Release	70.03
Id	PIR-PSD
Date	09-Nov-2001
Database	P R O T E I N S E Q U E N C E D A T A B A S E of PIR-International Release 70.03, November 09, 2001 262525 sequences, 89717977 residues Protein Information Resource (PIR)* National Biomedical Research Foundation 3900 Reservoir Road, N.W., Washington, DC 20007, USA Japan International Protein Munich Information Center for Information Database (JIPID) Protein Sequences (MIPS) Amakubo 1-16-1 GSF-Forschungszentrum f. Umwelt und Gesundheit Tsukuba 305-0005, Japan am Max-Planck-Instut f. Biochemie Am Klopferspitz 18, D-82152 Martinsried, FRG This database may be redistributed without prior consent, provided that this notice be given to each user and that the words "Derived from" shall precede this notice if the database has been altered by the redistributor. *PIR is a registered mark of NBRF.

Proteinentry

- Id: CCHU

Header

Uid: CCHU

Accession

- Entry: A31764
- Entry: A05676
- Entry: I55192
- Entry: A00001

Created Date	24-Apr-1984
Seq-rev Date	30-Sep-1991
Txt-rev Date	28-Jul-2000

Protein

Name: cytochrome c [validated]

Organism

Source	human
Common	man
Formal	Homo sapiens

Reference

- Refinfo
  - Refid: A31764
  - Authors
    - Author
      - Entry: Evans, M.J.
      - Entry: Scarpulla, R.C.
  - Citation
    - Type:
    - Content:
  - Volume: 85
  - Year: 1988
  - Pages: 9625-9629
  - Title: The human somatic cytochrome c gene: two classes of processed pseudogenes demarcate a period of rapid molecular evolution.
  - Xrefs
    - Xref
      - Db: MUID
      - Uid: 89071748
  - Month:
- Accinfo
  - Label: EVA
  - Accession: A31764
  - Mol-type: DNA
  - Seq-spec: 1-105
  - Xrefs
    - Xref
      - Db: GB
        Uid: M22877
      - Db: NID
        Uid: g181241
      - Db: PIDN
        Uid: AAA35732.1
      - Db: PID
        Uid: g181242
  - Status:
  - Exp-source:
- Contents
- Note:

- Refinfo
  - Refid: A05676
  - Authors
    - Author
      - Entry: Matsubara, H.
      - Entry: Smith, E.L.
  - Citation
    - Type:
    - Content:
  - Volume: 238
  - Year: 1963
  - Pages: 2732-2753
  - Title: Human heart cytochrome c. Chymotryptic peptides, tryptic peptides, and the complete amino acid sequence.
  - Xrefs
  - Month:
- Accinfo
  - Label: MATS
  - Accession: A05676
  - Mol-type: protein
  - Seq-spec: 2-28;29-46;47-100;101-105
  - Xrefs
  - Status:
  - Exp-source:
- Contents
- Note:

- Refinfo
  - Refid: A00001
  - Authors
    - Author
      - Entry: Matsubara, H.
      - Entry: Smith, E.L.
  - Citation
    - Type:
    - Content:
  - Volume: 237
  - Year: 1962
  - Pages: 3575-3576
  - Title: The amino acid sequence of human heart cytochrome c.
  - Xrefs
  - Month:
- Accinfo
- Contents
  - Entry:
- Note: 66-Leu is found in 10% of the molecules in pooled protein

- Refinfo
  - Refid: I55192
  - Authors
    - Author
      - Entry: Tanaka, Y.
      - Entry: Ashikari, T.
      - Entry: Shibano, Y.
      - Entry: Amachi, T.
      - Entry: Yoshizumi, H.
      - Entry: Matsubara, H.
  - Citation
    - Type:
    - Content:
  - Volume: 103
  - Year: 1988
  - Pages: 954-961
  - Title: Construction of a human cytochrome c gene and its functional expression in Saccharomyces cerevisiae.
  - Xrefs
    - Xref
      - Db: MUID
      - Uid: 89008207
  - Month:
- Accinfo
  - Label: RES
  - Accession: I55192
  - Mol-type: mRNA
  - Seq-spec: 78-105
  - Xrefs
    - Xref
      - Db: GB
        Uid: D00265
      - Db: NID
        Uid: g2897691
      - Db: PIDN
        Uid: BAA00187.1
      - Db: PID
        Uid: g219557
  - Status: translated from GB/EMBL/DDBJ
  - Exp-source:
- Contents
- Note:

Genetics
- Introns: 57/1

Classification

Superfamily

- Entry: cytochrome c
- Entry: cytochrome c homology

Keywords

Keyword

- Entry: acetylated amino end
- Entry: chromoprotein
- Entry: electron transfer
- Entry: heme
- Entry: iron
- Entry: metalloprotein
- Entry: mitochondrion
- Entry: oxidative phosphorylation
- Entry: polymorphism
- Entry: respiratory chain

Feature

- Label: MAT
  - Feature-type: product
  - Description: cytochrome c
  - Seq-spec: 2-105
  - Status: experimental
- Label: CYC
  - Feature-type: domain
  - Description: cytochrome c homology
  - Seq-spec: 5-99
  - Status:
- Label:
  - Feature-type: modified-site
  - Description: acetylated amino end (Gly) (in mature form)
  - Seq-spec: 2
  - Status: experimental
- Label:
  - Feature-type: binding-site
  - Description: heme (Cys) (covalent)
  - Seq-spec: 15,18
  - Status: experimental
- Label:
  - Feature-type: binding-site
  - Description: heme iron (His, Met) (axial ligands)
  - Seq-spec: 19,81
  - Status: predicted

Summary

- Length: 105
- Type: complete
- Status:

Sequence: MGDVEKGKKIFIMKCSQCHTVEKGGKHKTGPNLHGLFGRKTGQAPGYSYTAANKNKGIIW GEDTLMEYLENPKKYIPGTKMIFVGIKKKEERADLIAYLKKATNE

- Id: CCCZ

Header

Uid: CCCZ

Accession

- Entry:

- Created Date: 17-Mar-1987
- Seq-rev Date: 17-Mar-1987
- Txt-rev Date: 03-Mar-2000

Protein

Name: cytochrome c

Organism

- Source: chimpanzee
- Common: chimpanzee
- Formal: Pan troglodytes

Reference

- Refinfo
  - Refid: A94601
  - Authors
    - Author
      - Entry:
  - Citation
    - Type: submission
    - Content: submitted to the Atlas
  - Volume:
  - Year: 1968
  - Pages:
  - Title:
  - Xrefs:
  - Month: October
  - Accinfo
    - Label: NEE
    - Accession: A00002
    - Mol-type: protein
    - Seq-spec: 1-104
    - Xrefs:
    - Status:
    - Exp-source:
  - Contents:
  - Note:

- Refinfo
  - Refid: A94455
  - Authors
    - Author
      - Entry: Needleman, S.B.
      - Entry: Margoliash, E.
  - Citation
    - Type: other
    - Content: unpublished results, 1966, cited by Margoliash, E., and Fitch, W.M., Ann. N.Y. Acad. Sci. 151, 359-381
  - Volume:
  - Year: 1968
  - Pages:
  - Title:
  - Xrefs:
  - Month:
  - Accinfo:
  - Contents
    - Entry: annotation
    - Entry: compositions of chymotryptic peptides
  - Note:

Genetics

Classification

- Superfamily
  - Entry: cytochrome c
  - Entry: cytochrome c homology

Keywords

- Keyword
  - Entry: acetylated amino end
  - Entry: chromoprotein
  - Entry: electron transfer
  - Entry: heme
  - Entry: iron
  - Entry: metalloprotein
  - Entry: mitochondrion
  - Entry: oxidative phosphorylation
  - Entry: respiratory chain

Feature

- Label: CYC
  Feature-type: domain
  Description: cytochrome c homology
  Seq-spec: 4-98
  Status:

- Label:
  Feature-type: modified-site
  Description: acetylated amino end (Gly)
  Seq-spec: 1
  Status: predicted

- Label:
  Feature-type: binding-site
  Description: heme (Cys) (covalent)
  Seq-spec: 14,17
  Status: predicted

- Label:
  Feature-type: binding-site
  Description: heme iron (His, Met) (axial ligands)
  Seq-spec: 18,80
  Status: predicted

Summary

Length: 104
Type: complete
Status: tentative

Sequence: GDVEKGKKIFIMKCSQCHTVEKGGKHKTGPNLHGLFGRKTGQAPGYSYTAANKNKGIIWG EDTLMEYLENPKKYIPGTKMIFVGIKKKEERADLIAYLKKATNE

- Id: CCMQR

Header

Uid: CCMQR

Accession

- Entry:

Created Date: 17-Mar-1987
Seq-rev Date: 17-Mar-1987
Txt-rev Date: 03-Mar-2000

Protein

Name: cytochrome c

Organism

Source: rhesus macaque
Common: rhesus macaque
Formal: Macaca mulatta

- Reference
  - Refinfo
    - Refid: A00003
    - Authors
      - Author
        - Entry: Rothfus, J.A.
        - Entry: Smith, E.L.
    - Citation
      - Type:
      - Content:
    - Volume: 240
    - Year: 1965
    - Pages: 4277-4283
    - Title: Amino acid sequence of rhesus monkey heart cytochrome c.
    - Xrefs
      - Xref
        - Db: MUID
        - Uid: 66045191
    - Month:
  - Accinfo
    - Label: ROT
    - Accession: A00003
    - Mol-type: protein
    - Seq-spec: 1-104
    - Xrefs
    - Status:
    - Exp-source:
  - Contents
    - Entry: compositions of chymotryptic peptides
    - Entry: sequences of residues 55-61 and 68-70
  - Note
- Genetics
- Classification
  - Superfamily
    - Entry: cytochrome c
    - Entry: cytochrome c homology
- Keywords
  - Keyword
    - Entry: acetylated amino end
    - Entry: chromoprotein
    - Entry: electron transfer
    - Entry: heme
    - Entry: iron
    - Entry: metalloprotein
    - Entry: mitochondrion
    - Entry: oxidative phosphorylation
    - Entry: respiratory chain

Feature

- Label: CYC
  Feature-type: domain
  Description: cytochrome c homology
  Seq-spec: 4-98
  Status:

- Label:
  Feature-type: modified-site
  Description: acetylated amino end (Gly)
  Seq-spec: 1
  Status: experimental

- Label:
  Feature-type: binding-site
  Description: heme (Cys) (covalent)
  Seq-spec: 14,17
  Status: predicted

- Label:
  Feature-type: binding-site
  Description: heme iron (His, Met) (axial ligands)
  Seq-spec: 18,80
  Status: predicted

Summary

Length: 104
Type: complete
Status: tentative

Sequence: GDVEKGKKIFIMKCSQCHTVEKGGKHKTGPNLHGLFGRKTGQAPGYSYTAANKNKGITWG EDTLMEYLENPKKYIPGTKMIFVGIKKKEERADLIAYLKKATNE

- Id: CCMKP

Header

Uid: CCMKP

Accession

- Entry:

Created Date: 17-Dec-1982
Seq-rev Date: 17-Dec-1982
Txt-rev Date: 03-Mar-2000

Protein

Name: cytochrome c

Organism

Source: spider monkey
Common: spider monkey
Formal: Ateles sp.

Reference

- Refinfo

  Refid: A00004

  Authors

  Author

  - Entry:

  Citation

  Type: other
  Content: unpublished results, cited by Shelnutt, J.A., Rousseau, D.L., Dethmers, J.K., and Margoliash, E., Biochemistry 20, 6485-6497

  Volume:
  Year: 1981
  Pages:
  Title:
  Xrefs:
  Month:

  Accinfo

  Label: MAR
  Accession: A00004
  Mol-type: protein
  Seq-spec: 1-104
  Xrefs:
  Status:
  Exp-source:

  Contents:
  Note:

Genetics

Classification

Superfamily

- Entry: cytochrome c
- Entry: cytochrome c homology

Keywords

Keyword

- Entry: acetylated amino end
- Entry: chromoprotein
- Entry: electron transfer
- Entry: heme
- Entry: iron
- Entry: metalloprotein
- Entry: mitochondrion
- Entry: oxidative phosphorylation
- Entry: respiratory chain

Feature

- Label: CYC
  - Feature-type: domain
  - Description: cytochrome c homology
  - Seq-spec: 4-98
  - Status:
- Label:
  - Feature-type: modified-site
  - Description: acetylated amino end (Gly)
  - Seq-spec: 1
  - Status: predicted
- Label:
  - Feature-type: binding-site
  - Description: heme (Cys) (covalent)
  - Seq-spec: 14,17
  - Status: predicted
- Label:
  - Feature-type: binding-site
  - Description: heme iron (His, Met) (axial ligands)
  - Seq-spec: 18,80
  - Status: predicted

Summary

- Length: 104
- Type: complete
- Status:

Sequence: GDVFKGKRIFIMKCSQCHTVEKGGKHKTGPNLHGLFGRKTGQASGFTYTEANKNKGIIWG EDTLMEYLENPKKYIPGTKMIFVGIKKKEERADLIAYLKKATNE

- Id: CCMS

Header

Uid: CCMS

Accession

- Entry: A23057
- Entry: A04604
- Entry: A00009

- Created Date: 31-Dec-1990
- Seq-rev Date: 30-Sep-1991
- Txt-rev Date: 28-Jul-2000

Protein

Name: cytochrome c [validated]

Organism

- Source: mouse
- Common: house mouse
- Formal: Mus musculus

Reference

- Refinfo
  - Refid: A23057
  - Authors
    - Author
      - Entry: Limbach, K.J.
      - Entry: Wu, R.
  - Citation
    - Type:
    - Content:
  - Volume: 13
  - Year: 1985
  - Pages: 617-630
  - Title: Characterization of a mouse somatic cytochrome c gene and three cytochrome c pseudogenes.
  - Xrefs
    - Xref
      - Db: MUID
      - Uid: 85215501
  - Month:
- Accinfo
  - Label: LIM
  - Accession: A23057
  - Mol-type: DNA
  - Seq-spec: 1-105
  - Xrefs
    - Xref
      - Db: EMBL
        Uid: X01756
      - Db: NID
        Uid: g50618
      - Db: PIDN
        Uid: CAA25899.1
      - Db: PID
        Uid: g50619
  - Status:
  - Exp-source: strain BALB/c
- Contents
- Note:

- Refinfo
  - Refid: A04604
  - Authors
    - Author
      - Entry: Carlson, S.S.
      - Entry: Mross, G.A.
      - Entry: Wilson, A.C.
      - Entry: Mead, R.T.
      - Entry: Wolin, L.D.
      - Entry: Bowers, S.F.
      - Entry: Foley, N.T.
      - Entry: Muijsers, A.O.
      - Entry: Margoliash, E.
  - Citation
    - Type:
    - Content:
  - Volume: 16
  - Year: 1977
  - Pages: 1437-1442
  - Title: Primary structure of mouse, rat, and guinea pig cytochrome c.
  - Xrefs
    - Xref
      - Db: MUID
      - Uid: 77134768
  - Month:
- Accinfo
  - Label: CAR
  - Accession: A04604
  - Mol-type: protein
  - Seq-spec: 2-105
  - Xrefs
  - Status:
  - Exp-source: strain BALB/c
- Contents
  - Note:

Genetics
- Introns: 57/1

Classification
- Superfamily
  - Entry: cytochrome c
  - Entry: cytochrome c homology

Keywords
- Keyword
  - Entry: acetylated amino end
  - Entry: chromoprotein
  - Entry: electron transfer
  - Entry: heme
  - Entry: iron
  - Entry: metalloprotein
  - Entry: mitochondrion
  - Entry: oxidative phosphorylation
  - Entry: respiratory chain

Feature

- Label: MAT
  - Feature-type: product
  - Description: cytochrome c
  - Seq-spec: 2-105
  - Status: experimental
- Label: CYC
  - Feature-type: domain
  - Description: cytochrome c homology
  - Seq-spec: 5-99
  - Status:
- Label:
  - Feature-type: modified-site
  - Description: acetylated amino end (Gly) (in mature form)
  - Seq-spec: 2
  - Status: experimental
- Label:
  - Feature-type: binding-site
  - Description: heme (Cys) (covalent)
  - Seq-spec: 15,18
  - Status: experimental
- Label:
  - Feature-type: binding-site
  - Description: heme iron (His, Met) (axial ligands)
  - Seq-spec: 19,81
  - Status: predicted

Summary

- Length: 105
- Type: complete
- Status:

Sequence: MGDVEKGKKIFVQKCAQCHTVEKGGKHKTGPNLHGLFGRKTGQAAGFSYTDANKNKGITW GEDTLMEYLENPKKYIPGTKMIFAGIKKKGERADLIAYLKKATNE

- Id: CCRT

Header

- Uid: CCRT
- Accession
  - Entry: A04605
  - Entry: C28160
  - Entry: A00009
- Created Date: 31-Dec-1990
- Seq-rev Date: 30-Sep-1991
- Txt-rev Date: 28-Jul-2000

Protein

- Name: cytochrome c [validated]

Organism

- Source: rat
- Common: Norway rat
- Formal: Rattus norvegicus

Reference

- Refinfo
  - Refid: A04605
  - Authors
    - Author
      - Entry: Scarpulla, R.C.
      - Entry: Agne, K.M.
      - Entry: Wu, R.
  - Citation
    - Type:
    - Content:
  - Volume: 256
  - Year: 1981
  - Pages: 6480-6486
  - Title: Isolation and structure of a rat cytochrome c gene.
  - Xrefs
    - Xref
      - Db: MUID
      - Uid: 81215609
  - Month:
- Accinfo
  - Label: SCA
  - Accession: A04605
  - Mol-type: DNA
  - Seq-spec: 1-105
  - Xrefs
    - Xref
      - Db: GB
        Uid: K00750
      - Db: GB
        Uid: M28216
      - Db: NID
        Uid: g550511
      - Db: PIDN
        Uid: AAA21711.1
      - Db: PID
        Uid: g203699
  - Status:
  - Exp-source:
- Contents
- Note:

- Refinfo
  - Refid: A28160
  - Authors
    - Author
      - Entry: Virbasius, J.V.
      - Entry: Scarpulla, R.C.
  - Citation
    - Type:
    - Content:
  - Volume: 263
  - Year: 1988
  - Pages: 6791-6796
  - Title: Structure and expression of rodent genes encoding the testis-specific cytochrome c. Differences in gene structure and evolution between somatic and testicular variants.
  - Xrefs
    - Xref
      - Db: MUID
      - Uid: 88198250
  - Month:
- Accinfo
  - Label: VIR
  - Accession: C28160
  - Mol-type: mRNA
  - Seq-spec: 1-105
  - Xrefs
    - Xref
      - Db: GB
        Uid: M20622
      - Db: NID
        Uid: g203722
      - Db: PIDN
        Uid: AAA41014.1
      - Db: PID
        Uid: g203723
  - Status:
  - Exp-source:
- Contents
- Note:

- Refinfo
  - Refid: A04604
  - Authors
    - Author
      - Entry: Carlson, S.S.
      - Entry: Mross, G.A.
      - Entry: Wilson, A.C.
      - Entry: Mead, R.T.
      - Entry: Wolin, L.D.
      - Entry: Bowers, S.F.
      - Entry: Foley, N.T.
      - Entry: Muijsers, A.O.
      - Entry: Margoliash, E.
  - Citation
    - Type:
    - Content:
  - Volume: 16
  - Year: 1977
  - Pages: 1437-1442
  - Title: Primary structure of mouse, rat, and guinea pig cytochrome c.
  - Xrefs
    - Xref
      - Db: MUID
      - Uid: 77134768
  - Month:
- Accinfo
- Contents
  - Entry:
- Note: peptide mapping, compositional analysis, and partial sequencing indicate that rat cytochrome c is identical with that of mouse

Genetics
- Introns: 57/1

Classification
- Superfamily
  - Entry: cytochrome c
  - Entry: cytochrome c homology

Keywords
- Keyword
  - Entry: blocked amino end
  - Entry: chromoprotein
  - Entry: electron transfer
  - Entry: heme
  - Entry: iron
  - Entry: metalloprotein
  - Entry: mitochondrion
  - Entry: oxidative phosphorylation
  - Entry: respiratory chain

Feature

- Label: MAT
  Feature-type: product
  Description: cytochrome c
  Seq-spec: 2-105
  Status: experimental

- Label: CYC
  Feature-type: domain
  Description: cytochrome c homology
  Seq-spec: 5-99
  Status:

- Label:
  Feature-type: modified-site
  Description: blocked amino end (Gly) (in mature form) (probably acetylated)
  Seq-spec: 2
  Status: experimental

- Label:
  Feature-type: binding-site
  Description: heme (Cys) (covalent)
  Seq-spec: 15,18
  Status: experimental

- Label:
  Feature-type: binding-site
  Description: heme iron (His, Met) (axial ligands)
  Seq-spec: 19,81
  Status: predicted

Summary

Length: 105
Type: complete
Status:

Sequence: MGDVEKGKKIFVQKCAQCHTVEKGGKHKTGPNLHGLFGRKTGQAAGFSYTDANKNKGITW GEDTLMEYLENPKKYIPGTKMIFAGIKKKGERADLIAYLKKATNE

- Id: CCRB

Header

Uid: CCRB

Accession

- Entry:

Created Date: 13-Jul-1981
Seq-rev Date: 13-Jul-1981
Txt-rev Date: 28-Jul-2000

Protein

Name: cytochrome c [validated]

Organism

Source: rabbit
Common: domestic rabbit
Formal: Oryctolagus cuniculus

Reference

- Refinfo
  - Refid: A00009
  - Authors
    - Author
      - Entry: Needleman, S.B.
      - Entry: Margoliash, E.
  - Citation
    - Type:
    - Content:
  - Volume: 241
  - Year: 1966
  - Pages: 853-863
  - Title: Rabbit heart cytochrome c.
  - Xrefs
    - Xref
      - Db: MUID
      - Uid: 66093127
  - Month:
- Accinfo
  - Label: NEE
  - Accession: A00009
  - Mol-type: protein
  - Seq-spec: 1-104
  - Xrefs
  - Status:
  - Exp-source:
- Contents
  - Note:

Genetics

Classification

- Superfamily
  - Entry: cytochrome c
  - Entry: cytochrome c homology

Keywords

- Keyword
  - Entry: acetylated amino end
  - Entry: chromoprotein
  - Entry: electron transfer
  - Entry: heme
  - Entry: iron
  - Entry: metalloprotein
  - Entry: mitochondrion
  - Entry: oxidative phosphorylation
  - Entry: respiratory chain

Feature

- Label: CYC
  Feature-type: domain
  Description: cytochrome c homology
  Seq-spec: 4-98
  Status:
- Label:
  Feature-type: modified-site
  Description: acetylated amino end (Gly)
  Seq-spec: 1
  Status: experimental
- Label:
  Feature-type: binding-site
  Description: heme (Cys) (covalent)
  Seq-spec: 14,17
  Status: experimental
- Label:
  Feature-type: binding-site
  Description: heme iron (His, Met) (axial ligands)
  Seq-spec: 18,80
  Status: predicted

Summary

Length: 104
Type: complete
Status:

Sequence: GDVEKGKKIFVQKCAQCHTVEKGGKHKTGPNLHGLFGRKTGQAVGFSYTDANKNKGITWG EDTLMEYLENPKKYIPGTKMIFAGIKKKDERADLIAYLKKATNE

- Id: CCGW

Header

Uid: CCGW

Accession

- Entry: A04608
- Entry: A00009

Created Date: 31-Dec-1990
Seq-rev Date: 31-Dec-1990
Txt-rev Date: 28-Jul-2000

Protein

Name: cytochrome c [validated]

Organism

Source: guanaco
Common: guanaco
Formal: Lama guanicoe

- Reference
  - Refinfo
    - Refid: A04608
    - Authors
      - Author
        - Entry: Niece, R.L.
        - Entry: Margoliash, E.
        - Entry: Fitch, W.M.
    - Citation
      - Type:
      - Content:
    - Volume: 16
    - Year: 1977
    - Pages: 68-72
    - Title: Complete amino acid sequence of guanaco (Lama guanicoe) cytochrome c.
    - Xrefs
      - Xref
        - Db: MUID
        - Uid: 77087753
    - Month:
  - Accinfo
    - Label: NIE
    - Accession: A04608
    - Mol-type: protein
    - Seq-spec: 1-104
    - Xrefs
    - Status:
    - Exp-source:
  - Contents
    - Note:
- Genetics
- Classification
  - Superfamily
    - Entry: cytochrome c
    - Entry: cytochrome c homology
- Keywords
  - Keyword
    - Entry: acetylated amino end
    - Entry: chromoprotein
    - Entry: electron transfer
    - Entry: heme
    - Entry: iron
    - Entry: metalloprotein
    - Entry: mitochondrion
    - Entry: oxidative phosphorylation
    - Entry: respiratory chain

Feature

- Label: CYC
  Feature-type: domain
  Description: cytochrome c homology
  Seq-spec: 4-98
  Status:
- Label:
  Feature-type: modified-site
  Description: acetylated amino end (Gly)
  Seq-spec: 1
  Status: experimental
- Label:
  Feature-type: binding-site
  Description: heme (Cys) (covalent)
  Seq-spec: 14,17
  Status: experimental
- Label:
  Feature-type: binding-site
  Description: heme iron (His, Met) (axial ligands)
  Seq-spec: 18,80
  Status: predicted

Summary

Length: 104
Type: complete
Status:

Sequence: GDVEKGKKIFVQKCAQCHTVEKGGKHKTGPNLHGLFGRKTGQAVGFSYTDANKNKGITWG EETLMEYLENPKKYIPGTKMIFAGIKKKGERADLIAYLKKATNE

- Id: CCCM

Header

Uid: CCCM

Accession

- Entry: A04607
- Entry: A00009

Created Date: 31-Dec-1990
Seq-rev Date: 31-Dec-1990
Txt-rev Date: 03-Mar-2000

Protein

Name: cytochrome c

Organism

Source: Arabian camel
Common: Arabian camel
Formal: Camelus dromedarius

Reference

- Refinfo
  - Refid: A04607
  - Authors
    - Author
      - Entry: Sokolovsky, M.
      - Entry: Moldovan, M.
  - Citation
    - Type:
    - Content:
  - Volume: 11
  - Year: 1972
  - Pages: 145-149
  - Title: Primary structure of cytochrome c from the camel, Camelus dromedarius.
  - Xrefs
    - Xref
      - Db: MUID
      - Uid: 72096652
  - Month:
- Accinfo
  - Label: SOK
  - Accession: A04607
  - Mol-type: protein
  - Seq-spec: 1-104
  - Xrefs
  - Status:
  - Exp-source:
- Contents
- Note:

Genetics

Classification

- Superfamily
  - Entry: cytochrome c
  - Entry: cytochrome c homology

Keywords

- Keyword
  - Entry: acetylated amino end
  - Entry: chromoprotein
  - Entry: electron transfer
  - Entry: heme
  - Entry: iron
  - Entry: metalloprotein
  - Entry: mitochondrion
  - Entry: oxidative phosphorylation
  - Entry: respiratory chain

Feature

- Label: CYC
  Feature-type: domain
  Description: cytochrome c homology
  Seq-spec: 4-98
  Status:
- Label:
  Feature-type: modified-site
  Description: acetylated amino end (Gly)
  Seq-spec: 1
  Status: experimental
- Label:
  Feature-type: binding-site
  Description: heme (Cys) (covalent)
  Seq-spec: 14,17
  Status: predicted
- Label:
  Feature-type: binding-site
  Description: heme iron (His, Met) (axial ligands)
  Seq-spec: 18,80
  Status: predicted

Summary

Length: 104
Type: complete
Status:

Sequence: GDVEKGKKIFVQKCAQCHTVEKGGKHKTGPNLHGLFGRKTGQAVGFSYTDANKNKGITWG EETLMEYLENPKKYIPGTKMIFAGIKKKGERADLIAYLKKATNE

- Id: CCWHC

Header

Uid: CCWHC

Accession

- Entry: A04606
- Entry: A00009

Created Date: 31-Dec-1990
Seq-rev Date: 31-Dec-1990
Txt-rev Date: 03-Mar-2000

Protein

Name: cytochrome c

Organism

Source: California gray whale
Common: California gray whale
Formal: Eschrichtius robustus, Eschrichtius gibbosus

- Reference
  - Refinfo
    - Refid: A04606
    - Authors
      - Author
        - Entry: Goldstone, A.
        - Entry: Smith, E.L.
    - Citation
      - Type:
      - Content:
    - Volume: 241
    - Year: 1966
    - Pages: 4480-4486
    - Title: Amino acid sequence of whale heart cytochrome c.
    - Xrefs
      - Xref
        - Db: MUID
        - Uid: 67041932
    - Month:
  - Accinfo
    - Label: GOL
    - Accession: A04606
    - Mol-type: protein
    - Seq-spec: 1-104
    - Xrefs
    - Status:
    - Exp-source:
  - Contents
    - Note:
- Genetics
- Classification
  - Superfamily
    - Entry: cytochrome c
    - Entry: cytochrome c homology
- Keywords
  - Keyword
    - Entry: blocked amino end
    - Entry: chromoprotein
    - Entry: electron transfer
    - Entry: heme
    - Entry: iron
    - Entry: metalloprotein
    - Entry: mitochondrion
    - Entry: oxidative phosphorylation
    - Entry: respiratory chain

Feature

- Label: CYC
  Feature-type: domain
  Description: cytochrome c homology
  Seq-spec: 4-98
  Status:

- Label:
  Feature-type: modified-site
  Description: blocked amino end (Gly) (probably acetylated)
  Seq-spec: 1
  Status: experimental

- Label:
  Feature-type: binding-site
  Description: heme (Cys) (covalent)
  Seq-spec: 14,17
  Status: predicted

- Label:
  Feature-type: binding-site
  Description: heme iron (His, Met) (axial ligands)
  Seq-spec: 18,80
  Status: predicted

Summary

Length: 104
Type: complete
Status:

Sequence: GDVEKGKKIFVQKCAQCHTVEKGGKHKTGPNLHGLFGRKTGQAVGFSYTDANKNKGITWG EETLMEYLENPKKYIPGTKMIFAGIKKKGERADLIAYLKKATNE

- Id: CCPG

Header

Uid: CCPG

Accession

- Entry:

Created Date: 17-Mar-1987
Seq-rev Date: 17-Mar-1987
Txt-rev Date: 28-Jul-2000

Protein

Name: cytochrome c [validated]

Organism

Source: pig
Common: domestic pig
Formal: Sus scrofa domestica

Reference

- Refinfo

Refid: A90743

Authors

Author

- Entry: Stewart, J.W.
- Entry: Margoliash, E.

Citation

Type:
Content:

Volume: 43
Year: 1965
Pages: 1187-1206
Title: The primary structure of the cytochrome c from various organs of the hog.

Xrefs

Xref

Db: MUID
Uid: 66072936

Month:

Accinfo

Label: STE
Accession: A00007
Mol-type: protein
Seq-spec: 1-104
Xrefs
Status:
Exp-source:

Contents

Note:

Genetics

Classification

Superfamily

- Entry: cytochrome c
- Entry: cytochrome c homology

Keywords

Keyword

- Entry: acetylated amino end
- Entry: chromoprotein
- Entry: electron transfer
- Entry: heme
- Entry: iron
- Entry: metalloprotein
- Entry: mitochondrion
- Entry: oxidative phosphorylation
- Entry: respiratory chain

Feature

- Label: CYC
  Feature-type: domain
  Description: cytochrome c homology
  Seq-spec: 4-98
  Status:
- Label:
  Feature-type: modified-site
  Description: acetylated amino end (Gly)
  Seq-spec: 1
  Status: experimental
- Label:
  Feature-type: binding-site
  Description: heme (Cys) (covalent)
  Seq-spec: 14,17
  Status: experimental
- Label:
  Feature-type: binding-site
  Description: heme iron (His, Met) (axial ligands)
  Seq-spec: 18,80
  Status: predicted

Summary

Length: 104
Type: complete
Status:

Sequence: GDVEKGKKIFVQKCAQCHTVEKGGKHKTGPNLHGLFGRKTGQAPGFSYTDANKNKGITWG EETLMEYLENPKKYIPGTKMIFAGIKKKGEREDLIAYLKKATNE

- Id: CCBO

Header

Uid: CCBO

Accession

- Entry: A92022
- Entry: A00007

Created Date: 31-Mar-1992
Seq-rev Date: 31-Mar-1992
Txt-rev Date: 03-Mar-2000

Protein

Name: cytochrome c

Organism

Source: bovine
Common: cattle
Formal: Bos primigenius taurus

Reference

- Refinfo
  - Refid: A92022
  - Authors
    - Author
      - Entry: Nakashima, T.
      - Entry: Higa, H.
      - Entry: Matsubara, H.
      - Entry: Benson, A.
      - Entry: Yasunobu, K.T.
  - Citation
    - Type:
    - Content:
  - Volume: 241
  - Year: 1966
  - Pages: 1166-1177
  - Title: The amino acid sequence of bovine heart cytochrome c.
  - Xrefs
    - Xref
      - Db: MUID
      - Uid: 66132521
  - Month:
  - Accinfo
    - Label: NAK
    - Accession: A92022
    - Mol-type: protein
    - Seq-spec: 1-104
    - Xrefs
    - Status:
    - Exp-source:
  - Contents
  - Note:

- Refinfo
  - Refid: A61297
  - Authors
    - Author
      - Entry: Tsunasawa, S.
      - Entry: Narita, K.
  - Citation
    - Type:
    - Content:
  - Volume: 92
  - Year: 1982
  - Pages: 607-613
  - Title:
  - Xrefs
  - Month:
  - Accinfo
  - Contents
  - Note:

Genetics

Classification

Keywords

Feature

Summary

Sequence: