

(A) Consensus sequence of mtDNA control region for Mungyeong mummy

PS1

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1 120
Consensus CAAAGCTAAGATTCTAATTAAACTATTCTCTGTTCTTTTCATGGGAAGCAGATTTGGGTACCACCAAGTATTGACTCACCATCAACAACCGCTATGTATTCGTACATTACTGCCAG
MgB-PS1-01 .....
MgB-PS1-02 .....
MgB-PS1-03 .....
MgB-PS1-04 .....
MgB-PS1-05 .....
MgB-PS1-06 .....
MgB-PS1-07 .....
MgB-PS1-08 .....
MgB-PS1-09 .....
MgB-PS1-10 .....
MgB-PS1-11 .....G.....
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121 227
Consensus CCACCATGAATATTGTACGGTACCATAAACTTACCACCTGTAGTACATAAAAAACCAATCCACATCAAAACCCCTCCCCATGCTTACAAGCAAGTACAGCAAT
MgB-PS1-01 .....
MgB-PS1-02 .....
MgB-PS1-03 .....
MgB-PS1-04 .....
MgB-PS1-05 .....
MgB-PS1-06 .....
MgB-PS1-07 .....
MgB-PS1-08 .....
MgB-PS1-09 .....
MgB-PS1-10 .....
MgB-PS1-11 .....
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PS2

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1 120
Consensus AAACCCAATCCACATCAAAACCCCTCCCATGCTTACAAGCAAGTACAGCAATCAACCTTCAACTATCACACATCAACTGCAACTCCAAGCCACCCCTCACCCACTAGGATACCAACA
MgB-PS2-01 .....
MgB-PS2-02 .....
MgB-PS2-03 .....C.....
MgB-PS2-04 .....
MgB-PS2-05 .....
MgB-PS2-06 .....C.....
MgB-PS2-07 .....
MgB-PS2-08 .....
MgB-PS2-09 .....
MgB-PS2-10 .....
MgB-PS2-11 .....
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121 227
Consensus AACCTACCCACCTTAACAGTACATAGTACATAAAGCCATTTACCGTACATAGCACATTACAGTCAAATCCCTTCTCGCCCCCATGGATGACCCCTCAGATAGGG
MgB-PS2-01 .....
MgB-PS2-02 .....
MgB-PS2-03 .....
MgB-PS2-04 .....
MgB-PS2-05 .....
MgB-PS2-06 .....
MgB-PS2-07 .....
MgB-PS2-08 .....
MgB-PS2-09 .....
MgB-PS2-10 .....C.....
MgB-PS2-11 .....
```

PS3

1 120
Consensus GGAGCTCTCCATGCATTTGGTATTTTCGTCTGGGGGGTGTGCACGCGATAGCATTGCGAGACGCTGGAGCCGGAGCACCCCTATGTCGCAGTATCTGTCTTTGATTCTGCCTCATCCTAT
MgB-PS3-01
MgB-PS3-02
MgB-PS3-03
MgB-PS3-04
MgB-PS3-05
MgB-PS3-06
MgB-PS3-07
MgB-PS3-08
MgB-PS3-09
MgB-PS3-10

121 185
Consensus TATTTATCGCACCTACGTTCAATATTACAGCGAACATACTTACTAAAGTGTGTTAATTAATTAA
MgB-PS3-01
MgB-PS3-02
MgB-PS3-03
MgB-PS3-04
MgB-PS3-05
MgB-PS3-06
MgB-PS3-07
MgB-PS3-08
MgB-PS3-09
MgB-PS3-10

PS4

1 120
Consensus AATATTACAGCGAACATACTTACTAAAGTGTGTTAATTAATTAATGCTTGTAGGACATAATAATAACAATTGAATGTCTGCACAGCCGCTTCCACACAGACATCATAACAAAAAATTT
MgB-PS4-01
MgB-PS4-02
MgB-PS4-03
MgB-PS4-04 C
MgB-PS4-05G
MgB-PS4-06
MgB-PS4-07
MgB-PS4-08

121 196
Consensus CCACCAAccccccctccccccGCTTCTGGCCACAGCACTTAAACACATCTCTGCCAAACCCCAAAAACAAAGAAC
MgB-PS4-01
MgB-PS4-02
MgB-PS4-03
MgB-PS4-04
MgB-PS4-05
MgB-PS4-06
MgB-PS4-07
MgB-PS4-08

PS5

1 125
Consensus TAACAGTCACCCCAACTAACACATTATTTCCCTCCCCTCCCATACTACTAATCTCATCAACACAACCCCGCCATCCTACCCAGCACACACACCCGCTGCTAACCCCATACCCCGAAC
MgB-PS5-01
MgB-PS5-02
MgB-PS5-03
MgB-PS5-04
MgB-PS5-05
MgB-PS5-06
MgB-PS5-07
MgB-PS5-08
MgB-PS5-09

(B) Comparison between rCRS, consensus sequence and direct sequencing result of mtDNA control region

Hypervariable region 1

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15991 16110
rCRS CAAAGCTAAGATTCTAATTTAAACTATTCTCTGTTCTTTTCATGGGGAAGCAGATTTGGGTACCACCCAAGTATTGACTCACCCATCAACAACCGCTATGTATTTTCGTACATTACTGCCAG
Consensus .....
Direct (PS1-FWD) .....
Direct (PS1-REV) .....

16111 16230
rCRS CCACCATGAATATTGTACGGTACCATAAACTTACCACCTGTAGTACATAAAAACCCAATCCACATCAAACCCCTCCCATGCTTACAAGCAAGTACAGCAATCAACCCCTCAACTA
Consensus .....T.....
Direct (PS1-FWD) .....
Direct (PS1-REV) .....
Direct (PS2-FWD) .....T.....

16231 16350
rCRS TCACACATCAACTGCAACTCCAAAGCCACCCCTCACCCACTAGGATACCAACAAACCTACCACCCTTAACAGTACATAGTACATAAAGCCATTTACCCTACATAGCACATTACAGTCAA
Consensus .....
Direct (PS2-FWD) .....
Direct (PS2-REV) .....

16351 16390
rCRS ATCCCTTCTCGTCCCATGGATGACCCCTCAGATAGGG
Consensus .....C.....
Direct (PS2-FWD) .....C.....
Direct (PS2-REV) .....C.....
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Hypervariable region 2

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35 154
rCRS GGAGCTCTCCATGCATTTGGTATTTTCGTCTGGGGGTATGCACGCGATAGCATTGCGAGACGCTGGAGCCGGAGCACCCCTATGTGCGAGTATCTGTCTTTGATTCCTGCCTCATCCTAT
Consensus .....G.....
Direct (PS3-FWD) .....G.....
Direct (PS3-REV) .....G.....

155 274
rCRS TATTTATCGCACCTACGTTCAATATTACAGCGAACATACTTACTAAAGTGTGTTAATTAATTAATGCTTGTAGGACATAATAATAACAATTGAATGTCTGCACAGCCACTTCCACACA
Consensus .....G.....
Direct (PS3-FWD) .....
Direct (PS3-REV) .....
Direct (PS4-FWD) .....G.....

275 369
rCRS GACATCATAACAAAAAATTTCCACCAAccccccctcccc-GCTTCTGGCCACAGCACTTAAACACATCTCTGCCAAACCCCAAAAAACAAGAAC
Consensus .....C.....
Direct (PS4-FWD) .....C.....
Direct (PS4-REV) .....C.....
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Hypervariable region 3

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424 548
rCRS TAACAGTCACCCCAACTAACACATTATTTCCCTCCCACTCCCACTACTACTAATCTCATCAATACAACCCCGCCATCTACCCAGcacacacacaccgctgctaaccataaccggaac
Consensus .....C.....
Direct (PS5-FWD) .....C.....
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