

## Recently Published Papers in the Field of Molecular Evolution

### GENERAL ASPECTS

#### Bio Systems

17 No. 1 1984

Electrical Excitability of Proteinoid Microspheres Composed of Basic and Acidic Proteinoids. Matsuno, K. (Nagaoka, Japan) - p. 11

#### Comptes Rendus des Seances de L'Academie des Sciences

299 No. 9 1984

Hypothesis on the Establishment of a Genetic Code and on the Transfer of Information from Proteinoids to Nucleic Acids. Berger, G. (Gif-sur-Yvette, France) - p. 333

299 No. 10 1984

Hypothesis on the Evolution of DNAs and of Living Organisms. Berger, G. (Gif-sur-Yvette, France) - p. 405

#### Journal of Theoretical Biology

109 No. 1 1984

Information and Entropy in a Simple Evolution Model. Brooks, D. R. et al. (Vancouver, Canada) - p. 77

Specific-Mate Recognition Systems, Phylogenies and Asymmetrical Evolution. Lambert, D. M. (Auckland, New Zealand) - p. 147

110 No. 1 1984

A Fully Specified Model of a Non-Linear Hypercycle. Müller-Herold, U. (Zürich, Switzerland) - p. 21

Stasis: A Coevolutionary Model. Barnard, C. J. (Nottingham, UK) - p. 27

#### Molecular and Cellular Biochemistry

64 No. 1 1984

Is There a Higher Level Genetic Code that Directs Evolution? Caporale, L. H. (Washington, USA) - p. 5

#### Nature

311 No. 5981 1984

Origins of Biomolecular Handedness. Mason, S. F. (London, UK) - p. 19

#### Naturwissenschaften

71 No. 10 1984

Microvesicles in Meteorites, a Model of Pre-Biotic Evolution. Pflug, H. D. (Gießen, FRG) - p. 531

#### Origins of Life

15 No. 1 1984

Clay as a Substitute for Protein in Pseudoenzymes. Comment. Mortland, M. M. - p. 5

The Spark Discharge Synthesis of Amino Acids from Various Hydrocarbons. Ring, D. and Miller, S. L. (LaJolla, USA) - p. 7

Prebiotic Formation of Energy-Rich Thioesters from Glycer-aldehyde and N-Acetylcysteine. Weber, A. L. (San Diego, USA) - p. 17

The Investigation of the HCN Derivative Diiminosuccinonitrile as a Prebiotic Condensing Agent - The Formation of Phosphate Esters. Ferris, J. P. et al. (Troy, USA) - p. 29

### Proceedings of the National Academy of Sciences of the USA

81 No. 19 1984

Self-Organization in Macromolecular Systems: The Notion of Adaptive Value. Demetrius, L. (Göttingen, FRG) - p. 606B

### Zeitschrift für Naturforschung

39c No. 9/10 1984

Cell Fusion by Simulated Atmospheric Discharges: Further Support for the Hypothesis of Involvement of Electrofusion in Evolution. Küppers, G. et al. (Jülich, FRG) - p. 973

### PRIMARY STRUCTURES OF NUCLEIC ACIDS

#### Archives of Biochemistry and Biophysics

233 No. 2 1984

Tissue Specificity of 3'-Untranslated Sequence of Myosin Light Chain Gene: Unexpected Interspecies Homology with Repetitive DNA. Saidapat, C. et al. (Nutley, USA) - p. 565

#### Biochemical and Biophysical Research Communications

122 No. 2 1984

Molecular Cloning of cDNA for Rat Liver Catalase. Osumi, T. et al. (Matsumoto, Japan) - p. 831

122 No. 3 1984

Isolation and Nucleotide Sequence of a Cloned Cardionatin cDNA. Kennedy, B. P. et al. (Kingston, Canada) - p. 1076

123 No. 1 1984

Human Apolipoprotein A-II: Nucleotide Sequence of a Cloned cDNA and Localization of Its Structural Gene on Human Chromosome 1. Moore, M. N. et al. (Houston, USA) - p. 1

Evolutionary Conservation of DNA Coding for Maternal RNA in Sea Urchins. Moore, G. P. (Ann Arbor, USA) - p. 278

123 No. 2 1984

Structure and Expression of a Gene Encoding Human Calcitonin and Calcitonin Gene Related Peptide. Nelkin, B. D. et al. (Baltimore, USA) - p. 648

124 No. 1 1984

Isolation of an Evolutionarily Conserved Epidermal Growth Factor Receptor cDNA from Human A431 Carcinoma Cells. Simmen, F. A. et al. (Houston, USA) - p. 125

Molecular Cloning and Characterization of a cDNA Clone for a Protein Specifically Expressed in Embryo as well as in a Chemically Induced Pancreatic B Cell Tumor of Rat. Soma, G.-I. et al. (Tokyo, Japan) - p. 164

Partial cDNA Sequence of the Gamma Subunit of Transducin. Van Dop, C. et al. (Baltimore, USA) - p. 250

124 No. 2 1984

Cloning and Sequence Analysis of cDNA for Human Prealbumin. Mita, S. et al. (Kumamoto, Japan) - p. 558

#### The Biochemical Journal

222 No. 2 1984

Nucleotide Sequence Encoding the Flavoprotein and Hydrophobic Subunits of the Succinate Dehydrogenase of *Escherichia coli*. Wood, D. et al. (Sheffield, UK) - p. 519

222 No. 3 1984

Nucleotide Sequence Determination of Guinea-Pig Casein B mRNA Reveals Homology with Bovine and Rat  $\alpha_1$  Caseins and Conservation of the Non-Coding Regions of the mRNA. Hall, L. et al. (London, UK) - p. 561

223 No. 2 1984

Nucleotide Sequence Encoding the Iron-Sulphur Protein Subunit of the Succinate Dehydrogenase of *Escherichia coli*. Darlison, M. K. and Guest, J. R. (Sheffield, UK) - p. 507

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23 No. 18 1984

$\gamma$  and  $\gamma'$  Chains of Human Fibrinogen are Produced by Alternative mRNA Processing. Chung, D. W. and Davie, E. W. (Seattle, USA) - p. 4232

Characterization of a Complementary Deoxyribonucleic Acid Coding for Human and Bovine Plasminogen. Malinowski, D.P. et al. (Seattle, USA) - p. 4243

23 No. 21 1984

Complete Sequence of the cDNA for Human  $\alpha_1$ -Antitrypsin and the Gene for the S Variant. Long, G. L. et al. (Seattle, USA) - p. 4828

#### Biochimica et Biophysica Acta

768 No. 2 1984

The unc Operon. Nucleotide Sequence, Regulation and Structure of ATP-Synthase. Walker, J. E. et al. (Cambridge, UK) - p. 164

782 No. 4 1984

Cloning of cDNA for a Juvenile Hormone-Regulated Oothacin mRNA. Pau, R. M. (Brighton, UK) - p. 422

#### Biochimie

66 No. 5 1984

Complete Nucleotide Sequence of RNA 3 from Alfalfa Mosaic Virus, Strain S. Ravelonandro, M. et al. (Strasbourg, France) - p. 395

66 No. 6 1984

Conservation of Plant Cytosolic tRNA Structure. Nucleotide Sequence of Rape tRNA<sup>Phe</sup>. Barciszewska, M. et al. (Poznan, Poland) - p. 483

#### Cell

37 No. 3 1984

Nucleotide and Deduced Polypeptide Sequences of the Photosynthetic Reaction-Center, B870 Antenna, and Flanking Polypeptides from R. capsulata. Youvan, D. C. et al. (Berkeley, USA) - p. 949

Repetitive Extragenic Palindromic Sequences: A Major Component of the Bacterial Genome. Stern, M. J. et al. (Berkeley, USA) - p. 1015

The Drosophila ras Oncogenes: Structure and Nucleotide Sequence. Neuman-Silberberg, F. S. et al. (Rehovot, Israel) - p. 1027

Mouse T Cell Antigen Receptor: Structure and Organization of Constant and Joining Gene Segments Encoding the  $\beta$  Polypeptide. Malissen, M. et al. (Pasadena, USA) - p. 1101

38 No. 1 1984

Nucleotide Sequence of the Heat Shock Regulatory Gene of E. coli Suggests Its Protein Product May Be a Transcription Factor. Landick, R. et al. (Ann Arbor, USA) - p. 175

Linkage Map of Two HLA-SB $\beta$  and Two HLA-SB $\alpha$ -Related Genes: an Intron in One of the SB $\beta$  Genes Contains a Processed Pseudogene. Trowsdale, J. et al. (London, UK) - p. 241

HMG-CoA Reductase: A Negatively Regulated Gene with Unusual Promoter and 5' Untranslated Regions. Reynolds, G. A. et al. (Dallas, USA) - p. 275

Human Transforming Growth Factor- $\alpha$  Precursor Structure and Expression in E. coli. Derynck, R. et al. (South San Francisco, USA) - p. 287

Trypanosome mRNAs Share a Common 5' Spliced Leader Sequence. Parsons, M. et al. (Seattle, USA) - p. 309

38 No. 2 1984

The DNA Sequence and Genetic Organization of a Neurospora Mitochondrial Plasmid Suggest a Relationship to Introns and Mobile Elements. Nargang, F. E. et al. (Edmonton, Canada) - p. 441

38 No. 3 1984

Human DNA Sequences Homologous to a Protein Coding Region Conserved Between Homoeotic Genes of Drosophila. Levine, M. et al. (Berkeley, USA) - p. 667

Molecular Cloning and Chromosome Mapping of a Mouse DNA Sequence Homologous to Homoeotic Genes of Drosophila. McGinnis, W. et al. (Basel, Switzerland) - p. 675

#### Comparative Biochemistry and Physiology

788 No. 2 1984

Fragment Comparison of Hamster Mitochondrial DNA: General Conclusions About the Evolution of Mitochondrial DNA. Csakl, F. (Wien, Austria) - p. 325

#### DNA

3 No. 3 1984

Restriction Site Bank Vectors. II. DNA Sequence Analysis of Plasmid pJRD158. Heusterspreute, M. and Davison, J. (Brussels, Belgium) - p. 259

3 No. 4 1984

Complete Nucleotide Sequence of a cDNA Derived from Calf Lens  $\gamma$ -Crystallin mRNA; Presence of Alu I-Like DNA Sequences. Bhat, S. P. and Spector, A. (New York, USA) - p. 287

Isolation and DNA Sequence of Full Length cDNA and of the Entire Gene for Human Apolipoprotein AI - Discovery of a New Genetic Polymorphism in the apoAI Gene. Seilhamer, J. J. et al. (Mount View, USA) - p. 309

Revised Sequence of Full-Length Complementary DNA Coding for Human  $\alpha_1$ -Antitrypsin. Colau, B. et al. (Rhode St. Genese, Belgium) - p. 327

#### FEBS Letters

173 No. 1 1984

Nucleotide Sequence of the lspA Gene, the Structural Gene for Lipoprotein Signal Peptidase of Escherichia coli. Yu, F. et al. (Nagoya, Japan) - p. 264

174 No. 1 1984

Complete Nucleotide Sequence of RNA 5 from Cucumber Mosaic Virus (Strain Y). Hidaka, S. et al. (Yamagata, Japan) - p. 38

175 No. 1 1984

Human Apolipoprotein A-II: Complete Nucleic Acid Sequence of ProapoA-II. Lackner, K. J. et al. (Bethesda, USA) - p. 159

Structure of the Euglena gracilis Chloroplast Gene (psbA) Coding for the 32-kDa Protein of Photosystem II. Keller, M. and Stutz, E. (Strasbourg, France) - p. 173

Nucleotide Base Sequence of Vibrionaceae 5S rRNA. MacDonnell, M. T. and Colwell, R. R. (College Park, USA) - p. 183

175 No. 2 1984

The Primary Structure of the Gene Encoding Yeast Ribosomal Protein L16. Leer, R. J. et al. (Amsterdam, The Netherlands) - p. 371

176 No. 1 1984

The Nucleotide Sequence of Chloroplast 4.5S rRNA from Mnium rugicum (Bryophyta): Mosses also Possess this Type of RNA. Troitsky, A. V. et al. (Moscow, USSR) - p. 105

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176 No. 2 1984

Glycine and Asparagine tRNA Sequences from the Archaeobacterium, Methanobacterium thermoautotrophicum. Gu, X.-R. et al. (Montreal, Canada) - p. 462

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28 No. 3 1984

Isolation and Complete Nucleotide Sequence of the Gene for Bovine Parathyroid Hormone. Weaver, C. A. et al. (Urbana, USA) - p. 319

Nucleotide Sequence of Gene pkfB Encoding the Minor Phosphofructokinase of Escherichia coli K-12. Daldal, F. (Cold Spring Harbor, USA) - p. 337

29 No. 1/2 1984

Isolation and Characterization of  $\beta$ - and  $\gamma$ -Crystallin Genes from Rat Genomic Cosmid Libraries. Moormann, R.J.M. et al. (Nijmegen, The Netherlands) - p. 1

Restriction and Modification in Bacillus subtilis; Nucleotide Sequence, Functional Organization and Product of the DNA Methyltransferase Gene of Bacteriophage SPR. Buhk, H.-J. et al. (Berlin, FRG) - p. 51

Sequencing of Coronavirus IBV Genomic RNA: a 195-Base Open Reading Frame Encoded by mRNA B. Boursnell, M.E.G. and Brown, T.D.K. (Huntingdon, UK) - p. 87

Structure and Function of the Yeast URA3 Gene: Expression in Escherichia coli. Rose, M. et al. (Cambridge, USA) - p. 113

Isolation and Characterization of Four Mouse Ribosomal Protein-L18 Genes that Appear to be Processed Pseudogenes. Peled-Yalif, E. et al. (Jerusalem, Israel) - p. 157

Characterization and Nucleotide Sequence of a Colicin-Release Gene in the hlc Region of Plasmid ColE3-CA38. Watson, R. J. et al. (Ottawa, Canada) - p. 175

The Replication Origin of pSC101: The Nucleotide Sequence and Replication Functions of the ori Region. Yamaguchi, K. and Yamaguchi, M. (Ishikawa, Japan) - p. 211

29 No. 3 1984

The Nucleotide Sequence of the Yeast *ARG4* Gene. Beacham, I. R. et al. (Santa Barbara, USA) - p. 271

Nucleotide Sequence of the Promoter Region of the *xylDEGF* Operon on TOL Plasmid of *Pseudomonas putida*. Inouye, S. et al. (Yamaguchi, Japan) - p. 323

30 No. 1/3 1984

Cloning, Nucleotide Sequence and High Level Expression of the Gene Coding for the Connector Protein of *Bacillus subtilis* Phage  $\phi$ 29. Garcia, J. A. et al. (Madrid, Spain) - p. 87

Nucleotide Sequence of the Transposable Element IS15. Trieu-Cuot, P. and Courvalin, P. (Paris, France) - p. 113

*Bacillus megaterium* Spore Protein C-3: Nucleotide Sequence of Its Gene and the Amino Acid Sequence at Its Spore Protease Cleavage Site. Fliss, E. R. and Setlow, P. (Farmington, USA) - p. 167

Complete Nucleotide Sequence of Hepatitis B Virus DNA of Subtype adr and Its Conserved Gene Organization. Kobayashi, M. and Koike, K. (Tokyo, Japan) - p. 227

Nucleotide Sequence of the VP1 Gene of the Foot-and-Mouth Disease Virus Strain A Venceslau. Cheung, A. et al. (Cambridge, USA) - p. 241

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96 No. 3 1984

Characterization of Complementary DNA Clones Coding for Two Forms of 3-Methylcholanthrene-Inducible Rat Liver Cytochrome P-450. Yabusaki, Y. et al. (Hyogo, Japan) - p. 793

Molecular Cloning and Nucleotide Sequence of cDNA Coding for Rat Brain Cholecystokinin Precursor. Kuwano, R. et al. (Niigata, Japan) - p. 923

### Journal of Bacteriology

159 No. 1 1984

Nucleotide Sequence of *Escherichia coli* *pabB* Indicates a Common Evolutionary Origin of p-Aminobenzoate Synthetase and Anthranilate Synthetase. Goncharoff, P. and Nichols, B. P. (Chicago, USA) - p. 57

Secondary Structure and Phylogeny of *Staphylococcus* and *Micrococcus* 5S rRNAs. Dekio, S. et al. (Izumo, Japan) - p. 233

159 No. 2 1984

K88ab Gene of *Escherichia coli* Encodes a Fimbria-Like Protein Distinct from the K88ab Fimbrial Adhesin. Mool, F. R. et al. (Amsterdam, The Netherlands) - p. 482

Location and Analysis of Nucleotide Sequences at One End of a Putative *lac* Transposon in the *Escherichia coli* Chromosome. Buvinger, W. E. et al. (Stony Brook, USA) - p. 618

159 No. 3 1984

Genes for Alkaline Protease and Neutral Protease from *Bacillus amyloliquefaciens* Contain a Large Open Reading Frame Between the Regions Coding for Signal Sequence and Mature Protein. Vasantha, N. et al. (Gaithersburg, USA) - p. 811

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Correction of the Nucleotide Sequence of the *Citrobacter freundii* Tryptophan Operon Regulatory Region. Kuroda, M. I. and Yanofsky, C. (Stanford, USA) - p. 1063

*Vibrio cholerae* Enterotoxin Genes: Nucleotide Sequence Analysis of DNA Encoding ADP-Ribosyltransferase. Lockman, H. A. et al. (Baltimore, USA) - p. 1086

160 No. 1 1984

Cloning of the Neutral Protease Gene of *Bacillus subtilis* and the Use of the Cloned Gene to Create an In Vitro-Derived Deletion Mutation. Yang, M. Y. et al. (San Francisco, USA) - p. 15

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DNA Sequence of the *F traALE* Region That Includes the Gene for F Pili. Frost, L. S. et al. (Edmonton, Canada) - p. 395

Localization, Cloning, and Sequence Determination of the Conjugative Plasmid ColB2 Pili Gene. Finlay, B. B. et al. (Edmonton, Canada) - p. 402

Enzymatic and Nucleotide Sequence Studies of a Kanamycin-Inactivating Enzyme Encoded by a Plasmid from Thermophilic Bacilli in Comparison with That Encoded by Plasmid pUB110. Matsumura, M. et al. (Osaka, Japan) - p. 413

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59 No. 2 1984

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176 No. 1 1984

The Rabbit C Family of Short, Interspersed Repeats. Nucleotide Sequence Determination and Transcriptional Analysis. Cheng, J.-F. et al. (University Park, USA) - p. 1

176 No. 2 1984

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Sequence and Structure of a Serine Transfer RNA with GCU Anticodon from Mosquito Mitochondria. Dubin, D. T. et al. (Piscataway, USA) - p. 251

177 No. 4 1984

DNA Sequences Complementary to Human 7 SK RNA Show Structural Similarities to the Short Mobile Elements of the Mammalian Genome. Murphy, S. et al. (Heidelberg, FRG) - p. 575

178 No. 1 1984

Clustered and Interspersed Repetitive DNA Sequence Family of *Chironomus*. The Nucleotide Sequence of the *Cla*-Elements and of Various Flanking Sequences. Schmidt, E. R. (Bochum, FRG) - p. 1

178 No. 2 1984

Conserved Dyad Symmetry Structures at the 3' End of H5 Histone Genes. Analysis of the Duck H5 Gene. Doenecke, D. and Tonjes, R. (Marburg, FRG) - p. 121

178 No. 3 1984

Two Intervening Sequences in the ATPase Subunit 6 Gene of *Neurospora crassa*. A Short Intron (93 Base-Pairs) and a Long Intron that is Stable after Excision. Moralli, G. and Macino, G. (Rome, Italy) - p. 491

Cloning and Sequence Analysis of the *Escherichia coli* 4.5S RNA Gene. Hsu, L. M. et al. (Hadley, USA) - p. 509

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4 No. 7 1984

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4 No. 8 1984

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4 No. 9 1984

Structure of Adenosine Deaminase mRNAs from Normal and Adenosine Deaminase-Deficient Human Cell Lines. Adrian, G.S. et al. (San Antonio, USA) - p. 1712

Genetic and Physical Analysis of the Chicken *tk* Gene. Merrill, G. F. et al. (Seattle, USA) - p. 1769

70-Kilodalton Heat Shock Polypeptides from Rainbow Trout: Characterization of cDNA Sequences. Kothary, R. K. et al. (Vancouver, Canada) - p. 1785

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4 No. 10 1984

Molecular Cloning and Characterization of Mutant and Wild-Type Human  $\beta$ -Actin Genes. Leavitt, J. et al. (Palo Alto, USA) - p. 1961

Molecular Structure of the Human Argininosuccinate Synthetase Gene: Occurrence of Alternative mRNA Splicing. Freytag, S. O. et al. (Houston, USA) - p. 1978

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 Organization and Evolution of the Class I Gene Family in the Major Histocompatibility Complex of the C57BL/10 Mouse. Weiss, E. et al. (Cambridge, USA) - p. 650
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- 310 No. 5980 1984  
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- 311 No. 5981 1984  
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- 311 No. 5982 1984  
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- Plasma Protease Inhibitors in Mouse and Man: Divergence Within the Reactive Centre Regions. Hill, R. E. et al. (Edinburgh, UK) - p. 175
- 311 No. 5983 1984  
 Closely Related Sequences on Human X and Y Chromosomes Outside the Pairing Region. Cooke, H. J. et al. (Edinburgh, UK) - p. 259
- 311 No. 5984 1984  
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- Apparent Discontinuous Transcription of Trypanosoma brucei Variant Surface Antigen Genes. Campbell, D. A. et al. (Stanford, USA) - p. 350
- Major Surface Antigen Gene of a Human Malaria Parasite Cloned and Expressed in Bacteria. Hall, R. et al. (Edinburgh, UK) - p. 379
- Identification of a Diversity Segment of Human T-Cell Receptor  $\beta$ Chain, and Comparison with the Analogous Murine Element. Clark, S. P. et al. (Toronto, Canada) - p. 387
- 311 No. 5987 1984  
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- Primary Structure of Human Transferrin Receptor Deduced from the mRNA Sequence. Schneider, C. et al. (London, UK) - p. 675
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- A Third Rearranged and Expressed Gene in a Clone of Cytotoxic T Lymphocytes. Saito, H. et al. (Cambridge, USA) - p. 36
- Structure, Expression and Divergence of T-Cell Receptor  $\beta$ -Chain Variable Regions. Patten, P. et al. (Stanford, USA) - p. 40
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- 312 No. 5990 1984  
 Primary Structure of Electrophorus electricus Sodium Channel Deduced from cDNA Sequence. Noda, M. et al. (Kyoto, Japan) - p. 121
- Identification of Rat  $\gamma$  Atrial Natriuretic Polypeptide and Characterization of the cDNA Encoding Its Precursor. Kangawa, K. et al. (Miyazaki, Japan) - p. 152
- Alu Sequences Are Processed 7SL RNA Genes. Ullu, E. and Tschudi, C. (New Haven, USA) - p. 171

312 No. 5991 1984

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312 No. 5992 1984

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A Developmental Gene Product of Bacillus subtilis Homologous to the Sigma Factor of Escherichia coli. Stragier, P. et al. (Orsay, France) - p. 376

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3 No. 1 1984

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3 No. 2 1984

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3 No. 3 1984

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