
New nucleotide sequence data on the EMBL File Server

February 6, 1990 to February 20, 1990

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.

Anabaena cylindrica gene for soluble hydrogenase subunit
Ewart G.D., Reed K.C., Smith G.D.;
Eur. J. Biochem. 187:215–223(1990). X17482

Azotobacter chroococcum genes vnfD, vnfG and vnfK for
vanadium nitrogenase subunits alpha, delta and beta.
Robson R.L., Woodley P.R., Pau R.N., Eady R.R.;
EMBO J. 8:1217–1224(1989). X15077

Anabaena hesA and hesB genes
Borthakur D., Haselkorn R.;
Plant Mol. Biol. (In Press). X15553

Borrelia burgdorferi gene for flagellum-associated 41kD antigen
(flagellin)
Wallich R., Moter S., Simon M.M., Heiberger A., Kramer
M.D.;
Infect. Immun. (In Press). X16833

Bovine derived synthetic gene bpr for pancreatic ribonuclease A
(EC 3.1.27.5)
Filpula D.;
Unpublished. X15802

Bovine liver mRNA for cytochrome c oxidase subunit VIIa (EC
1.9.3.1)
Seelan R.S., Scheuner D., Lomax M.I., Grossman L.I.;
Nucleic Acids Res. 17:6410–6410(1989). X15235

Bovine Harvey-ras 2 put. pseudogene, exons 1–3
McCaffery R.E., Coggins L.W., Doherty I., Kennedy I., O'Prey
M., McColl L., Campo M.S.;
Oncogene 4:1441–1448(1989). X17364

Bovine Harvey-ras 2 put. pseudogene, exons 4
McCaffery R.E., Coggins L.W., Doherty I., Kennedy I., O'Prey
M., McColl L., Campo M.S.;
Oncogene 4:1441–1448(1989). X17365

Birch mRNA for pollen allergen BetvI
Breiteneder H., Pettenburger K., Bito A., Valenta R., Kraft D.,
Rumpold H., Scheiner O., Breitenbach M.;
EMBO J. 8:1935–1938(1989). X15877

Chinese hamster (mutant S10) aprt locus breakpoint DNA and
inserted fragment
Sargent G., Phear G., Meuth M.;
Unpublished. X16822

Chinese hamster (mutant S10) aprt locus alu B(1) repeat DNA
Sargent G., Phear G., Meuth M.;
Unpublished. X16823

Chinese hamster (mutant S207) aprt locus breakpoint DNA
Sargent G., Phear G., Meuth M.;
Unpublished. X16820

Chinese hamster (mutant S209) aprt locus upstream GT(29) repeat
DNA
Sargent G., Phear G., Meuth M.;
Unpublished. X16818

Chinese hamster (mutant S209) aprt locus breakpoint DNA
Sargent G., Phear G., Meuth M.;
Unpublished. X16819

Chinese hamster (mutant S225) aprt locus breakpoint DNA
Sargent G., Phear G., Meuth M.;
Unpublished. X16824

Rice chloroplast DNA containing ORF 39
Zhao X.P., Zhong-Xun Luo., Jean-Charles Ct., Wu R.;
Unpublished. X15057

Chinese hamster (mutant S67) aprt locus breakpoint DNA
Sargent G., Phear G., Meuth M.;
Unpublished. X16821

Human Coronavirus gene for membrane protein
Raabe T., Siddell S.G.;
Arch. Virol. 0:0–0(1989). X15498

Hamster p7 preinsertion DNA
Jessberger R., Heuss D., Doerfler W.;
EMBO J. 8:869–878(1989). X14898

Drosophila melanogaster DNA for complete foldback (FB)
transposable element
Templeton N.S., Potter S.S.;
EMBO J. 8:1887–1894(1989). X15469

Drosophila melanogaster ninaA gene
Shieh B.H., Stamnes M.A., Seavello S., Harris G.L., Zuker
C.S.;
Nature 338:67–70(1989). X14769

Escherichia coli DNA for genes involved in synthesis of CS3 pili
Jalajakumari M.B., Thomas C.J., Halter R., Manning P.A.;
Mol. Microbiol. 3:1685–1695(1989). X16944

E. coli entE gene for dihydroxybenzoic acid-activating enzyme
Staab J.F., Elkins M.F., Earhart C.F.;
Unpublished. X15058

- Chicken mRNA for type VI collagen alpha-2 subunit
Koller E., Winterhalter K.H., Trueb B.;
EMBO J. 8:1073–1077(1989). X15041
- Chicken mRNA for type VI collagen alpha-2 subunit
Koller E., Winterhalter K.H., Trueb B.;
EMBO J. 8:1073–1077(1989). X15041
- Chick mRNA for calcium-binding protein (transcalcin)
Tuan R.S., Fitzpatrick D.F.;
Unpublished. X14881
- Giardia lamblia* hsp70 gene for heat shock protein (partial)
Aggarwal A., de la Cruz V.F., Nash T.E.;
Unpublished. X16738
- Human mRNA for natriuretic peptide receptor (ANP-A receptor)
Lowe D.G., Chang M.S., Hellmiss R., Chen E., Singh S.,
Garbers D.L., Goeddel D.V.;
EMBO J. 8:1377–1384(1989). X15357
- Human alpha enolase pseudogene
Feo S., Oliva D., Arico B., Cali L., Giallongo A.;
Unpublished. X15277
- Human unusual Alu repetitive sequence
Diver W.P., Braithwaite A.W., Nabra H.;
Unpublished. X14433
- Human mRNA for collagen-like protein
Kimura S.;
Unpublished. X14963
- Human mRNA for c-myc gene exon 9A
Dasgupta P., Reddy E.P.;
Oncogene 4:1419–1423(1989). X17469
- Human mRNA for cAMP response element (CRE-BP1) binding
protein
Maekawa T., Sakura H., Kanei-Ishii C., Sudo T., Yoshimura T.,
Fujisawa J.I., Yoshida M., Ishii S.;
EMBO J. 8:2023–2028(1989). X15875
- Human 5' mRNA for Duchenne muscular dystrophy (DMD) brain
gene product
Nudel U., Zuk D., Einat P., Zeelon E., Levy Z., Neuman S.,
Yaffe D.;
Nature 337:76–78(1989). X14182
- Human 5' mRNA for Duchenne muscular dystrophy (DMD)
muscle gene product
Nudel U., Zuk D., Einat P., Zeelon E., Levy Z., Neuman S.,
Yaffe D.;
Nature 337:76–78(1989). X14183
- Human mRNA fragment for dystrophin-related protein
Love D.R., Hill D.F., Dickson G., Spurr N.K., Byth B.C.,
Marsden R.F., Walsh F.S., Edwards Y.H., Davies K.E.;
Nature 339:55–58(1989). X15488
- Human mRNA for elongation factor 1-alpha (clone CEF4)
Madsen H.O., Poulsen K., Dahl O., Clark B.F.C., Hjorth J.P.;
Nucleic Acids Res. (In Press). X16869
- Human DNA for elongation factor 1-alpha (clones
lambda-1,-4,-9,-6)
Madsen H.O., Poulsen K., Dahl O., Clark B.F.C., Hjorth J.P.;
Nucleic Acids Res. (In Press). X16870–X16873
- Human fra-2, fra-1 mRNA
Matsui M., Tokuhara M., Konuma Y., Nomura N., Ishizaki R.;
Unpublished. X16706–X16707
- Human gene for H1 RNA
Baer M., Nilsen T., Costigan C., Altman S.;
Nucleic Acids Res. 0:0–0(1989). X16612
- Human HuP1 gene paired domain exon
Burri M., Tromvoukis Y., Bopp D., Frigerio G., Noll M.;
EMBO J. 8:1183–1190(1989). X15042,X15250–X15251
- Human HuP2 gene paired domain exon
Burri M., Tromvoukis Y., Bopp D., Frigerio G., Noll M.;
EMBO J. 8:1183–1190(1989). X15043,X15252–X15253
- Human HuP48 gene paired domain
Burri M., Tromvoukis Y., Bopp D., Frigerio G., Noll M.;
EMBO J. 8:1183–1190(1989). X15044
- Human mRNA for cytochrome P-450HP
Yokotani N., Sogawa K., Matsubara S., Gotoh O., Kusunose E.,
Kusunose M., Fujii-Kuriyama Y.;
Eur. J. Biochem. 187:23–29(1990). X16699
- Human mRNA for topoisomerase I 3'-fragment
Zhou B.S., Bastow K.F., Cheng Y.C.;
Cancer Res. 49:3922–3927(1989). X16479
- Human mRNA for pancreatic trypsinogen III
Ishi K., Tani T., Ohshima Y.;
Unpublished. X15505
- Human mRNA for vav oncogene
Katzav S., Martin-Zanca D., Barbacid M.;
EMBO J. 8:2283–2290(1989). X16316
- Lymphocystis disease virus of fish, repetitive element, 5' end.
Schnitzler P., Darai G.;
Virology 172:32–41(1989). J04360
- Bacteriophage fr RNA genome
Adhin M.R., Avots A., Berzin V., Overbeek G.P., Van Duin J.;
Unpublished. X15031
- Lupinus luteus* 5.8S ribosomal RNA
Barciszewska M.Z., Mashkova T., Barciszewski J.;
Nucleic Acids Res. (In Press). X16805
- Locusta migratoria* mRNA for 5-kDa protein precursor flanked by
2 members of insulin superfamily
Lagueux M., Lwoff L., Meister M., Goltzene F., Hoffmann
J.A.;
Eur. J. Biochem. 187:249–254(1990). X17024
- Snail mRNA fragment for beta-tubulin (EC 3.2.1.23)
Smit A.B., Thijsen S.F.T., Geraerts W.P.M., Van Heerikhuizen
H.;
Unpublished. X15542
- Potato leaf roll virus genomic RNA for potential promoter
Habibi N., Keese P., Symons R.H.;
Unpublished. X15501
- Soybean dwarf virus genomic RNA for potential promoter
Habibi N., Keese P., Symons R.H.;
Unpublished. X15502

- E. coli* NAD⁺-linked oxireductase (*fucO*) and fuculose-1-phosphate aldolase (*fucA*) genes, complete cds, and L-fucose utilization protein (*fucP*) gene, 5' end.
Chen Y.-M., Lu Z., Lin E.C.C.;
J. Bacteriol. 171:6097–6105(1989). M31059
- B. subtilis subtilisin* gene, 5' end.
Park S.-S., Wong S.-L., Wang L.-F., Doi R.H.;
J. Bacteriol. 171:2657–2665(1989). M31060
- Human ornithine decarboxylase gene, complete cds.
Fitzgerald M.C., Flanagan M.A.;
DNA 8:623–634(1989). M31061
- B. subtilis* protein kinase (*kinA*) gene, complete cds.
Perego M., Cole S.P., Burbulys D., Trach K., Hoch J.A.;
J. Bacteriol. 171:6187–6196(1989). M31067
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Takao M., Kobayashi T., Oikawa A., Yasui A.;
J. Bacteriol. 171:6323–6329(1989). M31068
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Peters J., Peters M., Lottspeich F., Baumeister W.;
J. Bacteriol. 171:6307–6315(1989). M31069
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Hoshino T., Kose K.;
J. Bacteriol. 171:6300–6306(1989). M31071
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Schatt E., Jouanneau Y., Vignais P.M.;
J. Bacteriol. 171:6218–6226(1989). M31073
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Lindsey D.F., Mullin D.A., Walker J.R.;
J. Bacteriol. 171:6197–6205(1989). M31074
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Minghetti P.P., Cancela L., Fujisawa Y., Theofan G., Norman A.W.;
Mol. Endocrinol. 2:355–367(1989). M31139–M31143
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Loughney K., Kreber R., Ganetzky B.;
Proc. Natl. Acad. Sci. U.S.A. 58:1143–1154(1989). M32078
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Xue Y., Davies D.R., Thomas C.M.;
Mol. Gen. Genet. 0:0–0(1989). X16828
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van der Spek H., Arts G.J., Van den Burg J., Sloof P., Benne R.;
Nucleic Acids Res. 17:4876–4876(1989). X15081
- Murine mRNA for c-rel protein
Grumont R.J., Gerondakis S.;
Oncogene Res. 4:1–8(1989). X15842
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Shell B., Collins J.T., Elenich L.A., Szurek P.F., Dunnick W.A.;
Unpublished. X15598
- Murine mRNA for intercellular adhesion molecule (ICAM-1)
Horley K.J., Carpenito C., Baker B., Takei F.;
EMBO J. 8:2889–2896(1989). X16624
- Murine mRNA for intercellular adhesion molecule (ICAM-1)
Horley K.J., Carpenito C., Baker B., Takei F.;
EMBO J. 8:2889–2896(1989). X16624
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Hirai S.I., Ryseck R.P., Mechta F., Bravo R., Yaniv M.;
EMBO J. 8:1433–1439(1989). X15358
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Cherayil B.J., Weiner S.J., Pillai S.;
J. Exp. Med. (In Press). X16834
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Eisenberg L.M., Janne O.A.;
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Flaswinkel H., Reth M.;
Unpublished. X14511
- Mouse rearranged VH gene Q52 family for immunoglobulin heavy chain variable region clone Pa2–5/8A.
Flaswinkel H., Reth M.;
Unpublished. X14513
- Mouse rearranged VH gene Q52 family for immunoglobulin heavy chain variable region clone Pa8A.
Flaswinkel H., Reth M.;
Unpublished. X14515
- Mouse rds mRNA involved in retinal degeneration slow
Travis G.H., Brennan M.B., Danielson P.E., Kozak C.A., Sutcliffe J.G.;
Nature 338:70–73(1989). X14770
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Palmer M.S., Bentley A., Gould K., Townsend A.R.M.;
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- Mouse T cell receptor (TCR) alpha locus enhancer element
Winoto A., Baltimore D.;
EMBO J. 8:729–733(1989). X14895
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Flaswinkel H., Reth M.;
Unpublished. X14512, X14514, X14510

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Judewicz N.;
Unpublished. X13910
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Attar R.M., Grotewold E., Taccioli G.E., Aisemberg G.O.,
Torres H.N., Judewicz N.D.;
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Brownlee A.G.;
Nucleic Acids Res. 17:1327–1335(1989). X14665
- Prochlorothrix hollandica PsbA I gene for D1 thylakoid protein of
photosystem II
Morden C.W., Golden S.S.;
Nature 337:382–385(1989). X14523
- Vaccinia virus gene for viral hemagglutinin
Dongyan J., Zhiliang L., Qi J., Hao Y., Yunde H.;
J. Exp. Med. 170:0–0(1989). X15709
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Beck D.L., Forster R.L.S., Bevan M.W., Boxen K.A., Lowe
S.C., Gardner R.C.;
Unpublished. X16636
- Pisum sativum large spacer of ribosomal DNA (rDNA)
Atsushi K., Tadaka N., Junko Y., Shigeyuki T.;
Unpublished. X16614
- Populus trichocarpa wound responsive gwin3 gene
Bradshaw H.D., Hollick J.B., Parsons T.J., Clarke H.R.G.,
Gordon M.P.;
Unpublished. X15516
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Das A.T., Moerer P., Charles R., Moorman A.F.M., Lamers
W.H.;
Nucleic Acids Res. 17:2355–2356(1989). X14044
- Rat mRNA for insulin-regulatable glucose transport (IRGT)
James D.E., Strube M., Mueckler M.;
Nature 338:83–87(1989). X14771
- Rat mRNA for ventricular myosin light chain 1
McNally E., Buttrick P., Leinwand L.;
Nucleic Acids Res. (In Press). X14812
- Rat mRNA for serine proteinase inhibitor-like protein, partial.
Flink I.L., Bailey T., Morkin E.;
Unpublished. X16273
- Rat mRNA for acidic ribosomal phosphoprotein P0
Chan Y.L., Paz V., Wool I.G.;
Unpublished. X15096
- Rat mRNA for acidic ribosomal phosphoprotein P1
Chan Y.L., Paz V., Wool I.G.;
Unpublished. X15097
- Rat mRNA for ribosomal phosphoprotein P2
Chan Y.L., Paz V., Wool I.G.;
Unpublished. X15098
- Rat mRNA for beta beta enolase (EC 4.2.1.11)
Ohshima Y., Mitsui H., Takayama Y., Kushiya E., Sakimura K.,
Takahashi Y.;
FEBS Lett. 242:425–430(1989). Y00979
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gene product
Nudel U., Zuk D., Einat P., Zeelon E., Levy Z., Neuman S.,
Yaffe D.;
Nature 337:76–78(1989). X14182
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gene product
Nudel U., Zuk D., Einat P., Zeelon E., Levy Z., Neuman S.,
Yaffe D.;
Nature 337:76–78(1989). X14183
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exopolysaccharide protein
Gray J.X., Djordjevic M.A., Rolfe B.G.;
Nucleic Acids Res. (In Press). X16704
- Rat mRNA for GABA(A) receptor beta-1,2,3 subunits
Ymer S., Schofield P.R., Draguhn A., Werner P., Koehler M.,
Seeburg P.H.;
EMBO J. 8:1665–1670(1989). X15466–X15468
- Rat mRNA for gamma-glutamyl transpeptidase (EC 2.3.2.2)
Griffiths S.A., Manson M.M.;
Cancer Lett. (In Press). X15443
- Rat mRNA for neuraxin
Rienitz A., Grenningloh G., Hermans-Borgmeyer I., Kirsch J.,
Littauer U.Z., Prior P., Gundelfinger E.D., Schmitt B., Betz H.;
EMBO J. 8:2879–2888(1989). X16623
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Spaank H.P., Weinman J., Djordjevic M.A., Wijffelman C.A.,
Okker R.J.H., Lugtenberg B.J.J.;
EMBO J. 8:2811–2818(1989). X16620
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Boccard F., Smokvina T., Pernodet J.L., Friedmann A.,
Guerineau M.;
EMBO J. 8:973–980(1989). X14899
- Saccharomyces cerevisiae PDC5 gene for pyruvate decarboxylase
(EC 4.1.1.1.)
Hohmann S., Cederberg H.;
Unpublished. X15668
- Yeast SEC23 gene for cytoplasmic transport protein
Hicke L., Schekman R.;
EMBO J. 8:1677–1684(1989). X15474
- Trout mRNA for dynein heavy chain
Garber A.T., Retief J.D., Dixon G.H.;
EMBO J. 8:1727–1734(1989). X15476
- Streptomyces lividans plasmid DNA for Cop/KorB gene and sti
region.
Radnedge L., Barallon R., Zaman S., Richards H.A., Ward
J.M.;
Unpublished. X15695
- Schistosoma mansoni repetitive DNA element d-1 of SM(alpha)
family
Spotila L.D., Hirai H., Rekosh D.M., LoVerde P.T.;
Chromosoma 97:421–428(1989). X15619
- Schistosoma mansoni repetitive DNA element d-2 of SM(alpha)
family
Spotila L.D., Hirai H., Rekosh D.M., LoVerde P.T.;
Chromosoma 97:421–428(1989). X15620

Schistosoma mansoni repetitive DNA element d-3 of SM(alpha) family

Spotila L.D., Hirai H., Rekosh D.M., LoVerde P.T.;
Chromosoma 97:421-428(1989). X15621

Schistosoma mansoni repetitive DNA element d-4 of SM(alpha) family

Spotila L.D., Hirai H., Rekosh D.M., LoVerde P.T.;
Chromosoma 97:421-428(1989). X15622

Schistosoma mansoni repetitive DNA element t-2 of SM(alpha) family

Spotila L.D., Hirai H., Rekosh D.M., LoVerde P.T.;
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Yeast U6 small nuclear RNA gene

Tani T., Ohshima Y.;
Nature 337:87-90(1989). X14196

Schizosaccharomyces pombe gene for U5 snRNA

Ishi K., Tani T., Ohshima Y.;
Unpublished. X15504

Salmo salar ssalghI mRNA for growth hormone

Lorens J.B., Nerland A.H., Male R., Lossius I., Telle W.,
Totland G.K.;
Nucleic Acids Res. 17:2352-2352(1989). X14305

Streptomyces violaceoruber polyketide synthase gene cluster

Sherman D.H., Malpartida F., Bibb M.J., Hopwood D.A.;
EMBO J. 8:2717-2725(1989). X16300

Wheat Glu-A1-1a gene for HMW glutenin subunit

Anderson O.D., Greene F.C.;
Theor. Appl. Genet. (In Press). X13928

Wheat Glu-B1-1b gene for HMW glutenin subunit

Anderson O.D., Greene F.C.;
Theor. Appl. Genet. (In Press). X13927

Trypanosoma equiperdum BC3,BC2,BC1 pseudogenes for major surface glycoprotein

Thon G., Baltz T., Eisen H.;
Genes Dev. 3:1247-1254(1989). X17157-X17159

Trypanosoma equiperdum VSG-20 mRNA

Thon G., Baltz T., Eisen H.;
Genes Dev. 3:1247-1254(1989). X16723

Tetrahymena thermophila hv1 gene for histone H2 variant

White E., Gorovsky M.A.;
Unpublished. X15548

Vibrio cholerae hylB gene for haemolysin releasing protein

Manning P.A.;
Unpublished. X16945

Vicia faba large spacer of ribosomal DNA (rDNA)

Atsushi K., Tadaka N., Junko Y., Shigeyuki T.;
Unpublished. X16615

Xenopus mRNA for thyroid hormone receptor

Brooks A.R., Sweeney G., Old R.W.;
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Maize 7SL RNA of signal recognition particle

Campos N., Palau J., Zwieb C.;
Nucleic Acids Res. 17:1573-1588(1989). X14661

Maize Opaque (O2) mRNA for regulation of zein deposition

hartings H., Maddaloni M., Lazzaroni N., Di Fonzo N., Motto
M., Salamini F., Thompson R.;
EMBO J. 8:2795-2801(1989). X16618