGGAGCGAGAAGTATGGGATATGTCTGG
[AB]KJ078649.nad9     CTATTTCCATCAGCCGGCCGGTGGGAGCGAGAAGTATGGGATGTCTGG
[ABD]Lumai1.nad9      CTATTTCCATCAGCCGGCCGGTGGGAGCGAGAAGTATGGGATATGTCTGG
[ABD]Kenong9204.nad9  CTATTTCCATCAGCCGGCCGGTGGGAGCGAGAAGTATGGGATATGTCTGG
[ABD]AK58.nad9        CTATTTCCATCAGCCGGCCGGTGGGAGCGAGAAGTATGGGATATGTCTGG
[ABD]AP008982.nad9    CTATTTCCATCAGCCGGCCGGTGGGAGCGAGAAGTATGGGATATGTCTGG
[ABD]NC_036024.nad9   CTATTTCCATCAGCCGGCCGGTGGGAGCGAGAAGTATGGGATATGTCTGG
[ABD]MH051716.nad9    CTATTTCCATCAGCCGGCCGGTGGGAGCGAGAAGTATGGGATATGTCTGG
[S]AP013107.nad9      CTATTTCCATCAGCCGGCCGGTGGGAGCGAGAAGTATGGGATGTCTGG
[AG]AP013106.nad9     CTATTTCCATCAGCCGGCCGGTGGGAGCGAGAAGTATGGGATGTCTGG
[D]Clae23.nad9        CTATTTCCATCAGCCGGCCGGTGGGAGCGAGAAGTATGGGATATGTCTGG
[D]AL8/78.nad9        CTATTTCCATCAGCCGGCCGGTGGGAGCGAGAAGTATGGGATATGTCTGG
[D]SQ523.nad9         CTATTTCCATCAGCCGGCCGGTGGGAGCGAGAAGTATGGGATATGTCTGG
[D]Y199.nad9          CTATTTCCATCAGCCGGCCGGTGGGAGCGAGAAGTATGGGATATGTCTGG
[D]Kaifeng1.nad9      CTATTTCCATCAGCCGGCCGGTGGGAGCGAGAAGTATGGGATATGTCTGG
[CD]Jinan0529.nad9    CTATTTCCATCAGCCGGCCGGTGGGAGCGAGAAGTATGGGATGTCTGG
KJ078648.nad9         CTATTTCCATCAGCCGGCCGGTGGGAGCGAGAAGTATGGGATATGTCTGG
MZ202552.nad9         CTATTTCCATCAGCCGGCCGGTGGGAGCGAGAAGTATGGGATATGTCTGG
MN127982.nad9-1       CTATTTCCATCAGCCGGCCGGTGGGAGCGAGAAGTATGGGATATGTCTGG
MN127982.nad9-2       CTATTTCCATCAGCCGGCCGGTGGGAGCGAGAAGTATGGGATATGTCTGG
MN127982.nad9-p1      --------------------------------------------------
MN127982.nad9-p2      --------------------------------------------------
OK120846.nad9         CTATTTCCATCAGCCGGCCGGTGGGAGCGAGAAGTATGGGATATGTCTGG
consensus             ctatttccatcagccggccggtgggagcgagaagtatgggatatgtctgg


                     ........660.......670.......680.......690.......700
[A]IX-0944.nad9       TGTTTCTTCCATCAATCATCCGGATTTACGCCGTATATCAACAGATTATG
[A]IX-0946.nad9       TGTTTCTTCCATCAATCATCCGGATTTACGCCGTATATCAACAGATTATG
[A]IX-0957.nad9       TGTTTCTTCCATCAATCATCCGGATTTACGCCGTATATCAACAGATTATG
[A]IX-0969.nad9       TGTTTCTTCCATCAATCATCCGGATTTACGCCGTATATCAACAGATTATG
[A]IX-0976.nad9       TGTTTCTTCCATCAATCATCCGGATTTACGCCGTATATCAACAGATTATG
[AB]SCAUP.nad9        TGTTTCTTCCATCAATCATCCGGATTTACGCCGTATATCAACAGATTATG
[AB]Hoh501.nad9       TGTTTCTTCCATCAATCATCCGGATTTACGCCGTATATCAACAGATTATG
[AB]DM4.nad9          TGTTTCTTCCATCAATCATCCGGATTTACGCCGTATATCAACAGATTATG
[AB]Langdon.nad9      TGTTTCTTCCATCAATCATCCGGATTTACGCCGTATATCAACAGATTATG
[AB]81086A.nad9       TGTTTCTTCCATCAATCATCCGGATTTACGCCGTATATCAACAGATTATG
[AB]KJ078649.nad9     TGTTTCTTCCATCAATCATCCGGATTTACGCCGTATATCAACAGATTATG
[ABD]Lumai1.nad9      TGTTTCTTCCATCAATCATCCGGATTTACGCCGTATATCAACAGATTATG
[ABD]Kenong9204.nad9  TGTTTCTTCCATCAATCATCCGGATTTACGCCGTATATCAACAGATTATG
[ABD]AK58.nad9        TGTTTCTTCCATCAATCATCCGGATTTACGCCGTATATCAACAGATTATG
[ABD]AP008982.nad9    TGTTTCTTCCATCAATCATCCGGATTTACGCCGTATATCAACAGATTATG
[ABD]NC_036024.nad9   TGTTTCTTCCATCAATCATCCGGATTTACGCCGTATATCAACAGATTATG
[ABD]MH051716.nad9    TGTTTCTTCCATCAATCATCCGGATTTACGCCGTATATCAACAGATTATG
[S]AP013107.nad9      TGTTTCTTCCATCAATCATCCGGATTTACGCCGTATATCAACAGATTATG
[AG]AP013106.nad9     TGTTTCTTCCATCAATCATCCGGATTTACGCCGTATATCAACAGATTATG
[D]Clae23.nad9        TGTTTCTTCCATCAATCATCCGGATTTACGCCGTATATCAACAGATTATG
[D]AL8/78.nad9        TGTTTCTTCCATCAATCATCCGGATTTACGCCGTATATCAACAGATTATG
[D]SQ523.nad9         TGTTTCTTCCATCAATCATCCGGATTTACGCCGTATATCAACAGATTATG
[D]Y199.nad9          TGTTTCTTCCATCAATCATCCGGATTTACGCCGTATATCAACAGATTATG
[D]Kaifeng1.nad9      TGTTTCTTCCATCAATCATCCGGATTTACGCCGTATATCAACAGATTATG
[CD]Jinan0529.nad9    TGTTTCTTCCATCAATCATCCGGATTTACGCCGTATATCAACAGATTATG
KJ078648.nad9         TGTTTCTTCCATCAATCATCCGGATTTACGCCGTATATCAACAGATTATG
MZ202552.nad9         TGTTTCTTCCATCAATCATCCGGATTTACGCCGTATATCAACAGATTATG
MN127982.nad9-1       TGTTTCTTCCATCAATCATCCGGATTTACGCCGTATATCAACAGATTATG
MN127982.nad9-2       TGTTTCTTCCATCAATCATCCGGATTTACGCCGTATATCAACAGATTATG
MN127982.nad9-p1      --------------------------------------------------
MN127982.nad9-p2      --------------------------------------------------
OK120846.nad9         TGTTTCTTCCATCAATCATCCGGATTTACGCCGTATATCAACAGATTATG
consensus             tgtttcttccatcaatcatccggatttacgccgtatatcaacagattatg
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                      .......710.......720.......730.......740.......750
[A]IX-0944.nad9        GTTTCGAGGGTCATCCATTACGAAAAGACTTTCCTCTGAGTGGATATGTG
[A]IX-0946.nad9        GTTTCGAGGGTCATCCATTACGAAAAGACTTTCCTCTGAGTGGATATGTG
[A]IX-0957.nad9        GTTTCGAGGGTCATCCATTACGAAAAGACTTTCCTCTGAGTGGATATGTG
[A]IX-0969.nad9        GTTTCGAGGGTCATCCATTACGAAAAGACTTTCCTCTGAGTGGATATGTG
[A]IX-0976.nad9        GTTTCGAGGGTCATCCATTACGAAAAGACTTTCCTCTGAGTGGATATGTG
[AB]SCAUP.nad9         GTTTCGAGGGTCATCCATTACGAAAAGACTTTCCTCTGAGTGGATATGTG
[AB]Hoh501.nad9        GTTTCGAGGGTCATCCATTACGAAAAGACTTTCCTCTGAGTGGATATGTG
[AB]DM4.nad9           GTTTCGAGGGTCATCCATTACGAAAAGACTTTCCTCTGAGTGGATATGTG
[AB]Langdon.nad9       GTTTCGAGGGTCATCCATTACGAAAAGACTTTCCTCTGAGTGGATATGTG
[AB]81086A.nad9        GTTTCGAGGGTCATCCATTACGAAAAGACTTTCCTCTGAGTGGATATGTG
[AB]KJ078649.nad9      GTTTCGAGGGTCATCCATTACGAAAAGACTTTCCTCTGAGTGGATATGTG
[ABD]Lumai1.nad9       GTTTCGAGGGTCATCCATTACGAAAAGACTTTCCTCTGAGTGGATATGTG
[ABD]Kenong9204.nad9   GTTTCGAGGGTCATCCATTACGAAAAGACTTTCCTCTGAGTGGATATGTG
[ABD]AK58.nad9         GTTTCGAGGGTCATCCATTACGAAAAGACTTTCCTCTGAGTGGATATGTG
[ABD]AP008982.nad9     GTTTCGAGGGTCATCCATTACGAAAAGACTTTCCTCTGAGTGGATATGTG
[ABD]NC_036024.nad9    GTTTCGAGGGTCATCCATTACGAAAAGACTTTCCTCTGAGTGGATATGTG
[ABD]MH051716.nad9     GTTTCGAGGGTCATCCATTACGAAAAGACTTTCCTCTGAGTGGATATGTG
[S]AP013107.nad9       GTTTCGAGGGTCATCCATTACGAAAAGACTTTCCTCTGAGTGGATATGTG
[AG]AP013106.nad9      GTTTCGAGGGTCATCCATTACGAAAAGACTTTCCTCTGAGTGGATATGTG
[D]Clae23.nad9         GTTTCGAGGGTCATCCATTACGAAAAGACTTTCCTCTGAGTGGATATGTG
[D]AL8/78.nad9         GTTTCGAGGGTCATCCATTACGAAAAGACTTTCCTCTGAGTGGATATGTG
[D]SQ523.nad9          GTTTCGAGGGTCATCCATTACGAAAAGACTTTCCTCTGAGTGGATATGTG
[D]Y199.nad9           GTTTCGAGGGTCATCCATTACGAAAAGACTTTCCTCTGAGTGGATATGTG
[D]Kaifeng1.nad9       GTTTCGAGGGTCATCCATTACGAAAAGACTTTCCTCTGAGTGGATATGTG
[CD]Jinan0529.nad9     GTTTCGAGGGTCATCCATTACGAAAAGACTTTCCTCTGAGTGGATATGTG
KJ078648.nad9          GTTTCGAGGGTCATCCATTACGAAAAGACTTTCCTCTGAGTGGATATGTG
MZ202552.nad9          GTTTCGAGGGTCATCCATTACGAAAAGACTTTCCTCTGAGTGGATATGTG
MN127982.nad9-1        GTTTCGAGGGTCATCCATTACGAAAAGACTTTCCTCTGAGTGGATATGTG
MN127982.nad9-2        GTTTCGAGGGTCATCCATTACGAAAAGACTTTCCTCTGAGTGGATATGTG
MN127982.nad9-p1       --------------------------------------------------
MN127982.nad9-p2       --------------------------------------------------
OK120846.nad9          GTTTCGAGGGTCATCCATTACGAAAAGACTTTCCTCTGAGTGGATATGTG
consensus              gtttcgagggtcatccattacgaaaagactttcctctgagtggatatgtg


                      .......760.......770.......780.......790.......800
[A]IX-0944.nad9        GAAGTACGCTATGATGATCCAGAGAAACGTGTGGTTTCTGAACCCATTGA
[A]IX-0946.nad9        GAAGTACGCTATGATGATCCAGAGAAACGTGTGGTTTCTGAACCCATTGA
[A]IX-0957.nad9        GAAGTACGCTATGATGATCCAGAGAAACGTGTGGTTTCTGAACCCATTGA
[A]IX-0969.nad9        GAAGTACGCTATGATGATCCAGAGAAACGTGTGGTTTCTGAACCCATTGA
[A]IX-0976.nad9        GAAGTACGCTATGATGATCCAGAGAAACGTGTGGTTTCTGAACCCATTGA
[AB]SCAUP.nad9         GAAGTACGCTATGATGATCCAGAGAAACGTGTGGTTTCTGAACCCATTGA
[AB]Hoh501.nad9        GAAGTACGCTATGATGATCCAGAGAAACGTGTGGTTTCTGAACCCATTGA
[AB]DM4.nad9           GAAGTACGCTATGATGATCCAGAGAAACGTGTGGTTTCTGAACCCATTGA
[AB]Langdon.nad9       GAAGTACGCTATGATGATCCAGAGAAACGTGTGGTTTCTGAACCCATTGA
[AB]81086A.nad9        GAAGTACGCTATGATGATCCAGAGAAACGTGTGGTTTCTGAACCCATTGA
[AB]KJ078649.nad9      GAAGTACGCTATGATGATCCAGAGAAACGTGTGGTTTCTGAACCCATTGA
[ABD]Lumai1.nad9       GAAGTACGCTATGATGATCCAGAGAAACGTGTGGTTTCTGAACCCATTGA
[ABD]Kenong9204.nad9   GAAGTACGCTATGATGATCCAGAGAAACGTGTGGTTTCTGAACCCATTGA
[ABD]AK58.nad9         GAAGTACGCTATGATGATCCAGAGAAACGTGTGGTTTCTGAACCCATTGA
[ABD]AP008982.nad9     GAAGTACGCTATGATGATCCAGAGAAACGTGTGGTTTCTGAACCCATTGA
[ABD]NC_036024.nad9    GAAGTACGCTATGATGATCCAGAGAAACGTGTGGTTTCTGAACCCATTGA
[ABD]MH051716.nad9     GAAGTACGCTATGATGATCCAGAGAAACGTGTGGTTTCTGAACCCATTGA
[S]AP013107.nad9       GAAGTACGCTATGATGATCCAGAGAAACGTGTGGTTTCTGAACCCATTGA
[AG]AP013106.nad9      GAAGTACGCTATGATGATCCAGAGAAACGTGTGGTTTCTGAACCCATTGA
[D]Clae23.nad9         GAAGTACGCTATGATGATCCAGAGAAACGTGTGGTTTCTGAACCCATTGA
[D]AL8/78.nad9         GAAGTACGCTATGATGATCCAGAGAAACGTGTGGTTTCTGAACCCATTGA
[D]SQ523.nad9          GAAGTACGCTATGATGATCCAGAGAAACGTGTGGTTTCTGAACCCATTGA
[D]Y199.nad9           GAAGTACGCTATGATGATCCAGAGAAACGTGTGGTTTCTGAACCCATTGA
[D]Kaifeng1.nad9       GAAGTACGCTATGATGATCCAGAGAAACGTGTGGTTTCTGAACCCATTGA
[CD]Jinan0529.nad9     GAAGTACGCTATGATGATCCAGAGAAACGTGTGGTTTCTGAACCCATTGA
KJ078648.nad9          GAAGTACGCTATGATGATCCAGAGAAACGTGTGGTTTCTGAACCCATTGA
MZ202552.nad9          GAAGTACGCTATGATGATCCAGAGAAACGTGTGGTTTCTGAACCCATTGA
MN127982.nad9-1        GAAGTACGCTATGATGATCCAGAGAAACGTGTGGTTTCTGAACCCATTGA
MN127982.nad9-2        GAAGTACGCTATGATGATCCAGAGAAACGTGTGGTTTCTGAACCCATTGA
MN127982.nad9-p1       --------------------------------------------------
MN127982.nad9-p2       --------------------------------------------------
OK120846.nad9          GAAGTACGCTATGATGATCCAGAGAAACGTGTGGTTTCTGAACCCATTGA
consensus              gaagtacgctatgatgatccagagaaacgtgtggtttctgaacccattga
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                         ........810.......820.......830.......840.......850
[A]IX-0944.nad9          GATGACCCAAGAATTTCGCTATTTCGATTTTGCTAGTCCTTGGGAACAGC
[A]IX-0946.nad9          GATGACCCAAGAATTTCGCTATTTCGATTTTGCTAGTCCTTGGGAACAGC
[A]IX-0957.nad9          GATGACCCAAGAATTTCGCTATTTCGATTTTGCTAGTCCTTGGGAACAGC
[A]IX-0969.nad9          GATGACCCAAGAATTTCGCTATTTCGATTTTGCTAGTCCTTGGGAACAGC
[A]IX-0976.nad9          GATGACCCAAGAATTTCGCTATTTCGATTTTGCTAGTCCTTGGGAACAGC
[AB]SCAUP.nad9           GATGACCCAAGAATTTCGCTATTTCGATTTTGCTAGTCCTTGGGAACAGC
[AB]Hoh501.nad9          GATGACCCAAGAATTTCGCTATTTCGATTTTGCTAGTCCTTGGGAACAGC
[AB]DM4.nad9             GATGACCCAAGAATTTCGCTATTTCGATTTTGCTAGTCCTTGGGAACAGC
[AB]Langdon.nad9         GATGACCCAAGAATTTCGCTATTTCGATTTTGCTAGTCCTTGGGAACAGC
[AB]81086A.nad9          GATGACCCAAGAATTTCGCTATTTCGATTTTGCTAGTCCTTGGGAACAGC
[AB]KJ078649.nad9        GATGACCCAAGAATTTCGCTATTTCGATTTTGCTAGTCCTTGGGAACAGC
[ABD]Lumai1.nad9         GATGACCCAAGAATTTCGCTATTTCGATTTTGCTAGTCCTTGGGAACAGC
[ABD]Kenong9204.nad9     GATGACCCAAGAATTTCGCTATTTCGATTTTGCTAGTCCTTGGGAACAGC
[ABD]AK58.nad9           GATGACCCAAGAATTTCGCTATTTCGATTTTGCTAGTCCTTGGGAACAGC
[ABD]AP008982.nad9       GATGACCCAAGAATTTCGCTATTTCGATTTTGCTAGTCCTTGGGAACAGC
[ABD]NC_036024.nad9      GATGACCCAAGAATTTCGCTATTTCGATTTTGCTAGTCCTTGGGAACAGC
[ABD]MH051716.nad9       GATGACCCAAGAATTTCGCTATTTCGATTTTGCTAGTCCTTGGGAACAGC
[S]AP013107.nad9         GATGACCCAAGAATTTCGCTATTTCGATTTTGCTAGTCCTTGGGAACAGC
[AG]AP013106.nad9        GATGACCCAAGAATTTCGCTATTTCGATTTTGCTAGTCCTTGGGAACAGC
[D]Clae23.nad9           GATGACCCAAGAATTTCGCTATTTCGATTTTGCTAGTCCTTGGGAACAGC
[D]AL8/78.nad9           GATGACCCAAGAATTTCGCTATTTCGATTTTGCTAGTCCTTGGGAACAGC
[D]SQ523.nad9            GATGACCCAAGAATTTCGCTATTTCGATTTTGCTAGTCCTTGGGAACAGC
[D]Y199.nad9             GATGACCCAAGAATTTCGCTATTTCGATTTTGCTAGTCCTTGGGAACAGC
[D]Kaifeng1.nad9         GATGACCCAAGAATTTCGCTATTTCGATTTTGCTAGTCCTTGGGAACAGC
[CD]Jinan0529.nad9       GATGACCCAAGAATTTCGCTATTTCGATTTTGCTAGTCCTTGGGAACAGC
KJ078648.nad9            GATGACCCAAGAATTTCGCTATTTCGATTTTGCTAGTCCTTGGGAACAGC
MZ202552.nad9            GATGACCCAAGAATTTCGCTATTTCGATTTTGCTAGTCCTTGGGAACAGC
MN127982.nad9-1          GATGACCCAAGAATTTCGCTATTTCGATTTTGCTAGTCCTTGGGAACAGC
MN127982.nad9-2          GATGACCCAAGAATTTCGCTATTTCGATTTTGCTAGTCCTTGGGAACAGC
MN127982.nad9-p1         --------------------------------------------------
MN127982.nad9-p2         --------------------------------------------------
OK120846.nad9            GATGACCCAAGAATTTCGCTATTTCGATTTTGCTAGTCCTTGGGAACAGC
consensus                gatgacccaagaatttcgctatttcgattttgctagtccttgggaacagc

                         ........860....
[A]IX-0944.nad9          GTAGCGACGGATAA
[A]IX-0946.nad9          GTAGCGACGGATAA
[A]IX-0957.nad9          GTAGCGACGGATAA
[A]IX-0969.nad9          GTAGCGACGGATAA
[A]IX-0976.nad9          GTAGCGACGGATAA
[AB]SCAUP.nad9           GTAGCGACGGATAA
[AB]Hoh501.nad9          GTAGCGACGGATAA
[AB]DM4.nad9             GTAGCGACGGATAA
[AB]Langdon.nad9         GTAGCGACGGATAA
[AB]81086A.nad9          GTAGCGACGGATAA
[AB]KJ078649.nad9        GTAGCGACGGATAA
[ABD]Lumai1.nad9         GTAGCGACGGATAA
[ABD]Kenong9204.nad9     GTAGCGACGGATAA
[ABD]AK58.nad9           GTAGCGACGGATAA
[ABD]AP008982.nad9       GTAGCGACGGATAA
[ABD]NC_036024.nad9      GTAGCGACGGATAA
[ABD]MH051716.nad9       GTAGCGACGGATAA
[S]AP013107.nad9         GTAGCGACGGATAA
[AG]AP013106.nad9        GTAGCGACGGATAA
[D]Clae23.nad9           GTAGCGACGGATAA
[D]AL8/78.nad9           GTAGCGACGGATAA
[D]SQ523.nad9            GTAGCGACGGATAA
[D]Y199.nad9             GTAGCGACGGATAA
[D]Kaifeng1.nad9         GTAGCGACGGATAA
[CD]Jinan0529.nad9       GTAGCGACGGATAA
KJ078648.nad9            GTAGCGACGGATAA
MZ202552.nad9            GTAGCGACGGATAA
MN127982.nad9-1          GTAGCGACGGATAA
MN127982.nad9-2          GTAGCGACGGATAA
MN127982.nad9-p1         --------------
MN127982.nad9-p2         --------------
OK120846.nad9            GTAGCGACGGATAA
consensus                gtagcgacggataa
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