

>dapk3_human gi|2911155:94-1458 Homo sapiens mRNA for ZIP-kinase, complete cds, 1365 bases, A83C11AD checksum.

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 GGAGCTGGGCAGCGGCCAGTTTGGCATCGTGCGGAAGTGCCGGCAGAAGG
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>dapk3_chimpanzee gi|114674686:120-1484 PREDICTED: Pan troglodytes death-associated protein kinase 3 (DAPK3), mRNA, 1365 bases, 40B4791E checksum.

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 GGAGCTGGGCAGCGGCCAGTTTGGCATCGTGCGGAAGTGCCGGCAGAAGG
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 CCAGTTCTCAAGCAGATCCTGGACGGCGTTCCTACTACCTGCACTCTAAGC
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 CCGCGAGGAGAGCGACAGCCTGGGCCAGGACCTGCGGAGGCTACGGCAGG
 AGCTGCTCAAGACCGAGGCGCTCAAGCGGCAGGCGCAGGAGGAGGCCAAG
 GGC GCGCTGCTGGGGACCAGCGGCCTCAAGCGCCGCTTCAGCCGCCTGGA
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>dapk3_macaque gi|109122940:235-1599 PREDICTED: *Macaca mulatta* death-associated protein kinase 3, transcript variant 2 (DAPK3), mRNA, 1365 bases, E9AF3C3A checksum.

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>dapk3_Tupaia 107812812:(1620-1260+1187-1058+844+796+201+175)+108226212:(2038-1886+1173-1128+640-104) *Tupaia belangeri* (northern tree shrew) Death-associated protein kinase 3 (DAP kinase 3; DAP-like kinase; Dlk; ZIP-kinase); exons from two non-contiguous genomic contigs; partial missing N-end, 1303 bases, B19CDD48 checksum.

CGGCCAGTTCGCCATCGTCCGCAAGTGCCGGCAGAAGGGCACGGGGAAGG
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 TCGTCAACTACGAGCCCTGGGCCTGGAGGCCGACATGTGGAGCATCGGC
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 TAG

>DAPK3_RAT gi|3250894:114-1460 Rattus norvegicus mRNA for DAP kinase 3 (DLK,
 ZIPK), 1347 bases, 8F64DA2D checksum.

ATGTCCACGTT CAGGCAGGAGGACGTTGAGGACCATTATGAGATGGGAGA
 GGAGCTTGGCAGCGGCCAGTTCGCCATCGTGC GCAAGTGCCAGCAGAAGG
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 >DAPK3_MOUSE gi|2911153:10-1356 Mus musculus mRNA for ZIP-kinase, complete cds,
 1347 bases, 9466C0F1 checksum.
 ATGTCCACATTCAGGCAAGAGGATGTTGAGGACCATTATGAGATGGGAGA
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 1523+922-769))+((1583699030+810921921):(914-958+1033-1569))+EST_91731898:1-
 598+EST_148201962:286-384 Cavia porcellus (guinea pig) Death-associated protein
 kinase 3 (DAP kinase 3; DAP-like kinase; Dlk; ZIP-kinase); partial missing N-
 end, 1347 bases, 6D922A14 checksum.
 GAGGACGTGGAGGACCACTATGAGATGGGGGAGGAGCTGGGCAGCGGCCA
 GTTTGCCATCGTGCGCAAGTGCCGTGAGAAGGGCACGGGCAGGGAGTACG
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 2407)))+(1569544450:112-22)+(1587085697:29-324) *Dipodomys ordii* (Ord's kangaroo
 rat; a rodent) Death-associated protein kinase 3 (DAP kinase 3; DAP-like kinase;
 Dlk; ZIP-kinase); partial missing N and C ends, an internal exon, and part of an
 exon (shown as Ns), 1160 bases, 676C6F68 checksum.
 GGCCAGTTTGCCATCGTGCGCAAGTGCCGGCAGAAGGGCACGGGCAAGGA
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 GCTCTGGAAG

>dapk3_Dog gi|73987436:1-1365 PREDICTED: *Canis familiaris* similar to Death-associated protein kinase 3 (DAP kinase 3) (DAP-like kinase) (Dlk) (ZIP-kinase) (LOC476745), mRNA, 1365 bases, F40F6429 checksum.

ATGTCCACATTCAGGCAGGAAGACGTGGAAGACTACTATGAGATGGGGGA
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 TGTGGCCTACGCTAG

>dapk3_Cow gi|119894932:194-1558 PREDICTED: *Bos taurus* similar to ZIP-kinase (LOC525506), mRNA, 1365 bases, 41A61006 checksum.

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>dapk3_Bat 105860175:(6-134+762-810+4383-4409+5004-5156+5920-5965+6421-
 6957)+assembled_TDB-reads((976759098+964301557+981846460):(456-96)) Myotis
 lucifugus (little brown bat) Death-associated protein kinase 3 (DAP kinase 3;
 DAP-like kinase; Dlk; ZIP-kinase); partial missing N-part, two contigs joined by
 a joint mate pair, 1303 bases, A3F80AC6 checksum.

CGGCCAGTTTGCCATTGTGCGGAAATGCCGGCAGAAGGGCACTGGGAAGG
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CGAGAGCATTGGCCAGGACCTGCGACGGCTGCGGCAAGAGCTGCACAAGA
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 TAG

>dapk3_Shrew 80402909:(1-324,1034-1163,1349-1397,1738-1764,2080-
 2232;+FS_corrections)+80402905:154-

690+assembled_TDB_reads:(838222606+892417228):(1033-

713))+((873967520+875830371+894062723+845045749+848969792):(478-520+770-1307))

Sorex araneus (European shrew) Death-associated protein kinase 3 (DAP kinase 3;
 DAP-like kinase; Dlk; ZIP-kinase); concatnation of CDS from two contigs;

partial missing N-part, 1263 bases, 6F8AB504 checksum.

GGCACGGGCAAGGAATACGCGNNNNNNNNNNNNNNNAAGCGGCGCCTGTC
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>dapk3_Opossum 84819837:(42776-43312+44038-44083+44551-44703+45397-45423+46553-
 46601+46993-47122+47716-48076+51934-51995) Monodelphis domestica (opossum)

Death-associated protein kinase 3 (DAP kinase 3; DAP-like kinase; Dlk; ZIP-
 kinase), 1365 bases, B083636 checksum.

ATGTCTACGTTACAGGCAGGAGGATGTGGAAGACCACTATGAGATGGGTGA
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>dapk3_Platypus 91473547:(3474-3834+4007-4136+5210-5258+6263-6289+6613-
 6765+8023-8077+8407-8934) Ornithorhynchus anatinus (platypus) Death-associated
 protein kinase 3 (DAP kinase 3; DAP-like kinase; Dlk; ZIP-kinase); partial
 missing N-end, 1303 bases, 5BC04AE5 checksum.

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CGAGAGCATCGGCCAAGACCTGCGGCAGCTCCGCCAGGAGCTCCACAAGA
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 TAG

>dapk3_Chicken ((NC_006115.1:1990-1980K):(2069-2130+2706-3066+3912-4041+4262-
 4310+4412-4441;4641-5162))+ (EST-25936497:4-659)+(BBSRC_EST-604156336F1:1-
 552)+(TDB_read|227294367:(31-86+308-256+458-485+564-711)) Gallus gallus
 (chicken) Death-associated protein kinase 3 (DAP kinase 3; DAP-like kinase; Dlk;
 ZIP-kinase); assembly of genomic contig, ESTs and a sequence read, 1374 bases,
 C471AF85 checksum.

ATGTCCACCTTCCGGCAGGAGAGCGTGGAGGACTTCTACGAGATGGGGGA
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 6774+1397636686+1423694077):(567-696+839-887+994-1020+1120-1272+1647-1692+1833-
 2375)) Taeniopygia guttata (zebra finch) Death-associated protein kinase 3 (DAP
 kinase 3; DAP-like kinase; Dlk; ZIP-kinase), 1371 bases, 711E18F5 checksum.
 ATGTCCACTTCCGCCAGGAGAAGCGTGGAGGACTTCTATGAGATGGGCGA
 AGAGCTGGGCAGCGGGCAGTTCGCCATCGTCCGCAAGTGCCGGGAGAGGA

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 mRNA (cDNA clone MGC:114871 IMAGE:5506395), complete cds, 1359 bases, F38A16EF
 checksum.

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>dapk3_xentr gi|77622189:45-1403 *Xenopus tropicalis* finished cDNA, clone
 TGas051f01, 1359 bases, E50E372C checksum.

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>dapk3_Zebrafish gi|125806427:60-1421 PREDICTED: *Danio rerio* hypothetical
 LOC562194 (LOC562194), mRNA, 1362 bases, 9D7F7795 checksum.

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>dapk3_Fathead minnow

NCBI_assembled_ESTs((72422020+73556779+73634852+73512480+73721434+72761900+73439
047+73721433):(122-1483)) Pimephales promelas (Fathead minnow; fish) Death-
associated protein kinase 3 (DAP kinase 3; DAP-like kinase; Dlk; ZIP-kinase),
1362 bases, F4768BD7 checksum.

ATGGCTGGCTTCAGACAGGAGGATGTGGAGCTGTGCTATGAAATGGGAGA
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>dapk3_Pufferfish (47223005:(1491884-1491945+1492415-1492775+1492882-
 1493011+1493118-1493166+1493263-1493289+1493376-1493528+1493611-1493656+1493847-
 1494383)) Tetraodon nigroviridis (freshwater pufferfish) Death-associated
 protein kinase 3 (DAP kinase 3; DAP-like kinase; Dlk; ZIP-kinase); chromosome 15
 SCAF14981, 1365 bases, 352ADE68 checksum.

ATGGCTGGCTTCAGGCAAGAGGATGTTGAGCTGTATTATGAGATGGGAGA
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 TTCATCCGCCGCTGCTGGTCAAGGACCCCAAGAAGAGAATGACCATCGA
 TGTCAGCTTGGAGACCCCTGGATCAAGGTGATCAAGAGGCGAAACGTCC
 GCCAGAGGAGAGGGACCACAAGACGGAGCGCCGCCCTGAAGACCACT
 CGTCTGAAGGAGTACACCATCAAGTCCCCTCCAGCATGCCGCCCAACAA
 CACTTACATCAACTTTGAGCGCTTCTCGCAAGTGTCTCGAGGAGATCGCAG
 CGGCGGAGGAAGCCTGCGGGACCTGGAGCGCAACCAGCAGTCGTGTCGG
 GAAGACGTGGCAGCGCTGCTGTCCATCTACGAGGAGAAGGAGGGCTGGTA
 CAAGGAGGAGAACCAGAGCATCTCCAGCGACCTGAGCCACATCCGCCGCG
 AGCTGCAGCACACTCAAGCCCAGCGCAAGAAGAGCCAGGAGGAGGCGCGC
 TTCACCGCGCAGGCCGCCAACGTCTGAAGCGCAAGTTCGGGCGCTTGA
 GAACCGGTACGAGGTGCTGGCCGAGCAGGTGGCGTCCGAGGTGCGCTGGG
 TGGAGGAGCTGGTCAAGTCCATGTCCATAGAGAGGGGCGCCTCAGCCCC
 AGCAGCATGCCCTGA

>dapk3_Fugu (22419072:(16803-16864+17636-17996+18117-18246+18398-18446+18542-
 18568+18662-18814+18894-18939+19084-19620)) Fugu rubripes (Japanese pufferfish)
 Death-associated protein kinase 3 (DAP kinase 3; DAP-like kinase; Dlk; ZIP-
 kinase), 1365 bases, 4A45E0D9 checksum.

ATGGCTGGCTTCAGGCAAGAAGATGTTGAGTTGTATTATGAAATGGGAGA
 GGAGCTGGGCAGTGGGCAGTTTGAATTGTGCGTAAGTGTAAAGGAGAAGA
 GCACGGGCGTGGAATACGCAGCCAAGTTCATCAAAAAGCGGCGGCTCTCC
 TCCAGCCGGCGGGGCGTGAGTCGCGACGAGATCAAGCGCGAAGTGAACAT
 CCTGAGGGAGATCCAGCACAGCAACATCATCACCTTGCACGACATCTTCG

AAAACAAGACCGACGTGATCCTGATCCTGGAGCTGGTGTCTGGAGGGGAG
 CTGTTTCGACTTCCCTCGCCGAGAAGGAGTCGCTGACTGAGGAGGAGGCCAC
 GCAGTTTCTGAAGCAGATCCTGGATGGCGTTCAGTATCTGCACTCCAAAC
 ACATCGCACACTTTGACCTCAAGCCCGAGAACATCATGCTGCTGGATAAG
 AACGTCCCTAACCCAGGATCAAGCTGATTGATTTTCGGCATTGCTCATCA
 GATTAAAGCAGGAAACGAATTTAAGAATATTTTCGGAACGCCGGAGTTG
 TCGCTCCTGAAATAGTCAACTATGAGCCACTTGGACTAGAAGCTGACATG
 TGGAGCATTTGGAGTAATTACATACATTCTGCTGAGTGGCGCTTCGCCGTT
 TCTCGGCGAAACCAAGCAGGAGACTCTCACAAACATCTCGGGCGTCAACT
 ATGACTTTGATGAGGAATACTTCAGCAACACCAGTGAGCTGGCAAAGAC
 TTCATACGCCGCTGCTGGTCAAGGACCCCAAGAAGAGAATGAAAATTGA
 TGATAGCTTGGAGACCCCTGGATCAAGGTGATTAAGAGGCGAAATGTCC
 GCCAGAGGAGAGGGACCACAAGACTGAGCGCCGCCCTGAAGACCACT
 CGTCTGAAGGAGTACACCATCAAGTCCCCTCGAGCATGCCGCCAACAA
 CACTTATATTAACTTTGAGCGCTTCTCACAAGTGCTCGAGGAGATTGCAG
 CGGCGGAGGAAGGCCTAAGGGACCTGGAACGCAACCAGCAGTCGTGTCCG
 GACGATGTGGCAGCACTGTTGTCCATTTACGAGGAGAAGGAGGGGTGGTA
 TAAGGAGGAGAACCAGAGCATCTCCAGTGACCTGAGCTACATCCGCCAGG
 AGCTGCAACGCACCCAAATCCAGCGCAAAAAGAGCATGGAAGAGGCCCGC
 TTCACCACGCAGGCTGCCAATGTCTTAAAGCGCAAGTTTGGCCGCTTGA
 GAACCGATACGAGATGCTGGCGGAGCAGGTGGCATCGGACGTCCGCTGGG
 TGGAGGAGTTGGTCAAGTCCATCTCCTCAGAGAAAGCTGGCCTCGGCTCC
 AGCACCATGCCCTGA

>dapk3_Medaka fish (16991872:(1422-1483+1984-2344+2568-2697+2770-2818+2904-
 2930+3014-3166+3355-3400+3554-4090)) *Oryzias latipes* (Japanese medaka fish)
 Death-associated protein kinase 3 (DAP kinase 3; DAP-like kinase; Dlk; ZIP-
 kinase), 1365 bases, 82D76130 checksum.

ATGGCTGGCTTCAGGCAGGAGGACGTGGAGCTGCATTATGAGATGGGAGA
 GGAGCTGGGCAGCGGCCAGTTCGCCATCGTCCGTAAGTGCAGGGAGAAGA
 GCACGGGCGGCGAGTACGCGGCCAAGTTCATCAAGAAGCGGCGTCTGTCC
 TCCAGCCGGCGGGGGGTGAGCCGCGAGGAGATCGAGCGCGAGGTCAACAT
 CCTGCGGGAGATCCAGCACAGCAACATCATCACCTGCACGACATCTTCG
 AGAACAAGACCGACGTGATCCTGATCCTGGAGCTGGTGTCCGGAGGAGAG
 CTCTTCGACTTCCCTCGCAGAGAAGGAGTCTTTGACCGAGGAGGAGGCCAC
 GCAGTTCTGAAGCAGATCCTGGACGGCGTCCAGTACCTGCACTCCAAAC
 GCATCGCTCACTTCGACCTCAAGCCGGAGAACATCATGCTGCTGGACAAG
 AACGTTCCCAACCCAGGATCAAGCTGATCGACTTTGGGATCGCTCACCA
 GATTAAAGCAGGAAACGAGTTCAAGAACATCTTCGGGACTCCAGAGTTTG
 TGGCTCCTGAAATCGTCAACTACGAGCCGCTCGGCCTGGAGGCGGACATG
 TGGAGCATCGGCGTGATCACGTACATCCTGTTGAGCGGAGCGTCTCCGTT
 TCTGGGCGAGACCAAGCAGGAGACTTTGACCAACATCTCTGCCGTCAACT
 ACGACTTTGACGAGGAGTATTTTCAGCAACACCAGCGAGCTCGCCAAGGAC
 TTCATTCGCCGCTCCTGGTCAAGGATCCAAGAAGAGGATGACGATTGA
 CGACAGTCTAGAGCATCCCTGGATTAAGGTCAATTAAGAGACGAAACGTCC
 GGCCAGAGGAGGGAGACCAGAAGACCAAGCGCCGGCGCCTGAAGACCACC
 CGTCTGAAGGAGTACACCATCAAGTCCCCTCCAGCATGCCCCCAACAA
 CACCTACGTCAACTTCGAGCGCTTCTCCAGGTGCTGGAGGAGATCGCGG
 CTGCAGAGGAGGGCCTGAAGGAGCTGGAGCACAACCAGCGCTCCTGCCAG

GAGGACGTGGCGGCGCTGCTGTCCATCTACGAGGAGAAGGAGGGCTGGTA
 CAAGGAGGAGAACCAGAGCATCTCCTTAGACCTGAGCCACATCCGCCAAG
 ACCTGCAGCGCACCCAGGCCAGCGGAAGAAGTGCCAGGAGGAGACGCGG
 CTCACCACGCAGGCCGCCAGCATCCTGAAGCGCAGGTTTCGGCCGCTGGA
 GAACCGGTACGAGGTCCTGGCGGAGCAGGTGGCCTCAGAGGTGCGCTGGG
 TGGAGGAGCTGGTGAAGTCCTTTTCTGAGGAGAAGGCCGCCCTGAGCCCA
 GTCAGCTTGGCCTAG

>dapk3_Stickleback ((AANH01005391.1:370001-380000):(3354-3415+4304-4664+5059-
 5188+5374-5422+5515-5541+5661-5813+5916-5961+6385-6915)) *Gasterosteus aculeatus*
 (three spined stickleback fish) Death-associated protein kinase 3 (DAP kinase 3;
 DAP-like kinase; Dlk; ZIP-kinase), 1359 bases, 24AD1166 checksum.

ATGGATGGCTTCAGACAAGAGGATGTTGAGTTGTTTTATGAAATGGAAGA
 GGAGTTGGGCAGTGGACAATTTGCCATCGTCCGCAAGTGTAAGAAAAGA
 GCACGAGTATCGAGTACGCAGCAAAGTTCATCAAAAAGCGGCGACTGTCA
 TCCAGCCGGCGGGGGGTGAGCCGCGAGGAGATCGAGCGCGAAGTCAACAT
 CCTGCGGGAGATCCAACACAGCAACATCATCACCCTGCACGACATCTTTG
 AGAACAAAGGCCGACGTGATCCTGATCCTGGAGCTGGTGTCCGGAGGAGAA
 CTGTTTTGACTTCTGGCTGAGAAGGAATCTCTGACGGAGGAGGAGGCCAC
 CCAGTTCTCAAGCAGATCCTGGATGGCGTCCAGTACCTCCACTCCAAAC
 GCATCGCTCACTTTGACCTCAAGCCTGAGAACATCATGCTGCTGGACAAG
 AACGTCCCGAACCCAGGATCAAGCTCATCGATTTTGAATCGCGCACCA
 GATAAAAGCGGGAAACGAGTTCAAGAACATATTCGGAACGCCAGAGTTTG
 TCGCTCCAGAAATAGTCAACTACGAGCCGCTCGGACTGGAGGCGGACATG
 TGGAGCATCGGAGTCATCACGTACATCCTACTGAGCGGCGCTTCGCCGTT
 CCTGGGCGGAGACTAAGCAGGAGACGCTGACCAACATCTCGGCCGTCAACT
 ACGACTTCGATGAAGAGTATTTTCAGTAACACCAGTGAGCTGGCAAAGGAC
 TTCATACGCCGCTGCTGGTCAAGGATCCGAAGAAGAGAATGACAATTGA
 TGACAGTCTTGAGCACCCTTGGATCAAGGTTATTAAGAGGCGAAATGTCC
 GCCAGGAGGAGAGAGACCACAAGACCGAGCGACGGCGCCTGAAAACCACT
 CGTCTGAAGGAGTACACCATCAAGTCCCCTCCAGCATGCCCCCAACAA
 CACCTACGTCAACTTTGAGCGCTTCTCCAGGTCCTGGAGGAGATCGCCG
 CGGCAGAGGAGGGCCTGAGGGACCTGGAGCGCAACCAGCGCTCGTGCCGA
 GAGGACGTGGCGGCGCTGCTGTCCATATACGAGGAGAAGGAGGGTTGGTA
 CAAGGAGGAGAACCAGAGCATCTCCAGCGACCTGAGTCACATCCGCCAAG
 AGCTGCAGCGCACTCAAGCCCAGCGCAAGAAGAGCCAGGAGGAGGCCCGG
 CTCACCATGCAGGCCGCCAGCATCCTCAAGCGCAAGTACGGCCGCTGGA
 GAACCGCTACGAGGTCCTGGCCGAGCAAGTGGCCTCCGAAGTCCGCTGGG
 TGGAGGAGCTGGTCAAGTCCATGTCGGCGGAGAGGAGCGGCCTCGGCAGC
 ATGGCCTGA

>dapk3_Astatotilapia 46489038:1-550 *Astatotilapia burtoni* (Cichlid fish) cDNA
 clone hh_Ab_Brain2000_000004668 5', mRNA Death-associated protein kinase 3 (DAP
 kinase 3; DAP-like kinase; Dlk; ZIP-kinase); partial EST missing N-part, 550
 bases, 3BC9646F checksum.

GCCAGGAGGACAGAGATCACAAGACTGAGCGCCGGCGCCTGAAGACTACT
 CGTCTCAAGGAGTATACCATCAAGTCCCCTCCAGCATGCCTCCGAACAA
 CACCTACGCCAACTTTGAGCGCTTCTCCAGGTCCTCGAGGAGATTGCGG
 CGGCTGAGGAAGGCCTGAAGGAGTTGGAGCGCAACCAGCGCTCTTGCCGC
 GAGGACGTGGCAGCGCTGCTATCGATATATGAGGAGAAGGAGGGGTGGTA

CAAGGAAGAGAACCAGAGCATCTCTGGTGACCTGAACCACATCCGCCAAG
AGCTGCAGCGCACGCAGACGCAGCGCAAGAAGTGCCAGGAGGACGCGCGG
GTCACTATGCAGTCGGCCAACATCCTCAAGCGCAAGTTTGGGCGCCTGGA
GAACCGCTACGAGGTCCTGGCCGAGCAGGTGGCCTCCGAGGTCCGCTGGG
TGGAGGAGCTGGTGAAGTCAATATCGGCAGAGAAGGACGGCCTCAGCTCT
GGCAGCACGCCGTGAGCGGCGCTGACATCCAGCAGTGAGGGTTTCATCAT