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# New nucleotide sequence data on the EMBL File Server

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June 4th to June 18th 1991

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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 sending the command: HELP

## PRIMATES:

Cercopithecus aethiops endogenous retroviral DNA.

Shih A., Coutavas E.E., Rush M.G.;  
Virology 182:495–502(1991). M69080

Cebus albifrons involucrin gene, complete cds.

Phillips M., Rice R.H., Djian P., Green H.;  
Mol. Biol. Evol. (In Press) M67478

Gorilla endogenous retroviral DNA.

Shih A., Coutavas E.E., Rush M.G.;  
Virology 182:495–502(1991). M69096,M69102

Gorilla endogenous retroviral DNA.

Shih A., Coutavas E.E., Rush M.G.;  
Virology 182:495–502(1991). M69102

Human BCR gene promoter region and partial cds.

Zhu Q.S., Heisterkamp N., Groffen J.;  
Nucleic Acids Res. 18:7119–7125(1990). X52828

Human DNA for apolipoprotein A-IV 5'-flank

Civeira F., Schaefer E.J., Ordovas J.M.;  
Unpublished. X13368

Human acid sphingomyelinase (ASM) mRNA, complete cds.

Schuchman E.H., Suchi M., Takahashi T., Sandhoff K., Desnick R.J.;  
J. Biol. Chem. 266:8531–8539(1991). M59916

Human biglycan (BGN) gene, segments 2–4.

Fisher L.W., Heegaard A.M., Vetter U., Vogel W., Just W., Termine J.D., Young M.F.;  
J. Biol. Chem. (In Press) M65152–M65154

Human beta-spectrin exon/intron boundary.

Yoon S.H., Yu H., Eber S., Prchal J.T.;  
J. Biol. Chem. 266:8490–8494(1991). M69048

Human heart chymase mRNA, complete cds.

Urata H., Kinoshita A., Perez D.M., Misono K.S., Bumpus F.M., Graham R.M., Husain A.;  
Unpublished. M69136

Human heart chymase gene, complete cds.

Urata H., Kinoshita A., Perez D.M., Misono K.S., Bumpus F.M., Graham R.M., Husain A.;  
Unpublished. M69137

Human coxVIb gene, last exon and flanking sequence

Taanman J.W., Schrage C., Bokma E., Reuvekamp P., Agsteribbe E., de Vries H.;  
Unpublished. X58139

Human gene for cerebroside sulfate activator protein, exons 11–14

Holtschmidt H., Suzuki K., Sandhoff K., Fuerst W., Schnabel D., Kwon H.Y.;  
FEBS Lett. 2:267–270(1991). X57108

Human gene for cerebroside sulfate activator protein, exons 3–4

Holtschmidt H., Suzuki K., Sandhoff K., Fuerst W., Schnabel D., Kwon H.Y.;  
FEBS Lett. 2:267–270(1991). X57107

Human cyclin D (cyclin D1) mRNA, complete cds.

Xiong Y., Connolly T., Fitcher B., Beach D.;  
Cell 65:691–699(1991). M64349

Human mRNA for D-1 dopamine receptor

Zhou Q.Y., Grandy D.K., Thambi L., Kushner J.A., Van Tol H.H.M., Cone R., Pribnow D., Salon J., Bunzow J.R., Civelli O.;  
Nature 347:76–80(1990). X58987

Human decay-accelerating factor (DAF) gene, intron, partial.

Ewulonu K.U., Ravi L., Medof M.E.;  
Proc. Natl. Acad. Sci. U.S.A. 88:4675–4679(1991).  
M64649–M64652

Human Flg-2 gene for fibroblast growth factor receptor

Givol D.;  
Oncogene 0:0–0(1991). X58255

Human midkine mRNA, complete cds.

Tsutsui J.i., Uehara K., Kadomatsu K., Matsubara S., Muramatsu T.;  
Biochem. Biophys. Res. Commun. 176:792–797(1991). M69148

- Human Fragile X mental retardation 1 FMR-1 gene, 3' end, clones BC72 and BC22.  
Verkerk A.J., Pieretti M., Sutcliffe J.S., Fu Y.H., Kuhl D.P., Pizzuti A., Reiner O., Richards S., Victoria M.F., Zhang F., Eussen B.E., van Ommen G.J.B., Blonden L.A., Riggins G.J., Chastain J.L., Kunst C.B., Galjaard H., Caskey C.T., Nelson D.L.,  
*Cell* 66:905–914(1991). M67468
- Human globin gene.  
Wu Y., Noguchi C.T.;  
*J. Biol. Chem.* (In Press) M69023
- Human gene for Gi3 alpha protein, intron 7 through exon 9, variant U6 gene, and snRNP E protein pseudogene LH87  
Wieben E.D., Vrabel A., Holicky E.L., Klisak I., Sparkes R.S., Stanford D.R.;  
*Nucleic Acids Res.* 19:2869–2874(1991). X54048
- Human intrinsic factor mRNA, complete cds.  
Hewitt J.E., Gordon M.M., Taggart R.T., Mohandas T.K., Alpers D.H.;  
*Genomics* 10:432–440(1991). M63154
- Human glucocorticoid receptor gene, exon 2.  
Leclerc S., Xie B., Roy R.N., Govindan M.V.;  
*J. Biol. Chem.* 266:8711–8719(1991). M69104
- Human GSTmu2 gene for a glutathione S-transferase Mu class protein, partial cds (exons 3–5)  
Taylor J.B., Oliver J., Sherrington R., Pemble S.E.;  
*Biochem. J.* 274:587–593(1991). X56837
- Human GSTmu3 gene for a glutathione S-transferase Mu class protein, partial CDS (exons 3–5)  
Taylor J.B., Oliver J., Sherrington R., Pemble S.E.;  
*Biochem. J.* 274:587–593(1991). X56838
- Human guanine nucleotide-binding regulatory protein (G-gamma-2-alpha) mRNA, partial cds.  
Jiang M., Pandey S., Tran V.T., Fong H.K.W.;  
*Proc. Natl. Acad. Sci. U.S.A.* 88:3907–3911(1991). M69012
- Human guanine nucleotide-binding regulatory protein (G-gamma-alpha) mRNA, complete cds.  
Jiang M., Pandey S., Tran V.T., Fong H.K.W.;  
*Proc. Natl. Acad. Sci. U.S.A.* 88:3907–3911(1991). M69013
- Human IFN-omega 1 gene for interferon-omega 1  
Adolf G.R., Fruehbeis B., Hauptmann R., Kalsner I., Maurer-Fogy I., Ostermann E., Patzelt E., Schwendenwein R., Sommergruber W., Zoepfel A.;  
Unpublished. X58822
- Human monoamine oxidase B (MAOB) gene, exons 1–15.  
Grimsby J., Chen K., Wang L.J., Lan N.C., Shih J.C.;  
*Proc. Natl. Acad. Sci. U.S.A.* 88:3637–3641(1991). M69119–M69135
- Human (CA)-n repetitive sequence Mfd10 DNA.  
Weber J.L., May P.E.;  
*Am. J. Hum. Genet.* 44:388–396(1991). M23610
- Human (CA)-n repetitive sequence Mfd6 DNA.  
Weber J.L., May P.E.;  
*Am. J. Hum. Genet.* 44:388–396(1991). M23606
- Human (CA)-n repetitive sequence Mfd7 DNA.  
Weber J.L., May P.E.;  
*Am. J. Hum. Genet.* 44:388–396(1991). M23607
- Human (CA)-n repetitive sequence Mfd8 DNA.  
Weber J.L., May P.E.;  
*Am. J. Hum. Genet.* 44:388–396(1991). M23608
- Human (CA)-n repetitive sequence Mfd9 DNA.  
Weber J.L., May P.E.;  
*Am. J. Hum. Genet.* 44:388–396(1991). M23609
- Human U11 small nuclear RNA gene  
Suter-Crazzolara C;  
Unpublished. X13707
- Human ORF mRNA, complete cds.  
Pollard K.M.;  
Unpublished. M68864
- Human p53 gene for transformation related protein p53 (also called transformation-associated protein p53, cellular tumor antigen p53, and non-viral tumour antigen p53).  
Chumakov P.M., Almazov V.P., Jenkins J.R.;  
Unpublished. X54156
- Human vacuolar H+ ATPase proton channel subunit mRNA, complete cds.  
Gillespie G.A., Somlo S., Germino G.G., Weinstat-Saslow D., Reeders S.T.;  
*Proc. Natl. Acad. Sci. U.S.A.* 88:4289–4293(1991). M62762
- Human tachykinin-A (beta-PPT-A) gene, partial cds.  
Chiwakata C., Brackmann B., Hunt N., Davidoff M., Schulze W., Ivell R.;  
*Endocrinology* 128:2441–2448(1991). M68906
- Human tachykinin-A (gamma-PPT-A) gene, partial cds.  
Chiwakata C., Brackmann B., Hunt N., Davidoff M., Schulze W., Ivell R.;  
*Endocrinology* 128:2441–2448(1991). M68907
- Human pregnancy-specific glycoprotein PSG-11 gene, exons 2,3,4&5.  
McLenachan P.A., Sims S., Beggs K.T., Mansfield B.C.;  
Unpublished. M69025–M69027
- Human rhom-2 gene, exon.  
Boehm T., Foroni L., Kaneko Y., Perutz M.F., Rabbitts T.H.;  
*Proc. Natl. Acad. Sci. U.S.A.* 88:4367–4371(1991). M64357
- Human rhom-3 gene, exon.  
Boehm T., Foroni L., Kaneko Y., Perutz M.F., Rabbitts T.H.;  
*Proc. Natl. Acad. Sci. U.S.A.* 88:4367–4371(1991). M64358
- Human alpha satellite DNA (p-alpha-H1 clone).  
Baldini A.;  
Unpublished. X56450
- Human alpha satellite DNA (p-alpha-H2 clone).  
Baldini A., Shridhar V., Rocchi M., Ward D.C.;  
Unpublished. X58265
- Human alpha satellite DNA (p-alpha-H3 clone).  
Baldini A., Shridhar V., Rocchi M., Ward D.C.;  
Unpublished. X58266

- Human r-strand alpha satellite DNA (p-alpha-H4 clone).  
Baldini A., Shridhar V., Rocchi M., Ward D.C.;  
Unpublished. X58267
- Human f-strand alpha satellite DNA (p-alpha-H4 clone).  
Baldini A., Shridhar V., Rocchi M., Ward D.C.;  
Unpublished. X58270
- Human alpha satellite DNA (p-alpha-H5 clone).  
Baldini A., Shridhar V., Rocchi M., Ward D.C.;  
Unpublished. X58268
- Human alpha satellite DNA (pZ20R clone).  
Baldini A., Shridhar V., Rocchi M., Ward D.C.;  
Unpublished. X58269
- Human microsatellite DNA repeat region DNA.  
Weber J.L., May P.E.;  
*Am. J. Hum. Genet.* 44:388–396(1991). M64804–M64808
- Human TCF-1 mRNA for T cell factor 1 (splice form A)  
Van de Wetering M., Oosterwegel M., Dooijes D., Clevers H.;  
*EMBO J.* 10:123–132(1991). X59869
- Human rhombotin gene, 5' flank and T-cell receptor delta elements.  
Boehm T., Foroni L., Kaneko Y., Perutz M.F., Rabbitts T.H.;  
*Proc. Natl. Acad. Sci. U.S.A.* 88:4367–4371(1991). M64361
- Human gene for U11 small nuclear RNA  
Suter-Crazzolara C., Keller W.;  
Unpublished. X58716
- Human amplified VK gene (partial) (421 bp)  
Zimmer F.J., Hameister F.J., Schek H., Zachau H.G.;  
*EMBO J.* 9:1535–1542(1990). X51877
- Human amplified VK gene (partial) (448 bp)  
Zimmer F.J., Hameister F.J., Schek H., Zachau H.G.;  
*EMBO J.* 9:1535–1542(1990). X51878
- Human amplified VK gene (partial) (595 bp)  
Zimmer F.J., Hameister F.J., Schek H., Zachau H.G.;  
*EMBO J.* 9:1535–1542(1990). X51876
- Human transposed VK gene with joint of amplified to non-amplified DNA (Wa contig, 308 bp)  
Zimmer F.J., Hameister F.J., Schek H., Zachau H.G.;  
*EMBO J.* 9:1535–1542(1990). X51888
- Human transposed VK gene with joint of amplified to non-amplified DNA (Wc contig, 352 bp)  
Zimmer F.J., Hameister F.J., Schek H., Zachau H.G.;  
*EMBO J.* 9:1535–1542(1990). X51889
- Macaca sp. endogenous retroviral DNA.  
Shih A., Coutavas E.E., Rush M.G.;  
*Virology* 182:495–502(1991). M69081–M69083
- Baboon endogenous retroviral DNA.  
Shih A., Coutavas E.E., Rush M.G.;  
*Virology* 182:495–502(1991). M69078
- Chimpanzee endogenous retroviral DNA.  
Shih A., Coutavas E.E., Rush M.G.;  
*Virology* 182:495–502(1991). M69086–M69088, M69093
- Saguinus oedipus involucrin gene, complete cds.  
Phillips M., Rice R.H., Djian P., Green H.;  
*Mol. Biol. Evol.* (In Press) M67477
- RODENTS:**
- B. suillus 12S rRNA gene, complete sequence.  
Allard M.W., Honeycutt R.L.;  
*Mol. Biol. Evol.* (In Press) M63564
- Mouse BCR gene promoter region and partial cds.  
Zhu Q.S., Heisterkamp N., Groffen J.;  
*Nucleic Acids Res.* 18:7119–7125(1990). X52830
- Mouse BCR gene partial cds for exon 1.  
Zhu Q.S., Heisterkamp N., Groffen J.;  
*Nucleic Acids Res.* 18:7119–7125(1990). X52831
- Mouse cycB mRNA for cyclin B  
Paterno G., Downs K.;  
Unpublished. X58708
- Mouse dilute myosin heavy chain gene for novel heavy chain with unique C-terminal region  
Mercer J.A., Seperack P.K., Strobel M.C., Copeland N.G., Jenkins N.A.;  
*Nature* 349:709–712(1991). X57377
- Mouse Ig germline kappa-chain intron J-C region, partial sequence.  
Weber J.S., Berry J., Litwin S., Claflin J.L.;  
*J. Immunol.* 146:3218–3226(1991). M65315–M65316
- Mouse for integrin subunit beta 4  
Kennel J., Godfrey V., Chang L.Y., Lankford T.K., Foote L.J., Makkinje A.;  
Unpublished. X58254
- Mouse put. potassium channel protein mRNA, complete cds.  
Tempel B.L., Jan Y.N., Jan L.Y.;  
*Nature* 332:837–839(1990). M36456
- Mouse L1Md LINE DNA  
Nasir J., Maconochie M.K., Brown S.D.M.;  
*Nucleic Acids Res.* 19:3255–3260(1991). X58491–X58492, X58494–X58495
- Mouse mononucleotide microsatellite marker DNA for Ly38 gene  
Hearne C.M., McAleer M.A., Love J.M., Aitman T.J., Cornall R.C., Ghosh S., Knight A., Prins J.B., Todd J.A.;  
Unpublished. X58257
- Mouse dinucleotide microsatellite marker DNA for Ly38 gene  
Hearne C.M., McAleer M.A., Love J.M., Aitman T.J., Cornall R.C., Ghosh S., Knight A., Prins J.B., Todd J.A.;  
Unpublished. X58258
- Mouse microsatellite marker DNA for Gba gene, encoding glucocerebrosidase  
Hearne C.M., McAleer M.A., Love J.M., Aitman T.J., Cornall R.C., Ghosh S., Knight A., Prins J.B., Todd J.A.;  
Unpublished. X58259
- Mouse microsatellite marker DNA D4SMH6b, 1–4.  
Hearne C.M., McAleer M.A., Love J.M., Aitman T.J., Cornall R.C., Ghosh S., Knight A., Prins J.B., Todd J.A.;  
Unpublished. X58260–X58263

- Mouse mCyp-S1 mRNA for cyclophilin CyP-S1  
Nordheim A.;  
Unpublished. X58990
- Murine mdm2 mRNA for mdm2 protein  
Fakharzadeh S.S., Trusko S.P., George D.L.;  
EMBO J. 10:1565–1569(1991). X58876
- Mouse prohormone cleavage enzyme (mPC1) mRNA, complete cds.  
Korner J., Chun J., Harter D., Axel R.;  
Proc. Natl. Acad. Sci. U.S.A. (In Press) M69196
- Mouse microsatellite DNA  
Nasir J., Maconochie M.K., Brown S.D.M.;  
Nucleic Acids Res. 19:3255–3260(1991). X58493,X58496
- Mouse vacuolar H(+)-ATPase (mvp) mRNA, complete cds.  
Hanada H., Hasebe M., Moriyama Y., Maeda M., Futai M.;  
Biochem. Biophys. Res. Commun. 176:1062–1067(1991). M64298
- Mouse pro-alpha1 (II) collagen chain gene, complete cds.  
Metsranta M., Toman D., de Crombrughe B., Vuorio E.;  
J. Biol. Chem. (In Press) M65161
- Mus musculus tachykinin-A (beta-PPT-A) gene, partial cds.  
Chiwakata C., Brackmann B., Hunt N., Davidoff M., Schulze W.,  
Ivell R.;  
Endocrinology 128:2441–2448(1991). M68908
- Mus musculus tachykinin-A (gamma-PPT-A) gene, partial cds.  
Chiwakata C., Brackmann B., Hunt N., Davidoff M., Schulze W.,  
Ivell R.;  
Endocrinology 128:2441–2448(1991). M68909
- Mouse rhom-2 gene, exon.  
Boehm T., Foroni L., Kaneko Y., Perutz M.F., Rabbitts T.H.;  
Proc. Natl. Acad. Sci. U.S.A. 88:4367–4371(1991). M64359
- Mouse rhom-2 mRNA, complete cds.  
Boehm T., Foroni L., Kaneko Y., Perutz M.F., Rabbitts T.H.;  
Proc. Natl. Acad. Sci. U.S.A. 88:4367–4371(1991). M64360
- Mouse repeat region DNA.  
Chambers D.M., Bell J., Jackson I.J.;  
Unpublished. M69041
- Mouse tyrosine hydroxylase, complete cds.  
Ichikawa S., Sasaoka T., Nagatsu T.;  
Biochem. Biophys. Res. Commun. 176:1610–1616(1991). M69200
- Rat 60 kDa protein and non-specific lipid transfer protein mRNA,  
complete cds.  
Mori T., Tsukamoto T., Mori H., Tashiro Y., Fujiki Y.;  
Proc. Natl. Acad. Sci. U.S.A. 88:4338–4342(1991). M62763
- Rat A1-adenosine receptor mRNA, complete cds.  
Reppert S.M., Weaver D.R., Stehle J.S., Rivkees S.A.;  
Mol. Endocrinol. (In Press) M69045
- Rat mRNA for alpha(1)-inhibitor 3, variant I  
Regler R., Sickinger S., Schweizer M.;  
FEBS Lett. 282:368–372(1991). X52984
- Rat mRNA, complete cds.  
Petty K.J., Bartalena L., Nikodem V.M.;  
Unpublished. M69138
- Rat cTNI mRNA for cardiac troponin I  
Ausoni S., De Nardi C., Moretti P., Gorza L., Schiaffino S.;  
Unpublished. X58499
- Rattus norvegicus dopamine D1B receptor gene, complete cds.  
Tiberi M., Jarvie K.R., Silvia C., Falardeau P., Gingrich J.A.,  
Godinot N., Bertrand L., Yang-Feng T.L., Fremeau R.T.Jr.,  
Caron M.G.;  
Proc. Natl. Acad. Sci. U.S.A. (In Press) M69118
- Rat extracellular signal-related kinase (ERK2) mRNA, complete  
cds.  
Boulton T.G., Nye S.H., Robbins D.J., Ip N.Y., Radziejewska E.,  
Morgenbesser S.D., DePinho R.A., Panayotatos N., Cobb M.H.,  
Yancopoulos G.D.;  
Cell 65:663–675(1991). M64300
- Rat extracellular signal-related kinase (ERK3) mRNA, complete  
cds.  
Boulton T.G., Nye S.H., Robbins D.J., Ip N.Y., Radziejewska E.,  
Morgenbesser S.D., DePinho R.A., Panayotatos N., Cobb M.H.,  
Yancopoulos G.D.;  
Cell 65:663–675(1991). M64301
- Rat extracellular signal-related kinase pseudogene (ERK1 Psi),  
partial.  
Boulton T.G., Nye S.H., Robbins D.J., Ip N.Y., Radziejewska E.,  
Morgenbesser S.D., DePinho R.A., Panayotatos N., Cobb M.H.,  
Yancopoulos G.D.;  
Cell 65:663–675(1991). M64302
- Rattus rattus (strain Sprague-Dawley) heparin-binding neurotrophic  
factor (HBNF) mRNA, partial cds.  
Kovesdi I., Fairhurst J.L., Kretschmer P.J., Boehlen P.;  
Biochem. Biophys. Res. Commun. 172:850–854(1990). M68916
- Rat luteinizing hormone receptor gene, exons 1–11.  
Bum Koo Y., Slaughter R.G., Ji T.H.;  
Endocrinology 128:2297–2308(1991).  
M68917–M68923,M68925–M68928
- Rat lysosomal membrane protein (LIMPII) mRNA, complete cds.  
Vega M.A., Segui B.;  
J. Biol. Chem. (In Press) M68965
- Rat mRNA for a cyclic nucleotide-activated olfactory channel  
Dhallan R.S., Yau K., Schrader K.A., Reed R.R.;  
Nature 347:184–187(1990). X55519
- Rat PTP-S mRNA for protein-tyrosine phosphatase  
Swarup G., Kamatkar S., Radha V., Rema V.;  
Unpublished. X58828
- Rat SR13 myelin protein mRNA, complete cds.  
Welcher A.A., Suter U., De Leon M., Snipes G.J., Shooter E.M.;  
Proc. Natl. Acad. Sci. U.S.A. (In Press) M69139
- Rat hexokinase type II (HKII) mRNA, complete cds.  
Thelen A.P., Wilson J.E.;  
Arch. Biochem. Biophys. 286:645–651(1991). M68971
- Rat hexokinase II (HKII) mRNA, 3' end.  
Thelen A.P., Wilson J.E.;  
Arch. Biochem. Biophys. 286:645–651(1991). M68972

Rat neuronal delayed rectifier K<sup>+</sup> channel (K-V-4) mRNA, complete cds.  
Luneau C.J., Williams J.B., Marshall J., Levitan E.S., Oliva C., Smith J.S., Antanavage J., Folander K., Stein R.B., Swanson R., Kaczmarek L.K., Buhrow S.A.;  
Proc. Natl. Acad. Sci. U.S.A. 88:3932–3936(1991). M68880

Phodopus sungorus endogenous retroviral MRS-Ps U5 region.  
Tikhonenko A.T., Polotskaya A.V., Vassetzky III N.S., Golovkina T.V., Gudkov A.V.;  
Virology 181:367–370(1991). M63644

Rat monoamine oxidase A mRNA, complete cds.  
Kuwahara T., Takamoto S., Ito A.;  
Agric. Biol. Chem. 54:253–257(1990). D00688

#### OTHER MAMMALS:

Bovine CLG mRNA for collagenase  
Tamura M., Shimokawa H., Sasaki S.;  
Unpublished. X58256

Bovine OXT gene for oxytocin, 5' noncoding region  
Walther N., Wehrenberg U., Brackmann B., Ivell R.;  
Unpublished. X58474

Bovine tachykinin-A (beta-PPT-A) gene, partial cds.  
Chiwakata C., Brackmann B., Hunt N., Davidoff M., Schulze W., Ivell R.;  
Endocrinology 128:2441–2448(1991). M68911

Bovine tachykinin-A (gamma-PPT-A) gene, partial cds.  
Chiwakata C., Brackmann B., Hunt N., Davidoff M., Schulze W., Ivell R.;  
Endocrinology 128:2441–2448(1991). M68912

Bovine GDP/GTP exchange protein for ras p21/ras p21-like small GTP-binding protein (smg GDS) mRNA, complete cds.  
Kaibuchi K., Mizuno T., Fujioka H., Yamamoto T., Kishi K., Fukumoto Y., Hori Y., Takai Y.;  
Mol. Cell. Biol. 11:2873–2880(1991). M63325

Bovine mRNA for pancreatic anionic trypsinogen  
Le Huerou I., Wicker C., Guilloteau P., Toullec R., Puigserver A.;  
Eur. J. Biochem. 193:767–773(1990). X54703

E.caballus transferrin mRNA, complete cds.  
Carpenter M.A.;  
Unpublished. M69020

Rabbit gene for muscle creatine kinase, exon 1  
Yi T.M., Walsh K., Schimmel P.;  
Nucleic Acids Res. 19:3027–3033(1991). X55146

Rabbit mRNA for liver transferrin  
Banfield D.K., Chow B.K.C., Funk W.D., Robertson K.A., Umelas T.M., Woodworth R.C., MacGillivray R.T.A.;  
Unpublished. X58533

Porcine ApoA-I mRNA for apolipoprotein A-I, partial cds  
Trieu V.N., Rohwer-Nuttler P., Black D.D.;  
Unpublished. X59414

Pig hsp70 gene, complete cds.  
Peelman L.J., de Weghe A.R., Coppieters W.R., Van Zeveren A.J., Bouquet Y.H.;  
Unpublished. M69100

#### OTHER VERTEBRATES:

Chicken B-G mRNA, complete cds.  
Miller M.M., Goto R., Young S., Chirivella J., Hawke D., Miyada C.G.;  
Proc. Natl. Acad. Sci. U.S.A. 88:4377–4381(1991). M61860–M61861, M61863–M61864

Chicken B-G mRNA, 3' end.  
Miller M.M., Goto R., Young S., Chirivella J., Hawke D., Miyada C.G.;  
Proc. Natl. Acad. Sci. U.S.A. 88:4377–4381(1991). M61862

Chicken mRNA for glutathionine S-transferases CL2  
Liu L.F., Tam M.F.;  
Unpublished. X58248

O.nerka adonis (kokanee) Hpa(ON)-5 gene.  
Kido Y., Aono M., Yamaki T., Matsumoto K.I., Murata S., Saneyoshi M., Okada N.;  
Proc. Natl. Acad. Sci. U.S.A. 88:2326–2330(1991). D90299

O.nerka adonis (kokanee) Hpa(ON)-8 gene.  
Kido Y., Aono M., Yamaki T., Matsumoto K.I., Murata S., Saneyoshi M., Okada N.;  
Proc. Natl. Acad. Sci. U.S.A. 88:2326–2330(1991). D90300

Polyodon spathula mitochondrial cytochrome b gene, partial cds.  
Normark B.B., McCune A.R., Harrison R.G.;  
Mol. Biol. Evol. (In Press) M64910

S.leucomaenis leucomaenis (white-spotted charr) Fok(SLL)-10 gene.  
Kido Y., Aono M., Yamaki T., Matsumoto K.I., Murata S., Saneyoshi M., Okada N.;  
Proc. Natl. Acad. Sci. U.S.A. 88:2326–2330(1991). D90296

S.leucomaenis leucomaenis (white-spotted charr) Fok(SLL)-3 gene.  
Kido Y., Aono M., Yamaki T., Matsumoto K.I., Murata S., Saneyoshi M., Okada N.;  
Proc. Natl. Acad. Sci. U.S.A. 88:2326–2330(1991). D90294

S.leucomaenis leucomaenis (white-spotted charr) Fok(SLL)-6 gene.  
Kido Y., Aono M., Yamaki T., Matsumoto K.I., Murata S., Saneyoshi M., Okada N.;  
Proc. Natl. Acad. Sci. U.S.A. 88:2326–2330(1991). D90295

S.leucomaenis leucomaenis (white-spotted charr) Fok(SLL)-1 gene.  
Kido Y., Aono M., Yamaki T., Matsumoto K.I., Murata S., Saneyoshi M., Okada N.;  
Proc. Natl. Acad. Sci. U.S.A. 88:2326–2330(1991). D90293

X.laevis c-myc I gene (exon 1 & partial exon 2).  
Principaud E., Spohr G.;  
Nucleic Acids Res. 19:3081–3088(1991). X56871

X.laevis c-myc I alternative exon 1 mRNA.  
Principaud E., Spohr G.;  
Nucleic Acids Res. 19:3081–3088(1991). X56869

X.laevis c-myc II gene (exon 1 & partial exon 2).  
Principaud E., Spohr G.;  
Nucleic Acids Res. 19:3081–3088(1991). X56872

X.laevis c-myc II mRNA for MYC II.  
Principaud E., Spohr G.;  
*Nucleic Acids Res.* 19:3081–3088(1991). X56870

X. laevis ODC mRNA for ornithine decarboxylase (EC 4.1.1.17)  
Bassez T., Paris J., Omilli F., Dorel C., Osborne H.B.;  
*Development* 110:955–962(1990). X56316

X.laevis SRF mRNA for serum response factor.  
Mohun T.J., Chambers A.E., Towers N., Taylor M.V.;  
*EMBO J.* 10:933–940(1991). X56451

*INVERTEBRATES:*

D.discoideum annexin VII (synexin) mRNA, complete cds.  
Doering V., Schleicher M., Noegel A.A.;  
*J. Biol. Chem.* (In Press) M69022

D.discoideum CAPP1 gene for cyclic AMP-binding protein (variant V12M2)  
Bonfils C.N., Hebert J., Tsang A.S.;  
*Biochim. Biophys. Acta* 1088:145–146(1991). X55975

Drosophila 42A gene for actin  
Burn T.C., Tobin S.L.;  
Unpublished. X54848

Drosophila melanogaster myogenic-determination protein (Dmyd) mRNA, complete cds.  
Paterson B.M., Walldorf U., Eldridge J., Duebendorfer A., Frasch M., Gehring W.J.;  
*Proc. Natl. Acad. Sci. U.S.A.* 88:3782–3786(1991). M68897

Drosophila melanogaster metallothionein N gene, complete cds.  
Theodore L., Ho A.S., Maroni G.;  
*Genet. Res.* (In Press) M69015

D.melanogaster DmRP128 gene for RNA polymerase III second-largest subunit  
Seifarth W., Petersen G., Kontermann R., Riva M., Huet J., Bautz E.F.K.;  
Unpublished. X58826

D.melanogaster runt segmentation gene, 5' end  
Kania M.A., Bonner A.S., Duffy J.B., Gergen J.P.;  
*Genes Dev.* 4:1701–1713(1990). X55719

D.melanogaster mRNA for runt segmentation gene  
Kania M.A., Bonner A.S., Duffy J.B., Gergen J.P.;  
*Genes Dev.* 4:1701–1713(1990). X56432

D.melanogaster white-one mutant DNA with Doc retroposon, inserted in white locus promoter region  
O'hare K., Alley M.R.K., Cullingford T.E., Driver A., Sanderson M.J.;  
*Mol. Gen. Genet.* 225:17–24(1991). X17551

Drosophila simulans metallothionein (Mtn) gene, complete cds.  
Theodore L., Ho A.S., Maroni G.;  
*Genet. Res.* (In Press) M69016

E.octocarinatus gene for secreted pheromone 3  
Bruenen-Nieweler C., Schmidt H.J., Heckmann K.;  
Unpublished. X58145

Human U2II RNA gene  
Hartshorne T., Agabian N.;  
*Genes Dev.* 4:2121–2131(1990). X56454

Human U2III RNA gene  
Hartshorne T., Agabian N.;  
*Genes Dev.* 4:2121–2131(1990). X56455

L.collosoma U2I RNA gene  
Hartshorne T., Agabian N.;  
*Genes Dev.* 4:2121–2131(1990). X56453

L.variegatus transcription factor SUM-1 mRNA, complete cds.  
Venuti J.M., Goldberg L., Chakraborty T., Olson E.N., Klein W.H.;  
*Proc. Natl. Acad. Sci. U.S.A.* (In Press) M69052

American cockroach mRNA for lipopolysaccharide-binding protein.  
Jomori T., Natori S.;  
Unpublished. D00711

Pyemotes tritici paralytic neurotoxin (TxP-I) mRNA, complete cds.  
Tomalski M.D., Miller L.K.;  
*Nature* (In Press) M68863

Trypanosoma cruzi A13 antigen gene, partial cds.  
Paranhos G.S., Cotrim P.C., Mortara R.A., Rassi A., Corral R., Freilij H.L., Grinstein S., Wanderley J., Camargo M.E., Silveira J.F.;  
Unpublished. M69114

Trypanosoma cruzi tandem cysteine proteinase genes, C-terminal and N-terminal cds.  
Campetella O., Henriksson J., Aslund L., Frasch A.C., Pettersson J., Cazzulo J.J.;  
Unpublished. M69121

T.cruzi U2I RNA gene  
Hartshorne T., Agabian N.;  
*Genes Dev.* 4:2121–2131(1990). X56456

T.cruzi U2II RNA gene  
Hartshorne T., Agabian N.;  
*Genes Dev.* 4:2121–2131(1990). X56457

T.cruzi U2III RNA gene  
Hartshorne T., Agabian N.;  
*Genes Dev.* 4:2121–2131(1990). X56458

U.caupo gene for H2A, H2B, H3, and H4 histones  
Davis F.C., Shelton J.C., Ingham L.D.;  
Unpublished. X58895

*PLANTS:*

A.magnifica rbcL gene for ribulose 1,5-bisphosphate carboxylase  
Doerksen A.H., Strauss S., Price R.;  
Unpublished. X58391

A.thaliana auxin-inducible gene Aux2–11  
Conner T.W., Goekjian V.H., LaFayette P.R., Key J.L.;  
*Plant Mol. Biol.* 15:623–632(1990). X53435

A.thaliana auxin-inducible Aux2–27 gene  
Conner T.W., Goekjian V.H., LaFayette P.R., Key J.L.;  
*Plant Mol. Biol.* 15:623–632(1990). X53436

- Arabidopsis thaliana plant-type connexin 32 mRNA, complete cds.  
Meiners S., Xu A., Schindler M.;  
Proc. Natl. Acad. Sci. U.S.A. 88:4119–4122(1991). M63234
- B.campestris NS1 mRNA for NS1 glycoprotein  
Isogai A.;  
Unpublished. X58440
- B.napus Bp19 gene  
Albani D., Altosaar I., Arnison P.G., Fabijanski S.F.;  
Plant Mol. Biol. 16:501–513(1991). X56195
- C.cohnii HCc1 mRNA for p14 protein  
Sala-Rovira M.;  
Unpublished. X58443
- C.cohnii HCc2 mRNA for p14 (alpha) protein  
Sala-Rovira M., Geraud M.L., Caput D., Jacques F., Soyer-Gobillard M.O., Vernet G., Herzog M.;  
Unpublished. X58444
- C.sativus hpr-A gene for NADH-dependent hydroxypyruvate reductase  
Schwart B.W., Sloan J.S., Becker W.M.;  
Unpublished. X58542
- D. carota mRNA for a glycine-rich protein  
Sturm A.;  
Unpublished. X58146
- Glycine max calcium dependent protein kinase mRNA.  
Harper J.F., Sussman M.R., Schaller G.E., Putnam-Evans C., Charbonneau H., Harmon A.C.;  
Science (In Press) M64987
- H.vulgare mRNA for flavanone-3-hydroxylase.  
Meldgaard M.;  
Unpublished. X58138
- Hordeum vulgare beta-ketoacyl-ACP synthase I (Kas12) mRNA, complete cds.  
Siggaard-Andersen M., Kauppinen S., von Wettstein-Knowles P.;  
Proc. Natl. Acad. Sci. U.S.A. 88:4114–4118(1991). M60410
- Barley DNA with region homologous to thiol protease (aleurain).  
Li X.Y., Rogers S.W., Rogers J.C.;  
Unpublished. X58859
- Tomato ETH.1 gene, involved in ethylene biosynthesis  
Kock M., Hamilton A.J., Grierson D.;  
Unpublished. X58273
- Tomato ubi3 gene for ubiquitin  
Hoffman N.E., Ko K.K., Milkowski D., Pichersky E.;  
Unpublished. X58253
- M.sativa mRNA for heat shock protein (clone pMsHsp18.1), partial cds  
Gyorgyey J., Gartner A., Nemeth K., Magyar Z., Hirt H., Heberle-Bors E., Dudits D.;  
Plant Mol. Biol. 0:0–0(1991). X58710
- M.sativa mRNA for heat shock protein (clone pMsHsp18.2)  
Gyorgyey J., Gartner A., Nemeth K., Magyar Z., Hirt H., Heberle-Bors E., Dudits D.;  
Plant Mol. Biol. 0:0–0(1991). X58711
- N.rustica cytoplasmic tRNA-tyr gene (pNtY1 clone).  
Fuchs T., Beier D., Beier H.;  
Unpublished. X58501
- N.rustica cytoplasmic tRNA-tyr gene (pNtY10 clone).  
Fuchs T., Beier D., Beier H.;  
Unpublished. X58510
- N.rustica cytoplasmic tRNA-tyr gene (pNtY11 clone).  
Fuchs T., Beier D., Beier H.;  
Unpublished. X58511
- N.rustica cytoplasmic tRNA-tyr gene (pNtY12 clone).  
Fuchs T., Beier D., Beier H.;  
Unpublished. X58512
- N.rustica cytoplasmic tRNA-tyr gene (pNtY13 clone).  
Fuchs T., Beier D., Beier H.;  
Unpublished. X58513
- N.rustica cytoplasmic tRNA-tyr pseudogene (pNtY2 clone).  
Fuchs T., Beier D., Beier H.;  
Unpublished. X58502
- N.rustica cytoplasmic tRNA-tyr gene (pNtY3 clone).  
Fuchs T., Beier D., Beier H.;  
Unpublished. X58503
- N.rustica cytoplasmic tRNAC-tyr gene (pNtY4 clone).  
Fuchs T., Beier D., Beier H.;  
Unpublished. X58504
- N.rustica cytoplasmic tRNA-tyr gene (pNtY5 clone).  
Fuchs T., Beier D., Beier H.;  
Unpublished. X58505
- N.rustica cytoplasmic tRNA-tyr gene (pNtY6 clone).  
Fuchs T., Beier D., Beier H.;  
Unpublished. X58506
- N.rustica cytoplasmic tRNA-tyr gene (pNtY7 clone).  
Fuchs T., Beier D., Beier H.;  
Unpublished. X58507
- N.rustica cytoplasmic tRNA-tyr gene (pNtY8 clone).  
Fuchs T., Beier D., Beier H.;  
Unpublished. X58508
- N.rustica cytoplasmic tRNA-tyr gene (pNtY9 clone).  
Fuchs T., Beier D., Beier H.;  
Unpublished. X58509
- N.sylvestris DNA for 31kD chloroplast ribonucleoprotein.  
Li Y., Ye L., Sugita M., Sugira M.;  
Nucleic Acids Res. 19:2987–2991(1991). X57079
- Tobacco CAB36 gene for chlorophyll a/b binding protein  
Kavanagh T.A., Bevan M.W.;  
Unpublished. X58230
- Tobacco CAB7 gene for chlorophyll a/b binding protein  
Kavanagh T.A., Bevan M.W.;  
Unpublished. X58229
- P.crispum PR2 mRNA for pathogenesis-related protein 2  
van de Loecht U., Meier I., Hahlbrock K., Somssich I.E.;  
EMBO J. 9:2945–2950(1990). X58698

*P. crispum* PR2 gene for pathogenesis-related protein 2  
van de Loecht U., Meier I., Hahlbrock K., Somssich I.E.;  
EMBO J. 9:2945–2950(1990). X55736

*P. kaempferi* chloroplast *rbcl* gene for ribulose 1,5-bisphosphate  
carboxylase large subunit  
Doerksen A.H., Strauss S., Price R.;  
Unpublished. X58782

*P. vulgaris* pfe mRNA for ferritin  
Spence M.J., Sengupta-Gopalan C., Henzl M.T., Lammers P.J.;  
Unpublished. X58274

Maize gene for a 27kDa storage protein, zein  
Das O.P., Poliak E., Ward K., Messing J.;  
Nucleic Acids Res. 19:3325–3330(1991). X58197

#### FUNGI:

*H. polymorpha* DL1 DNA for region containing 9 open reading  
frames  
Krutulina A.I.;  
Unpublished. X58862

*Neurospora crassa* ornithine decarboxylase (*spe-1*) mRNA, complete  
cds.  
Williams L.J., Barnett G.R., Ristow J.L., Pitkin J., Perriere M.,  
Davis R.H.;  
Unpublished. M68969

*N. crassa* *phr* gene for photolyase  
Yajima H., Inoue H., Oikawa A., Yasui A.;  
Unpublished. X58713

*S. cerevisiae* AHT1 gene for an activator of hexose transport  
Oezcan S., Ciriacy M.;  
Unpublished. X59464

*S. cerevisiae* cell division cycle protein (CDC6) gene, complete cds.  
Colasanti J.J., Comer A.R., Bruschi C.V.;  
Mol. Cell. Biol. (In Press) M22858

*S. cerevisiae* CTD kinase largest subunit (CTK1) gene, complete  
cds.  
Lee J.M., Greenleaf A.L.;  
Gene Expression (In Press) M69024

*S. cerevisiae* DBP1 gene  
Jamieson D.J., Beggs J.D.;  
Mol. Microbiol. 5:805–812(1991). X55993

Yeast DPB3 gene for subunit C of DNA polymerase II  
Araki H., Hamatake R.K., Morrison A., Johnson A.L., Johnston  
L.H., Sugino A.;  
Unpublished. X58500

*S. cerevisiae* PUT3 gene for proline utilization trans-activator  
Marczak J.E., Brandriss M.C.;  
Mol. Cell. Biol. 11:2609–2619(1991). X55384

*S. cerevisiae* SMP3 gene  
Irie K., Araki H., Oshima Y.;  
Mol. Gen. Genet. 0:0–0(1991). X58121

*S. cerevisiae* YURI gene (3' end), TIF2 gene for eIF-4a, and RPB4  
gene for RNA polymerase II subunit 4  
Foreman P.K., Davis R.W., Sachs A.B.;  
Unpublished. X58099

*S. pombe* *cdc21* gene for protein required for S phase execution  
Coxon A., Maundrell K., Kearsley S.E.;  
Unpublished. X58824

#### ORGANELLES:

*P. sylvestris* chloroplast *trnk* gene 3' exon for tRNA-Lys.  
Lidholm J.A., Gustafsson P.;  
Nucleic Acids Res. 19:2881–2887(1991). X57098

*P. sylvestris* chloroplast *trnk* gene 5' exon for tRNA-Lys.  
Lidholm J.A., Gustafsson P.;  
Nucleic Acids Res. 19:2881–2887(1991). X57099

*P. contorta* chloroplast *psbAI* gene, *trnk* gene, *psbAII* gene, *trnH*  
gene and ORF515 for D1 protein of photosystem II, tRNA-Lys and  
tRNA-His (rearranged region).  
Lidholm J.A., Gustafsson P.;  
Nucleic Acids Res. 19:2881–2887(1991). X57097

Maize chloroplast ORF170 and *psaA* gene  
Kangasjarvi J., Gengenbach B.G.;  
Unpublished. X58080

*B. bassiana* mitochondrial genes for tRNA-Ser, -Trp and -Pro  
Hegedus D.D., MacPherson J.M., Pfeifer T.A., Khachatourians  
G.G.;  
Unpublished. X56663

*B. bassiana* mitochondrial genes for tRNA-Val and -Ile  
Hegedus D.D., MacPherson J.M., Pfeifer T.A., Khachatourians  
G.G.;  
Unpublished. X56664

*Gomphosus varius* mitochondrial cytochrome oxidase I gene, partial  
cds.  
Normark B.B., McCune A.R., Harrison R.G.;  
Mol. Biol. Evol. (In Press) M64894

*Gomphosus varius* mitochondrial cytochrome oxidase II gene, 5'  
end.  
Normark B.B., McCune A.R., Harrison R.G.;  
Mol. Biol. Evol. (In Press) M64895

*Gomphosus varius* mitochondrial cytochrome b gene, partial cds.  
Normark B.B., McCune A.R., Harrison R.G.;  
Mol. Biol. Evol. (In Press) M64896

*Lepisosteus oculatus* mitochondrial cytochrome oxidase I gene,  
partial cds.  
Normark B.B., McCune A.R., Harrison R.G.;  
Mol. Biol. Evol. (In Press) M64897

*Lepisosteus oculatus* mitochondrial cytochrome oxidase II gene, 5'  
end.  
Normark B.B., McCune A.R., Harrison R.G.;  
Mol. Biol. Evol. (In Press) M64898

*Lepisosteus oculatus* mitochondrial cytochrome b gene, partial cds.  
Normark B.B., McCune A.R., Harrison R.G.;  
Mol. Biol. Evol. (In Press) M64899



Lepisosteus oculatus mitochondrial cytochrome oxidase I gene, partial cds.  
Normark B.B., McCune A.R., Harrison R.G.;  
Mol. Biol. Evol. (In Press) M64900,M64902–M64903

Lepisosteus oculatus mitochondrial cytochrome oxidase II gene, 5' end.  
Normark B.B., McCune A.R., Harrison R.G.;  
Mol. Biol. Evol. (In Press) M64901

Megalops atlanticus mitochondrial cytochrome oxidase II gene, 5' end.  
Normark B.B., McCune A.R., Harrison R.G.;  
Mol. Biol. Evol. (In Press) M64904

Megalops atlanticus mitochondrial cytochrome b gene, partial cds.  
Normark B.B., McCune A.R., Harrison R.G.;  
Mol. Biol. Evol. (In Press) M64905

Polyodon spathula mitochondrial cytochrome oxidase I gene, partial cds.  
Normark B.B., McCune A.R., Harrison R.G.;  
Mol. Biol. Evol. (In Press) M64908

Polyodon spathula mitochondrial cytochrome oxidase II gene, 5' end.  
Normark B.B., McCune A.R., Harrison R.G.;  
Mol. Biol. Evol. (In Press) M64909

Rat mitochondrial ND1 gene (partial) for NADH dehydrogenase, mitochondrial subunit 1  
Davies J.D., Wilson D.H., Hermel E., Lindahl K.F., Butcher G.W., Wilson D.B.;  
J. Exp. Med. 173:823–832(1991). X56833

Scaphirhynchus platyrhynchus cytochrome oxidase II gene, 5' end.  
Normark B.B., McCune A.R., Harrison R.G.;  
Mol. Biol. Evol. (In Press) M64920

Scaphirhynchus platyrhynchus mitochondrial cytochrome b gene, partial cds.  
Normark B.B., McCune A.R., Harrison R.G.;  
Mol. Biol. Evol. (In Press) M64921

Scaphirhynchus platyrhynchus mitochondrial cytochrome oxidase I gene, partial cds.  
Normark B.B., McCune A.R., Harrison R.G.;  
Mol. Biol. Evol. (In Press) M64919

#### PROKARYOTES:

A.tumefaciens ros gene, complete cds.  
Cooley M.B., D'Souza M.R., Kado C.I.;  
J. Bacteriol. 173:2608–2616(1991). M65201

A.variabilis prcA gene for a calcium dependent protease  
Maldener I., Lockau W., Cai Y., Wolk C.P.;  
Mol. Gen. Genet. 225:113–120(1991). X56955

B.subtilis (trpE26 mut) 16S rRNA gene, 5'end  
Jarvis E.D., Cheng S., Rudner R.;  
Genetics 126:785–797(1990). X55333

B.subtilis 16S rRNA gene, 5'end  
Jarvis E.D., Cheng S., Rudner R.;  
Genetics 126:785–797(1990). X55332

B.subtilis 16S DNA downstream citG gene  
Jarvis E.D., Cheng S., Rudner R.;  
Genetics 126:785–797(1990). X55334

B.thuringiensis cryIG gene for delta-endotoxin CryIG.  
Osterman A.L., Smulevitch S.V., Shevelev A.B., Kaluger S.V., Karasin A.I., Kadyrov R.M., Zagnitko O.P., Chestukhina G.G.;  
Unpublished. X58120

Clostridium acetobutylicum autolytic lysozyme (lyc) gene, complete cds.  
Croux C., Garcia J.L.;  
Gene (In Press) M68865

Caulobacter crescentus hfaH gene, complete cds.  
Kurtz H.D.Jr., Smit J.;  
Unpublished. M69129

C.ruminantium (clone pCR9) DNA for unknown ORF.  
Waghela S.D., Rurangirwa F.R., Mahan S.M., Yunker C.E., Crawford T.B., Barbet A.F., Burrige M.J., McGuire T.C.;  
Unpublished. X58243

C.ruminantium (clone pCS20) DNA for unknown ORF.  
Waghela S.D., Rurangirwa F.R., Mahan S.M., Yunker C.E., Crawford T.B., Barbet A.F., Burrige M.J., McGuire T.C.;  
Unpublished. X58242

C.thermocellum laminarinase gene for 1,3-(1,3:1,4)-beta-D- glucan 3(4)-glucanohydrolase  
Zverlov V.V., Velikodvorskaja G.A.;  
Biotechnol. Lett. 12:811–816(1990). X58392

E.coli DNA for alpha-acceptor polypeptide M15 (partial)  
Prentki P.C.;  
Unpublished. X58252

E. coli arcB gene for ArcB membrane protein  
Iuchi S., Matsuda Z., Fujiwara T., Lin E.C.C.;  
Mol. Microbiol. 4:715–727(1990). X53315

Escherichia coli lysine decarboxylase (cadB, and cadC, complete cds, and cadA, 5' end) genes.  
Olson E.R., Watson E.B., Duniak D.S.;  
Unpublished. M67452

E.coli fepC, fepD and fepG genes for ferric enterobactin transport proteins  
Chenault S., Earhart C.F.;  
Unpublished. X57471

E.coli p43 gene for a membrane protein  
Chenault S., Earhart C.F.;  
Unpublished. X57470

E.coli phosphoenolpyruvate synthase (pps) gene, complete cds.  
Holzschu D.L., McElver J.A., Liao C.C., Berry A.;  
Unpublished. M69116

E.coli stress-induced psp operon DNA  
Brissette J.L., Weiner L., Ripmaster T.L., Model P.;  
Unpublished. X57560

E.coli tRNA-Sec (selC, specific for selenocysteine)  
Boeck A., Forchhammer K., Heider J., Leinfelder W., Sawers G., Veprek B., Zinoni F.;  
Mol. Microbiol. 5:515–520(1991). Y00299

- E. coli* (Tn5086) dhfrVII gene for dihydrofolate reductase type VII and sull gene, 5' end  
Sundstroem L., Swedberg G., Skold O.;  
Unpublished. X58425
- E. stewartii* rcsA gene for RcsA protein, a positive activator of extracellular polysaccharide biosynthesis  
Poetter K., Coplin D.L.;  
Unpublished. X58707
- F. aurantiacus* 16S ribosomal RNA.  
Woese C.R., Yang D., Mandelco L., Stetter K.O.;  
*Syst. Appl. Microbiol.* 13:161–165(1990). M62792
- Haemophilus influenzae* e lipoprotein (hel) gene, complete cds.  
Green B.A., Farley J.E., Quinn-Dey T., Deich R.A., Zlotnick G.W.;  
Unpublished. M68502
- K. pneumoniae* pqqABCDEF genes, involved in pyrroloquinoline biosynthesis  
Meulenberg J.J.M., Sellink E., Riegman N.H., Postma P.W.;  
Unpublished. X58778
- Lactococcus lactis* putative transposase gene, complete cds.  
Van Rooijen R.J., de Vos W.M.;  
Unpublished. M68943
- M. tuberculosis* 35-kDa protein gene, complete cds.  
O'Connor S.P., Rumschlag H.S., Mayer L.W.;  
*Res. Microbiol.* 141:407–423(1991). M69187
- Mycobacterium tuberculosis* folA gene (putative) for dihydrofolate reductase  
Patki A.H., Dale J.W.;  
Unpublished. X59271
- Mycobacterium tuberculosis* thyA gene (putative) for thymidilate synthase, and ORF (homologous to unidentified ORF adjacent to dnaB in *Bacillus subtilis* [BSDNAB2])  
Patki A.H., Dale J.W.;  
Unpublished. X59273
- N. lactamica* M.NlaIII and M.NlaX genes for NlaIII methyltransferase and cytosine-specific methyltransferase respectively.  
Labbe D., Hoeltke H.J., Lau P.C.K.;  
*Mol. Gen. Genet.* 224:101–110(1990). X54485
- B. pertussis* gene for a porin protein  
Li Z.M., Hannah J.H., Stibitz S., Nguyen N.Y., Manclark C., Brennan M.J.;  
*Mol. Microbiol.* 0:0–0(1991). X58488
- R. capsulatus* fru operon containing fruB(HI), fruK, and fruA genes encoding multiphosphoryl transfer protein (MTP), fructose-1-P kinase, and fructose enzyme II, respectively  
Wu L.F., Tomich J.M., Saier M.H.Jr.;  
*J. Mol. Biol.* 213:687–703(1990). X53150
- Rickettsia prowazekii* aminopeptidase A (pepA) gene, complete cds.  
Wood D.O., Speed R.R., Solomon M.;  
Unpublished. M68966
- S. acidocaldarius* ATPase operon c subunit (atpP) gene, 3'end.  
Denda K., Konishi J., Hajiro K., Oshima T., Date T., Yoshida M.;  
*J. Biol. Chem.* 265:21509–21513(1990). M61216
- S. carnosus* PEP-dependent HPr protein kinase phosphoryltransferase (ptsI) gene, complete cds.  
Kohlbrecher D., Eisermann R., Hengstenberg W.;  
Unpublished. M69050
- Synechocystis* sp. operon atp1 for seven subunits of the FoF1 ATP synthase: genes atpI, atpH, atpG, atpF, atpD, atpA, and atpC (for ATPase subunits a, c, b', b, delta, alpha, and gamma respectively) and gene1 for unknown product.  
Lill H., Nelson N.;  
Unpublished. X58128
- Synechocystis* sp. operon atp2 for two subunits of the FoF1 ATP synthase; genes atpB and atpE for ATPase subunits beta and epsilon respectively.  
Lill H., Nelson N.;  
Unpublished. X58129
- S. solfataricus* gene for docking protein, and three open reading frames  
Ramirez C., Matheson A.T.;  
Unpublished. X58538
- Salmonella typhimurium* ribosomal protein S12 and ribosomal protein S7 (rpsL) gene, complete cds and 5' end.  
Hughes D., Buckingham R.H.;  
Unpublished. M68548
- T. aquaticus* spc operon for ribosomal proteins S17, L14, L24, L5, S14, S8 & L6  
Jahn O., Hartmann R.K., Erdmann V.A.;  
*Eur. J. Biochem.* 197:733–740(1991). X56552
- Transposon Tn7 streptothricin acetyltransferase gene, complete cds, dhfrI gene, 3' end, aadA1 gene, complete cds.  
Sundstroem L., Roy P.H., Skoeld O.;  
*J. Bacteriol.* 173:3025–3028(1991). M63169
- Escherichia coli* (strain ECOR 10, isolate ANI/human isolate/NY) glyceraldehyde-3-phosphate dehydrogenase gene, partial cds.  
Nelson K., Whittam T.S., Selander R.K.;  
*Proc. Natl. Acad. Sci. U.S.A.* (In Press) M66870
- Escherichia coli* (strain ECOR 32, isolate RM28 (f)/giraffe/Washington zoo) glyceraldehyde-3-phosphate dehydrogenase gene, partial cds.  
Nelson K., Whittam T.S., Selander R.K.;  
*Proc. Natl. Acad. Sci. U.S.A.* (In Press) M66872

#### VIRUSES:

- Autographa californica* nuclear polyhedrosis virus Cu-Zn superoxide dismutase (sod) gene, complete cds.  
Tomalski M.D., Eldridge R., Miller L.K.;  
Unpublished. M68862
- Bovine enteric coronavirus, spike glycoprotein gene.  
Boireau P., Cruciere C., Laporte J.;  
*J. Gen. Virol.* 71:487–492(1990). D00731
- Eastern equine encephalomyelitis virus 26S genomic mRNA, complete cds.  
Weaver S.C., Scott T.W., Rico-Hesse R.;  
*Virology* 182:774–784(1991). M69094

- Human herpesvirus 6 major capsid protein, alkaline exonuclease, phosphotransferase and integral membrane protein genes, complete cds.; origin-binding protein gene, 5' end; and 14 open reading frames.  
Lawrence G.L., Chee M., Craxton M.A., Gompels U.A., Honess R.W., Barrell B.G.;  
*J. Virol.* 64:287–299(1990). M68963
- Pseudorabies virus latency-associated transcript (LAT) transcription unit, complete sequence.  
Priola S.A., Stevens J.G.;  
*Virology* 182:852–856(1991). M69019
- Human immunodeficiency virus type 1 (HIV-1) tat and rev genes, exons 2 and 3, vpu and env genes, complete cds and nef gene, 5' end.  
Reitz M., Popovic M., Gartner S., Gallo R., Reed-Connole E., Beaver B.;  
Unpublished. M68893
- Human immunodeficiency virus type 1 (HIV-1) tat and rev genes, exons 1 and 2, vpu and env genes, complete cds and nef gene, 5' end.  
Reitz M., Popovic M., Gartner S., Gallo R., Reed-Connole E., Beaver B.;  
Unpublished. M68894
- Human immunodeficiency virus type 1 (isolate J91) gene for env (partial)  
Guo H.G., Chermann J.C., Waters D., Hall L., Louie A., Gallo R.C., Streicher H., Reitz M.S.;  
*Nature* 349:745–746(1991). X57453
- Human immunodeficiency virus type 1 (HIV-1) long terminal repeat, partial sequence.  
Zimmermann K., Dobrovnik M., Ballaun C., Bevec D., Hauber J., Boehnlein E.;  
*Virology* 182:874–878(1991). M69075
- Human immunodeficiency virus type 1 (HIV-1) envelope gene, complete cds.  
Evans L., Higgins D., Cheng-Mayer C., Levy J.;  
Unpublished. M66533–M66535
- Hepatitis C virus genomic RNA.  
Hijikata M., Kato N., Ootsuyama Y., Nakagawa M., Ohkoshi S., Shimotohno K.;  
*Biochem. Biophys. Res. Commun.* 175:220–228(1991). D00689-D00690
- Haemorrhagic septicaemia virus mRNA of the N gene  
Bernard J., Bremont M., Winton J.;  
Unpublished. X59241
- Herpesvirus saimiri sRNA1, sRNA2, sRNA3 and sRNA4 genes for small viral RNAs  
Geck P., Whitaker S.A., Medveczky M.M., Last T.J., Medveczky P.G.;  
Unpublished. X58774
- Human T-cell leukemia virus I env gene, complete cds and protein 27 gene, 3' end.  
Paine E., Garcia J., Philpott T.C., Shaw G., Ratner L.;  
*Virology* 182:111–123(1991). M67490
- Human T-cell leukemia virus I (HTLV1) envelope (env) gene, 5' end.  
De B.K., Lairmore M.D., Griffis K., Williams L.J., Villinger F., Quinn T.C., Brown C., Nzilambi, Sugimoto M., Araki S., Folks T.M.;  
*Virology* 182:413–419(1991). M64263–M64264
- Human T-cell leukemia virus I env gene, complete cds and protein 27 gene, 3' end.  
Paine E., Garcia J., Philpott T.C., Shaw G., Ratner L.;  
*Virology* 182:111–123(1991). M67514
- Human papillomavirus type 41  
Hirt L., Hirsch-Behnam A., De Villiers E.M.;  
*Virus Res.* 18:179–190(1990). X56147
- Chicken anemia virus ORF1, ORF2, ORF3 (Cux-1) gene, complete cds.  
Noteborn M.H.M., de Boer G.F., Roozelaar D.J., Karreman C., Kranenburg O., Vos J.G., Jeurissen S.H., Hoeven R.C., Zantema A., Koch G., Van ormond H., der Eb A.J.;  
*J. Virol.* 65:3131–3139(1991). M55918
- Porcine rotavirus mRNA for VP7 outer capsid protein (segment 9)  
Akopian T.A., Lunin V.G., Kruglyak V.A., Ruchadze G.G., Bakhutashvili V.I., Naroditsky B.S., Tikhonenko T.I.;  
Unpublished. X58439
- Lymphoproliferative disease virus of turkeys, proviral long terminal repeat  
Gak E., Yaniv A., Sherman S., Ianconescu M., Tronick S.R., Gazit A.;  
*Gene* 99:157–162(1991). X16286
- Respiratory syncytial virus phosphoprotein (P) gene, complete cds.  
Caravokyri C., Pringle C.R.;  
*Virus Genes* (In Press) M67450
- Rice tungro bacilliform virus (infectious clone) ORF's P24, P12, P194 & P46  
Hay J.M., Jones M.C., Blakebrough M., Dasgupta I., Davies J.W., Hull R.;  
*Nucleic Acids Res.* 19:2615–2621(1991). X57924
- Simian immunodeficiency virus (rhesus macaques) (SIVmac) envelope gene, complete cds.  
Unger R.E., Stout M.W., Luciw P.A.;  
*Virology* 182:177–185(1991). M65865
- Simian immunodeficiency virus (rhesus macaques) (SIVmac) tat and rev genes, complete cds.  
Unger R.E., Stout M.W., Luciw P.A.;  
*Virology* 182:177–185(1991). M65864
- Simian immunodeficiency virus (rhesus macaques) (SIVmac) noncoding exons, 5' to coding exons of tat, rev, and env.  
Unger R.E., Stout M.W., Luciw P.A.;  
*Virology* 182:177–185(1991). M65863
- Sendai virus T-5 revertant complete genome.  
Tashiro M., James I., Karri S., Wahn K., Tobita K., Klenk H.D., Rott R., Seto J.T.;  
*Virology* (In Press) M69046
- Chicory yellow mottle virus isolate C large satellite RNA.  
Rubino L., Tousignant M.E., Steger G., Kaper J.M.;  
*J. Gen. Virol.* (In Press) D00686
- Chicory yellow mottle virus isolate T small satellite RNA.  
Rubino L., Tousignant M.E., Steger G., Kaper J.M.;  
*J. Gen. Virol.* (In Press) D00685
- Viral haemorrhagic septicaemia virus, nucleocapsid protein gene.  
Bernard J., Lecoq-Xhonneux F., Rossius M., Thiry M.E., Kinkelin P.;  
*J. Gen. Virol.* 71:1669–1674(1990). D00687

**BACTERIOPHAGES:**

Bacteriophage PRD1, complete sequence.

Bamford J.K., Hanninen A.L., Pakula T.M., Ojala P.M.,  
Kalkkinen N., Frilander M., Bamford D.H.;  
*Virology* (In Press) M69077

Bacteriophage lambda EMBL3 right arm DNA with git gene,  
partial cds

Manninen I., Schulman A.H.;  
Unpublished. X58667

Bacteriophage lambda EMBL3 left arm DNA with int gene, partial  
cds

Manninen I., Schulman A.H.;  
Unpublished. X58668

**SYNTHETICS:**

Synthetic single-chain antigen-binding protein gene (7A4-1/212 SC-  
A) constructed from the antigen-binding (Fab) fragment of mouse  
catalytic monoclonal antibody NPN43C9 and linker DNA, partial  
cds.

Gibbs R.A., Posner B.A., Filpula D.R., Dodd S.W., Finkelman  
M.A.J., Lee T.K., Wroble M., Whitlow M., Benkovic S.J.;  
*Proc. Natl. Acad. Sci. U.S.A.* 88:4001-4004(1991). M68968

Synthetic DNA containing an exon from lambda genomic clone  
5W.

Buckler A.J., Chang D.D., Graw S.L., Brook J.D., Haber D.A.,  
Sharp P.A., Housman D.E.;  
*Proc. Natl. Acad. Sci. U.S.A.* 88:4005-4009(1991). M68967

Synthetic human mutated urokinase-type plasminogen activator  
gene, complete cds.

Adams D.S., Griffin L.A., Nachajko W.R., Reddy V.B., Wei  
C.M.;  
*J. Biol. Chem.* 266:8476-8482(1991). M69037

Cloning vector pFL281 beta-lactamase gene, complete cds.

Larimer F.W., Mural R.J., Soper T.S.;  
*Protein Eng.* 3:227-231(1991). M68946