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The pUC plasmids, an M13mp7-derived system for insertion mutagenesis and sequencing with synthetic universal primers

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1865	A new pair of M13 vectors for selecting either DNA strand of double-digest restriction fragments. <i>Gene</i> , 1982 , 19, 269-76	3.8	3000
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1659	Differential expression of the actin gene family of <i>Strongylocentrotus purpuratus</i> . 1984 , 101, 295-306		96
1658	Activation of a heterologous promoter in response to dexamethasone and cadmium by metallothionein gene 5'-flanking DNA. 1984 , 36, 371-9		196
1657	Chromatin assembly in <i>Xenopus</i> oocytes: in vitro studies. 1984 , 37, 33-41		327
1656	Cloning and expression in <i>Escherichia coli</i> of the form II ribulose 1,5-bisphosphate carboxylase/oxygenase gene from <i>Rhodospseudomonas sphaeroides</i> . <i>Gene</i> , 1984 , 31, 91-101	3.8	53
1655	A quantitative beta-galactosidase alpha-complementation assay for fusion proteins containing human insulin B-chain peptides. <i>Gene</i> , 1984 , 29, 247-50	3.8	13
1654	New shuttle vectors for <i>Bacillus subtilis</i> and <i>Escherichia coli</i> which allow rapid detection of inserted fragments. <i>Gene</i> , 1984 , 29, 21-6	3.8	247
1653	The use of promoter fusions in <i>Drosophila</i> genetics: isolation of mutations affecting the heat shock response. 1984 , 37, 979-91		187
1652	Expression of Herpes simplex virus type 1 glycoprotein C antigens in <i>Escherichia coli</i> . <i>Gene</i> , 1984 , 32, 203-15	3.8	22
1651	A novel type of cloning vectors for ultrarapid chemical degradation sequencing of DNA. 1984 , 1, 52-59		26

1650	An unstable mutant gene of the am locus of Neurospora results from a small duplication. <i>Gene</i> , 1984 , 27, 101-7	3.8	10
1649	A simplified and efficient vector-primer cDNA cloning system. <i>Gene</i> , 1984 , 31, 79-89	3.8	66
1648	Avian infectious bronchitis virus genomic RNA contains sequence homologies at the intergenic boundaries. 1984 , 1, 15-24		21
1647	Sequencing of coronavirus IBV genomic RNA: a 195-base open reading frame encoded by mRNA B. <i>Gene</i> , 1984 , 29, 87-92	3.8	26
1646	Purification of restriction endonuclease XcyI from Xanthomonas cyanopsidis. <i>Gene</i> , 1984 , 28, 331-5	3.8	11
1645	Right 25 bp terminus sequence of the nopaline T-DNA is essential for and determines direction of DNA transfer from agrobacterium to the plant genome. 1984 , 38, 455-62		270
1644	New cosmid vectors developed for eukaryotic DNA cloning. <i>Gene</i> , 1984 , 27, 223-32	3.8	80
1643	Structure and function of the adenovirus origin of replication. 1984 , 37, 309-19		174
1642	Molecular clones of the mouse t complex derived from microdissected metaphase chromosomes. 1984 , 36, 783-8		195
1641	Thermo-inducible gene expression in Bacillus subtilis using transcriptional regulatory elements from temperate phage phi 105. <i>Gene</i> , 1984 , 32, 181-94	3.8	30
1640	Sequence of the membrane protein gene from avian coronavirus IBV. 1984 , 1, 303-13		58
1639	Chromatin assembly in Xenopus oocytes: in vivo studies. 1984 , 37, 21-32		270
1638	Mouse T cell antigen receptor: structure and organization of constant and joining gene segments encoding the beta polypeptide. 1984 , 37, 1101-10		398
1637	An E. coli DNA fragment 118 base pairs in length provides dnaY+ complementing activity. 1984 , 37, 669-74		23
1636	Upstream elements necessary for optimal function of the hsp 70 promoter in transformed flies. 1984 , 38, 391-8		240
1635	Expression of a putative plant viral gene in Escherichia coli. <i>Gene</i> , 1984 , 31, 39-47	3.8	10
1634	Assembly of transcriptionally active chromatin in Xenopus oocytes requires specific DNA binding factors. 1984 , 38, 511-21		75
1633	Role of DNA regions flanking the tryptophan promoter of Escherichia coli. I. Insertion of synthetic oligonucleotides. <i>Gene</i> , 1984 , 32, 337-48	3.8	21

1632	Identification of a promoter for transcription of the heavy strand of human mtDNA: in vitro transcription and deletion mutagenesis. 1984 , 36, 1105-13	81
1631	Structural and functional analysis of the human metallothionein-IA gene: differential induction by metal ions and glucocorticoids. 1984 , 37, 263-72	311
1630	Efficiency in cloning and sequencing using the single-stranded bacteriophage M13. 1984 , 1, 253-264	34
1629	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. 1984 , 38, 241-9	119
1628	DNA sequence analysis of the type-common glycoprotein-D genes of herpes simplex virus types 1 and 2. 1984 , 3, 23-9	71
1627	Cloning of an <i>X. laevis</i> gene expressed during early embryogenesis coding for a peptide region homologous to <i>Drosophila</i> homeotic genes. 1984 , 37, 409-14	276
1626	<i>Escherichia coli</i> DNA topoisomerase III: purification and characterization of a new type I enzyme. 1984 , 23, 1899-906	83
1625	Isolation of a human cDNA for alpha 2-thiol proteinase inhibitor and its identity with low molecular weight kininogen. 1984 , 23, 5691-7	222
1624	A gene fusion that localises the penicillin-binding domain of penicillin-binding protein 3 of <i>Escherichia coli</i> . 1984 , 176, 179-84	23
1623	Expression of cloned cDNA for a major surface antigen of <i>Plasmodium falciparum</i> merozoites. 1984 , 173, 108-12	18
1622	Site-specific cleavage of double-strand DNA by hydroperoxide of linoleic acid. 1984 , 172, 231-4	102
1621	Steroid controlled expression of the chicken lysozyme and the rat tryptophan oxygenase gene after transfer into eukaryotic cells. 1984 , 20, 99-104	4
1620	Partial cDNA sequence of the gamma subunit of transducin. 1984 , 124, 250-5	26
1619	Co-linear organization of <i>Xenopus laevis</i> and mouse mitochondrial genomes. 1984 , 122, 918-24	13
1618	Cloning and expression in <i>Streptomyces lividans</i> of a paromomycin phosphotransferase from <i>Streptomyces rimosus</i> Forma paromomycinus. 1984 , 125, 895-901	12
1617	Distribution of repeated DNA families in the human genome. 1984 , 124, 400-6	5
1616	The nucleotide sequence of bacteriophage T5 glutamine transfer RNA. 1984 , 782, 313-9	4
1615	T-DNA fragments of hairy root plasmid pRi8196 are distantly related to octopine and nopaline Ti plasmid T-DNA. 1984 , 11, 130-40	42

1614	A pSC101-derived plasmid which shows no sequence homology to other commonly used cloning vectors. <i>Gene</i> , 1984 , 31, 165-71	3.8	411
1613	Toxicity of an overproduced foreign gene product in <i>Escherichia coli</i> and its use in plasmid vectors for the selection of transcription terminators. <i>Gene</i> , 1984 , 27, 161-72	3.8	176
1612	Sea urchin actin gene subtypes. Gene number, linkage and evolution. 1984 , 172, 149-76		100
1611	A transcription enhancer acts in vitro over distances of hundreds of base-pairs on both circular and linear templates but not on chromatin-reconstituted DNA. 1984 , 180, 577-600		90
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1609	Control of cell division by sex factor F in <i>Escherichia coli</i> . I. The 42.84-43.6 F segment couples cell division of the host bacteria with replication of plasmid DNA. 1984 , 174, 605-25		95
1608	Control of cell division by sex factor F in <i>Escherichia coli</i> . II. Identification of genes for inhibitor protein and trigger protein on the 42.84-43.6 F segment. 1984 , 174, 627-46		69
1607	Purification and characterization of ternary complexes containing accurately initiated RNA polymerase II and less than 20 nucleotides of RNA. 1984 , 178, 415-37		33
1606	Gene expression during development of <i>Myxococcus xanthus</i> . Analysis of the genes for protein S. 1984 , 175, 469-92		40
1605	Replication of adenovirus mini-chromosomes. 1984 , 175, 493-510		74
1604	The 4.5 S RNA gene of <i>Escherichia coli</i> is essential for cell growth. 1984 , 178, 533-50		107
1603	Dispersal process associated with the L1 family of interspersed repetitive DNA sequences. 1984 , 178, 795-813		99
1602	Cell type-specific expression of bovine keratin genes as demonstrated by the use of complementary DNA clones. 1984 , 176, 21-37		66
1601	Human dihydrofolate reductase gene organization. Extensive conservation of the G + C-rich 5' non-coding sequence and strong intron size divergence from homologous mammalian genes. 1984 , 176, 169-87		95
1600	The human T cell antigen receptor is encoded by variable, diversity, and joining gene segments that rearrange to generate a complete V gene. 1984 , 37, 393-401		279
1599	Genomic variants of a temperature-sensitive mutant of <i>Autographa californica</i> nuclear polyhedrosis virus containing specific reiterations of viral DNA. 1984 , 1, 565-84		14
1598	The pIC plasmid and phage vectors with versatile cloning sites for recombinant selection by insertional inactivation. <i>Gene</i> , 1984 , 32, 481-5	3.8	705
1597	Transcription antitermination in vitro by lambda N gene product: requirement for a phage nut site and the products of host nusA, nusB, and nusE genes. 1984 , 38, 165-73		79

1596	Characterisation of the ColE8 plasmid, a new member of the group E colicin plasmids. <i>Gene</i> , 1984 , 29, 145-55	3.8	20
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1594	Further studies on calf thymus DNA polymerase delta purified to homogeneity by a new procedure. 1984 , 23, 1906-13		204
1593	Cloning of the luciferase structural genes from <i>Vibrio harveyi</i> and expression of bioluminescence in <i>Escherichia coli</i> . 1984 , 23, 3663-7		150
1592	Methylphosphonates as probes of protein-nucleic acid interactions. 1984 , 12, 3387-404		64
1591	Construction of a family of universal expression plasmid vectors. <i>Gene</i> , 1984 , 30, 247-50	3.8	84
1590	Identification of a recently evolved goat embryonic beta-globin pseudogene which retains transcriptional activity in vitro. 1984 , 4, 2120-7		11
1589	Expression of the amplified domain in human neuroblastoma cells. 1984 , 4, 2370-80		32
1588	Characterization of the expressed gene and several processed pseudogenes for the mouse ribosomal protein L30 gene family. 1984 , 4, 2518-28		187
1587	Template requirements for the initiation of adenovirus DNA replication. 1984 , 81, 100-4		76
1586	Characterization of a cDNA coding for human factor X. 1984 , 81, 3699-702		122
1585	Cloning of the bronze locus in maize by a simple and generalizable procedure using the transposable controlling element Activator (Ac). 1984 , 81, 3825-9		349
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1582	Genes for the alpha and beta subunits of phycocyanin. 1984 , 81, 7946-50		131
1581	High-level production of biologically active human alpha 1-antitrypsin in <i>Escherichia coli</i> . 1984 , 81, 669-73		126
1580	Proviral deletions and oncogene base-substitutions in insertionally mutagenized c-myc alleles may contribute to the progression of avian bursal tumors. 1984 , 81, 843-7		105
1579	Balbani ring induction in phosphate metabolism. 1984 , 81, 1448-52		44

1578	Expression of tissue-specific Ren-1 and Ren-2 genes of mice: comparative analysis of 5'-proximal flanking regions. 1984 , 4, 2321-31	63
1577	Isolation and characterization of cloned DNA sequences containing ribosomal protein genes of <i>Drosophila melanogaster</i> . 1984 , 4, 2643-52	40
1576	Isolation and characterization of the Beadex locus of <i>Drosophila melanogaster</i> : a putative cis-acting negative regulatory element for the heldup-a gene. 1984 , 4, 1343-53	16
1575	Intervening sequence in the thymidylate synthase gene of bacteriophage T4. 1984 , 81, 3049-53	175
1574	Isolation and characterization of a gene for a major light-harvesting polypeptide from <i>Cyanophora paradoxa</i> . 1984 , 81, 4100-4	51
1573	Structural relationships among genes that control development: sequence homology between the Antennapedia, Ultrabithorax, and fushi tarazu loci of <i>Drosophila</i> . 1984 , 81, 4115-9	605
1572	Characterization of a cDNA coding for human protein C. 1984 , 81, 4766-70	141
1571	Rat liver asialoglycoprotein receptor lacks a cleavable NH ₂ -terminal signal sequence. 1984 , 81, 7338-42	116
1570	The subtilisin E gene of <i>Bacillus subtilis</i> is transcribed from a sigma 37 promoter in vivo. 1984 , 81, 1184-8	133
1569	Isolation and characterization of the rat tyrosine aminotransferase gene. 1984 , 81, 1346-50	110
1568	The bacteriophage T4 regA gene: primary sequence of a translational repressor. 1984 , 12, 5979-93	28
1567	Construction of a new family of high efficiency bacterial expression vectors: identification of cDNA clones coding for human liver proteins.. 1984 , 3, 1429-1434	389
1566	Transformation of <i>Neurospora crassa</i> with the cloned am (glutamate dehydrogenase) gene. 1984 , 4, 117-22	87
1565	Phenotypic expression in <i>Escherichia coli</i> and nucleotide sequence of two Chinese hamster lung cell cDNAs encoding different dihydrofolate reductases. 1984 , 4, 38-48	70
1564	Strong and regulated expression of <i>Escherichia coli</i> beta-galactosidase in insect cells with a baculovirus vector. 1984 , 4, 399-406	250
1563	Isolation and characterization of a cDNA clone for the complete protein coding region of the delta subunit of the mouse acetylcholine receptor. 1984 , 81, 7970-4	135
1562	Separation of sequences defining basal expression from those conferring alpha gene recognition within the regulatory domains of herpes simplex virus 1 alpha genes. 1984 , 81, 4065-9	127
1561	Cell-division control in <i>Escherichia coli</i> : specific induction of the SOS function SfiA protein is sufficient to block septation. 1984 , 81, 4490-4	282

1560	Expression of a biologically active fragment of human IgE epsilon chain in Escherichia coli. 1984 , 81, 5369-73	38
1559	Intrinsic GTPase activity distinguishes normal and oncogenic ras p21 molecules. 1984 , 81, 5704-8	534
1558	Cloning, nucleotide sequence, and expression in Escherichia coli of the exotoxin A structural gene of Pseudomonas aeruginosa. 1984 , 81, 2645-9	251
1557	Selective isolation of cosmid clones by homologous recombination in Escherichia coli. 1984 , 81, 4129-33	158
1556	Molecular cloning of human terminal deoxynucleotidyltransferase. 1984 , 81, 4363-7	47
1555	5' untranslated sequences are required for the translational control of a yeast regulatory gene. 1984 , 81, 5096-100	235
1554	Cloning and sequence analysis of the human major histocompatibility complex gene DC-3 beta. 1984 , 81, 5199-203	110
1553	Amounts, synthesis, and some properties of intracisternal A particle-related RNA in early mouse embryos. 1984 , 81, 488-92	78
1552	Triplication of a four-gene set during evolution of the goat beta-globin locus produced three genes now expressed differentially during development. 1984 , 81, 6589-93	42
1551	Antitermination of transcription from an Escherichia coli ribosomal RNA promoter. 1984 , 81, 6789-93	43
1550	Cloning and sequencing of the genes encoding the alpha and beta subunits of C-phycoerythrin from the cyanobacterium Agmenellum quadruplicatum. 1984 , 81, 6983-7	76
1549	Nucleotide sequence of the tms genes of the pTiA6NC octopine Ti plasmid: two gene products involved in plant tumorigenesis. 1984 , 81, 1728-32	121
1548	Structure and arrangement of the beta-tubulin genes of Leishmania tropica. 1984 , 4, 1372-83	46
1547	Method to map antigenic determinants recognized by monoclonal antibodies: localization of a determinant of virus neutralization on the feline leukemia virus envelope protein gp70. 1984 , 81, 3675-9	62
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1545	Specific DNA rearrangements in synchronously developing nuclei of Tetrahymena. 1984 , 81, 7383-7	108
1544	Structure, expression, and mutation of the hypoxanthine phosphoribosyltransferase gene. 1984 , 81, 2147-51	402
1543	Biosynthesis of calmodulin in normal and virus-transformed chicken embryo fibroblasts. 1984 , 4, 883-9	41

1542	Amphotropic retrovirus vector system for human cell gene transfer. 1984 , 4, 1730-7	105
1541	Minichromosomal repetitive DNA in <i>Trypanosoma cruzi</i> : its use in a high-sensitivity parasite detection assay. 1984 , 81, 3356-60	88
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1539	Molecular cloning and characterization of DNA sequences encoding rat and human atrial natriuretic factors. 1984 , 81, 6325-9	110
1538	Regulation of ribosomal RNA promoters with a synthetic lac operator. 1984 , 81, 6929-33	403
1537	Structure linkage, and sequence of the two genes encoding the delta and gamma subunits of the nicotinic acetylcholine receptor. 1984 , 81, 7975-9	128
1536	In vivo DNA cloning and adjacent gene fusing with a mini-Mu-lac bacteriophage containing a plasmid replicon. 1984 , 81, 1480-3	87
1535	Insertion of retrovirus into the first intron of alpha 1(I) collagen gene to embryonic lethal mutation in mice. 1984 , 81, 1504-8	205
1534	Extensive and widespread homologies between mitochondrial DNA and chloroplast DNA in plants. 1984 , 81, 1946-50	164
1533	Structure and comparison of the oxytocin and vasopressin genes from rat. 1984 , 81, 2006-10	285
1532	Use of a cell cycle mutant to delineate the critical period for the control of histone mRNA levels in the mammalian cell cycle. 1984 , 4, 2364-9	74
1531	Sequence-specific insertion of the <i>Drosophila</i> transposable genetic element 17.6. 1984 , 310, 332-3	55
1530	Characteristics of detergent-resistant phospholipase A overproduced in <i>E. coli</i> cells bearing its cloned structural gene. 1984 , 96, 1645-53	16
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1528	Elastin mRNA levels during foetal development of sheep nuchal ligament and lung. Hybridization to complementary and cloned DNA. 1984 , 220, 653-63	45
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1526	Cloning and identification of promoters from temperate phage λ 05 in <i>Bacillus subtilis</i> using a versatile λ promoter-probe vector. 1984 , 12, 499-500	2
1525	Nucleotide sequence of the <i>Rhodospirillum rubrum</i> atp operon. 1985 , 228, 391-407	141

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1522	Apparent generation of a segmented mRNA from two separate tandem gene families in <i>Trypanosoma cruzi</i> . 1985 , 13, 5789-804	104
1521	Nucleotide sequence of the satellite of peanut stunt virus reveals structural homologies with viroids and certain nuclear and mitochondrial introns. 1985 , 82, 3110-4	31
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1493	Cloning and expression of the 1.3S biotin-containing subunit of transcarboxylase. 1985 , 82, 5617-21	52
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1471	Transfer of genes into hematopoietic cells using recombinant DNA viruses. 1985 , 82, 158-62	49

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