
New nucleotide sequence data on the EMBL File Server

December 13, 1989 to December 27, 1989

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 and GenBank®, and data are supplied regularly by both groups. Updates to existing data are not reported here. This report has been prepared by the EMBL Data Library, and is itself available on the file server with the filename NUC:27-Dec-1989.NAR

Astasia longa chloroplast ribosomal DNA
Siemeister G., Hachtel W.;
Unpublished. X14386

Astasia longa chloroplast rpl5 gene for ribosomal protein L5
Siemeister G., Buchholz C., Hachtel W.;
Unpublished. X14384

Astasia longa chloroplast rps7 and tufA genes for ribosomal protein S7 and elongation factor Tu respectively
Siemeister G., Buchholz C., Hachtel W.;
Unpublished. X14385

Arabidopsis thaliana gene for acyl carrier protein
Post-Beitenmiller M.A., Hlousek-Radojicic A., Ohlrogge J.B.;
Nucleic Acids Res. 17:1777–1777(1989). X13708

Bovine mRNA for adrenodoxin reductase C-term. (EC 1.18.1.2)
Hanukoglu I., Gutfinger T.;
Eur. J. Biochem. 180:479–484(1989). X13736

Canine mRNA for thyrotropin (TSH) receptor
Parmentier M., Libert F., Maenhaut C., Lefort A., Gerard C.,
Perret J., Van Sande J., Dumont J.E., Vassart G.;
Nucleic Acids Res. 17:10493–10493(1989). X17146

Canine mRNA for thyrotropin (TSH) receptor variant
Parmentier M., Libert F., Maenhaut C., Lefort A., Gerard C.,
Perret J., Van Sande J., Dumont J.E., Vassart G.;
Nucleic Acids Res. 17:10493–10493(1989). X17147

Sinapis alba chloroplast rps16 gene
Neuhaus H., Scholz A., Link G.;
Curr. Genet. 15:63–70(1989). X13609

Endothia parasitica ds-RNA genetic element (ORF2 3'end)
Rae B.P., Hillman B.I., Tartaglia J., Nuss D.L.;
EMBO J. 8:657–663(1989). X14525

Narcissus mosaic virus (NMV), complete genome.
Zuidema D., Linthorst H.J.M., Huisman M.J., Asjes C.J., Bol
J.F.;
J. Gen. Virol. 70:267–276(1989). D00405

Dictyostelium discoideum sp96 gene for spore coat protein SP96
Fosnaugh K., Loomis W.F.;
Nucleic Acids Res. 17:9489–9489(1989). X16491

Drosophila melanogaster Ddc+4 gene regulatory sequence for
dopa decarboxylase (EC 4.1.1.28)
Sazci A., Spencer C.A., Hodgetts R.B.;
Unpublished. X15197

Chicken KBP gene for kainate-binding protein
Gregor P., Mano I., Maoz I., McKeown M., Teichberg V.I.;
Nature 342:689–692(1989). X17700

Human B cod gene for B/B' snRNP associated protein.
Schmauss C., McAllister G., Ohosone Y., Hardin J.A., Lerner
M.R.;
Nucleic Acids Res. 17:1733–1743(1989). X15893

Human bcr-abl mRNA fragment (clone 10b)
Romero P., Beran M., Shtalrid M., Andersson B., Talpaz M.,
Blick M.;
Oncogene 4:93–98(1989). X14676

Human bcr-abl mRNA 5' fragment (clone 3c)
Romero P., Beran M., Shtalrid M., Andersson B., Talpaz M.,
Blick M.;
Oncogene 4:93–98(1989). X14675

Human bcr-abl mRNA 5' fragment (clone 8a)
Romero P., Beran M., Shtalrid M., Andersson B., Talpaz M.,
Blick M.;
Oncogene 4:93–98(1989). X14677

Human calcitonin/alpha-CGRP gene
Broad P.M., Symes A.J., Thakker R.V., Craig R.K.;
Nucleic Acids Res. 17:6999–7011(1989). X15943

Human CD1 R3 gene for MHC-related antigen
Calabi F., Jarvis J.M., Martin L., Milstein C.;
Eur. J. Immunol. 19:285–292(1989). X14974

Human CD1 R2 gene for MHC-related antigen
Calabi F., Jarvis J.M., Martin L., Milstein C.;
Eur. J. Immunol. 19:285–292(1989). X14975

Human mRNA for phosphotyrosine kinase type II beta subunit
(EC 2.7.1.37)
Jakobi R., Voss H., Pyerin W.;
Eur. J. Biochem. 183:227–233(1989). X16937

Human COX VIIa-L mRNA for liver-specific cytochrome c
oxidase (EC 1.9.3.1.)
Fabrizi G.M., Rizzuto R., Nakase H., Mita S., Lomax M.I.,
Grossman L.I., Schon E.A.;
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Human fur gene 5' part
Van den Ouweland A.M.W., Van Groningen J.J.M., Roebrock
A.J.M., Onnekink C., Van de Ven W.J.M.;
Nucleic Acids Res. 17:7101–7102(1989). X15723

- Human hcerN3 gene mRNA for N snRNP associated protein.
Schmauss C., McAllister G., Ohosone Y., Hardin J.A., Lerner M.R.;
Nucleic Acids Res. 17:1733–1743(1989). X15892
- Human mRNA for 90-kDa heat-shock protein
Soeda E., Yokoyama K., Yamazaki M., Akaogi K., Miwa T., Imai T.;
Nucleic Acids Res. 17:7108–7108(1989). X15183
- Human IAPP mRNA 5' region for islet amyloid polypeptide precursor (IAP-c2)
Mosselman S., Hoepfner J.W.M., Lips C.J.M., Jansz H.S.;
FEBS Lett. 247:154–158(1989). X14905
- Human mRNA for integrin alpha-2 subunit
Takada Y., Hemler M.E.;
J. Cell Biol. 109:397–407(1989). X17033
- Human mRNA for preprokallikrein (EC 3.4.21)
Angermann A., Bergmann C., Appelhans H.;
Biochem. J. 262:787–793(1989). X13561
- Human gene for ornithine decarboxylase ODC (EC 4.1.1.17)
van Steeg H., van Oostrom C.T.M., Martens J.W.M., van Kreyll C.F., Schepens J., Wieringa B.;
Nucleic Acids Res. 17:8855–8856(1989). X16277
- Human DNA sequence 5'-flanking minisatellite
pMS1,pMS31,pMS51,pMS43A,pMS228B
Armour J.A.L., Wong Z., Wilson V., Royle N.J., Jeffreys A.J.;
Nucleic Acids Res. 17:4925–4935(1989).
X14857,X14858,X14861,X14863,X14865
- Human DNA sequence 3'-flanking minisatellite
pMS31,pMS32,pMS51,pMS43B
Armour J.A.L., Wong Z., Wilson V., Royle N.J., Jeffreys A.J.;
Nucleic Acids Res. 17:4925–4935(1989).
X14859,X14860,X14862,X14864
- Human gene for sex hormone-binding globulin (SHBG)
Gershagen S., Lundwall A., Fernlund P.;
Nucleic Acids Res. 17:9245–9258(1989). X16349
- Human alternative exon I for SHBG related protein
Gershagen S., Lundwall A., Fernlund P.;
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- Human testis mRNA for a sex hormone-binding related protein (SHBGgrp)
Gershagen S., Lundwall A., Fernlund P.;
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- Human mRNA for thrombospondin
Hennessy S.W., Frazier B.A., Kim D.D., Deckwerth T.L., Baumgartel D.M., Rotwein P., Frazier W.A.;
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Martinez-Balbas A., Rodriguez-Campos A., Garcia-Ramirez M., Sainz J., Carrera P., Aymami J., Azorin F.;
Biochemistry (In Press) J02885
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Martinez-Balbas A., Rodriguez-Campos A., Garcia-Ramirez M., Sainz J., Carrera P., Aymami J., Azorin F.;
Biochemistry (In Press) J02886
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Martinez-Balbas A., Rodriguez-Campos A., Garcia-Ramirez M., Sainz J., Carrera P., Aymami J., Azorin F.;
Biochemistry (In Press) J02887
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Frain M., Swart G., Monaci P., Nicosia A., Staempfli S., Frank R., Cortese R.;
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Arasu P., Nutman T.B., Steel C., Mulligan M.M., Abraham D., Tuan R.S., Perler F.B.;
Mol. Biochem. Parasitol. 36:223–232(1989). J04666
- Human aldose reductase mRNA, complete cds.
Chung S., LaMendola J.;
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- Yeast (*S.cerevisiae*)
isopentenylidiphosphate:dimethylallyldiphosphate isomerase gene, complete cds.
Anderson M.S., Muehlbacher M., Street I.D., Proffitt J., Poulter C.D.;
J. Biol. Chem. (In Press) J05090
- Yeast (*S.cerevisiae*) farnesyl diphosphate synthetase (FPP) gene, complete cds.
Anderson M.S., Yarger J.G., Burck C.L., Poulter C.D.;
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Reynolds D.S., Stevens R.L., Gurley D.S., Lane W.S., Austen K.F., Serafin W.E.;
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- Earthworm (*L.terrestris*) extracellular globin chain C gene, complete cds.
Jhiang S.M., Riggs A.F.;
J. Biol. Chem. (In Press) J05161
- M.xanthus* nucleoside 5'-diphosphate phosphotransferase (ndk) gene, complete cds.
Munoz-Dorado J., Inouye M., Inouye S.;
J. Biol. Chem. (In Press) J05207
- Lactobacillus* 30a hdcB gene for 20kD protein
Copeland W.C., Robertus J.D.;
Unpublished. X13099
- Chicken prolyl 4-hydroxylase alpha subunit gene, 3' end.
Bassuk J.A., Kao W.W.-Y., Herzer P., Kedersha N., Seyer J., DeMartino J.A., Daugherty B.L., Mark G.E.III., Berg R.A.;
Proc. Natl. Acad. Sci. USA 86:7382–7386(1989). M26217
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Fosnaugh K.L., Loomis W.F.;
Mol. Cell. Biol. 9:5215–5218(1989). M26238
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Fosnaugh K.L., Loomis W.F.;
Mol. Cell. Biol. 9:5215–5218(1989). M26239
- Human MUC18 gene mRNA, complete cds.
Lehmann J.M., Riethmueller G., Johnson J.P.;
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- B.stearothermophilus* pleiotropic regulatory protein gene (degT), complete cds.

- Takagi T., Takada H., Imanaka T.;
Unpublished. M29002
- Rat insulin receptor alpha and beta subunits, complete cds.
Goldstein B.J., Dudley A.L.;
Unpublished. M29014
- E.histolytica* mdr1 gene encoding multidrug resistant glycoprotein, partial cds.
Samuelson J., Ayala P., Orozco E., Wirth D.;
Mol. Biochem. Parasitol. (In Press) M29058
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Samuelson J., Ayala P., Orozco E., Wirth D.;
Mol. Biochem. Parasitol. (In Press) M29059
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Samuelson J., Ayala P., Orozco E., Wirth D.;
Mol. Biochem. Parasitol. (In Press) M29060
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Irie K., Mohan P.M., Sasaguri Y., Putnak R., Padmanabhan R.;
Gene 75:197–211(1989). M29095
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Cai S.-J., Wong D.M., Chen S.-H., Chan L.;
Biochemistry (In Press) M29186–M29194
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Guo P., Goebel S., Davis S., Perkus M.E., Languet B., Desmettre P., Allen G., Paoletti E.;
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Weiss S., Johansson B.;
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Weiss S., Johansson B.;
J. Immunol. 143:2384–2388(1989). M29267
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Weiss S., Johansson B.;
J. Immunol. 143:2384–2388(1989). M29268
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White J., Blackman M., Bill J., Kappler J., Marrack P., Gold D.P., Born W.;
J. Immunol. 143:1822–1825(1989). M29272
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Tsuji S., Yamauchi T., Hiraiwa M., Isobe T., Okuyama T., Sakimura K., Takahashi Y., Nishizawa M., Uda Y., Miyatake T.;
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- Human MUC18 gene mRNA (3' variant), complete cds.
Lehmann J.M., Riethmueller G., Johnson J.P.;
Proc. Natl. Acad. Sci. USA (In Press) M29277
- B.subtilis* spoIII gene, complete cds, and uat gene, 3' end.
Antoniewski C., Savelli B., Stragier P.;
J. Bact. (In Press) M29450
- Bacteriophage p4 sid and psu genes partial cds, and delta gene, complete cds.
Halling C., Sunshine M.G., Lane K.B., Six E.W., Calendar R.;
Unpublished. M29479
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Frank D.W., Storey D.G., Hindahl M.S., Iglewski B.H.;
J. Bact. 171:5304–5313(1989). M29685
- P.aeruginosa* 6'-N-acetyltransferase (AAC (6')-II) gene, complete cds.
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Weiss S., Johansson B.;
J. Immunol. 143:2384–2388(1989). M29702
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Osborne B.I., Guarente L.;
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Taylor R.K., Manoil C., Mekalanos J.J.;
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Linn T.G., St Pierre R.;
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Virology 172:498–505(1989). M29980
- Human alpha-I spectrin gene, exons 1–12
Sahr K.E., Tobe T., Scarpa A., Laughinghouse K., Marchesi S.L., Agre P., Linnenbach A.J., Marchesi V.T., Forget B.G.;
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Rotenberg M.O., Chow L.T., Broker T.R.;
Virology 172:489–497(1989). M29999

DNA sequence of part of the coding strand of the H-2K-b promoter.

Ackrill A.M., Blair G.E.;
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Lactate dehydrogenase-elevating virus 3' terminus RNA.

Godeny E.K., Werner M.R., Brinton M.A.;
Virology 172:647–650(1989). M30016–M30017

Lactate dehydrogenase-elevating virus 3' terminus RNA, isolate LDV-2,-3,-5

Godeny E.K., Werner M.R., Brinton M.A.;
Virology 172:647–650(1989). M30018–M30020

Avian sarcoma provirus PRCIISE, 3' LTR.

Hirano A., Wong T.C.;
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Avian sarcoma provirus PRCIISE mutant LA46, 3' LTR.

Hirano A., Wong T.C.;
Virology 172:651–654(1989). M30022

X.laevis Ig rearranged H-chain mRNA V-regions, partial cds, (V1-D5–J8-C),(V2-D6–J7-C),(V1-D6–J5-C),(V2-D2–J7-C),(V2-D5–J7-C),(V2-D5–J1-C),(V2-D5–J8-C),(V3-D5–J7-C),(V3-D4–J8-C),(V3-D4–J7-C),(V4-D5–J7-C),(V4-D3–J1-C),(V5-D1–J7-C),(J7-C)

Hsu E., Schwager J., Alt F.W.;
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M30024–M30037

Human tryptase mRNA, complete cds.

Miller J.S., Westin E.H., Schwartz L.B.;
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Capripoxvirus KS-1 ORF's HM2 and HM3, complete cds., and ORF's HM1 and HM4, partial cds.

Gershon P.D., Ansell D.M., Black D.N.;
J. Virol. 63:4703–4708(1989). M30039

Synthetic plasmid pUS100 arc protmoter/plasmid pTA200 str-s gene, 5' end.

Bowie J.U., Sauer R.T.;
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Mouse Ig H-chain mRNA V-region, partial cds, from hybridoma GP138-10.

Bailey N.C., Fidanza V., Mayer R., Mazza G., Fougereau M., Bona C.;
J. Clin. Invest. 84:744–756(1989). M30041

Mouse Ig H-chain mRNA V-region, partial cds, from hybridoma H45-5.

Bailey N.C., Fidenza V., Mayer R., Mazza G., Fougereau M., Bona C.;
J. Clin. Invest. 84:744–756(1989). M30042

Mouse Ig kappa chain mRNA V-region, partial cds, from hybridoma GP138-10.

Bailey N.C., Fidenza V., Mayer R., Mazza G., Fougereau M., Bona C.;
J. Clin. Invest. 84:744–756(1989). M30043

Mouse Ig kappa chain mRNA V-region, partial cds, from hybridoma H45-5.

Bailey N.C., Fidenza V., Mayer R., Mazza G., Fougereau M., Bona C.;
J. Clin. Invest. 84:744–756(1989). M30044

E.coli cold shock protein 7.4 (cspA) gene, complete cds.

Goldstein J., Pollitt S., Inouye M.;
Proc. Natl. Acad. Sci. USA (In Press) M30139

D.melanogaster Try-tRNA gene, complete cds.

Laski F.A., Ganguly S., Sharp P.A., RajBhandary U.L., Rubin G.M.;
Proc. Natl. Acad. Sci. USA 86:6696–6698(1989). M30263

Rat ribosomal protein L19 gene, partial cds.

Davies B., Feo S., Heard E., Fried M.;
Proc. Natl. Acad. Sci. USA 86:6691–6695(1989). M30264

Rat ribosomal protein L19 gene, 3' flank.

Davies B., Feo S., Heard E., Fried M.;
Proc. Natl. Acad. Sci. USA 86:6691–6695(1989). M30265

Human T-cell receptor alpha-chain 3' enhancer element.

Ho I.-C., Yang L.-H., Morle G., Leiden J.M.;
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Human motilin gene, 5' flank.

Daikh D.I., Douglass J O., Adelman J.P.;
DNA 8:615–621(1989). M30277

Human motilin gene, exons 2–5

Daikh D.I., Douglass J O., Adelman J.P.;
DNA 8:615–621(1989). M30278–M30281

Pig uteroferrin gene, 5' end.

Simmen R.C.M., Srinivas V., Roberts R.M.;
DNA 8:543–554(1989). M30283

Pig uteroferrin mRNA, complete cds.

Simmen R.C.M., Srinivas V., Roberts R.M.;
DNA 8:543–554(1989). M30284

Synthetic bacteriophage T7 RNA polymerase promoter/E.coli dnaX gene, 5' end.

Tsuchihashi Z., Kornberg A.;
J. Biol. Chem. 264:17790–17795(1989). M30296

Rat cardiac myosin light chain 2 (MLC-2) gene, exons 1–7

Henderson S.A., Spencer M., Sen A., Kumar C., Siddiqui M.A.Q., Chien K.R.;
J. Biol. Chem. 264:18142–18148(1989). M30298–M30304

Human Ig germline lambda-chain (autoantibody Humv117) gene, V-region, partial cds.

Siminovitch K.A., Misener V., Kwong P.C., Song Q.-L., Chen P.P.;
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Hepatitis B virus (HBV) surface antigen (HBsAg) gene, partial cds.

Zeldis J.B., Lee J.H., Mamish D., Finegold D.J., Sircar R., Ling Q., Knudsen P.J., Kuramoto I.K., Mimms L.T.;
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Human glycoprotein hormone alpha-subunit gene, 5' flank.

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Yeast (*S.cerevisiae*) arginine-specific carbamyl-phosphate synthetase gene, 5' end.

Kinney D.M., Lusty C.J.;
Mol. Cell. Biol. 9:4882–4888(1989). M30466

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Floyd E.E., Jetten A.M.;
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Pawlak A., Wu S.-J., Bulle F., Suzuki A., Chikhi N., Ferry N., Baik J.-H., Siegrist S., Guellaen G.;
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Miki T., Matsui T., Heidarani M.A., Aaronson S.A.;
Gene 83:137–146(1989). M30493
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Miki T., Matsui T., Heidarani M.A., Aaronson S.A.;
Gene 83:137–146(1989). M30494
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Chen G., Willems L., Portetelle D., Willard-Gallo K.E., Burny A., Gheysen D., Kettmann R.;
Virology 173:343–347(1989). M30495
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Wilkinson K.D., Lee K., Deshpande S., Duerksen-Hughes P., Boss J.M., Pohl J.;
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Harty R.N., Colle C.F., Grundy F.J., O'Callaghan D.J.;
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McMillan J., Miller D.J.;
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