
New nucleotide sequence data on the EMBL File Server

January 28th to February 11th 1992

New nucleotide sequence data, available from the EMBL File Server, (see Stoehr, P.J. and Omond, R.A. (1989) *Nucleic Acids Res.*, **17** (16), 6763-6764), are reported below. Availability of all the newest sequence data is the result of collaboration between the EMBL Data Library, GenBank® and DDBJ, and data are supplied regularly by these groups. Updates to existing data are not reported here. This report has been prepared by the EMBL Data Library.

The EMBL File Server can be used by anyone who has access to electronic mail networks. Database entries can be retrieved by sending a mail message to the Internet address NetServ@EMBL-Heidelberg.DE containing the GET command. For example, to get the entry with the accession number X12399, the message should include the following line:

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GET NUC:X12399
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The requested file(s) will be returned automatically via electronic mail. More introductory documentation can be obtained by using the file server command:

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HELP.
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PRIMATES:

Human mRNA for alpha-fetoprotein enhancer binding protein.
Morinaga T., Yasuda H., Higashio K., Tamaoki T.;
Mol. Cell. Biol. 11:6041-6049(1991). D10250

D. discoideum tRNA-Thr (AGU) 1 gene
Hofmann J., Schumann G., Borschet G., Goesseringer R., Bach
M., Bertling W., Marschalek R., Dingermann T.;
J. Mol. Biol. 222:537-552(1991). X59586

RODENTS:

Mouse alcohol dehydrogenase-B2 (Adh-2) mRNA, putative cds.
Hur M.W., Ho W.H., Brown C.J., Goldman D., Edenberg H.J.;
Unpublished. M84147

Dirofilaria immitis cDNA for a highly immunoreactive antigen,
partial sequence.
Culpepper J.A., Dale B.A., Grieve R.B., Friedman L., Frank
G.R., Mika-Grieve M.;
Unpublished. M82811

INVERTEBRATES:

A. pisum gene for 18S ribosomal RNA
Kwon O.Y., Ogino K., Ishikawa H.;
Eur. J. Biochem. 202:827-833(1991). X62623

D. melanogaster 60A protein (60A) mRNA, complete cds.
Doctor J.S., Jackson P.D., Rashka K.E., Visalli M., Hoffmann
F.M.;
Unpublished. M84795

Ascaris suum malic enzyme mRNA, mature peptide.
Kulkarni G.;
Unpublished. M81055

D. melanogaster RNA for big brain neurogenic gene
Rao Y., Jan L.Y., Jan Y.N.;
Nature 345:163-167(1990). X53275

Biomphalaria glabrata tropomyosin mRNA, complete cds.
Dissous C.;
Unpublished. M85199

D. melanogaster profilin (chickadee) mRNA, complete cds.
Cooley L., Verheyen E., Caverly K.;
Unpublished. M84528-M84529

C. elegans DNA for 3' UTR of sex-determining gene fem-3
Ahringer J., Kimble J.;
Nature 349:346-349(1991). X57657

D. melanogaster crn mRNA
Zhang K., Smouse D., Perrimon N.;
Genes Dev. 5:1080-1091(1991). X58374

Caenorhabditis elegans zinc finger protein (sdc-3) gene, complete
cds.
Klein R.D., Meyer B.J.;
Unpublished. M85149

Fruitfly DM10, DM17, DM23, DM33, DM36, DM63, DM64 genes, 5'
end.
Picardo A.M., Mueller U., Harry J.L., Uwanogho D., Sharpe
P.T.;
Unpublished. M86328-M86334

Dictyostelium discoideum clathrin heavy chain (chcA) mRNA,
complete cds.
O'Halloran T.J., Anderson R.G.;
Unpublished. M83660

Drosophila melanogaster developmental escargot-encoded protein
gene, complete cds.
Whiteley M.H., Noguchi P.D., Sensabaugh S.M., Odenwald W.,
Kassis J.A.;
Unpublished. M83207

- Drosophila melanogaster* fat protein (fat) gene, complete cds.
Mahoney P.A., Weber U.M., Onofrechuk P., Biessmann H.,
Bryant P.J., Goodman C.S.;
Cell 67:853–868(1991). M80537
- D.melanogaster* transposable element HeT-A2,HeT-A1,HeT-A4-4,HeT-A-RT473,HeT-A-RT394 gene sequences.
Biessmann H., Valgeirsdottir K., Lofsky A., Chin C., Ginther B.,
Levis R.W., Pardue M.L.;
Unpublished. M84197–M84201
- D.melanogaster* satellite repeat DNA sequence.
Abad J., Carmena M., Baars S., Saunders R., Glover D.M.,
Sentis C., Tyler-Smith C., Villasante A.;
Unpublished. M86306–M86309
- Drosophila melanogaster* scalloped protein mRNA, complete cds
Campbell S.D., Inamdar M., Rodrigues V., VijayRaghavan K.,
Palazzolo M., Chovnick A.;
Unpublished. M83787
- Drosophila melanogaster* son of sevenless (Sos) mRNA, complete cds.
Banerjee U.;
Unpublished. M83931
- D.pseudoobscura* bcd (bicoid) gene involved in anterior positional specification during embryogenesis
Seeger M.A., Kaufman T.C.;
EMBO J. 9:2977–2987(1990). X55735
- Entamoeba* heat shock protein (Hsp70) mRNA, complete cds.
Duchene M., Ortner S., Plaimauer B., Binder M., Wiedermann G., Scheiner O.;
Unpublished. M84652
- Entamoeba histolytica* genomic sequence.
Li E., Stanley S.L.Jr., Burch D.J.;
Unpublished. M84216
- H.contortus* beta tubulin (tub12-16,tub12-164,tub8-9) mRNA, complete cds.
Geary T.G., Nulf S.C., Faureau M.A., Tang L., Prichard R.K.,
Hatzenbuehler N.T., Shea M.H., Alexander S.J., Klein R.D.;
Unpublished. M76491–M76493
- H.contortus* ADP:D-fructose-6-phosphate 1-phosphotransferase (PFK) mRNA, complete cds.
Klein R.D., Faureau M.A., Winterrowd C.A., Hatzenbuehler N.T.,
Shea M.H., Nulf S.C., Geary T.G., Olson E.R.;
Mol. Biochem. Parasitol. 48:17–26(1990). M59805
- Hydra magnipapillata* heat shock protein 70.1 (hsp70.1) gene, partial cds.
Gellner K., Praetzel G., Bosch T.C.;
Unpublished. M84019
- Hydra oligactis* heat shock protein 70.1 (hsp70.1) gene, partial cds.
Gellner K., Praetzel G., Bosch T.C.;
Unpublished. M84018
- Hydra vulgaris* annexin XII mRNA, complete cds
Schlaepfer D.D., Fisher D.A., Brandt M.E., Bode H.R., Jones J.M., Haigler H.T.;
Unpublished. M83736
- Leishmania major* fl1.1 protein mRNA, complete cds.
Brodin T.N.;
Unpublished. M64672
- L.tarentolae* small subunit rRNA gene.
Briones M.R., Nelson K., Beverley S.M., Affonso H.T., Camargo E.P., Floeter-Winter L.M.;
Unpublished. M84225
- N.vitripennis* repetitive DNA from B chromosome
Eickbush D.G., Eickbush T.H., Werren J.H.;
Unpublished. X64089–X64096
- Pseudoterranova decipiens* (frameshift mutated) hemoglobin mRNA, complete cds.
Dixon B., Walker B., Kimmins W., Pohajdak B.;
Unpublished. M85050
- Plasmodium falciparum* membrane-associated calcium-binding protein (Pfs40) gene, complete cds.
Rawlings D.J., Kaslow D.C.;
Unpublished. M77834
- Plasmodium falciparum* circumsporozoite gene, partial cds.
Doolan D.L., Saul A.J., Good M.F.;
Unpublished. M77202–M77205
- P.falciparum* Pr86 rhoptry precursor protein (HP82) gene, complete cds.
Ridley R.G., Takacs B., Lahm H.W., Delves C.J., Goman M., Certa V., Matile H., Woollett G.R., Scaife J.G.;
Mol. Biochem. Parasitol. 41:125–134(1990). M80807
- Plasmodium reichenowi* sporozoite antigen gene, complete cds.
Moelans I., Lal A.A., Konings R.N., Schoenmakers J.G.;
Unpublished. M75444
- P.tritici* RNA for neurotoxin gene Tox-34
Tomalski M.D., Miller L.K.;
Nature 352:82–85(1991). X58372
- Schistosoma mansoni* epidermal growth factor receptor (SER, class 1 product) mRNA, complete cds.
Shoemaker C.B., Ramachandran H., Landa A., dos Reis M.G., Stein L.;
Unpublished. M86396
- Schistosoma mansoni* epidermal growth factor receptor (SER, alternative splice class 2 product) mRNA, complete cds.
Shoemaker C.B., Ramachandran H., Landa A., dos Reis M.G., Stein L.;
Unpublished. M86397
- Schistosoma mansoni* epidermal growth factor receptor (SER, alternative splice class 4 product) mRNA, complete cds.
Shoemaker C.B., Ramachandran H., Landa A., dos Reis M.G., Stein L.;
Unpublished. M86398
- Schistosoma mansoni* epidermal growth factor receptor (SER, alternate splice class 5 product) mRNA, complete cds.
Shoemaker C.B., Ramachandran H., Landa A., dos Reis M.G., Stein L.;
Unpublished. M86399
- Schistosoma mansoni* nucleoside monophosphate kinase mRNA, complete cds.
Cao M., Akridge R., Weston D., Kemp W.M., Doughty B.L.;
Unpublished. M80542
- Schistosoma mansoni* antennapedia-like homeodomain protein (smox-1) mRNA, partial cds.
Webster P.J., Mansour T.E.;
Unpublished. M85306

Schistosoma mansoni engrailed-like homeodomain protein (smox-2) mRNA, complete cds.
Webster P.J., Mansour T.E.;
Unpublished. M85305

Schistosoma mansoni paired-like homeodomain protein (smox-3) mRNA, partial cds.
Webster P.J., Mansour T.E.;
Unpublished. M85303

Schistosoma mansoni homeodomain protein (smox-4) gene, 3' end.
Webster P.J., Mansour T.E.;
Unpublished. M85302

Schistosoma mansoni homeodomain protein (smox-5) mRNA, complete cds.
Webster P.J., Mansour T.E.;
Unpublished. M85304

Schistosoma mansoni triose phosphate isomerase mRNA, complete cds.
Shoemaker C.B., Gross A., Gebremichael A., Harn D.;
Unpublished. M83294

S.purpuratus SpAN protein mRNA, complete cds.
Reynolds S.D., Angerer L.M., Palis J., Nasir A., Angerer R.C.;
Unpublished. M84144

Trypanosoma brucei expression site associated gene 1 homolog.
Graham S.V., Matthews K.R., Barry J.D.;
Unpublished. M84914

Trypanosoma cruzi cruzain protein gene, complete cds.
Eakin A.E., Mills A.A., Harth G., McKerrow J.H., Craik C.S.;
Unpublished. M84342

Tigriopus californicus histone H1 gene, complete cds; histone H3 gene, complete cds; histone H4 gene, complete cds; histone H2B-1 gene, complete cds; and histone H2A gene, complete cds.
Brown D., Cook A., Wagner M., Wells D.;
Unpublished. M84797

Tigriopus californicus histone H2B-2 gene, complete cds.
Brown D., Cook A., Wagner M., Wells D.;
Unpublished. M84798

Tigriopus californicus histone H2B-3 gene, complete cds.
Brown D., Cook A., Wagner M., Wells D.;
Unpublished. M84799

T.molitor D1 protein mRNA, complete cds.
Paesen G.C., Weyda F., Happ G.M.;
Unpublished. M83942

T.molitor D2 protein mRNA, complete cds.
Paesen G.C., Weyda F., Happ G.M.;
Unpublished. M83943

T.pyriformis TUF11 gene for ubiquitin
Neves A.M., Guerreiro P., Miquerol L., Rodriguez Pousada C.;
Unpublished. X61054

Tetrahymena thermophila micronucleus limited C4A2D gene.
Tsao N.N., Tsao S.G., Pearlman R.E.;
Unpublished. M81690

Wuchereria bancrofti ribosomal protein S15 gene, complete cds.
Ellenberger D.L., Pieniazek N.J., Mian I.S., Eberhard M.L., Lammie P.J.;
Unpublished. M86642

PLANTS:

A.artemisiifolia Amb a V mRNA, putative cds.
Ghosh B., Perry M.P., Marsh D.G.;
Unpublished. M84987

Allium sativum II lectin (ASAI1) mRNA, 3' end.
Van Damme E., Leuven K.U.;
Unpublished. M85171

Allium sativum II lectin (ASAI2) mRNA, 3' end.
Van Damme E., Leuven K.U.;
Unpublished. M85172

Allium sativum II lectin (ASAI3) mRNA, 3' end.
Van Damme E., Leuven K.U.;
Unpublished. M85173

Allium sativum I lectin (LECASAI1) mRNA, 3' end.
Van Damme E., Leuven K.U.;
Unpublished. M85174

Allium sativum I lectin (LECASAI2) mRNA, 3' end.
Van Damme E., Leuven K.U.;
Unpublished. M85175

Allium sativum I lectin (LECASAI3) mRNA, 3' end.
Van Damme E., Leuven K.U.;
Unpublished. M85176

Allium sativum I lectin (LECASAI4) mRNA, 3' end.
Van Damme E., Leuven K.U.;
Unpublished. M85177

A.thaliana DNA for acyl carrier protein (ACP) gene A1
Lamppa G., Jacks C.;
Plant Mol. Biol. 16:469-474(1991). X57698

A.thaliana DNA for acyl carrier protein (ACP) gene A2
Lamppa G., Jacks C.;
Plant Mol. Biol. 16:469-474(1991). X57699

A.thaliana homeotic flower (APETELA3) mRNA, complete cds.
Jack T., Brockman L., Meyerowitz E.M.;
Unpublished. M86357

A.thaliana gene for tonoplast intrinsic protein alpha-TIP(Ara)
Hofte H.R.;
Unpublished. X63551

A.thaliana mRNA for catalase
Chevalier C., Yamaguchi J., McCourt P.;
Unpublished. X64271

Arabidopsis thaliana receptor kinase (Ark1) gene, exons 1-7.
Tobias C.M., Howlett B., Nasrallah J.B.;
Unpublished. M80238

A.thaliana gene for tonoplast intrinsic protein gamma-TIP(Ara)
Hofte H.R.;
Unpublished. X63552

A.thaliana protein kinase (cdc2) mRNA, complete cds.
Ferreira P.C., Hemerly A.S., Villarreal R., Van Montagu M., Inze D.;
Unpublished. M59198

- Arabidopsis thaliana* pyrroline carboxylate reductase gene, complete cds.
Verbruggen N., Villarroel R., Van Montagu M.;
Unpublished. M76538
- A.thaliana* receptor-like protein kinase mRNA, complete cds
Walker J.C.;
Unpublished. M84658–M84660
- A.thaliana* topoisomerase II (top2) gene, partial cds.
Gerhold D., Parsons A., Hadwiger L.A.;
Unpublished. M84654
- B.napus* ACP05 gene for acyl carrier protein
De Silva J., Loader N.M., Jarman C., Windust J.H.C., Hughes S.G., Safford R.;
Plant Mol. Biol. 14:537–548(1990). X64114
- B.napus* ATPase subunit 6 (atp6) gene, complete cds.
Singh M.M., Brown G.G.;
Unpublished. M83332
- B.napus* ATPase subunit 6 gene, complete cds.
Singh M.M., Brown G.G.;
Unpublished. M83334
- C.reinhardtii* carbonic anhydrase (CAH2) gene, complete cds.
Fukuzawa H., Fujiwara S., Tachiki A., Miyachi S.;
Nucleic Acids Res. 18:6441–6442(1990). D90207
- C.veinhardtii* 70kDa heat shock protein (hsp70) gene, complete cds.
Mueller F.W., Igloi G.L., Beck C.F.;
Unpublished. M76725
- Flaveria chloraefolia* flavonol 3-sulfotransferase mRNA, complete cds.
Varin L., Deluca V., Ibrahim R.K., Brisson N.;
Unpublished. M84135
- Flaveria chloraefolia* flavonol 4'-sulfotransferase mRNA, complete cds.
Varin L., Deluca V., Ibrahim R.K., Brisson N.;
Unpublished. M84136
- Gossypium hirsutum* 2S albumin storage protein mRNA, complete cds.
Galau G.A., Wang H.Y.C., Hughes D.W.;
Unpublished. M83301
- Gossypium hirsutum* DNA fragment.
Galau G.A., Close T.J.;
Unpublished. M81791
- G.hirsutum* water-stress protectant protein (LeaA2-A) mRNA, complete cds.
Galau G.A., Wang H.Y.C., Hughes D.W.;
Unpublished. M83303
- G.hirsutum* late embryogenesis-abundant protein 2-D (LeaA2-D) mRNA, complete cds.
Galau G.A., Wang H.Y.C., Hughes D.W.;
Unpublished. M83304
- Cotton 2S albumin storage protein (Mat5-A) gene, complete cds.
Galau G.A., Wang H.Y.C., Hughes D.W.;
Unpublished. M86213
- Hydrodictyon reticulatum* 18S ribosomal RNA, complete.
Wilcox L.W., Lewis L.A., Fuerst P.A., Floyd G.L.;
Unpublished. M74497
- Barley mRNA for aspartic proteinase.
Runeberg-Roos P., Toermaekangas K., Oestman A.;
Eur. J. Biochem. 202:1021–1027(1991). X56136
- H.vulgare* peroxidase BP 2A (Prx6) gene, complete cds.
Theilade B., Rasmussen S.K.;
Unpublished. M83671
- Hordeum vulgare* seed imbibition protein (Sip1) gene, complete cds.
Heck G.R., Dorsett C., Ho T.H.;
Unpublished. M77475
- L.angustifolius* gene for developing seed L-asparaginase
Reynolds Hs P.;
Unpublished. X60691
- L.esculentum* acid phosphatase-1 gene, complete cds.
Erion J.L., Ballo B., Fox T.W., May L.;
Unpublished. M83211
- L.esculentum* DNA for CAB11 gene
Schwartz E., Shen D., Aebersold R., McGrath J.M., Pichersky E., Green B.R.;
FEBS Lett. 280:229–234(1991). X57706
- L.esculentum* DNA for Cab12 gene
Schwartz E., Shen D., Aebersold R., McGrath J.M., Pichersky E., Green B.R.;
FEBS Lett. 280:229–234(1991). X57707
- Tomato 3-hydroxy-3-methyl glutaryl coenzyme A reductase (hmg2) gene, complete cds.
Yang Z., Park H.S., Lacy G.H., Cramer C.L.;
Plant Cell 3:397–409(1991). M63642
- Lycopersicon esculentum* mRNA.
Yip W.K., Moore T., Yang S.F.;
Unpublished. M83318
- L.perenne* RNA for Lol pl gene
Griffith I.J., Smith P.M., Pollock J., Theerakulpisut P., Avjioglu A., Davies S., Hough T., Singh M.B., Simpson R.J., Ward L.D., Knox R.B.;
FEBS Lett. 279:210–215(1991). X57678
- Medicago sativa* environmental stress-induced protein mRNA, 3' end.
Luo M., Mohapatra S., Hill R.;
Unpublished. M74190–M74191
- Medicago sativa* environmental stress-inducible protein mRNA,
Luo M., Mohapatra S., Hill R.;
Unpublished. M74189
- Alfalfa putative endomembrane protein mRNA, complete cds.
Shorosh B.S., Dixon R.A.;
Proc. Natl. Acad. Sci. U.S.A. 88:10941–10950(1991). M82973
- M.sativa* 26S rRNA
Shorosh B.;
Unpublished. Z11498
- Nicotiana tabacum* osmotin-like protein (OLP1) mRNA, complete cds.
Takeda S., Sato F., Ida K., Yamada Y.;
Plant Physiol. 97:844–846(1991). M64081

Tobacco phenylalanine ammonialyase (tpa1) gene, complete cds.
Fukasawa-Akada T.;
Unpublished. M84466

O. regalis 5.8S rRNA
Melekhovets Y.P.;
Unpublished. X63199

O. sativa DNA for phyB1 gene
Dehesh K., Tepperman J., Christensen A.H., Quail P.H.;
Mol. Gen. Genet. 225:305–313(1991). X57563

P. sativum DNA for 5' flanking region of legumin gene LegA1
Rerie W.G., Whitecross M., Higgins T.J.V.;
Mol. Gen. Genet. 225:148–157(1991). X57665

P. sativum DNA for 5' flanking region of legumin gene LegA2
Rerie W.G., Whitecross M., Higgins T.J.V.;
Mol. Gen. Genet. 225:148–157(1991). X57666

P. sativum DNA for 5' flanking region of fed-1 gene
Pedersen T.J., Arwood L.J., Spiker S., Guiltman M.J., Thompson W.F.;
Plant Mol. Biol. 16:95–104(1991). X58024

P. vulgaris PVPR3 protein mRNA, complete cds.
Sharma Y.K., Hinojos C.M., Mehdy M.C.;
Unpublished. M75856

S. cereale beta-amy-1 mRNA for alpha-d-maltose
Rorat T., Sadowski J., Grellet F., Daussant J., Delseny M.;
Theor. Appl. Genet. 83:257–363(1991). X56785

S. cereale DNA for dispersed repeat sequence
(R173-1, R173-2, R173-3, R173-4)
Rogowosky P., Liu J.Y., Manning S., Taylor C., Langridge P.;
Unpublished. X64100–X64103

S. oleracea ferredoxin-NADP oxidoreductase mRNA, complete cds.
Alter J.M., Patrie W.J.;
Unpublished. M86349

S. tuberosum waxy gene for starch synthase
Rohde W., Becker D., Kull B., Salamini F.;
J. Gen. and Breed. 44:311–315(1990). X52416–X52417

Z. mays 27kDa zein locus DNA
Das P.O., Ward K., Ray S., Messing J.;
Genomics 11:849–856(1991). X56117–X56118

Zea mays ribosome-inactivating protein (CRIP3) mRNA, complete cds.
Bass H.W., Webster C., O'Brian G.R., Roberts J.K., Boston R.S.;
Unpublished. M83926

Zea mays ribosome-inactivating protein (CRIP9) mRNA, complete cds.
Bass H.W., Webster C., O'Brian G.R., Roberts J.K., Boston R.S.;
Unpublished. M83927

FUNGI:

Ascosphaera apis 18S ribosomal RNA.
Berbee M.L., Taylor J.W.;
Unpublished. M83264

Aspergillus fumigatus major allergen I (Aspf1) gene, complete cds.
Arruda L., Platts-Mills T.A., Fox J.W., Chapman M.D.;
J. Exp. Med. 172:1529–1532(1990). M83781

Blastocladiella emersonii cAMP-dependent protein kinase regulatory subunit mRNA, complete cds.
Marques M.V., Gomes S.L.;
Unpublished. M81714

Blastocladiella emersonii cAMP-dependent protein kinase catalytic subunit mRNA, complete cds.
Borges A.C., Oliveira J.F., Marques M.V., Gomes S.L.;
Unpublished. M81709

Byssochlamys nivea 18S ribosomal RNA.
Berbee M.L., Taylor J.W.;
Unpublished. M83256

Candida albicans secreted aspartyl proteinase gene, complete cds.
Wright R.J., Carne A., Hieber A.D., Lamont I.L., Emerson G.W., Sullivan P.A.;
Unpublished. M83663

C. albicans species-specific probe
Manavathu E.K.;
Unpublished. X62496

Chaetomium elatum 18S ribosomal RNA.
Berbee M.L., Taylor J.W.;
Unpublished. M83257

Coccidioides immitis wall-associated proteinase gene, complete cds.
Cole G.T., Zhu S., Hsu L., Kruse D., Seshan K.R., Wang F.;
Unpublished. M81863

D. iridis LSU rRNA gene
Johansen S., Johansen T., Haugli F.;
Unpublished. X60210

Eremascus albus 18S ribosomal RNA.
Berbee M.L., Taylor J.W.;
Unpublished. M83258

Emericella nidulans phosphomannose isomerase (manA) gene, complete cds.
Smith D.J.;
Unpublished. M85239

Fusarium acuminatum large subunit rRNA, partial.
Logrieco A., Peterson S.W., Mirocha C.J., Bottalico A., Abbas H.K.;
Unpublished. M68940

Fusarium sporotrichioides large subunit ribosomal RNA, partial.
Logrieco A., Bottalico A., Peterson S.W., Evidente A., Mule G.;
Unpublished. M85202

Kluyveromyces lactis galactokinase (GAL1) gene, complete cds.
Meyer J., Walker-Jonah A., Hollenberg C.P.;
Unpublished. M74508

Leucostoma persoonii 18S ribosomal RNA.
Berbee M.L., Taylor J.W.;
Unpublished. M83259

Monascus purpureus 18S ribosomal RNA.
Berbee M.L., Taylor J.W.;
Unpublished. M83260

N. crassa mitochondrial citrate synthase (cit1) gene, complete cds.
Bowman B.J., Ferea T.;
Unpublished. M84187

- N.crassa* alpha-keto-beta-hydroxylacyl reductoisomerase (*ilv2*) gene, complete cds.
Bowman B.J., Sista H.;
Unpublished. M84189
- Neurospora crassa* mitochondrial outer membrane protein 19 (*MOM19*) gene, complete cds.
Schneider H., Soellner T., Dietmeier N., Eckerskorn C., Lottspeich F., Trueisch B., Neupert W., Pfanner K.;
Science 254:1659–1662(1991). M80528
- N.crassa* serine hydroxymethyltransferase gene, complete cds.
McClung C.R., Davis C.R., Page K.M., Denome S.A.;
Unpublished. M81918
- Neocallimastix* sp. 18S ribosomal RNA gene, partial.
Bowman B.H., Taylor J.W., Brownlee A.G., Lee J., Lu S.D., White T.J.;
Unpublished. M59761
- Ophiostoma ulmi* 18S ribosomal RNA.
Berbee M.L., Taylor J.W.;
Unpublished. M83261
- P.polycephalum* 26S rRNA
Johansen S.;
DNA Sequence 2:193–196(1991). X60211
- S.cerevisiae* *BUD5* protein gene, complete cds.
Chant J., Corrado K., Pringle J., Herskowitz I.;
Unpublished. M63552
- Yeast (*BUD5*) gene, complete cds.
Powers S., Gonzales E., Christensen T., Cubert J., Broek D.;
Cell 65:1225–1231(1991). M68938
- S.cerevisiae* *crt1* gene, complete cds.
Liu Y., Gu K., Dieckmann C.L.;
Unpublished. M86538
- Saccharomyces cerevisiae* dihydroorotic acid dehydrogenase (*URA1*) gene, complete cds.
Roy A.;
Unpublished. M83295
- Saccharomyces cerevisiae* squalene epoxidase (*ERG1*) gene, complete cds.
Hoegenauer G., Turnowsky F., Jandrositz A.;
Gene 107:155–160(1991). M64994
- Saccharomyces cerevisiae* C-8 sterol isomerase (*ERG2*) gene, complete cds.
Arthington B.A., Hoskins J.A., Skatrud P.L., Bard M.;
Gene 107:173–174(1991). M74037
- S.cerevisiae* C-5 sterol desaturase (*erg3*) gene, complete cds.
Arthington B.A., Bennet L.G., Skatrud P.L., Barbuch R.J., Bard M., Gynn C., Ulbright C.E.;
Gene 107:39–44(1991). M62623
- Saccharomyces cerevisiae* 1,4-glucan-6-(1,4-glucano)-transferase (*GLC3*) gene, complete cds.
Thon V.J., Vigneron-Lesens C., Marianne-Pepin T., Montreuil J., Decq A., Rachez C., Ball S.G., Cannon J.F.;
Unpublished. M76739
- S.cerevisiae* meiosis-specific protein (*MEI4*) mRNA sequence.
Menees T.M., Ross-Macdonald P.B., Roeder S.;
Unpublished. M84764–M84765
- S.cerevisiae* multifunctional beta-oxidation protein (*FOX2*) mRNA, complete cds.
Hiltunen J., Wenzel B., Beyer A., Erdmann R., Kunau W.H.;
Unpublished. M86456
- S.cerevisiae* homologue of bacterial MutS protein (*MSH1*) gene, complete cds.
Kolodner R.D., Reenan R.A.;
Unpublished. M84169
- S.cerevisiae* homologue of bacterial MutS protein (*MSH2*) gene, complete cds.
Kolodner R.D., Reenan R.A.;
Unpublished. M84170
- Saccharomyces cerevisiae* phosphomannose isomerase (*PMI40*) gene, complete cds.
Smith D.J.;
Unpublished. M85238
- S.cerevisiae* *PKX2* (*CDC5*) protein kinase gene, complete cds.
Kitada K., Sugino A.;
Unpublished. M84220
- Saccharomyces cerevisiae* gamma-glutamyl kinase (*PRO1*) gene, DNA sequence.
Li W., Brandriss M.C.;
Unpublished. M85293
- S.cerevisiae* DNA for *PRP22* gene
Company M., Arenas J., Abelson J.;
Nature 349:487–540(1991). X58681
- S.cerevisiae* *RAD51* gene
Aboussekhra A., Chanet R., Adjiri A., Fabre F.;
Unpublished. X64270
- S.cerevisiae* *RPC53* gene for RNA polymerase C subunit 4
Chiannilulchai N.;
Unpublished. X63501
- Saccharomyces cerevisiae* L-serine/L-threonine dehydratase (*CHA1*) gene, complete cds.
Bornaes C., Holmberg S., Petersen J.G.;
Unpublished. M85194
- Saccharomyces cerevisiae* protein kinase homologue (*SLK1*) gene,
Costigan C., Gehrung S., Snyder M.P.;
Unpublished. M84389
- Saccharomyces cerevisiae* *STH1* gene, complete cds.
Laurent B.C., Yang X., Carlson M.;
Unpublished. M83755
- S.pombe* DNA for *cox11*
Schaefer B., Merlos-Lange A.M., Anderl C., Welser F., Zimmer M., Wolf K.;
Mol. Gen. Genet. 225:158–167(1991). X57664
- Schizosaccharomyces pombe* glutathione synthetase large subunit gene, complete cds.
Mutoh N., Nakagawa C.W., Ando S., Tanabe K., Hayashi Y.;
Unpublished. M85179
- Spongipellis unicolor* 18S ribosomal RNA gene, partial.
Bowman B.H., Taylor J.W., Brownlee A.G., Lee J., Lu S.D., White T.J.;
Unpublished. M59760

Thermoascus crustaceus 18S ribosomal RNA.
Berbee M.L., Taylor J.W.;
Unpublished. M83263

Talaromyces flavus 18S ribosomal RNA.
Berbee M.L., Taylor J.W.;
Unpublished. M83262

ORGANELLES:

A.drummondii chloroplast ribulose-1,5-bisphosphate
carboxylase/oxygenase large subunit, gene
Manhart J.R., Hugh J.H., Wilson D.;
Unpublished. M83541

A.incana chloroplast tRNA-Ala-tgc (trnA) and tRNA-Ile-gta (trnI)
genes, complete cds.
Hattori D.A., Miki B.;
Unpublished. M76450

Alnus incana chloroplast transfer RNA-Ala and Ile gene.
Johnson D.A., Hattori J., Miki B.;
Unpublished. M77231

A.procera chloroplast ribulose-1,5-bisphosphate
carboxylase/oxygenase large subunit (rbcL) gene, complete cds.
Rettig J.H., Wilson H.D., Manhart J.R.;
Unpublished. M62563

C.glomeratum chloroplast ribulose-1,5-bisphosphate
carboxylase/oxygenase large subunit, gene
Manhart J.R., Hugh J.H., Wilson D.;
Unpublished. M83542

Caryota mitis chloroplast ribulosebisphosphate carboxylase (rbcL),
complete cds.
Gaut B.S., Muse S.V., Clark W.D., Clegg M.T.;
Unpublished. M81811

Cryptomonas phi heat shock 70 protein (ctp70) histone-like protein
(hcfC) and acyl carrier protein (acpC) genes, complete cds.
Wang S., Liu X.Q.;
Proc. Natl. Acad. Sci. U.S.A. 88:10783–10787(1991). M76547

Calamus usitatus chloroplast ribulosebisphosphate carboxylase
(rbcL) gene, 5' end.
Wilson M.A., Gaut B.S., Clegg M.T.;
Mol. Biol. Evol. 7:303–314(1990). M81810

Drymopnlaeus subdisticha chloroplast ribulosebisphosphate
carboxylase (rbcL) gene, 5' end.
Gaut B.S., Muse S.V., Clark W.D., Clegg M.T.;
Unpublished. M81812

P.excelsa chloroplast 5S rDNA
Melekhovets Y.P.;
Unpublished. X63200

Pennisetum glaucum chloroplast Val-tRNA gene.
Learn G.H., Shore J.S., Furnier G.R., Zurawski G.R., Clegg
M.T.;
Unpublished. M81925

Pisum sativum chloroplast Val-tRNA gene.
Learn G.H., Shore J.S., Furnier G.R., Zurawski G.R., Clegg
M.T.;
Unpublished. M81924

R.humilis chloroplast ribulose-1,5-bisphosphate
carboxylase/oxygenase large subunit (rbcL) gene, complete cds.
Rettig J.H., Wilson H.D., Manhart J.R.;
Unpublished. M62569

S.gallica chloroplast ribulose-1,5-bisphosphate
carboxylase/oxygenase large subunit, gene
Manhart J.R., Hugh J.H., Wilson D.;
Unpublished. M83544

S.halimifolium chloroplast ribulose-1,5-bisphosphate
carboxylase/oxygenase large subunit (rbcL) gene, complete cds.
Rettig J.H., Wilson H.D., Manhart J.R.;
Unpublished. M62571

Serenoa repens ribulosebisphosphate carboxylase (rbcL) gene, 5'
end.
Wilson M.A., Gaut B.S., Clegg M.T.;
Mol. Biol. Evol. 7:303–314(1990). M81815

S.truncata chloroplast ribulose-1,5-bisphosphate
carboxylase/oxygenase large subunit, gene
Manhart J.R., Hugh J.H., Wilson D.;
Unpublished. M83543

L.mexicana kinetoplast minicircle DNA
Lee T., Tarn T., Sheing Yih Y., kwang Poo P.;
Nucleic Acids Res. 0:0–0(1991). Z11549-Z11556

Ameiva auberi mitochondrial cytochrome b gene.
Hedges S.B., Bezy R.L., Maxson L.R.;
Mol. Biol. Evol. 8:767–780(1991). M65117

Ameiva auberi mitochondrial 12S ribosomal RNA gene.
Hedges S.B., Bezy R.L., Maxson L.R.;
Mol. Biol. Evol. 8:767–780(1991). M65110

Aepeyceros melampus mitochondrial 12S and 16S ribosomal RNA
genes, and Phe-, Val-, and Leu-tRNA genes.
Allard M.W., Miyamoto M.M., Jarecki L., Kraus F., Tennant
M.R.;
Unpublished. M86496

Anguilla rostrata Mitochondrin cytochrome b gene, 5' end.
Esposti M., Ghelli A., Crimi M., Baracca A., Solaini G., Tron
T., Meyer A.;
Unpublished. M85080

Brachyphylla cavernarum mitochondrion cytochrome oxidase I
gene, partial cds.
Mindell D.P., Dick C.W., Baker R.J.;
Proc. Natl. Acad. Sci. U.S.A. 88:10322–10326(1991). M81134

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Proc. Natl. Acad. Sci. U.S.A. 88:10322–10326(1991). M81136

Brachyphyllum cavernarum mitochondrion 12S rRNA gene.
Mindell D.P., Dick C.W., Baker R.J.;
Proc. Natl. Acad. Sci. U.S.A. 88:10322–10326(1991). M81137

Boselaphus tragocamelus mitochondrial 12S and 16S ribosomal
RNA genes, and Phe-, Val-, and Leu-tRNA genes.
Allard M.W., Miyamoto M.M., Jarecki L., Kraus F., Tennant
M.R.;
Unpublished. M86494

- Cephalophus maxwelli mitochondrial 12S and 16S ribosomal RNA genes, and Phe-, Val-, and Leu-tRNA genes.
Allard M.W., Miyamoto M.M., Jarecki L., Kraus F., Tennant M.R.;
Unpublished. M86498
- Cricosaura typica mitochondrial cytochrome b gene.
Hedges S.B., Bezy R.L., Maxson L.R.;
Mol. Biol. Evol. 8:767–780(1991). M65118
- Cricosaura typica mitochondrial 12S ribosomal RNA gene.
Hedges S.B., Bezy R.L., Maxson L.R.;
Mol. Biol. Evol. 8:767–780(1991). M65111
- Damaliscus dorcas mitochondrial 12S and 16S ribosomal RNA genes, and Phe-, Val-, and Leu-tRNA genes.
Allard M.W., Miyamoto M.M., Jarecki L., Kraus F., Tennant M.R.;
Unpublished. M86499
- Echinococcus granulosus mitochondrion DNA sequence.
Bowles J., Blair D., McManus D.P.;
Unpublished. M84661–M84667
- Echinococcus multilocularis mitochondrion DNA sequence.
Bowles J., Blair D., McManus D.P.;
Unpublished. M84668–M84669
- Echinococcus oligarthrus mitochondrion DNA sequence.
Bowles J., Blair D., McManus D.P.;
Unpublished. M84671
- Echinococcus vogeli mitochondrion DNA sequence.
Bowles J., Blair D., McManus D.P.;
Unpublished. M84670
- Gazella thomsoni mitochondrial 12S and 16S ribosomal RNA genes, and Phe-, Val-, and Leu-tRNA genes.
Allard M.W., Miyamoto M.M., Jarecki L., Kraus F., Tennant M.R.;
Unpublished. M86501
- Kobus ellipsiprymnus mitochondrial 12S and 16S ribosomal RNA genes, and Phe-, Val-, and Leu-tRNA genes.
Allard M.W., Miyamoto M.M., Jarecki L., Kraus F., Tennant M.R.;
Unpublished. M86497
- Lepidophyma smithii mitochondrial cytochrome b gene.
Hedges S.B., Bezy R.L., Maxson L.R.;
Mol. Biol. Evol. 8:767–780(1991). M65119
- Lepidophyma smithii mitochondrial 12S ribosomal RNA gene.
Hedges S.B., Bezy R.L., Maxson L.R.;
Mol. Biol. Evol. 8:767–780(1991). M65112
- Mus cervicolor mitochondrion DNA sequence.
She J., Wakeland E.K., Demarais E., Bonhomme F.;
Unpublished. M77099,M77109,M77117
- Mus caroli mitochondrion DNA sequence.
She J., Wakeland E.K., Demarais E., Bonhomme F.;
Unpublished. M77100,M77110,M77118
- Mus cookii mitochondrion DNA sequence.
She J., Wakeland E.K., Demarais E., Bonhomme F.;
Unpublished. M77098,M77108,M77116
- Madoqua kirki mitochondrial 12S and 16S ribosomal RNA genes, and Phe-, Val-, and Leu-tRNA genes.
Allard M.W., Miyamoto M.M., Jarecki L., Kraus F., Tennant M.R.;
Unpublished. M86495
- Macaca mulatta mitochondrial cytochrome oxidase III gene,
Chandrasekaran K.;
Unpublished. M85148
- Mus macedonicus mitochondrion DNA sequence.
She J., Wakeland E.K., Demarais E., Bonhomme F.;
Unpublished. M77112
- Mus musculus mitochondrion DNA sequence.
She J., Wakeland E.K., Demarais E., Bonhomme F.;
Unpublished. M77097
- Mus musculus musculus mitochondrion DNA sequence.
She J., Wakeland E.K., Demarais E., Bonhomme F.;
Unpublished. M77101
- Mus platythrix mitochondrion DNA sequence.
She J., Wakeland E.K., Demarais E., Bonhomme F.;
Unpublished. M77104
- Mus pahari mitochondrion DNA sequence.
She J., Wakeland E.K., Demarais E., Bonhomme F.;
Unpublished. M77103
- Mus spretus mitochondrion DNA sequence.
She J., Wakeland E.K., Demarais E., Bonhomme F.;
Unpublished. M77105,M77111,M77119
- Mus spicilegus mitochondrion DNA sequence.
She J., Wakeland E.K., Demarais E., Bonhomme F.;
Unpublished. M77107,M77113,M77115
- Mus setulosus mitochondrion DNA sequence.
She J., Wakeland E.K., Demarais E., Bonhomme F.;
Unpublished. M77102
- Neurospora intermedia mitochondrial DNA with a 1.6 kb insertion.
Nargang F.E., Pande S., Akins R.A., Kennell J.C., Lambowitz A.M.;
Unpublished. M76986
- Oryx gazella mitochondrial 12S and 16S ribosomal RNA genes, and Phe-, Val-, and Leu-tRNA genes.
Allard M.W., Miyamoto M.M., Jarecki L., Kraus F., Tennant M.R.;
Unpublished. M86500
- Pteropus capestratus mitochondrion cytochrome oxidase I gene, partial cds.
Mindell D.P., Dick C.W., Baker R.J.;
Proc. Natl. Acad. Sci. U.S.A. 88:10322–10326(1991). M81135
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Mindell D.P., Dick C.W., Baker R.J.;
Proc. Natl. Acad. Sci. U.S.A. 88:10322–10326(1991). M81138–M81139
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Allard M.W., Miyamoto M.M., Jarecki L., Kraus F., Tennant M.R.;
Unpublished. M86493

Xantusia bolsonae mitochondrial cytochrome b gene.
Hedges S.B., Bezy R.L., Maxson L.R.;
Mol. Biol. Evol. 8:767–780(1991). M65120

Xantusia bolsonae mitochondrial 12S ribosomal RNA gene.
Hedges S.B., Bezy R.L., Maxson L.R.;
Mol. Biol. Evol. 8:767–780(1991). M65113

Xantusia henshawi mitochondrial cytochrome b gene.
Hedges S.B., Bezy R.L., Maxson L.R.;
Mol. Biol. Evol. 8:767–780(1991). M65121

Xantusia henshawi mitochondrial 12S ribosomal RNA gene.
Hedges S.B., Bezy R.L., Maxson L.R.;
Mol. Biol. Evol. 8:767–780(1991). M65114

Xantusia riversiana mitochondrial cytochrome b gene.
Hedges S.B., Bezy R.L., Maxson L.R.;
Mol. Biol. Evol. 8:767–780(1991). M65122

Xantusia riversiana mitochondrial 12S ribosomal RNA gene.
Hedges S.B., Bezy R.L., Maxson L.R.;
Mol. Biol. Evol. 8:767–780(1991). M65115

Xantusia vigilis mitochondrial cytochrome b gene.
Hedges S.B., Bezy R.L., Maxson L.R.;
Mol. Biol. Evol. 8:767–780(1991). M65123

Xantusia vigilis mitochondrial 12S ribosomal RNA gene.
Hedges S.B., Bezy R.L., Maxson L.R.;
Mol. Biol. Evol. 8:767–780(1991). M65116

PROKARYOTES:

Aeromonas hydrophila cytolytic enterotoxin gene, 5' end.
Chopra A.K., Houston C.W., Peterson J.W., Jin G.F.;
Unpublished. M84709

Aeromonas hydrophila 16S ribosomal RNA.
Woese C.R.;
Unpublished. M59148

Azospirillum lipoferum 16S ribosomal RNA.
Woese C.R.;
Unpublished. M59061

Acetomaculum ruminis 16S ribosomal RNA.
Woese C.R., Yang D., Mandelco L.;
Unpublished. M59083

Agrobacterium tumefaciens insertion element IS1131.
Wabiko H.;
Unpublished. M82888

A.tumefaciens insertion sequence IS426 DNA
Watson R., Wheatcroft R.;
DNA Sequence 2:163–172(1991). X56562

Azotobacter iron storage protein (bfr) gene, complete cds.
Grossman M.J., Hinton S.M., Minak-Bernero V., Slaughter C.,
Stiefel E.I.;
Unpublished. M83692

Antarcticum vesiculatum small subunit ribosomal RNA gene,
complete cds.
Irgens R.L., Woese C.R.;
Unpublished. M61002

Aerococcus viridans 16S ribosomal RNA.
Woese C.R., Yang D., Kandler O.;
Unpublished. M58797

Bacillus alcalophilus ATP synthase a and c subunit genes, complete
cds's.
Ivey D.M., Krulwich T.A.;
Unpublished. M84712

Brucella abortus heat shock protein (groES and groEL) genes,
complete cds.
Lin J., Adams L.G., Ficht T.A.;
Unpublished. M83930

Bifidobacterium adolescentis 16S ribosomal RNA.
Yang D., Woese C.R.;
Unpublished. M58729

Bifidobacterium pseudocatenulatum 16S ribosomal RNA, partial.
Frothingham R., Wilson K.H.;
Unpublished. M84785

B.brevis endo-beta-1,3-1,4-glucanase (bgiBB) gene, complete cds.
Reid S.J., Louw M.E., Watson T.;
Unpublished. M84339

Borrelia burgdorferi rRNA, complete.
Marconi R.T., Garon C.F., Lubke L., Hauglum W.;
Unpublished. M84815

Bdellovibrio bacteriovorus 16S ribosomal RNA.
Woese C.R.;
Unpublished. M59297

Bifidobacterium breve 16S ribosomal RNA, partial.
Frothingham R., Wilson K.H.;
Unpublished. M84776

Bifidobacterium bifidum 16S ribosomal RNA, partial.
Frothingham R., Wilson K.H.;
Unpublished. M84777

Borrelia burgdorferi small subunit ribosomal RNA sequence.
Paster B., Dewhirst F., Weisburg W., Mandelco L., Woese C.R.;
J. Bacteriol. 173:6101–6109(1991). M59293

Bacillus caldotenax proton glutamate symport protein (gltP) gene,
complete cds.
Tolner B., Poolman B., Konings W.N.;
Unpublished. M86509

Bifidobacterium catenulatum 16S ribosomal RNA.
Yang D., Woese C.R.;
Unpublished. M58732

Bifidobacterium coryneforme 16S ribosomal RNA.
Yang D., Woese C.R.;
Unpublished. M58733

Bifidobacterium cuniculi 16S ribosomal RNA.
Yang D., Woese C.R.;
Unpublished. M58734

Bifidobacterium dentium 16S ribosomal RNA.
Yang D., Woese C.R.;
Unpublished. M58735

- Bacillus firmus* ATP synthase a and c subunit genes, complete cds's.
Ivey D.M., Krulwich T.A.;
Unpublished. M84713
- Bifidobacterium globosum* 16S ribosomal RNA.
Yang D., Woese C.R.;
Unpublished. M58736
- Beijerinckia indica* ribosomal RNA small subunit.
Woese C.R.;
Unpublished. M59060
- Bifidobacterium indicum* 16S ribosomal RNA.
Yang D., Woese C.R.;
Unpublished. M58737
- Bifidobacterium longum* 16S ribosomal RNA, partial.
Frothingham R., Wilson K.H.;
Unpublished. M84781
- Bifidobacterium pseudolongum* 16S ribosomal RNA.
Yang D., Woese C.R.;
Unpublished. M58742
- B.subtillis* cad gene for lysine decarboxylase
Hemilae H., Koivula T., Paulin L.;
Unpublished. X58433
- Bacillus stearothermophilus* proton glutamate symport protein (gltP) gene, complete cds.
Tolner B., Poolman B., Konings W.N.;
Unpublished. M86508
- B.subtilis* ORF39, grpE, dnaK, and dnaJ genes, complete cds's.
Wetzstein M., Voelker U., Dedio J., Loebau S., Zuber U., Schiesswohl M., Herget C., Hecker M., Schumann W.;
Unpublished. M84964
- Bacillus subtilis* RNA polymerase sigma factor gene and DD-carboxypeptidase gene, complete cds.
Wu J.J., Schuch R.R., Piggot P.J.;
Unpublished. M85047
- Bifidobacterium suis* 16S ribosomal RNA.
Yang D., Woese C.R.;
Unpublished. M58743
- Bacillus thuringiensis* crystal protein gene, complete cds.
Brown K.L., Whiteley H.R.;
Unpublished. M76442
- Brochothrix thermosphacta* 16S ribosomal RNA.
Woese C.R., Yang D., Kandler O.;
Unpublished. M58798
- Bacteroides thetaiotaomicron* 16S ribosomal RNA.
Woese C.R.;
Unpublished. M58763
- Clostridium acidurici* 16S ribosomal RNA.
Woese C.R., Yang D., Mandelco L.;
Unpublished. M59084
- C.beijerinckii* NADP-dependent alcohol dehydrogenase gene, complete cds.
Rifaat M.M., Chen J.S.;
Unpublished. M84723
- Clostridium botulinum* type G 16S ribosomal RNA.
Woese C.R., Yang D., Mandelco L.;
Unpublished. M59087
- Clostridium butyricum* 16S ribosomal RNA.
Woese C.R., Yang D., Mandelco L.;
Unpublished. M59085
- C.crescentus* flilM genes, complete cds.
Yu J., Shapiro L.;
Unpublished. M85232
- Caulobacter crescentus* paracrystalline surface layer protein gene sequence.
Gilchrist A., Smit J.;
Unpublished. M84760
- Campylobacter coli* 16S ribosomal RNA.
Woese C.R.;
Unpublished. M59073
- Clostridium cochlearium* 16S ribosomal RNA.
Woese C.R., Yang D., Mandelco L.;
Unpublished. M59093
- Clostridium coccoides* 16S ribosomal RNA.
Woese C.R., Yang D., Mandelco L.;
Unpublished. M59090
- Clostridium clostridioforme* 16S ribosomal RNA.
Woese C.R., Yang D., Mandelco L.;
Unpublished. M59089
- Clostridium cadaveris* 16S ribosomal RNA.
Woese C.R., Yang D., Mandelco L.;
Unpublished. M59086
- Caulobacter crescentus* 16S ribosomal RNA, complete.
Stahl D.A., Key R., Flesher B., Smit J.;
Unpublished. M83798
- Caulobacter crescentus* 16S ribosomal RNA, complete.
Stahl D.A., Key R., Flesher B., Smit J.;
Unpublished. M83799
- Citrobacter freundii* 16S ribosomal RNA.
Woese C.R.;
Unpublished. M59291
- Clostridium fallax* 16S ribosomal RNA.
Woese C.R., Yang D., Mandelco L.;
Unpublished. M59088
- Cytophaga hutchinsonii* 16S ribosomal RNA.
Woese C.R.;
Unpublished. M58768
- Clostridium histolyticum* 16S ribosomal RNA.
Woese C.R., Yang D., Mandelco L.;
Unpublished. M59094
- Cytophaga johnsonae* 16S ribosomal RNA.
Woese C.R.;
Unpublished. M59051
- Clostridium kluyveri* 16S ribosomal RNA.
Woese C.R., Yang D., Mandelco L.;
Unpublished. M59092

- Clostridium limosum 16S ribosomal RNA.
Woese C.R., Yang D., Mandelco L.;
Unpublished. M59096
- Clostridium lituseburense 16S ribosomal RNA.
Woese C.R., Yang D., Mandelco L.;
Unpublished. M59107
- Cytophaga latercula 16S ribosomal RNA.
Woese C.R.;
Unpublished. M58769
- Clostridium ljungdahlii 16S ribosomal RNA.
Woese C.R., Yang D., Mandelco L.;
Unpublished. M59097
- Clostridium leptum 16S ribosomal RNA.
Woese C.R., Yang D., Mandelco L.;
Unpublished. M59095
- Clostridium malenominatum 16S ribosomal RNA.
Woese C.R., Yang D., Mandelco L.;
Unpublished. M59099
- Clostridium manganotii 16S ribosomal RNA.
Woese C.R., Yang D., Mandelco L.;
Unpublished. M59098
- Clostridium novyi 16S ribosomal RNA.
Woese C.R., Yang D., Mandelco L.;
Unpublished. M59100
- Clostridium oroticum 16S ribosomal RNA.
Woese C.R., Yang D., Mandelco L.;
Unpublished. M59109
- Clostridium oceanicum 16S ribosomal RNA.
Woese C.R., Yang D., Mandelco L.;
Unpublished. M59101
- Clostridium purinolyticum 16S ribosomal RNA.
Woese C.R., Yang D., Mandelco L.;
Unpublished. M60491
- Clostridium perfringens 16S ribosomal RNA.
Woese C.R., Yang D., Mandelco L.;
Unpublished. M59103
- Clostridium paraperfringens 16S ribosomal RNA.
Woese C.R., Yang D., Mandelco L.;
Unpublished. M59102
- Clostridium quercicolum 16S ribosomal RNA.
Woese C.R., Yang D., Mandelco L.;
Unpublished. M59110
- Clostridium symbiosum 16S ribosomal RNA.
Woese C.R., Yang D., Mandelco L.;
Unpublished. M59112
- Clostridium sporogenes 16S ribosomal RNA.
Woese C.R., Yang D., Mandelco L.;
Unpublished. M59115
- Clostridium sporosphaeroides 16S ribosomal RNA.
Woese C.R., Yang D., Mandelco L.;
Unpublished. M59116
- Clostridium subterminale 16S ribosomal RNA.
Woese C.R., Yang D., Mandelco L.;
Unpublished. M59106
- Clostridium sordellii 16S ribosomal RNA.
Woese C.R., Yang D., Mandelco L.;
Unpublished. M59105
- Clostridium scatologenes 16S ribosomal RNA.
Woese C.R., Yang D., Mandelco L.;
Unpublished. M59104
- Caulobacter subvibrioides 16S ribosomal RNA, complete.
Stahl D.A., Key R., Flesher B., Smit J.;
Unpublished. M83797
- Caulobacter species 16S ribosomal RNA, complete.
Stahl D.A., Key R., Flesher B., Smit J.;
Unpublished. M83800–M83811
- C.salmonicolor small subunit ribosomal RNA.
Woese C.R.;
Unpublished. M62422
- C.trachomatis KARP protein gene, complete cds.
Perara E.PhD., Ganem D.MD., Engel J.N.;
Unpublished. M86605
- Chromatium tepidum 16S ribosomal RNA.
Woese C.R.;
Unpublished. M59150
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Unpublished. M59151
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Unpublished. M55221

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Warwick S., Stackebrandt E., Kroppenstedt R., Embley M.T.;
Unpublished. M55223

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Warwick S., Stackebrandt E., Kroppenstedt R., Embley M.T.;
Unpublished. M55220

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Unpublished. M58800

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Unpublished. M58801

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Unpublished. M58802

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Unpublished. M58803

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Unpublished. M58806

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Unpublished. M58813

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Unpublished. M58815

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Unpublished. M58814

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Unpublished. M58816

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Unpublished. M58817

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Unpublished. M58819

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Unpublished. M58818

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Hsu M.Y., Xu C., Inouye M., Inouye S.;
Unpublished. M86352
- S.bikiniensis ribosomal protein L34 homologue (rpmH) gene, complete cds and RnpA protein (rnpA) gene, complete cds.
Morse D.P., Schmidt F.J.;
Unpublished. M83112
- Streptococcus bovis 16S ribosomal RNA.
Woese C.R., Yang D., Kandler O.;
Unpublished. M58835
- Streptomyces coelicolor phosphoglycerate mutase (PGM) gene, complete cds.
White P.J., Nairn J., Price N.C., Nimmo H.G., Coggins J.R., Hunter I.S.;
Unpublished. M83661

- Streptococcus cremoris* 16S ribosomal RNA.
Woese C.R., Yang D., Kandler O.;
Unpublished. M58836
- Saccharopolyspora erythraea* cytochrome P-450 gene, complete cds.
Hutchinson C.R., Andersen J.F.;
Unpublished. M83110
- S.flexneri* DNA for *recA* gene, 3' region
Zhao X., McEntee K.;
Mol. Gen. Genet. 222:369–376(1990). X55561
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Zhao X., McEntee K.;
Mol. Gen. Genet. 222:369–376(1990). X55557
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Zhao X., McEntee K.;
Mol. Gen. Genet. 222:369–376(1990). X55553
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Venkatesan M.M., Buysse J.M., Oaks E.V.;
Unpublished. M81458
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Vigal T., Gil J.A., Daza A., Garcia-Gonzalez M.D., Martin J.F.;
Mol. Gen. Genet. 225:278–288(1991). X57568
- Saprospira grandis* 16S ribosomal RNA.
Woese C.R.;
Unpublished. M58795
- Sporolactobacillus inulinus* 16S ribosomal RNA.
Woese C.R., Yang D., Kandler O.;
Unpublished. M58838
- Streptomyces lividans* DNA fragment.
Theberge M., Lacaze P., Shareck F., Morosoli R., Kluepfel D.;
Unpublished. M82807
- Streptococcus lactis* insertion element-encoded lactose metabolism-associated protein gene, complete cds.
Smigielski A.J.;
Unpublished. M85192
- Streptomyces lividans* lincomycin resistance methylase (*lrm*) gene, complete cds; and macrolide glycosyl transferase (*mgt*) gene, complete cds.
Jenkins G., Cundiffe E.;
Gene 108:55–62(1991). M74717
- Streptococcus lactis* 16S ribosomal RNA.
Woese C.R., Yang D., Kandler O.;
Unpublished. M58837
- S.purpurascens* *famA* and *famB* genes for FAS domain and acyl-CoA-dehydrogenases, respectively.
Stockmann M.;
Unpublished. X61931
- S.ruminantium* plasmid pS23 DNA.
Attwood G.T., Brooker J.D.;
Unpublished. M86247
- Synechocystis* sp. ADP-glucose pyrophosphorylase (*agp*) gene, complete cds.
Kakefuda G., Charng Y.y., Iglesias A.A., McIntosh L., Preiss J.;
Unpublished. M83556
- Streptococcus salivarius* glucosyltransferase I (*gtfJ*) gene, complete cds, and *gtfK* gene, 5' end.
Giffard P.M., Simpson C.L., Milward C.P., Jacques N.A.;
J. Gen. Microbiol. 137:2277–2593(1991). M64111
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Niehaus A., Gisselmann G., Schwenn J.D.;
Unpublished. M84476
- Synechococcus* sp. gene *psaC* for photosystem I subunit VII
Muehlenhoff U., Haehnel W., Witt H.T., Herrmann R.G.;
Unpublished. X63767
- Synechococcus* sp. gene *psaD* for photosystem I subunit II
Muehlenhoff U., Haehnel W., Witt H.T., Herrmann R.G.;
Unpublished. X63769
- Synechococcus* sp. gene *psaE* for photosystem I subunit IV
Muehlenhoff U., Haehnel W., Witt H.T., Herrmann R.G.;
Unpublished. X63766
- Synechococcus* sp. genes *psaF*, *psaJ* and *rp19* for photosystem I subunit III, subunit X and ribosomal protein RL9
Muehlenhoff U., Haehnel W., Witt H.T., Herrmann R.G.;
Unpublished. X63765
- Synechococcus* sp. gene *psaK* for photosystem I subunit X
Muehlenhoff U., Haehnel W., Witt H.T., Herrmann R.G.;
Unpublished. X63764
- Synechococcus* sp. genes *psaL* and *psaI* for photosystem I subunit XI and subunit VIII
Muehlenhoff U., Haehnel W., Witt H.T., Herrmann R.G.;
Unpublished. X63763
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Woese C.R., Yang D., Kandler O.;
Unpublished. M58839
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Chopra A.K., Peterson J.W., Prasad R.;
Biochim. Biophys. Acta 1129:115–118(1991). M64988
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Foster J.W., Park Y.K., Penfound T., Fenger T., Spector M.P.;
Unpublished. M85180
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Sorensen K.I., Neuhard J.;
Mol. Gen. Genet. 225:249–256(1991). X58919
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Isaacs R.D., Radolf J.D.;
Infect. Immun. 58:2025–2034(1990). M63142
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Paster B., Dewhirst F., Weisburg W., Mandelco L., Woese C.R.;
J. Bacteriol. 173:6101–6109(1991). M59179
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Paster B., Dewhirst F., Weisburg W., Mandelco L., Woese C.R.;
J. Bacteriol. 173:6101–6109(1991). M59294

T.thermophilus cytochrome c oxidase subunits I and III (caaB) gene, complete cds.
Mather M.W., Springer P., Buse G., Hensel S., Fee J.A.;
Unpublished. M84341

Transposon Tn2921 (from *Serratia marcescens*) fosfomycin-resistance protein (fos) gene, complete cds.
Leon J., Mendez N.J., Arroyo M., Garcia-Lobo J.M.;
Unpublished. M85195

Vibrio cholerae fur gene, complete cds.
Litwin C.M., Boyko S.A., Calderwood S.B.;
Unpublished. M85154

Vibrio cholerae NAG-ST (stn) gene, complete cds.
Ogawa A., Kato J., Watanabe H., Nair G.B., Takeda T.;
Unpublished. M85198

BV6 sucrose-6-phosphate (sucrase) gene, complete cds.
Chon S.;
Unpublished. M74035

Vibrio cholerae zonula occludens toxin (zot) gene, complete cds and enterotoxin subunit A gene, 5' end.
Fasano A., Baudry B., Pumplun D.W., Wasserman S.S., Tall B.D., Ketley J.M., Kaper J.B.;
Proc. Natl. Acad. Sci. U.S.A. 88:5242–5246(1991). M83563

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Ahn T.I., Leeu H.K., Kwak I.H., Jeon K.W.;
Endocyt. Cell Res. 8:33–44(1991). M86549

Xanthomonas campestris alpha-amylase (amy) gene, complete cds.
Hu N.T., Hung M.N., Tsai H.F., Huang A.M., Yang B.Y., Wang T.W., Chow T.Y., Tseng Y.H.;
Unpublished. M85252

Xanthomonas campestris phosphoglucomutase and phosphomannomutase (xanA) and phosphomannose isomerase and GDP-mannose pyrophosphorylase (xanB) genes, complete cds.
Koeplin R., Arnold W., Hoette B., Simon R., Wang G., Puehler A.;
Unpublished. M83231

Y.pestis genes caf1, caf1M, caf1A and caf1R
Galyov E.E., Karlishev A.V., Chernovskaya T.V., Dolgikh D.A., Smirnov O.T.U., Volkovoy K.I., Abramov V.M., Zavyalov V.P.;
FEBS Lett. 286:79–82(1991). X61996

Yersinia pestis KIM5 gene, complete cds.
Haddix P.L., Straley S.C.;
Unpublished. M83225

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Rous sarcoma virus phosphoprotein p60 (src) gene, complete cds and reverse transcriptase (pol) gene, 3' end.
Dezelee P., Barnier J.V., Mampe A., Laugier D., Marx M., Galibert F., Calothy G.;
Unpublished. M84475

Autographa californica nuclear polyhedrosis virus gp41 gene complete cds.
Whitford M.F., Faulkner P.;
Unpublished. M86592

Crimean-Congo hemorrhagic fever virus (isolate C68031) S RNA segment, viral-complementary strand.
Marriott A.C., Nuttall P.A.;
Unpublished. M86625

Chlorella virus major capsid protein gene, complete cds.
Graves M.V., Meints R.H.;
Unpublished. M85052

Chlorella virus M.CviJJ pseudogene.
van Etten J.L.;
Unpublished. M83739

Chilo iridescent virus type 6 origin of replication Y DNA sequence.
Handermann M., Schnitzler P., Roesen-Wolff A., Raab K., Sonntag K.C., Darai G.;
Unpublished. M81387

Bovine coronavirus strain L9 hemagglutinin/esterase glycoprotein (HE) gene.
Zhang X., Kousoulas K.G., Storz J.;
Unpublished. M76372

Bovine coronavirus strain LY138 hemagglutinin/esterase glycoprotein (HE) gene.
Zhang X., Kousoulas K.G., Storz J.;
Unpublished. M84486

Andean potato mottle virus coat protein (VP22) mRNA, 3' end.
Shindo N.;
Unpublished. M81775

Andean potato mottle virus capsid protein (VP42) gene, 5' end.
Shindo N.;
Unpublished. M83536

Cowpea severe mosaic virus RNA-2 region.
Chen X., Bruening G.;
Unpublished. M83309

Influenza virus type A/Leningrad (H2N2) M1 and M2 RNA, complete cds's.
Klimov A.I., Cox N.J., Yotov W.V., Rocha E., Alexandrova G.I., Kendal A.P.;
Unpublished. M81570,M81576,M81582

Influenza virus A/Swine (H3N2), hemagglutinin (seg 4) RNA.
Bean W.J., Schell M., Katz J., Kawaoka Y., Naeve C., Gorman O., Webster R.G.;
Unpublished. M73774–M73775

Influenza virus A/Mallard/New York/6874/78 (H3N2), hemagglutinin (seg 4) RNA.
Bean W.J., Schell M., Katz J., Kawaoka Y., Naeve C., Gorman O., Webster R.G.;
Unpublished. M73776

Influenza virus type A/Leningrad (H2N2) NS1 RNA 5'end, NS2 RNA complete cds.
Klimov A.I., Cox N.J., Yotov W.V., Rocha E., Alexandrova G.I., Kendal A.P.;
Unpublished. M81572,M81578,M81584

Influenza A/Equine/Prague/1/56 (H7N7) nucleoprotein mRNA, complete cds.
Gorman O.T., Bean W.J., Kawaoka Y., Donatelli I., Guo Y., Webster R.G.;
J. Virol. 65:3704–3714(1991). M63748

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Gorman O.T., Bean W.J., Kawaoka Y., Donatelli I., Guo Y., Webster R.G.;
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M63773,M63775–M63776,M63780–M63783
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Gorman O.T., Bean W.J., Kawaoka Y., Donatelli I., Guo Y., Webster R.G.;
J. Virol. 65:3704–3714(1991). M63774,M63778
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Gorman O.T., Bean W.J., Kawaoka Y., Donatelli I., Guo Y., Webster R.G.;
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Gorman O.T., Bean W.J., Kawaoka Y., Donatelli I., Guo Y., Webster R.G.;
J. Virol. 65:3704–3714(1991). M63784
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Gorman O.T., Bean W.J., Kawaoka Y., Donatelli I., Guo Y., Webster R.G.;
J. Virol. 65:3704–3714(1991). M63785
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Gorman O.T., Bean W.J., Kawaoka Y., Donatelli I., Guo Y., Webster R.G.;
J. Virol. 65:3704–3714(1991). M63786
- Influenza A/Hickox/40 (H1N1) nucleoprotein mRNA, complete cds.
Gorman O.T., Bean W.J., Kawaoka Y., Donatelli I., Guo Y., Webster R.G.;
J. Virol. 65:3704–3714(1991). M63749
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Gorman O.T., Bean W.J., Kawaoka Y., Donatelli I., Guo Y., Webster R.G.;
J. Virol. 65:3704–3714(1991). M63750
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Gorman O.T., Bean W.J., Kawaoka Y., Donatelli I., Guo Y., Webster R.G.;
J. Virol. 65:3704–3714(1991). M63751
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Gorman O.T., Bean W.J., Kawaoka Y., Donatelli I., Guo Y., Webster R.G.;
J. Virol. 65:3704–3714(1991). M63752
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Gorman O.T., Bean W.J., Kawaoka Y., Donatelli I., Guo Y., Webster R.G.;
J. Virol. 65:3704–3714(1991). M63753
- Influenza A/New Jersey/8/76 (H1N1) nucleoprotein mRNA, complete cds.
Gorman O.T., Bean W.J., Kawaoka Y., Donatelli I., Guo Y., Webster R.G.;
J. Virol. 65:3704–3714(1991). M63754
- Influenza A/Wisconsin/3523/88 (H1N1) nucleoprotein mRNA, complete cds.
Gorman O.T., Bean W.J., Kawaoka Y., Donatelli I., Guo Y., Webster R.G.;
J. Virol. 65:3704–3714(1991). M63755
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Gorman O.T., Bean W.J., Kawaoka Y., Donatelli I., Guo Y., Webster R.G.;
J. Virol. 65:3704–3714(1991). M63756–M63772
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Klimov A.I., Cox N.J., Yotov W.V., Rocha E., Alexandrova G.I., Kendal A.P.;
Unpublished. M81571,M81577,M81583
- Influenza virus type A/Leningrad PA RNA, complete cds.
Klimov A.I., Cox N.J., Yotov W.V., Rocha E., Alexandrova G.I., Kendal A.P.;
Unpublished. M81573,M81579,M81585
- Influenza virus type A/Leningrad PB1 RNA, complete cds.
Klimov A.I., Cox N.J., Yotov W.V., Rocha E., Alexandrova G.I., Kendal A.P.;
Unpublished. M81580,M81586,M81574
- Influenza virus type A/Leningrad PB2 RNA complete cds.
Klimov A.I., Cox N.J., Yotov W.V., Rocha E., Alexandrova G.I., Kendal A.P.;
Unpublished. M81575,M81581
- Hazara virus (isolate JC280) S RNA segment, viral-complementary strand.
Marriott A.C., Nuttall P.A.;
Unpublished. M86624
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Everett R.D., Fenwick M.L.;
J. Gen. Virol. 71:1387–1390(1990). D00870
- Human cytomegalovirus glycoprotein B gene, complete cds.
Chou S.;
Unpublished. M60924–M60934,M85228
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Rapp M., Messerle M., Buehler B., Tannheimer M., Keil G.M., Koszinowski U.H.;
Unpublished. M86302
- Bovine herpesvirus type 1 p135 protein (EI2.9/E2.6) gene, complete cds.
Schwyzer M., Wirth U.V., Fraefel C., Vogt B., Vlcek C., Paces V.;
Unpublished. M84464–M84465
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Breedon C.A., Yalamanchili R.R., O'Callaghan D.J.;
Unpublished. M80429
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Bonass W.A., Elton D.M.;
Unpublished. M84239

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Salminen M.O.;
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Wolfs T., Zwart G., Bakker M., Valk M., Kuiken C., Goudsmit J.;
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Wolfs T., Zwart G., Bakker M., Valk M., Kuiken C., Goudsmit J.;
Virology 185:195–205(1991).
M74659–M74661,M74680–M74683
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M80715,M80717,M80727–M80734
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Kleim J.P., Ackermann A., Brackmann H.H., Gahr M., Schneeweis K.E.;
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De Ronde A., Klaver B., Keulen W., Smit L., Goudsmit J.;
Unpublished. M84627–M84632
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Fitzgibbon J.E., Howell R.M., Haberzettl C.A., Sperber S.J., Gocke D.J., Dubin D.T.;
Unpublished. M83276–M83292
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Virology 185:195–205(1991). M74684,M74653–M74664
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Holmes E.C., Zhang L.Q., Simmonds P., Ludlam C.A., Leigh-Brown A.J.;
Unpublished.
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Dasgupta P., Reddy D.C., Saikumar P., Reddy P.E.;
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Okamoto H., Okada S., Sugiyama Y., Kurai K., Iizuka H., Machida A., Miyakawa Y., Mayumi M.;
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Bukh J., Purcell R.H., Miller R.H.;
Unpublished. M84839,M84841–M84842,M84851,M84859
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Bukh J., Purcell R.H., Miller R.H.;
Unpublished. M84827
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Bukh J., Purcell R.H., Miller R.H.;
Unpublished. M84828–M84838,M84840,M84843–M84850,M84852–M84858,M84860–M84865
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Bukh J., Purcell R.H., Miller R.H.;
Unpublished. M84822–M84826
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Lee C.M., Bih F.Y., Chao Y.C., Govindarajan S., Lai M.M.C.;
Unpublished. M84917
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Albrecht J.C., Nicolas J., Cameron K.R., Newman C., Fleckenstein B., Honess R.W.;
Unpublished. X64273
- Herpesvirus saimiri DNA for HSUR and HSUR7
Albrecht J., Fleckenstein B.;
Unpublished. X64274

Prospect Hill virus M segment mRNA for glycoproteins G1 and G2

Parrington M.A., Lee P.W., Kang C.Y.;
J. Gen. Virol. 72:1845–1854(1991). X55129

Porcine respiratory coronavirus (PRCV) 3'end of ORF-3, ORF-4 and ORF-7 and genes for membrane protein and nucleoprotein

Britton P., Mawditt K.L., Page K.W.;
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Amsacta moorei entomopoxvirus spheroidin gene, complete cds.

Banville M., Dumas F., Trifiro S., Arif B., Richardson C.;
Unpublished. M75889

Simian immunodeficiency virus 121SPAP (SIVmnd GB-1 strain, clone pMD121) env gene, partial cds.

Sakai H., Sakuragi S., Sakuragi J.i., Shibata R., Adachi A.;
Unpublished. M83147

Simian immunodeficiency virus 122SPAP (SIVmnd GB-1 strain, clone pMD122) env gene, partial cds.

Sakai H., Sakuragi S., Sakuragi J.i., Shibata R., Adachi A.;
Unpublished. M83148

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Burns D.P., Desrosiers R.C.;
J. Virol. 65:1843–1854(1991). M61062–M61093

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Bernal J.J., Moriones E., Garcia-Arenal F.;
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Bacteriophage T4 bgt gene, 3' end and uvsX gene, 5' end.

Ellis R.L., Hinton D.M.;
Unpublished. M69268

Bacteriophage SPO1 DNA polymerase (gp31) gene, complete cds.

Scarlato V., Gargano S.;
Unpublished. M84415

Bacteriophage SPO1 glycoprotein 30 (gp30), complete cds.

Scarlato V., Sayre M.H.;
Unpublished. M82842

SYNTHETICS:

Cloning vector encoding chimeric plasminogen activator K12G0S32 gene, complete cds.

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Long E.O., Rosen-Bronson S., Karp D.R., Malnati M., Sekaly R.P., Jaraquemada D.;
Hum. Immunol. 31:229–235(1991). M83237