

Symbol	Typ	Titel
<b>C</b>	<b>Sektion</b>	<b>CHEMISTRY; METALLURGY</b>
<b>C12</b>	<b>Klasse</b>	<b>BIOCHEMISTRY; BEER; SPIRITS; WINE; VINEGAR; MICROBIOLOGY; ENZYMOLOGY; MUTATION OR GENETIC ENGINEERING</b>
<b>C12N</b>	<b>Unterklasse</b>	<b>MICROORGANISMS OR ENZYMES; COMPOSITIONS THEREOF (biocides, pest repellants or attractants, or plant growth regulators containing microorganisms, viruses, microbial fungi, enzymes, fermentates, or substances produced by, or extracted from, microorganisms or animal material A01N 63/00; medicinal preparations A61K; fertilisers C05F); PROPAGATING, PRESERVING, OR MAINTAINING MICROORGANISMS; MUTATION OR GENETIC ENGINEERING; CULTURE MEDIA (microbiological testing media C12Q 1/00) [3]</b>
<b>C12N 1/00</b>	<b>Hauptgruppe</b>	<b>Microorganisms, e.g. protozoa; Compositions thereof (medicinal preparations containing material from protozoa, bacteria or viruses A61K 35/66, from algae A61K 36/02, from fungi A61K 36/06; preparing medicinal bacterial antigen or antibody compositions, e.g. bacterial vaccines, A61K 39/00); Processes of propagating, maintaining or preserving microorganisms or compositions thereof; Processes of preparing or isolating a composition containing a microorganism; Culture media therefor [3, 2006.01]</b>
C12N 1/02	1-Punkt Untergruppe	. Separating microorganisms from their culture media [3, 2006.01]
C12N 1/04	1-Punkt Untergruppe	. Preserving or maintaining viable microorganisms (immobilised microorganisms C12N 11/00) [3, 2006.01]
C12N 1/06	1-Punkt Untergruppe	. Lysis of microorganisms [3, 2006.01]
C12N 1/08	1-Punkt Untergruppe	. Reducing the nucleic acid content [3, 2006.01]
C12N 1/10	1-Punkt Untergruppe	. Protozoa; Culture media therefor [3, 2006.01]
C12N 1/11	2-Punkt Untergruppe	. . modified by introduction of foreign genetic material [5, 2006.01]
C12N 1/12	1-Punkt Untergruppe	. Unicellular algae; Culture media therefor (as new plants A01H 13/00) [3, 2006.01]
C12N 1/13	2-Punkt Untergruppe	. . modified by introduction of foreign genetic material [5, 2006.01]
C12N 1/14	1-Punkt Untergruppe	. Fungi (culture of mushrooms A01G 1/04; as new plants A01H 15/00); Culture media therefor [3, 2006.01]
C12N 1/15	2-Punkt Untergruppe	. . modified by introduction of foreign genetic material [5, 2006.01]
C12N 1/16	2-Punkt Untergruppe	. . Yeasts; Culture media therefor [3, 2006.01]
C12N 1/18	3-Punkt Untergruppe	. . . Baker's yeast; Brewer's yeast [3, 2006.01]
C12N 1/19	3-Punkt Untergruppe	. . . modified by introduction of foreign genetic material [5, 2006.01]
C12N 1/20	1-Punkt Untergruppe	. Bacteria; Culture media therefor [3, 2006.01]
C12N 1/21	2-Punkt Untergruppe	. . modified by introduction of foreign genetic material [5, 2006.01]
C12N 1/22	1-Punkt Untergruppe	. Processes using, or culture media containing, cellulose or hydrolysates thereof [3, 2006.01]
C12N 1/24	1-Punkt Untergruppe	. Processes using, or culture media containing, waste sulfite liquor [3, 2006.01]
C12N 1/26	1-Punkt Untergruppe	. Processes using, or culture media containing, hydrocarbons (refining of hydrocarbon oils by using microorganisms C10G 32/00) [3, 2006.01]
C12N 1/28	2-Punkt Untergruppe	. . aliphatic [3, 2006.01]
C12N 1/30	3-Punkt Untergruppe	. . . having five or less carbon atoms [3, 2006.01]
C12N 1/32	1-Punkt Untergruppe	. Processes using, or culture media containing, lower alkanols, i.e. C <sub>1</sub> to C <sub>6</sub> [3, 2006.01]

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C12N 1/34	1-Punkt Untergruppe	. Processes using foam culture [3, 2006.01]
C12N 1/36	1-Punkt Untergruppe	. Adaptation or attenuation of cells [3, 2006.01]
C12N 1/38	1-Punkt Untergruppe	. Chemical stimulation of growth or activity by addition of chemical compounds which are not essential growth factors; Stimulation of growth by removal of a chemical compound (C12N 1/34 takes precedence) [3, 2006.01]
<b>C12N 3/00</b>	<b>Hauptgruppe</b>	<b>Spore-forming or isolating processes [3, 2006.01]</b>
<b>C12N 5/00</b>	<b>Hauptgruppe</b>	<b>Undifferentiated human, animal or plant cells, e.g. cell lines; Tissues; Cultivation or maintenance thereof; Culture media therefor (plant reproduction by tissue culture techniques A01H 4/00) [3, 5, 2006.01]</b>
C12N 5/02	1-Punkt Untergruppe	. Propagation of single cells or cells in suspension; Maintenance thereof; Culture media therefor [3, 2006.01]
C12N 5/04	1-Punkt Untergruppe	. Plant cells or tissues [5, 2006.01]
C12N 5/07	1-Punkt Untergruppe	. Animal cells or tissues [2010.01]
C12N 5/071	2-Punkt Untergruppe	. . Vertebrate cells or tissues, e.g. human cells or tissues [2010.01]
C12N 5/073	3-Punkt Untergruppe	. . . Embryonic cells or tissues; Foetal cells or tissues [2010.01]
C12N 5/0735	4-Punkt Untergruppe	. . . . Embryonic stem cells; Embryonic germ cells [2010.01]
C12N 5/074	3-Punkt Untergruppe	. . . Adult stem cells [2010.01]
C12N 5/075	3-Punkt Untergruppe	. . . Oocytes; Oogonia [2010.01]
C12N 5/076	3-Punkt Untergruppe	. . . Sperm cells; Spermatogonia [2010.01]
C12N 5/077	3-Punkt Untergruppe	. . . Mesenchymal cells, e.g. bone cells, cartilage cells, marrow stromal cells, fat cells or muscle cells [2010.01]
C12N 5/0775	4-Punkt Untergruppe	. . . . Mesenchymal stem cells; Adipose-tissue derived stem cells [2010.01]
C12N 5/078	3-Punkt Untergruppe	. . . Cells from blood or from the immune system [2010.01]
C12N 5/0781	4-Punkt Untergruppe	. . . . B cells; Progenitors thereof [2010.01]
C12N 5/0783	4-Punkt Untergruppe	. . . . T cells; NK cells; Progenitors of T or NK cells [2010.01]
C12N 5/0784	4-Punkt Untergruppe	. . . . Dendritic cells; Progenitors thereof [2010.01]
C12N 5/0786	4-Punkt Untergruppe	. . . . Monocytes; Macrophages [2010.01]
C12N 5/0787	4-Punkt Untergruppe	. . . . Granulocytes, e.g. basophils, eosinophils, neutrophils or mast cells [2010.01]
C12N 5/0789	4-Punkt Untergruppe	. . . . Stem cells; Multipotent progenitor cells [2010.01]
C12N 5/079	3-Punkt Untergruppe	. . . Neural cells [2010.01]
C12N 5/0793	4-Punkt Untergruppe	. . . . Neurons [2010.01]
C12N 5/0797	4-Punkt Untergruppe	. . . . Stem cells; Progenitor cells [2010.01]
C12N 5/09	1-Punkt Untergruppe	. Tumour cells [2010.01]
C12N 5/095	2-Punkt Untergruppe	. . Stem cells; Progenitor cells [2010.01]
C12N 5/10	1-Punkt Untergruppe	. Cells modified by introduction of foreign genetic material, e.g. virus-transformed cells [5, 2006.01]
C12N 5/12	2-Punkt Untergruppe	. . Fused cells, e.g. hybridomas [5, 2006.01]

Symbol	Typ	Titel
C12N 5/14	3-Punkt Untergruppe	. . . Plant cells [5, 2006.01]
C12N 5/16	3-Punkt Untergruppe	. . . Animal cells [5, 2006.01]
C12N 5/18	4-Punkt Untergruppe	. . . . Murine cells, e.g. mouse cells [5, 2006.01]
C12N 5/20	5-Punkt Untergruppe	. . . . . one of the fusion partners being a B lymphocyte [5, 2006.01]
C12N 5/22	3-Punkt Untergruppe	. . . Human cells [5, 2006.01]
C12N 5/24	4-Punkt Untergruppe	. . . . one of the fusion partners being a B lymphocyte [5, 2006.01]
C12N 5/26	3-Punkt Untergruppe	. . . Cells resulting from interspecies fusion [5, 2006.01]
C12N 5/28	4-Punkt Untergruppe	. . . . one of the fusion partners being a human cell [5, 2006.01]
<b>C12N 7/00</b>	<b>Hauptgruppe</b>	<b>Viruses, e.g. bacteriophages; Compositions thereof; Preparation or purification thereof (medicinal preparations containing viruses A61K 35/76; preparing medicinal viral antigen or antibody compositions, e.g. virus vaccines, A61K 39/00) [3, 2006.01]</b>
C12N 7/01	1-Punkt Untergruppe	. Viruses, e.g. bacteriophages, modified by introduction of foreign genetic material (vectors C12N 15/00) [5, 2006.01]
C12N 7/02	1-Punkt Untergruppe	. Recovery or purification [3, 2006.01]
C12N 7/04	1-Punkt Untergruppe	. Inactivation or attenuation; Producing viral sub-units [3, 2006.01]
C12N 7/06	2-Punkt Untergruppe	. . by chemical treatment [3, 2006.01]
C12N 7/08	2-Punkt Untergruppe	. . by serial passage of virus [3, 2006.01]
<b>C12N 9/00</b>	<b>Hauptgruppe</b>	<b>Enzymes, e.g. ligases (6.); Proenzymes; Compositions thereof (preparations containing enzymes for cleaning teeth A61K 8/66, A61Q 11/00; medicinal preparations containing enzymes or proenzymes A61K 38/43; enzyme containing detergent compositions C11D); Processes for preparing, activating, inhibiting, separating, or purifying enzymes [3, 2006.01]</b>
C12N 9/02	1-Punkt Untergruppe	. Oxidoreductases (1.), e.g. luciferase [3, 2006.01]
C12N 9/04	2-Punkt Untergruppe	. . acting on CHOH groups as donors, e.g. glucose oxidase, lactate dehydrogenase (1.1) [3, 2006.01]
C12N 9/06	2-Punkt Untergruppe	. . acting on nitrogen containing compounds as donors (1.4, 1.5, 1.7) [3, 2006.01]
C12N 9/08	2-Punkt Untergruppe	. . acting on hydrogen peroxide as acceptor (1.11) [3, 2006.01]
C12N 9/10	1-Punkt Untergruppe	. Transferases (2.) (ribonucleases C12N 9/22) [3, 2006.01]
C12N 9/12	2-Punkt Untergruppe	. . transferring phosphorus containing groups, e.g. kinases (2.7) [3, 2006.01]
C12N 9/14	1-Punkt Untergruppe	. Hydrolases (3.) [3, 2006.01]
C12N 9/16	2-Punkt Untergruppe	. . acting on ester bonds (3.1) [3, 2006.01]
C12N 9/18	3-Punkt Untergruppe	. . . Carboxylic ester hydrolases [3, 2006.01]
C12N 9/20	4-Punkt Untergruppe	. . . . Triglyceride splitting, e.g. by means of lipase [3, 2006.01]
C12N 9/22	3-Punkt Untergruppe	. . . Ribonucleases [3, 2006.01]
C12N 9/24	2-Punkt Untergruppe	. . acting on glycosyl compounds (3.2) [3, 2006.01]
C12N 9/26	3-Punkt Untergruppe	. . . acting on alpha-1, 4-glucosidic bonds, e.g. hyaluronidase, invertase, amylase [3, 2006.01]
C12N 9/28	4-Punkt Untergruppe	. . . . Alpha-amylase from microbial source, e.g. bacterial amylase [3, 2006.01]
C12N 9/30	5-Punkt Untergruppe	. . . . . Fungal source [3, 2006.01]

Symbol	Typ	Titel
C12N 9/32	4-Punkt Untergruppe	. . . . Alpha-amylase from plant source [3, 2006.01]
C12N 9/34	4-Punkt Untergruppe	. . . . Glucoamylase [3, 2006.01]
C12N 9/36	3-Punkt Untergruppe	. . . acting on beta-1, 4 bonds between N-acetylmuramic acid and 2-acetylamino 2-deoxy-D-glucose, e.g. lysozyme [3, 2006.01]
C12N 9/38	3-Punkt Untergruppe	. . . acting on beta-galactose-glycoside bonds, e.g. beta-galactosidase [3, 2006.01]
C12N 9/40	3-Punkt Untergruppe	. . . acting on alpha-galactose-glycoside bonds, e.g. alpha-galactosidase [3, 2006.01]
C12N 9/42	3-Punkt Untergruppe	. . . acting on beta-1, 4-glucosidic bonds, e.g. cellulase [3, 2006.01]
C12N 9/44	3-Punkt Untergruppe	. . . acting on alpha-1, 6-glucosidic bonds, e.g. isoamylase, pullulanase [3, 2006.01]
C12N 9/46	4-Punkt Untergruppe	. . . . Dextranase [3, 2006.01]
C12N 9/48	2-Punkt Untergruppe	. . acting on peptide bonds, e.g. thromboplastin, leucine aminopeptidase (3.4) [3, 2006.01]
C12N 9/50	3-Punkt Untergruppe	. . . Proteinases [3, 2006.01]
C12N 9/52	4-Punkt Untergruppe	. . . . derived from bacteria [3, 2006.01]
C12N 9/54	5-Punkt Untergruppe	. . . . . bacteria being Bacillus [3, 2006.01]
C12N 9/56	6-Punkt Untergruppe	. . . . . Bacillus subtilis or Bacillus licheniformis [3, 2006.01]
C12N 9/58	4-Punkt Untergruppe	. . . . derived from fungi [3, 2006.01]
C12N 9/60	5-Punkt Untergruppe	. . . . . from yeast [3, 2006.01]
C12N 9/62	5-Punkt Untergruppe	. . . . . from Aspergillus [3, 2006.01]
C12N 9/64	4-Punkt Untergruppe	. . . . derived from animal tissue, e.g. rennin [3, 2006.01]
C12N 9/66	3-Punkt Untergruppe	. . . Elastase [3, 2006.01]
C12N 9/68	3-Punkt Untergruppe	. . . Plasmin, i.e. fibrinolysin [3, 2006.01]
C12N 9/70	3-Punkt Untergruppe	. . . Streptokinase [3, 2006.01]
C12N 9/72	3-Punkt Untergruppe	. . . Urokinase [3, 2006.01]
C12N 9/74	3-Punkt Untergruppe	. . . Thrombin [3, 2006.01]
C12N 9/76	3-Punkt Untergruppe	. . . Trypsin; Chymotrypsin [3, 2006.01]
C12N 9/78	2-Punkt Untergruppe	. . acting on carbon to nitrogen bonds other than peptide bonds (3.5) [3, 2006.01]
C12N 9/80	3-Punkt Untergruppe	. . . acting on amide bonds in linear amides [3, 2006.01]
C12N 9/82	4-Punkt Untergruppe	. . . . Asparaginase [3, 2006.01]
C12N 9/84	4-Punkt Untergruppe	. . . . Penicillin amidase [3, 2006.01]
C12N 9/86	3-Punkt Untergruppe	. . . acting on amide bonds in cyclic amides, e.g. penicillinase [3, 2006.01]
C12N 9/88	1-Punkt Untergruppe	. Lyases (4.) [3, 2006.01]
C12N 9/90	1-Punkt Untergruppe	. Isomerases (5.) [3, 2006.01]
C12N 9/92	2-Punkt Untergruppe	. . Glucose isomerase [3, 2006.01]

Symbol	Typ	Titel
C12N 9/94	1-Punkt Untergruppe	. Pancreatin [3, 2006.01]
C12N 9/96	1-Punkt Untergruppe	. Stabilising an enzyme by forming an adduct or a composition; Forming enzyme conjugates [3, 2006.01]
C12N 9/98	1-Punkt Untergruppe	. Preparation of granular or free-flowing enzyme compositions (C12N 9/96 takes precedence) [3, 2006.01]
C12N 9/99	1-Punkt Untergruppe	. Enzyme inactivation by chemical treatment [3, 2006.01]
<b>C12N 11/00</b>	<b>Hauptgruppe</b>	<b>Carrier-bound or immobilised enzymes; Carrier-bound or immobilised microbial cells; Preparation thereof [3, 2006.01]</b>
C12N 11/02	1-Punkt Untergruppe	. Enzymes or microbial cells being immobilised on or in an organic carrier [3, 2006.01]
C12N 11/04	2-Punkt Untergruppe	. . entrapped within the carrier, e.g. gel, hollow fibre [3, 2006.01]
C12N 11/06	2-Punkt Untergruppe	. . attached to the carrier <u>via</u> a bridging agent [3, 2006.01]
C12N 11/08	2-Punkt Untergruppe	. . the carrier being a synthetic polymer [3, 2006.01]
C12N 11/10	2-Punkt Untergruppe	. . the carrier being a carbohydrate [3, 2006.01]
C12N 11/12	3-Punkt Untergruppe	. . . Cellulose or derivatives thereof [3, 2006.01]
C12N 11/14	1-Punkt Untergruppe	. Enzymes or microbial cells being immobilised on or in an inorganic carrier [3, 2006.01]
C12N 11/16	1-Punkt Untergruppe	. Enzymes or microbial cells being immobilised on or in a biological cell [3, 2006.01]
C12N 11/18	1-Punkt Untergruppe	. Multi-enzyme systems [3, 2006.01]
<b>C12N 13/00</b>	<b>Hauptgruppe</b>	<b>Treatment of microorganisms or enzymes with electrical or wave energy, e.g. magnetism, sonic waves [3, 2006.01]</b>
<b>C12N 15/00</b>	<b>Hauptgruppe</b>	<b>Mutation or genetic engineering; DNA or RNA concerning genetic engineering, vectors, e.g. plasmids, or their isolation, preparation or purification; Use of hosts therefor (mutants or genetically engineered microorganisms C12N 1/00, C12N 5/00, C12N 7/00; new plants A01H; plant reproduction by tissue culture techniques A01H 4/00; new animals A01K 67/00; use of medicinal preparations containing genetic material which is inserted into cells of the living body to treat genetic diseases, gene therapy A61K 48/00; peptides in general C07K) [3, 5, 6, 2006.01]</b>
C12N 15/01	1-Punkt Untergruppe	. Preparation of mutants without inserting foreign genetic material therein; Screening processes therefor [5, 2006.01]
C12N 15/02	1-Punkt Untergruppe	. Preparation of hybrid cells by fusion of two or more cells, e.g. protoplast fusion [5, 2006.01]
C12N 15/03	2-Punkt Untergruppe	. . Bacteria [5, 2006.01]
C12N 15/04	2-Punkt Untergruppe	. . Fungi [5, 2006.01]
C12N 15/05	2-Punkt Untergruppe	. . Plant cells [5, 2006.01]
C12N 15/06	2-Punkt Untergruppe	. . Animal cells [5, 2006.01]
C12N 15/07	2-Punkt Untergruppe	. . Human cells [5, 2006.01]
C12N 15/08	2-Punkt Untergruppe	. . Cells resulting from interspecies fusion [5, 2006.01]
C12N 15/09	1-Punkt Untergruppe	. Recombinant DNA-technology [5, 2006.01]
C12N 15/10	2-Punkt Untergruppe	. . Processes for the isolation, preparation or purification of DNA or RNA (chemical preparation of DNA or RNA C07H 21/00; preparation of non-structural polynucleotides from microorganisms or with enzymes C12P 19/34) [5, 2006.01]
C12N 15/11	2-Punkt Untergruppe	. . DNA or RNA fragments; Modified forms thereof (DNA or RNA not used in recombinant technology C07H 21/00) [5, 2006.01]

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C12N 15/113	3-Punkt Untergruppe	. . . Non-coding nucleic acids modulating the expression of genes, e.g. antisense oligonucleotides [2010.01]
C12N 15/115	3-Punkt Untergruppe	. . . Aptamers, i.e. nucleic acids binding a target molecule specifically and with high affinity without hybridising therewith [2010.01]
C12N 15/117	3-Punkt Untergruppe	. . . Nucleic acids having immunomodulatory properties, e.g. containing CpG-motifs [2010.01]
C12N 15/12	3-Punkt Untergruppe	. . . Genes encoding animal proteins [5, 2006.01]
C12N 15/13	4-Punkt Untergruppe	. . . . Immunoglobulins [5, 2006.01]
C12N 15/14	4-Punkt Untergruppe	. . . . Human serum albumins [5, 2006.01]
C12N 15/15	4-Punkt Untergruppe	. . . . Protease inhibitors, e.g. antithrombin, antitrypsin, hirudin [5, 2006.01]
C12N 15/16	4-Punkt Untergruppe	. . . . Hormones [5, 2006.01]
C12N 15/17	5-Punkt Untergruppe	. . . . . Insulins [5, 2006.01]
C12N 15/18	5-Punkt Untergruppe	. . . . . Growth hormones [5, 2006.01]
C12N 15/19	4-Punkt Untergruppe	. . . . Interferons; Lymphokines; Cytokines [5, 2006.01]
C12N 15/20	5-Punkt Untergruppe	. . . . . Interferons [5, 2006.01]
C12N 15/21	6-Punkt Untergruppe	. . . . . Alpha-interferons [5, 2006.01]
C12N 15/22	6-Punkt Untergruppe	. . . . . Beta-interferons [5, 2006.01]
C12N 15/23	6-Punkt Untergruppe	. . . . . Gamma-interferons [5, 2006.01]
C12N 15/24	5-Punkt Untergruppe	. . . . . Interleukins [5, 2006.01]
C12N 15/25	6-Punkt Untergruppe	. . . . . Interleukin-1 [5, 2006.01]
C12N 15/26	6-Punkt Untergruppe	. . . . . Interleukin-2 [5, 2006.01]
C12N 15/27	5-Punkt Untergruppe	. . . . . Colony stimulating factors [5, 2006.01]
C12N 15/28	5-Punkt Untergruppe	. . . . . Tumor necrosis factors [5, 2006.01]
C12N 15/29	3-Punkt Untergruppe	. . . Genes encoding plant proteins, e.g. thaumatin [5, 2006.01]
C12N 15/30	3-Punkt Untergruppe	. . . Genes encoding protozoal proteins, e.g. from Plasmodium, Trypanosoma, Eimeria [5, 2006.01]
C12N 15/31	3-Punkt Untergruppe	. . . Genes encoding microbial proteins, e.g. enterotoxins [5, 2006.01]
C12N 15/32	4-Punkt Untergruppe	. . . . Bacillus crystal proteins [5, 2006.01]
C12N 15/33	4-Punkt Untergruppe	. . . . Genes encoding viral proteins [5, 2006.01]
C12N 15/34	5-Punkt Untergruppe	. . . . . Proteins from DNA viruses [5, 2006.01]
C12N 15/35	6-Punkt Untergruppe	. . . . . Parvoviridae, e.g. feline panleukopenia virus, human parvovirus [5, 2006.01]
C12N 15/36	6-Punkt Untergruppe	. . . . . Hepadnaviridae [5, 2006.01]
C12N 15/37	6-Punkt Untergruppe	. . . . . Papovaviridae, e.g. papillomaviruses, polyomavirus, SV40 [5, 2006.01]
C12N 15/38	6-Punkt Untergruppe	. . . . . Herpetoviridae, e.g. herpes simplex virus, varicella-zoster virus, Epstein-Barr virus, cytomegalovirus, pseudorabies virus [5, 2006.01]
C12N 15/39	6-Punkt Untergruppe	. . . . . Poxviridae, e.g. vaccinia virus, variola virus [5, 2006.01]

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C12N 15/40	5-Punkt Untergruppe	. . . . . Proteins from RNA viruses, e.g. flaviviruses [5, 2006.01]
C12N 15/41	6-Punkt Untergruppe	. . . . . Picornaviridae, e.g. rhinovirus, coxsackie viruses, echoviruses, enteroviruses [5, 2006.01]
C12N 15/42	7-Punkt Untergruppe	. . . . . Foot-and-mouth disease virus [5, 2006.01]
C12N 15/43	7-Punkt Untergruppe	. . . . . Poliovirus [5, 2006.01]
C12N 15/44	6-Punkt Untergruppe	. . . . . Orthomyxoviridae, e.g. influenza virus [5, 2006.01]
C12N 15/45	6-Punkt Untergruppe	. . . . . Paramyxoviridae, e.g. measles virus, mumps virus, Newcastle disease virus, canine distemper virus, rinderpest virus, respiratory syncytial viruses [5, 2006.01]
C12N 15/46	6-Punkt Untergruppe	. . . . . Reoviridae, e.g. rotavirus, bluetongue virus, Colorado tick fever virus [5, 2006.01]
C12N 15/47	6-Punkt Untergruppe	. . . . . Rhabdoviridae, e.g. rabies viruses, vesicular stomatitis virus [5, 2006.01]
C12N 15/48	6-Punkt Untergruppe	. . . . . Retroviridae, e.g. bovine leukaemia virus, feline leukaemia virus [5, 2006.01]
C12N 15/49	7-Punkt Untergruppe	. . . . . Lentiviridae, e.g. immunodeficiency viruses such as HIV, visna-maedi virus, equine infectious anaemia virus [5, 2006.01]
C12N 15/50	6-Punkt Untergruppe	. . . . . Coronaviridae, e.g. infectious bronchitis virus, transmissible gastroenteritis virus [5, 2006.01]
C12N 15/51	5-Punkt Untergruppe	. . . . . Hepatitis viruses [5, 2006.01]
C12N 15/52	3-Punkt Untergruppe	. . . Genes encoding for enzymes or proenzymes [5, 2006.01]
C12N 15/53	4-Punkt Untergruppe	. . . . Oxidoreductases (1) [5, 2006.01]
C12N 15/54	4-Punkt Untergruppe	. . . . Transferases (2) [5, 2006.01]
C12N 15/55	4-Punkt Untergruppe	. . . . Hydrolases (3) [5, 2006.01]
C12N 15/56	5-Punkt Untergruppe	. . . . . acting on glycosyl compounds (3.2), e.g. amylase, galactosidase, lysozyme [5, 2006.01]
C12N 15/57	5-Punkt Untergruppe	. . . . . acting on peptide bonds (3.4) [5, 2006.01]
C12N 15/58	6-Punkt Untergruppe	. . . . . Plasminogen activators, e.g. urokinase, TPA [5, 2006.01]
C12N 15/59	6-Punkt Untergruppe	. . . . . Chymosin [5, 2006.01]
C12N 15/60	4-Punkt Untergruppe	. . . . Lyases (4) [5, 2006.01]
C12N 15/61	4-Punkt Untergruppe	. . . . Isomerases (5) [5, 2006.01]
C12N 15/62	3-Punkt Untergruppe	. . . DNA sequences coding for fusion proteins [5, 2006.01]
C12N 15/63	2-Punkt Untergruppe	. . Introduction of foreign genetic material using vectors; Vectors; Use of hosts therefor; Regulation of expression [5, 2006.01]
C12N 15/64	3-Punkt Untergruppe	. . . General methods for preparing the vector, for introducing it into the cell or for selecting the vector-containing host [5, 2006.01]
C12N 15/65	3-Punkt Untergruppe	. . . using markers (enzymes used as markers C12N 15/52) [5, 2006.01]
C12N 15/66	3-Punkt Untergruppe	. . . General methods for inserting a gene into a vector to form a recombinant vector using cleavage and ligation; Use of non-functional linkers or adaptors, e.g. linkers containing the sequence for a restriction endonuclease [5, 2006.01]
C12N 15/67	3-Punkt Untergruppe	. . . General methods for enhancing the expression [5, 2006.01]
C12N 15/68	4-Punkt Untergruppe	. . . . Stabilisation of the vector [5, 2006.01]

Symbol	Typ	Titel
C12N 15/69	4-Punkt Untergruppe	. . . . Increasing the copy number of the vector [5, 2006.01]
C12N 15/70	3-Punkt Untergruppe	. . . Vectors or expression systems specially adapted for E. coli [5, 2006.01]
C12N 15/71	4-Punkt Untergruppe	. . . . Expression systems using regulatory sequences derived from the trp-operon [5, 2006.01]
C12N 15/72	4-Punkt Untergruppe	. . . . Expression systems using regulatory sequences derived from the lac-operon [5, 2006.01]
C12N 15/73	4-Punkt Untergruppe	. . . . Expression systems using phage lambda regulatory sequences [5, 2006.01]
C12N 15/74	3-Punkt Untergruppe	. . . Vectors or expression systems specially adapted for prokaryotic hosts other than E. coli, e.g. Lactobacillus, Micromonospora [5, 2006.01]
C12N 15/75	4-Punkt Untergruppe	. . . . for Bacillus [5, 2006.01]
C12N 15/76	4-Punkt Untergruppe	. . . . for Actinomyces; for Streptomyces [5, 2006.01]
C12N 15/77	4-Punkt Untergruppe	. . . . for Corynebacterium; for Brevibacterium [5, 2006.01]
C12N 15/78	4-Punkt Untergruppe	. . . . for Pseudomonas [5, 2006.01]
C12N 15/79	3-Punkt Untergruppe	. . . Vectors or expression systems specially adapted for eukaryotic hosts [5, 2006.01]
C12N 15/80	4-Punkt Untergruppe	. . . . for fungi [5, 2006.01]
C12N 15/81	5-Punkt Untergruppe	. . . . . for yeasts [5, 2006.01]
C12N 15/82	4-Punkt Untergruppe	. . . . for plant cells [5, 2006.01]
C12N 15/83	5-Punkt Untergruppe	. . . . . Viral vectors, e.g. cauliflower mosaic virus [5, 2006.01]
C12N 15/84	5-Punkt Untergruppe	. . . . . Ti-plasmids [5, 2006.01]
C12N 15/85	4-Punkt Untergruppe	. . . . for animal cells [5, 2006.01]
C12N 15/86	5-Punkt Untergruppe	. . . . . Viral vectors [5, 2006.01]
C12N 15/861	6-Punkt Untergruppe	. . . . . . Adenoviral vectors [7, 2006.01]
C12N 15/863	6-Punkt Untergruppe	. . . . . . Poxviral vectors, e.g. vaccinia virus [7, 2006.01]
C12N 15/864	6-Punkt Untergruppe	. . . . . . Parvoviral vectors [7, 2006.01]
C12N 15/866	6-Punkt Untergruppe	. . . . . . Baculoviral vectors [7, 2006.01]
C12N 15/867	6-Punkt Untergruppe	. . . . . . Retroviral vectors [7, 2006.01]
C12N 15/869	6-Punkt Untergruppe	. . . . . . Herpesviral vectors [7, 2006.01]
C12N 15/87	2-Punkt Untergruppe	. . Introduction of foreign genetic material using processes not otherwise provided for, e.g. co-transformation [5, 2006.01]
C12N 15/873	3-Punkt Untergruppe	. . . Techniques for producing new embryos, e.g. nuclear transfer, manipulation of totipotent cells or production of chimeric embryos [2010.01]
C12N 15/877	4-Punkt Untergruppe	. . . . Techniques for producing new mammalian cloned embryos [2010.01]
C12N 15/88	3-Punkt Untergruppe	. . . using microencapsulation, e.g. using liposome vesicle [5, 2006.01]
C12N 15/89	3-Punkt Untergruppe	. . . using microinjection [5, 2006.01]
C12N 15/90	3-Punkt Untergruppe	. . . Stable introduction of foreign DNA into chromosome [5, 2006.01]