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Show:

**1:** X52392. Gallus gallus mit...[gi:12960]

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LOCUS MIGGX 16775 bp DNA circular VRT 15-MAR-2000  
 DEFINITION Gallus gallus mitochondrial genome.  
 ACCESSION X52392  
 VERSION X52392.1 GI:12960  
 KEYWORDS 12S ribosomal RNA; 16S ribosomal RNA; ATPase 6; ATPase 8; circular; cytochrome b; cytochrome oxidase; cytochrome oxidase subunit I; cytochrome oxidase subunit II; cytochrome oxidase subunit III; NADH dehydrogenase; ribosomal RNA; transfer RNA; transfer RNA-Ala; transfer RNA-Arg; transfer RNA-Asp; transfer RNA-Cys; transfer RNA-Gln; transfer RNA-Glu; transfer RNA-Gly; transfer RNA-His; transfer RNA-Ile; transfer RNA-Leu; transfer RNA-Lys; transfer RNA-Met; transfer RNA-Phe; transfer RNA-Pro; transfer RNA-Ser; transfer RNA-Thr; transfer RNA-Trp; transfer RNA-Tyr; transfer RNA-Val.

SOURCE mitochondrion Gallus gallus (chicken)  
 ORGANISM [Gallus gallus](#)  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae; Gallus.

REFERENCE 1 (bases 1 to 16775)  
 AUTHORS Desjardins,P. and Morais,R.  
 TITLE Sequence and gene organization of the chicken mitochondrial genome. A novel gene order in higher vertebrates  
 JOURNAL J. Mol. Biol. 212 (4), 599-634 (1990)  
 MEDLINE [90230301](#)  
 PUBMED [2329578](#)

REFERENCE 2 (bases 1 to 16775)  
 AUTHORS Valverde,J.R., Marco,R. and Garesse,R.  
 TITLE A conserved heptamer motif for ribosomal RNA transcription termination in animal mitochondria  
 JOURNAL Proc. Natl. Acad. Sci. U.S.A. 91 (12), 5368-5371 (1994)  
 MEDLINE [94261586](#)  
 PUBMED [7515499](#)

REFERENCE 3 (bases 1 to 16775)  
 AUTHORS Morais,R.  
 TITLE Direct Submission  
 JOURNAL Submitted (03-APR-1990) Morais R., Departement de Biochimie, Universite de Montreal, C.P. 6128, Succ. A, Montreal (Quebec), H3C #j7, Canada

COMMENT Data kindly reviewed (25-SEP-1990) by Morais R.  
 See also <X15841> for previously reported ATPase sequence.

FEATURES Location/Qualifiers  
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 /organism="Gallus gallus"  
 /organelle="mitochondrion"  
 /mol\_type="genomic DNA"  
 /strain="white Leghorn"  
 /db\_xref="taxon:9031"  
 /haplotype="diploid"  
 /tissue\_type="liver"  
 /dev\_stage="adult"

[misc\\_feature](#) 1..1227  
/note="D-loop region"

[tRNA](#) 1228..1296  
/product="tRNA-Phe"

[rRNA](#) 1297..2272  
/product="12S ribosomal RNA"

[tRNA](#) 2273..2345  
/product="tRNA-Val"

[rRNA](#) 2346..3966  
/product="16S ribosomal RNA"

[tRNA](#) 3967..4040  
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[CDS](#) 4050..5024  
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IMLSGNYTLSTLAIQTQEPYLIIFSAWPLAMMWYISTLAETNRAPFDLTEGESELVSGF  
NVEYAAGPFAMFFLAEYANIMLMNTLTTVLFNPSFLNLPPELFPALATKTLSS  
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[tRNA](#) 5172..5240  
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[CDS](#) 5241..6281  
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STLIGGWMGLNQTRKILAFSSISHLWGMIMIISYNPQLTILTFILYTIMTSTVFLS  
LAQIKVLKSTLLISWTKTPMLNATVMLTLLSLAGLPPLTGFMKWLIIQELTKQEMT  
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FFDPAGGGDPILYQHLFWFFGHPEVYILILPGFGMISHVVAYYAGKKEPFGYMGMVWA  
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FTHWFPLFTGFTLHPSWTKAHFGVMFTGVNLTFFPQHFLGLAGMPRRYS DYPDAYTLW  
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[tRNA](#) 8261..8329  
[/product="tRNA-Asp"](#)

[CDS](#) 8331..9014  
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SWAVPALGVKTD AIPGRLNQT SFITTRPGVFYGCSEICGANHSYMPIVVESTPLKHF  
EAWSSLLSS"](#)

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[CDS](#) 9085..9249  
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[/db\\_xref="GOA:P14093"](#)  
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KPTPWTWPWT"](#)

[CDS](#) 9240..9923  
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LTANLTAGHLLIQLISTATIALLPMMPSISALTALILFLLTILEVAVAMIQAYVFVLL  
LSLYLQENI"](#)

[CDS](#) 9923..10708  
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HALTLTILLGFYFTALQAMEYHEASFISIADSVYGSTFFVATGFHGLHVIIGSSFLTVC
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CDS 10776..11126
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III (AA 1-116) "
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CDS 11196..11492
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IV L (AA 1-98) "
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V (AA 1-605) "
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[CDS](#)

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IPFHPYYSFKDILGLTLMPTPFLTLALFSPNLLGDPENFTPANPLVTPPHIKPEWYFL
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[tRNA](#)

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[tRNA](#)

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complement(16184..16705)
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VI (AA 1-173)"

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[CDS](#)

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[tRNA](#)

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complement(16708..16775)
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181 tccaatgctc cattctatgc atgatctagg acatactcat ttaccctccc catagacagt
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1201 acaaaacccg ccttctacca ctataaagcc cccatagctt aaccacaaa gcatggcact
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1561 caagaaaccc aatcaatag ctaccggcg taaagagtgg ccacatgta tctgcaccag
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1681 tccatcttag cctcaacgat taattttaac ccacgaaagc taggacccaa actgggatta
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