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**A comprehensive set of sequence analysis programs  
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**DOI: 10.1093/nar/12.1part1.387**

**Nucleic Acids Research, 1984, 12, 387-95.**

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1288	Immunoassays for carbodiimide modified DNA-detection of unpairing transitions in supercoiled ColE1 DNA. <i>Nucleic Acids Research</i> , <b>1989</b> , 17, 9957-77	20.1	16
1287	Salt stress leads to differential expression of two isogenes of phosphoenolpyruvate carboxylase during Crassulacean acid metabolism induction in the common ice plant. <b>1989</b> , 1, 715-25		180
1286	The role of a repetitive palindromic sequence element in the human cytomegalovirus major immediate early enhancer. <b>1989</b> , 70 ( Pt 1), 107-23		47
1285	Both rat and mouse T cell receptors specific for the encephalitogenic determinant of myelin basic protein use similar V alpha and V beta chain genes even though the major histocompatibility complex and encephalitogenic determinants being recognized are different. <b>1989</b> , 169, 27-39		302
1284	AspHI, a novel isoschizomer of HgiAI from <i>Achromobacter</i> species H recognizing 5'GWGCW/C-3' <i>Nucleic Acids Research</i> , <b>1989</b> , 17, 9500	20.1	2
1283	The complete amino-acid sequence of the alpha and beta subunits of B-phycoerythrin from the rhodophyten alga <i>Porphyridium cruentum</i> . <b>1989</b> , 370, 115-24		39
1282	Similarity between the picornavirus VP3 capsid polypeptide and the <i>Saccharomyces cerevisiae</i> virus capsid polypeptide. <i>Nucleic Acids Research</i> , <b>1989</b> , 17, 7487-93	20.1	4
1281	The complete sequence of <i>Drosophila</i> alpha-spectrin: conservation of structural domains between alpha-spectrins and alpha-actinin. <b>1989</b> , 109, 2197-205		84
1280	A compact, flexible and cheap system for acquiring sequence data from autoradiograms with a digitizer and transferring it to an arbitrary host computer. <b>1989</b> , 5, 41-6		1
1279	Overlapping redundant septuplets identical with regulatory elements of HIV-1 and SV40. <i>Nucleic Acids Research</i> , <b>1989</b> , 17, 2783-800	20.1	6

1278	The N-, but not the C-terminal domains of human keratins 13 and 15 are closely related. <i>Nucleic Acids Research</i> , <b>1989</b> , 17, 7984	20.1	12
1277	Cloning the BamHI restriction modification system. <i>Nucleic Acids Research</i> , <b>1989</b> , 17, 979-97	20.1	48
1276	A direct repeat is a hotspot for large-scale deletion of human mitochondrial DNA. <b>1989</b> , 244, 346-9		531
1275	Two group I introns with long internal open reading frames in the chloroplast psbA gene of <i>Chlamydomonas moewusii</i> . <i>Nucleic Acids Research</i> , <b>1989</b> , 17, 3875-87	20.1	39
1274	Organization and nucleotide sequence of the genes encoding the large subunits A, B and C of the DNA-dependent RNA polymerase of the archaeobacterium <i>Sulfolobus acidocaldarius</i> . <i>Nucleic Acids Research</i> , <b>1989</b> , 17, 4517-34	20.1	75
1273	Sequences flanking the repeat arrays of human minisatellites: association with tandem and dispersed repeat elements. <i>Nucleic Acids Research</i> , <b>1989</b> , 17, 4925-35	20.1	110
1272	The XLR sequence family: dispersion on the X and Y chromosomes of a large set of closely related sequences, most of which are pseudogenes. <i>Nucleic Acids Research</i> , <b>1989</b> , 17, 9871-88	20.1	28
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1270	A test for the statistical significance of DNA sequence similarities for application in databank searches. <b>1989</b> , 5, 123-31		4
1269	Recombinant 47-kilodalton cytosol factor restores NADPH oxidase in chronic granulomatous disease. <b>1989</b> , 245, 409-12		304
1268	Autoimmune target in Heymann nephritis is a glycoprotein with homology to the LDL receptor. <b>1989</b> , 244, 1163-5		251
1267	Mapping of OGT in the E.coli chromosome. <i>Nucleic Acids Research</i> , <b>1989</b> , 17, 10505	20.1	8
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1265	Molecular cloning, genomic structure and localization in a blood stage antigen of <i>Plasmodium falciparum</i> characterized by a serine stretch. <b>1989</b> , 32, 73-83		100
1264	A lambda gt11 cDNA recombinant that encodes <i>Dirofilaria immitis</i> paramyosin. <b>1989</b> , 35, 31-41		25
1263	Segment W of <i>Campoletis sonorensis</i> virus: expression, gene products, and organization. <b>1989</b> , 169, 78-89		56
1262	Sequence divergence yet conserved physical characteristics among the E4 proteins of cutaneous human papillomaviruses. <b>1989</b> , 172, 51-62		61
1261	Mechanism of interferon action. Activation of the human P1/eIF-2 alpha protein kinase by individual reovirus s-class mRNAs: s1 mRNA is a potent activator relative to s4 mRNA. <b>1989</b> , 172, 106-15		89

1260	Sequence characterization of the adenovirus 40 fiber gene. <b>1989</b> , 172, 134-44		28
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1258	A capripoxvirus pseudogene whose only intact homologs are in other poxvirus genomes. <b>1989</b> , 172, 350-4		28
1257	Location and nucleotide sequence of the 25K protein missing from baculovirus few polyhedra (FP) mutants. <b>1989</b> , 168, 344-53		76
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1253	Nucleotide sequence of barley stripe mosaic virus RNA alpha: RNA alpha encodes a single polypeptide with homology to corresponding proteins from other viruses. <b>1989</b> , 170, 370-7		42
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1250	Sequence analysis reveals extensive polymorphism and evidence of deletions within the E2 glycoprotein gene of several strains of murine hepatitis virus. <b>1989</b> , 173, 664-73		134
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1244	Nucleotide sequence of the common plasmid of <i>Chlamydia trachomatis</i> serovar L2: Use of compatible deletions to generate overlapping fragments. <b>1989</b> , 19, 67-74		5
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1242	Nucleotide sequence of the gene encoding the membrane protein of human coronavirus 229 E. <b>1989</b> , 107, 323-8		10
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1236	Isolation and sequence analysis of proteins from mouse forebrain using two-dimensional gel electrophoresis coupled to high-pressure liquid extrusion. <b>1989</b> , 180, 340-8		2
1235	Nucleotide sequence of the glyceraldehyde-3-phosphate dehydrogenase gene from the mesophilic methanogenic archaeobacteria <i>Methanobacterium bryantii</i> and <i>Methanobacterium formicicum</i> . Comparison with the respective gene structure of the closely related extreme thermophile <i>Methanothermobacter fervidus</i> . <b>1989</b> , 179, 485-13		50
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1231	Cloning and expression of gamma-glutamyl transpeptidase from isolated porcine brain capillaries. <b>1989</b> , 183, 693-8		36
1230	Genomically linked cellular protein databases derived from two-dimensional polyacrylamide gel electrophoresis. <b>1989</b> , 10, 116-22		38
1229	Genetic and molecular characterization of a-mrh-Mrh, a new mutable system of <i>Zea mays</i> . <b>1989</b> , 10, 507-19		6
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1219	Structure and expression of the URA5 gene of <i>Saccharomyces cerevisiae</i> . <i>Molecular Genetics and Genomics</i> , <b>1989</b> , 215, 455-62		30
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1214	Molecular characterization of an active wheat LMW glutenin gene and its relation to other wheat and barley prolamin genes. <i>Molecular Genetics and Genomics</i> , <b>1989</b> , 216, 81-90		105
1213	Expression of two gas vacuole protein genes in <i>Halobacterium halobium</i> and other related species. <i>Molecular Genetics and Genomics</i> , <b>1989</b> , 218, 437-44		35
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1185	Structure and function of hot spots providing signals for site-directed specific recombination and gene expression in Tn21 transposons. <b>1989</b> , 3, 1545-55	34
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957	Expression of the neurotransmitter-synthesizing enzyme glutamic acid decarboxylase in male germ cells. <b>1990</b> , 10, 4701-11	66
956	Isolation and heterologous expression of a cDNA encoding bovine inositol polyphosphate 1-phosphatase. <b>1990</b> , 87, 9548-52	54
955	Molecular cloning and construction of the coding region for human acetylcholinesterase reveals a G + C-rich attenuating structure. <b>1990</b> , 87, 9688-92	199

954	Concerted evolution of class I genes in the major histocompatibility complex of murine rodents. <b>1990</b> , 87, 2167-71		113
953	Inhibition of influenza virus replication by phosphorothioate oligodeoxynucleotides. <b>1990</b> , 87, 3430-4		74
952	Aspl, a novel isoschizomer of Tth111I [corrected] from <i>Achromobacter</i> species 699 recognizing 5GGACN/NNGTC-3ONucleic Acids Research, <b>1990</b> , 18, 3422	20.1	1
951	Identification and characterization of a <i>Dictyostelium discoideum</i> ribosomal protein gene. <i>Nucleic Acids Research</i> , <b>1990</b> , 18, 4695-701	20.1	12
950	Host sequences flanking the HIV provirus. <i>Nucleic Acids Research</i> , <b>1990</b> , 18, 6045-7	20.1	42
949	A cysteine-string protein is expressed in retina and brain of <i>Drosophila</i> . <b>1990</b> , 7, 15-29		183
948	Molecular analysis of nuc-1+, a gene controlling phosphorus acquisition in <i>Neurospora crassa</i> . <b>1990</b> , 10, 5839-48		48
947	Adenosylcobalamin-dependent methylmalonyl-CoA mutase from <i>Propionibacterium shermanii</i> . Active holoenzyme produced from <i>Escherichia coli</i> . <b>1990</b> , 269, 293-8		47
946	Cloning and sequencing of protochlorophyllide reductase. <b>1990</b> , 265, 789-98		68
945	Immunological cross-reactivity between human tripeptidyl peptidase II and fibronectin. <b>1990</b> , 267, 149-54		16
944	Structural analysis of sulphated glycoprotein 2 from amino acid sequence. Relationship to clusterin and serum protein 40,40. <b>1990</b> , 268, 571-8		70
943	cDNA cloning and expression in <i>Xenopus laevis</i> oocytes of pig renal dipeptidase, a glycosyl-phosphatidylinositol-anchored ectoenzyme. <b>1990</b> , 271, 755-60		49
942	Cloning, sequencing and analysis of the structural gene and regulatory region of the <i>Pseudomonas aeruginosa</i> chromosomal ampC beta-lactamase. <b>1990</b> , 272, 627-31		109
941	cDNA cloning of a 30 kDa erythrocyte membrane protein associated with Rh (Rhesus)-blood-group-antigen expression. <b>1990</b> , 271, 821-5		218
940	Spontaneous deletion formation within the beta-galactosidase gene of <i>Lactobacillus bulgaricus</i> . <b>1990</b> , 172, 5670-6		38
939	Cloning of midecamycin(MLS)-resistance genes from <i>Streptomyces mycarofaciens</i> , <i>Streptomyces lividans</i> and <i>Streptomyces coelicolor</i> A3(2). <b>1990</b> , 43, 977-91		18
938	Genes for two herbicide-inducible cytochromes P-450 from <i>Streptomyces griseolus</i> . <b>1990</b> , 172, 3335-45		90
937	Molecular biology of the anion exchanger gene family. <b>1990</b> , 123, 177-99		155

936	Sequence homology between the subunits of two immunologically and functionally distinct types of fimbriae of <i>Actinomyces</i> spp. <b>1990</b> , 172, 2462-8	54
935	Cloning and nucleotide sequence of luxR, a regulatory gene controlling bioluminescence in <i>Vibrio harveyi</i> . <b>1990</b> , 172, 2946-54	107
934	Control of <i>Escherichia coli</i> superoxide dismutase (sodA and sodB) genes by the ferric uptake regulation (fur) locus. <b>1990</b> , 172, 1930-8	220
933	Sequence analysis and expression of the bacterial dichloromethane dehalogenase structural gene, a member of the glutathione S-transferase supergene family. <b>1990</b> , 172, 164-71	151
932	Cloning, expression, and nucleotide sequence of the <i>Lactobacillus helveticus</i> 481 gene encoding the bacteriocin helveticin J. <b>1990</b> , 172, 6339-47	119
931	Characterization of a beta subunit of the gastric H <sup>+</sup> /K <sup>+</sup> -transporting ATPase. <b>1990</b> , 87, 6767-71	153
930	Trigger factor depletion or overproduction causes defective cell division but does not block protein export. <b>1990</b> , 172, 5555-62	115
929	Roles of the two lysyl-tRNA synthetases of <i>Escherichia coli</i> : analysis of nucleotide sequences and mutant behavior. <b>1990</b> , 172, 3237-43	59
928	RcsB and RcsC: a two-component regulator of capsule synthesis in <i>Escherichia coli</i> . <b>1990</b> , 172, 659-69	241
927	Molecular characterization of the acyl-coenzyme A:isopenicillin N acyltransferase gene (penDE) from <i>Penicillium chrysogenum</i> and <i>Aspergillus nidulans</i> and activity of recombinant enzyme in <i>Escherichia coli</i> . <b>1990</b> , 172, 5908-14	60
926	Identification of phosphate starvation-inducible genes in <i>Escherichia coli</i> K-12 by DNA sequence analysis of psi::lacZ(Mu d1) transcriptional fusions. <b>1990</b> , 172, 3191-200	95
925	Cloning and sequencing of a <i>Bacteroides ruminicola</i> B(1)4 endoglucanase gene. <b>1990</b> , 172, 3620-30	50
924	Nucleotide sequencing of the <i>Proteus mirabilis</i> calcium-independent hemolysin genes (hpmA and hpmB) reveals sequence similarity with the <i>Serratia marcescens</i> hemolysin genes (shlA and shlB). <b>1990</b> , 172, 1206-16	114
923	Nucleotide sequences and mutational analysis of the structural genes for nitrogenase 2 of <i>Azotobacter vinelandii</i> . <b>1990</b> , 172, 3400-8	114
922	Sequence and genetic organization of a <i>Zymomonas mobilis</i> gene cluster that encodes several enzymes of glucose metabolism. <b>1990</b> , 172, 7227-40	112
921	Sensitivity comparison of protein amino acid sequences. <b>1990</b> , 183, 352-65	14
920	Simultaneous comparison of several sequences. <b>1990</b> , 183, 447-56	10
919	Structural analyses of human developmentally regulated Vh3 genes. <b>1990</b> , 31, 257-67	44

918	A segment of human Vh gene locus is duplicated. <b>1990</b> , 31, 593-9	23
917	The variable antigens Vmp7 and Vmp21 of the relapsing fever bacterium <i>Borrelia hermsii</i> are structurally analogous to the VSG proteins of the African trypanosome. <b>1990</b> , 4, 1715-26	64
916	Functional similarities between retroviruses and the IS3 family of bacterial insertion sequences?. <b>1990</b> , 4, 1771-7	195
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914	Molecular characterization of the nodulation gene, <i>nodT</i> , from two biovars of <i>Rhizobium leguminosarum</i> . <b>1990</b> , 4, 245-52	57
913	Characterization of the repertoire of hypervariable regions in the Protein II ( <i>opa</i> ) gene family of <i>Neisseria gonorrhoeae</i> . <b>1990</b> , 4, 439-49	61
912	The life-cycle proteins RodA of <i>Escherichia coli</i> and SpoVE of <i>Bacillus subtilis</i> have very similar primary structures. <b>1990</b> , 4, 513-7	33
911	Genetic characterization of <i>Bordetella pertussis</i> filamentous haemagglutinin: a protein processed from an unusually large precursor. <b>1990</b> , 4, 787-800	102
910	The Min DNA inversion enzyme of plasmid p15B of <i>Escherichia coli</i> 15T-: a new member of the Din family of site-specific recombinases. <b>1990</b> , 4, 991-7	18
909	The identification, characterization, sequencing and mutagenesis of the genes ( <i>hupSL</i> ) encoding the small and large subunits of the H <sub>2</sub> -uptake hydrogenase of <i>Azotobacter chroococcum</i> . <b>1990</b> , 4, 999-1008	50
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907	Sequence, localization and function of the invasin protein of <i>Yersinia enterocolitica</i> . <b>1990</b> , 4, 1119-28	69
906	<i>Mycoplasma pneumoniae</i> DNA gyrase genes. <b>1990</b> , 4, 1129-34	36
905	Nucleotide sequence and codon usage of the elongation factor Tu( <i>EF-Tu</i> ) gene from <i>Mycoplasma pneumoniae</i> . <b>1990</b> , 4, 1303-10	18
904	Lipid modification of the 15 kiloDalton major membrane immunogen of <i>Treponema pallidum</i> . <b>1990</b> , 4, 1371-9	32
903	The mobilization and origin of transfer regions of a <i>Thiobacillus ferrooxidans</i> plasmid: relatedness to plasmids RSF1010 and pSC101. <b>1990</b> , 4, 1381-91	52
902	Molecular analysis of the <i>Escherichia coli</i> K5 <i>kps</i> locus: identification and characterization of an inner-membrane capsular polysaccharide transport system. <b>1990</b> , 4, 1863-9	102
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900	Nucleotide sequence and control of transcription of the bacteriophage T4 motA regulatory gene. <b>1990</b> , 4, 1487-96	22
899	Characterization of a Mycobacterium tuberculosis insertion sequence belonging to the IS3 family. <b>1990</b> , 4, 1607-13	145
898	Synthesis of apolipoprotein A-1 in pig brain microvascular endothelial cells. <b>1990</b> , 54, 444-50	46
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896	Studies on transcription of the yeast URA 2 gene. <b>1990</b> , 72, 215-219	4
895	Cloning and structure of the pyrE gene of Lactobacillus plantarum CCM 1904. <b>1990</b> , 69, 233-238	10
894	Evolutionary relationships between "Q-type" photosynthetic reaction centres: hypothesis-testing using parsimony. <b>1990</b> , 145, 535-45	33
893	Disruption of the actin cytoskeleton in yeast capping protein mutants. <b>1990</b> , 344, 352-4	154
892	Nuclear receptor that identifies a novel retinoic acid response pathway. <b>1990</b> , 345, 224-9	1346
891	The gain of two chloroplast tRNA introns marks the green algal ancestors of land plants. <b>1990</b> , 345, 268-70	133
890	Putative protein kinase product of the Drosophila segment-polarity gene zeste-white3. <b>1990</b> , 345, 825-9	151
889	A gene mapping to the sex-determining region of the mouse Y chromosome is a member of a novel family of embryonically expressed genes. <b>1990</b> , 346, 245-50	1396
888	Molecular cloning and overexpression of the human FK506-binding protein FKBP. <b>1990</b> , 346, 671-4	299
887	In vitro selection of RNA molecules that bind specific ligands. <b>1990</b> , 346, 818-22	7326
886	Partition of tRNA synthetases into two classes based on mutually exclusive sets of sequence motifs. <b>1990</b> , 347, 203-6	1224
885	Molecular cloning of the microtubule-associated mechanochemical enzyme dynamin reveals homology with a new family of GTP-binding proteins. <b>1990</b> , 347, 256-61	336
884	Sequence homology shared by neurofibromatosis type-1 gene and IRA-1 and IRA-2 negative regulators of the RAS cyclic AMP pathway. <b>1990</b> , 347, 291-4	194
883	Relationship between the product of the Drosophila ultraspiracle locus and the vertebrate retinoid X receptor. <b>1990</b> , 347, 298-301	372

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869	The complete amino-acid sequence and the phylogenetic origin of phycocyanin-645 from the cryptophyten alga <i>Chroomonas</i> sp. <b>1990</b> , 371, 537-47	21
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865	Characterisation and sequence of a protective rhoptry antigen from <i>Plasmodium falciparum</i> . <b>1990</b> , 41, 125-34	79

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862	Conservation of functional residues between yeast and E. coli inorganic pyrophosphatases. <b>1990</b> , 1038, 338-45	37
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858	The divergence between two oncogenic Herpesvirus saimiri strains in a genomic region related to the transforming phenotype. <b>1990</b> , 176, 505-14	115
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841	Sequence of the genome RNA of rubella virus: evidence for genetic rearrangement during togavirus evolution. <b>1990</b> , 177, 225-38		135
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457	Cloning and sequence of IS1000, a putative insertion sequence from <i>Thermus thermophilus</i> HB8. <b>1990</b> , 24, 1-11	31
456	Organization, structure, and polymorphisms of the human profilaggrin gene. <b>1990</b> , 29, 9432-40	167
455	Predicting optimal and suboptimal secondary structure for RNA. <b>1990</b> , 183, 281-306	306
454	Profile analysis. <b>1990</b> , 183, 146-59	234
453	Cloning and expression of cDNA and genomic clones encoding three delayed rectifier potassium channels in rat brain. <b>1990</b> , 4, 929-39	295
452	Cloning and analysis of the 5' region of the rat bone/liver/kidney/placenta alkaline phosphatase gene. A dual-function promoter. <b>1990</b> , 10, 38-47	17
451	Isolation and characterization of a <i>Ustilago maydis</i> glyceraldehyde-3-phosphate dehydrogenase-encoding gene. <b>1990</b> , 93, 111-7	41

450	Identical 3250-bp deletion between two AluI repeats in the ADA genes of unrelated ADA-SCID patients. <b>1990</b> , 7, 486-90	30
449	Human arylamine N-acetyltransferase genes: isolation, chromosomal localization, and functional expression. <b>1990</b> , 9, 193-203	396
448	Hydrophobic cluster analysis: procedures to derive structural and functional information from 2-D-representation of protein sequences. <b>1990</b> , 72, 555-74	298
447	Organization and transcription of Volvox histone-encoding genes: similarities between algal and animal genes. <b>1990</b> , 93, 167-75	27
446	The ADE2 gene from <i>Saccharomyces cerevisiae</i> : sequence and new vectors. <b>1990</b> , 95, 91-8	227
445	Nucleotide sequence of the gene encoding the 35-kDa protein of <i>Mycobacterium tuberculosis</i> . <b>1990</b> , 141, 407-23	7
444	Comparison of <i>Streptococcus mutans</i> and <i>Streptococcus sanguis</i> receptors for human salivary agglutinin. <b>1990</b> , 9, 199-211	109
443	Molecular cloning of the bovine blood-brain barrier glucose transporter cDNA and demonstration of phylogenetic conservation of the 5' untranslated region. <b>1990</b> , 1, 224-32	66
442	Molecular cloning of chromosome I DNA from <i>Saccharomyces cerevisiae</i> : isolation, characterization and regulation of the SPO7 sporulation gene. <b>1990</b> , 95, 65-72	13
441	SequenceEditingAligner: a multiple sequence editor and aligner. <b>1990</b> , 7, 39-45	5
440	Gaucher disease associated with a unique KpnI restriction site: identification of the amino-acid substitution. <b>1990</b> , 54, 149-53	29
439	Analysis of the human ornithine aminotransferase gene family. <b>1990</b> , 50, 759-70	15
438	<i>Trypanosoma cruzi</i> : cloning and expression of an antigen recognized by acute and chronic human chagasic sera. <b>1990</b> , 71, 284-93	15
437	Multiple proteins are produced from the dec-1 eggshell gene in <i>Drosophila</i> by alternative RNA splicing and proteolytic cleavage events. <b>1990</b> , 142, 1-12	31
436	The cyanelle genome of <i>Cyanophora paradoxa</i> encodes ribosomal proteins not encoded by the chloroplasts genomes of higher plants. <b>1990</b> , 259, 273-80	40
435	A repeated decapeptide motif in the C-terminal domain of the ribosomal RNA methyltransferase from the erythromycin producer <i>Saccharopolyspora erythraea</i> . <b>1990</b> , 262, 189-93	9
434	Molecular cloning of a human thyrotropin receptor cDNA fragment. Use of highly degenerate, inosine containing primers derived from aligned amino acid sequences of a homologous family of glycoprotein hormone receptors. <b>1990</b> , 264, 193-7	14
433	McrI: a novel class-II restriction endonuclease from <i>Micrococcus cryophilus</i> recognizing 5'CCGRY/CG-3' <b>1990</b> , 264, 218-22	1

432	Evidence that the newly cloned low-density-lipoprotein receptor related protein (LRP) is the alpha 2-macroglobulin receptor. <b>1990</b> , 276, 151-5	277
431	Nucleotide sequence of four genes encoding ribosomal proteins from the $\sigma$ 10 and spectinomycinO operon equivalent region in the archaebacterium Halobacterium marismortui. <b>1990</b> , 267, 193-8	22
430	Molecular cloning of the beta-subunit of the Na,K-ATPase in the brine shrimp, Artemia. The cDNA-derived amino acid sequence shows low homology with the beta-subunits of vertebrates except in the single transmembrane and the carboxy-terminal domains. <b>1990</b> , 269, 233-8	11
429	Purification, cDNA-cloning and expression of human diacylglycerol kinase. <b>1990</b> , 275, 151-8	114
428	A protein with homology to the C-terminal repeat sequence of Octopus rhodopsin and synaptophysin is a member of a multigene family in Dictyostelium discoideum. <b>1990</b> , 266, 118-22	23
427	Identical genes for trimethoprim-resistant dihydrofolate reductase from Staphylococcus aureus in Australia and central Europe. <b>1990</b> , 266, 159-62	26
426	The primary structure of rat ribosomal protein S3. <b>1990</b> , 283, 546-50	27
425	Genomic DNA 5' to the mouse and human angiotensin-converting enzyme genes contains two distinct regions of conserved sequence. <b>1990</b> , 167, 1128-33	35
424	Expression of the pregnancy-specific beta 1-glycoprotein genes in human testis. <b>1990</b> , 166, 622-9	20
423	mRNA of bovine tissue inhibitor of metalloproteinase: sequence and expression in bovine ovarian tissue. <b>1990</b> , 171, 250-6	32
422	Organization of the gene for iso-rANP, a rat B-type natriuretic peptide. <b>1990</b> , 171, 416-23	21
421	The two mRNA forms for the type I alpha regulatory subunit of cAMP-dependent protein kinase from human testis are due to the use of different polyadenylation site signals. <b>1990</b> , 167, 323-30	38
420	The Glu residue in the conserved Asn-Glu-Pro sequence of two highly divergent endo-beta-1,4-glucanases is essential for enzymatic activity. <b>1990</b> , 169, 1035-9	80
419	The alpha-2 isomer of the sodium pump is inhibited by calcium at physiological levels. <b>1990</b> , 173, 99-105	16
418	Secondary structure of the central region of bacteriophage MS2 RNA. Conservation and biological significance. <b>1990</b> , 211, 447-63	46
417	Molecular cloning and characterization of WP34, a phosphorylated human lymphocyte differentiation and activation antigen. <b>1990</b> , 20, 2417-23	33
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415	Molecular cloning and expression of the human 55 kd tumor necrosis factor receptor. <b>1990</b> , 61, 351-9	852

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412	Analysis of the structural diversity of monoclonal antibodies to cyclosporine. <b>1990</b> , 27, 1029-38	11
411	Xylitol production by recombinant <i>Saccharomyces cerevisiae</i> . <b>1991</b> , 9, 1090-5	159
410	Identification and molecular characterization of insulin-like growth factor binding proteins (IGFBP-1, -2, -3, -4, -5 and -6). <b>1991</b> , 3, 243-66	490
409	Cloning and sequence analysis of the human liver rhodanese: comparison with the bovine and chicken enzymes. <b>1991</b> , 180, 887-93	22
408	The influence of flanking sequences on O-glycosylation. <b>1991</b> , 180, 1024-30	73
407	Characterization of a human cDNA that encodes a functional receptor for platelet activating factor. <b>1991</b> , 180, 105-11	167
406	The mouse episialin (Muc1) gene and its promoter: rapid evolution of the repetitive domain in the protein. <b>1991</b> , 181, 121-30	64
405	Cloning and chromosomal localization of a human endothelin ETA receptor. <b>1991</b> , 181, 184-90	44
404	Intrapeptide sequence homology in rubrerythrin from <i>Desulfovibrio vulgaris</i> : identification of potential ligands to the diiron site. <b>1991</b> , 181, 337-41	41
403	AIDS virus infection and autoimmunity: a perspective of the clinical, immunological, and molecular origins of the autoallergic pathologies associated with HIV disease. <b>1991</b> , 58, 163-80	89
402	Novel putative protein kinase clones from a rat large granular lymphocyte tumor cell line. <b>1991</b> , 28, 399-408	4
401	Quantitation of cytokine mRNA levels utilizing the reverse transcriptase-polymerase chain reaction following primary antigen-specific sensitization in vivo-I. Verification of linearity, reproducibility and specificity. <b>1991</b> , 28, 437-47	46
400	A <i>Plasmodium falciparum</i> blood stage antigen highly homologous to the glycoporphin binding protein GBP. <b>1991</b> , 49, 253-64	28
399	Evolutionary grouping of the RAS-protein family. <b>1991</b> , 176, 1130-5	8
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397	A novel anti-inflammatory peptide from human lipocortin 5. <b>1991</b> , 103, 1327-32	30

396	Characterization of a neuronal interleukin-1 receptor and the corresponding mRNA in the mouse anterior pituitary cell line AtT-20. <b>1991</b> , 128, 173-6	32
395	Sequence of the cDNA encoding ovine tumor necrosis factor-alpha: problems with cloning by inverse PCR. <b>1991</b> , 109, 203-10	35
394	Neuropoietic cytokines in the hematopoietic fold. <b>1991</b> , 7, 197-208	474
393	A small multigene family encodes the rod-core linker polypeptides of <i>Anabaena</i> sp. PCC7120 phycobilisomes. <b>1991</b> , 107, 91-9	50
392	Isolation of two cDNAs encoding novel alpha 1-antichymotrypsin-like proteins in a murine chondrocytic cell line. <b>1991</b> , 106, 213-20	43
391	Molecular characterization of the gene encoding a rice endosperm-specific ADPglucose pyrophosphorylase subunit and its developmental pattern of transcription. <b>1991</b> , 97, 199-205	42
390	Cellular transcripts encoded at a locus which permits retrovirus expression in mouse embryonic cells. <b>1991</b> , 101, 177-83	8
389	Cloning and characterization of the <i>Saccharopolyspora erythraea</i> fdxA gene encoding ferredoxin. <b>1991</b> , 100, 231-5	23
388	Isolation and characterization of cDNAs encoding beta A2- and beta A4-crystallins: heterologous interactions in the predicted beta A4-beta B2 heterodimer. <b>1991</b> , 102, 179-88	45
387	A novel species-specific RNA related to alternatively spliced amyloid precursor protein mRNAs. <b>1991</b> , 12, 575-83	46
386	Exon organization of the human FKBP-12 gene: correlation with structural and functional protein domains. <b>1991</b> , 30, 8512-7	21
385	A heparin-binding growth factor secreted by macrophage-like cells that is related to EGF. <b>1991</b> , 251, 936-9	1033
384	Homology between proteins controlling <i>Streptomyces fradiae</i> tylosin resistance and ATP-binding transport. <b>1991</b> , 102, 27-32	84
383	IS406 and IS407, two gene-activating insertion sequences for <i>Pseudomonas cepacia</i> . <b>1991</b> , 105, 101-5	47
382	The long leader sequence of the mouse ornithine decarboxylase mRNA, previously suspected to be a cloning artifact, is probably a product of recombination with MuLV-like retrovirus. <b>1991</b> , 109, 303-5	3
381	The oncofetal gene <i>Pem</i> encodes a homeodomain and is regulated in primordial and pre-muscle stem cells. <b>1991</b> , 34, 155-64	32
380	Lignin peroxidase from the basidiomycete <i>Phanerochaete chrysosporium</i> is synthesized as a preproenzyme. <b>1991</b> , 107, 119-26	46
379	Isolation and nucleotide sequence of the ribosomal protein S16-encoding gene from <i>Aspergillus nidulans</i> . <b>1991</b> , 108, 157-62	6

378	Characterization of PDR4, a <i>Saccharomyces cerevisiae</i> gene that confers pleiotropic drug resistance in high-copy number: identity with YAP1, encoding a transcriptional activator [corrected]. <b>1991</b> , 101, 149-52	67
377	Production of bovine insulin-like growth factor 2 (bIGF2) in <i>Escherichia coli</i> . <b>1991</b> , 101, 291-5	8
376	Multihormonal regulation of the human prolactin gene expression from 5000 bp of its upstream sequence. <b>1991</b> , 80, 53-64	63
375	A complex family of class-II restriction endonucleases, Dsal-VI, in <i>Dactylococcopsis salina</i> . <b>1991</b> , 97, 87-95	16
374	Molecular cloning and sequence analysis of a <i>Rickettsia tsutsugamushi</i> 22 kDa antigen containing B- and T-cell epitopes. <b>1991</b> , 11, 19-31	16
373	The plasminogen activator family from the salivary gland of the vampire bat <i>Desmodus rotundus</i> : cloning and expression. <b>1991</b> , 105, 229-37	108
372	The complex genetic locus polyhomeotic in <i>Drosophila melanogaster</i> potentially encodes two homologous zinc-finger proteins. <b>1991</b> , 105, 185-95	38
371	Sequence and linkage analysis of the <i>Coxiella burnetii</i> citrate synthase-encoding gene. <b>1991</b> , 109, 63-9	15
370	<i>Escherichia coli</i> thymidine kinase: nucleotide sequence of the gene and relationships to other thymidine kinases. <b>1991</b> , 101, 9-14	11
369	Structure and sequence of the human homeobox gene HOX7. <b>1991</b> , 11, 670-8	60
368	A split zinc-finger protein is required for normal yeast growth. <b>1991</b> , 107, 101-10	27
367	Nucleotide sequence of a cluster of genes involved in the transformation of <i>Haemophilus influenzae</i> Rd. <b>1991</b> , 104, 1-10	99
366	Fixation of mutations at the VP1 gene of foot-and-mouth disease virus. Can quasispecies define a transient molecular clock?. <b>1991</b> , 103, 147-53	40
365	M.H2I, a multispecific 5C-DNA methyltransferase encoded by <i>Bacillus amyloliquefaciens</i> phage H2. <b>1991</b> , 100, 213-8	24
364	Cloning the mouse homolog of the human cystic fibrosis transmembrane conductance regulator gene. <b>1991</b> , 10, 301-7	93
363	Structure and organization of the gas vesicle gene cluster on the <i>Halobacterium halobium</i> plasmid pNRC100. <b>1991</b> , 102, 117-22	58
362	The cDNA cloning and RNA distribution of bovine osteopontin. <b>1991</b> , 108, 237-43	55
361	Organisation and Nucleotide Sequence of a Gene Cluster Comprising the Translation Elongation Factor 1 $\beta$ from <i>Sulfolobus acidocaldarius</i> . <b>1991</b> , 14, 14-22	29

360	Isolation and chromosomal localization of a novel nonerythroid ankyrin gene. <b>1991</b> , 10, 858-66	30
359	The mouse biliary glycoprotein gene (Bgp): partial nucleotide sequence, expression, and chromosomal assignment. <b>1991</b> , 10, 583-7	15
358	A preproinsulin-like pseudogene from <i>Neurospora crassa</i> . <b>1991</b> , 82, 275-83	13
357	Molecular cloning and nucleotide sequence of cDNAs encoding human long-chain acyl-CoA dehydrogenase and assignment of the location of its gene (ACADL) to chromosome 2. <b>1991</b> , 11, 609-20	50
356	The gene encoding squalene epoxidase from <i>Saccharomyces cerevisiae</i> : cloning and characterization. <b>1991</b> , 107, 155-60	97
355	A dnaK homolog in the archaebacterium <i>Methanosarcina mazei</i> S6. <b>1991</b> , 108, 133-7	58
354	Heterologous recombination between <i>Autographa californica</i> nuclear polyhedrosis virus DNA and foreign DNA in non-polyhedrin segments of the viral genome. <b>1991</b> , 21, 65-85	10
353	The isolation, cloning and identification of a vegetative catalase gene from <i>Bacillus subtilis</i> . <b>1991</b> , 109, 31-7	54
352	MAP1B is encoded as a polyprotein that is processed to form a complex N-terminal microtubule-binding domain. <b>1991</b> , 7, 129-39	94
351	Cloning of an activated human ret gene with a novel 5' sequence fused by DNA rearrangement. <b>1991</b> , 107, 323-8	7
350	Epitope prediction and confirmation for the human androgen receptor: generation of monoclonal antibodies for multi-assay performance following the synthetic peptide strategy. <b>1991</b> , 1073, 23-32	83
349	Molecular analysis of the dmpM gene encoding an O-demethyl puromycin O-methyltransferase from <i>Streptomyces alboniger</i> . <b>1991</b> , 109, 55-61	27
348	Development of a species-specific DNA probe for <i>Moraxella</i> ( <i>Branhamella</i> ) <i>catarrhalis</i> . <b>1991</b> , 5, 37-48	7
347	Cloning and characterization of the murine promoter for the colony-stimulating factor-1-encoding gene. <b>1991</b> , 102, 165-70	41
346	A gene encoding a fibroblast growth factor receptor isolated from the Huntington disease gene region of human chromosome 4. <b>1991</b> , 11, 1133-42	98
345	A <i>Mycoplasma hyorhinitis</i> protein with sequence similarities to nucleotide-binding enzymes. <b>1991</b> , 97, 77-85	26
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343	A synthetic peptide encompassing two discontinuous regions of hFSH-beta subunit mimics the receptor binding surface of the hormone. <b>1991</b> , 78, 197-204	20

342	Characterization of CARE-1: <i>Candida albicans</i> repetitive element-1. <b>1991</b> , 102, 45-50	24
341	The use of exonuclease III deletions in automated DNA sequencing. <b>1991</b> , 3, 33-40	8
340	Cloning an <i>Escherichia coli</i> gene encoding a protein remarkably similar to mammalian aldehyde dehydrogenases. <b>1991</b> , 99, 15-23	36
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338	Isolation, localization, and physical mapping of a highly polymorphic locus on human chromosome 11q13. <b>1991</b> , 11, 720-9	34
337	A general structure for DNA-dependent DNA polymerases. <b>1991</b> , 100, 27-38	219
336	Genomic organization of the human erythropoietin receptor gene. <b>1991</b> , 11, 974-80	20
335	Characterization of macaque 3 beta-hydroxy-5-ene steroid dehydrogenase/delta 5-delta 4 isomerase: structure and expression in steroidogenic and peripheral tissues in primate. <b>1991</b> , 75, 101-10	59
334	Homologies between mycoplasma adhesion peptide, CD4 and class II MHC proteins: a possible mechanism for HIV-mycoplasma synergism in AIDS. <b>1991</b> , 142, 519-23	24
333	The cloning and sequencing of the virion protein genes from a British isolate of porcine respiratory coronavirus: comparison with transmissible gastroenteritis virus genes. <b>1991</b> , 21, 181-98	40
332	Detection of <i>Mycoplasma bovis</i> and <i>Mycoplasma agalactiae</i> by oligonucleotide probes complementary to 16S rRNA. <b>1991</b> , 5, 27-35	25
331	Sequence of a 1.4-kb region in the 3' flanking region of the murine <i>c-fos</i> proto-oncogene which contains an estrogen-response element. <b>1991</b> , 105, 281-2	12
330	A novel tetradecapeptide isolated from bovine adrenal medulla chromaffin vesicles with strong homology to an internal sequence coded by the rat 1B1075 (Preprosecretogranin III) gene. <b>1991</b> , 2, 511-6	3
329	Construction and characterization of a NotI-BsuE linking library from the human X chromosome. <b>1991</b> , 11, 115-23	6
328	CpG islands: features and distribution in the genomes of vertebrates. <b>1991</b> , 106, 173-83	91
327	cDNA cloning of the type 1 neurofibromatosis gene: complete sequence of the NF1 gene product. <b>1991</b> , 11, 931-40	350
326	Conservation of the sequence of the Alzheimer® disease amyloid peptide in dog, polar bear and five other mammals by cross-species polymerase chain reaction analysis. <b>1991</b> , 10, 299-305	266
325	Structure of the murine <i>c-sis</i> proto-oncogene ( <i>Sis</i> , PDGFB) encoding the B chain of platelet-derived growth factor. <b>1991</b> , 10, 287-92	34

324	Structure and evolution of the <i>Tetrahymena thermophila</i> gene encoding ribosomal protein L21. <b>1991</b> , 98, 161-7		18
323	Porcine SINEs: characterization and use in species-specific amplification. <b>1991</b> , 10, 949-56		42
322	A synthetic peptide corresponding to hFSH-beta-(81-95) has thioredoxin-like activity. <b>1991</b> , 78, 163-70		13
321	A single-strand specific endonuclease activity copurifies with overexpressed T5 D15 exonuclease. <i>Nucleic Acids Research</i> , <b>1991</b> , 19, 4127-32	20.1	42
320	Disulfide assignments in recombinant mouse and human interleukin 4. <b>1991</b> , 30, 1515-23		33
319	Inhibition of gene expression by a short sense fragment. <i>Nucleic Acids Research</i> , <b>1991</b> , 19, 469-75	20.1	46
318	Antisense peptides: tools for receptor isolation? Lack of antisense MSH and ACTH to interact with their sense peptides and to induce receptor-specific antibodies. <b>1991</b> , 11, 13-43		9
317	Synthesis of truncated amino-terminal trimers of thrombospondin. <b>1991</b> , 30, 6556-62		49
316	Epitope mapping of antibodies to acetylcholine receptor alpha subunits using peptides synthesized on polypropylene pegs. <b>1991</b> , 30, 2470-7		43
315	Cloning and characterization of Rrp1, the gene encoding <i>Drosophila</i> strand transferase: carboxy-terminal homology to DNA repair endo/exonucleases. <i>Nucleic Acids Research</i> , <b>1991</b> , 19, 4523-9	20.1	39
314	Differential expression of two genes for 1-aminocyclopropane-1-carboxylate synthase in tomato fruits. <b>1991</b> , 88, 5340-4		142
313	Evolutionary studies of the nerve growth factor family reveal a novel member abundantly expressed in <i>Xenopus</i> ovary. <b>1991</b> , 6, 845-58		726
312	The primary structure of cytochrome c-554 from the green photosynthetic bacterium <i>Chloroflexus aurantiacus</i> . <b>1991</b> , 30, 11451-8		33
311	Structural and functional analysis of EcoRI DNA methyltransferase by proteolysis. <b>1991</b> , 30, 2940-6		27
310	A component of calcium-activated potassium channels encoded by the <i>Drosophila</i> slo locus. <b>1991</b> , 253, 551-5		586
309	<i>Xenopus</i> liver ferritin H subunit: cDNA sequence and mRNA production in the liver following estrogen treatment. <b>1991</b> , 30, 1965-72		15
308	Characterization of the 25-kilodalton subunit of the energy-transducing NADH-ubiquinone oxidoreductase of <i>Paracoccus denitrificans</i> : sequence similarity to the 24-kilodalton subunit of the flavoprotein fraction of mammalian complex I. <b>1991</b> , 30, 8678-84		45
307	Structure of human milk bile salt activated lipase. <b>1991</b> , 30, 500-10		102

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305	Complete nucleotide sequence of the gene for human heparin cofactor II and mapping to chromosomal band 22q11. <b>1991</b> , 30, 1350-7		28
304	Functional duality and structural uniqueness of depressant insect-selective neurotoxins. <b>1991</b> , 30, 4814-21		123
303	Two genes encode the two subunits of cottonseed catalase. <b>1991</b> , 289, 237-43		32
302	Characterization of a cDNA-encoding rabbit brain heme oxygenase-2 and identification of a conserved domain among mammalian heme oxygenase isozymes: possible heme-binding site?. <b>1991</b> , 290, 336-44		64
301	A synthetic peptide substrate for initiation factor-2 kinases. <b>1991</b> , 178, 430-7		29
300	Homology of placental protein 11 and pea seed albumin 2 with vitronectin. <b>1991</b> , 176, 1000-6		27
299	Amino acid sequence of the bacteriophage T5 gene A2 protein. <b>1991</b> , 177, 1240-6		2
298	T2 open reading frame from the Shope fibroma virus encodes a soluble form of the TNF receptor. <b>1991</b> , 176, 335-42		195
297	Gravidin, an endogenous inhibitor of phospholipase A2 activity, is a secretory component of IgA. <b>1991</b> , 176, 447-52		22
296	Identification of macrophage cell-surface binding sites for cationized bovine serum albumin. <b>1991</b> , 181, 787-96		11
295	Biosynthesis of human alpha-N-acetylgalactosaminidase: defective phosphorylation and maturation in infantile alpha-NAGA deficiency. <b>1991</b> , 175, 1097-103		12
294	Complementary DNA sequence of human neutrophil azurocidin, an antibiotic with extensive homology to serine proteases. <b>1991</b> , 177, 688-95		47
293	Molecular characterization of the interleukin-8 receptor. <b>1991</b> , 179, 784-9		33
292	Human elongation factor 1 beta: cDNA and derived amino acid sequence. <b>1991</b> , 177, 312-7		24
291	Sequence microheterogeneity of the three small subunit ribosomal RNA genes of <i>Babesia bigemina</i> : expression in erythrocyte culture. <i>Nucleic Acids Research</i> , <b>1991</b> , 19, 3641-5	20.1	61
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288	Evidence for co-regulation of Cu,Zn superoxide dismutase and metallothionein gene expression in yeast through transcriptional control by copper via the ACE 1 factor. <b>1991</b> , 278, 263-6		75
287	A heptapeptide repeat contributes to the unusual length of chloroplast ribosomal protein S18. Nucleotide sequence and map position of the rpl33-rps18 gene cluster in maize. <b>1991</b> , 279, 193-7		13
286	The three-dimensional structure of the bifunctional proteinase K/alpha-amylase inhibitor from wheat (PK13) at 2.5 A resolution. <b>1991</b> , 279, 240-2		41
285	A structure-derived sequence pattern for the detection of type I copper binding domains in distantly related proteins. <b>1991</b> , 279, 73-8		38
284	Evidence that nebulin is a protein-ruler in muscle thin filaments. <b>1991</b> , 282, 313-6		164
283	Differential regulation of the two mRNA species of the rodent negative acute phase protein alpha 1-inhibitor 3. <b>1991</b> , 282, 368-72		5
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281	OWL--a non-redundant composite protein sequence database. <i>Nucleic Acids Research</i> , <b>1994</b> , 22, 3574-7	20.1	90
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272	GCN20, a novel ATP binding cassette protein, and GCN1 reside in a complex that mediates activation of the eIF-2 alpha kinase GCN2 in amino acid-starved cells. <b>1995</b> , 14, 3184-99		52
271	A human phosphatidylinositol 3-kinase complex related to the yeast Vps34p-Vps15p protein sorting system. <b>1995</b> , 14, 3339-48		138

270	vnd, a gene required for early neurogenesis of <i>Drosophila</i> , encodes a homeodomain protein. <b>1995</b> , 14, 3487-95	31
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268	Activation of alpha-toxin translation in <i>Staphylococcus aureus</i> by the trans-encoded antisense RNA, RNAIII. <b>1995</b> , 14, 4569-77	169
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258	Evolution of cytochrome oxidase, an enzyme older than atmospheric oxygen. <b>1994</b> , 13, 2516-25	57
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256	Evolution of a disrupted TAR RNA hairpin structure in the HIV-1 virus. <b>1994</b> , 13, 2650-9	56
255	Characterization of two protein kinases from <i>Schizosaccharomyces pombe</i> involved in the regulation of DNA repair. <b>1994</b> , 13, 2777-88	42
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250	A nuclear mutation in maize blocks the processing and translation of several chloroplast mRNAs and provides evidence for the differential translation of alternative mRNA forms. <b>1994</b> , 13, 3170-81	109
249	Identification of a high affinity NH <sub>4</sub> <sup>+</sup> transporter from plants. <b>1994</b> , 13, 3464-71	125
248	Tenm, a Drosophila gene related to tenascin, is a new pair-rule gene. <b>1994</b> , 13, 3728-40	62
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