# MeSH Tree Structures - 2010

## G5 - GENETIC PHENOMENA

**Genetic Phenomena**

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|---|---|---|---|
| Genetic Phenomena | G5 | | |
| Consanguinity | G5.180 | G5.355. | |
| Founder Effect | G5.285 | | |
| Gene Frequency | G5.330 | | |
| Gene Flow | G5.330.159 | | |
| Genetic Drift | G5.330.320 | G5.355. | |
| Gene Order | G5.340 | | |
| Gene Pool | G5.345 | | |
| Genetic Fitness | G5.347 | | |
| Genetic Load | G5.350 | | |
| Genetic Processes | G5.355 | | |
| Breeding | G5.355.90 | E5.820. | |
| Hybridization, Genetic | G5.355.90.390 | E5.820. | |
| Inbreeding | G5.355.90.403 | E5.820. | |
| Consanguinity | G5.355.90.403.180 | G5.180 | |
| Cell Division | G5.355.105 | G4.299. | G4.299. |
| | | G7.700. | |
| Cell Nucleus Division | G5.355.105.220 | G4.299. | |
| Anaphase | G5.355.105.220.500 | G4.299. | G4.299. |
| | | G5.355. | |
| Chromosome Segregation | G5.355.105.220.625 | G4.299. | |
| Nondisjunction, Genetic | G5.355.105.220.625.620 | C23.550. | G5.355. |
| Meiosis | G5.355.105.220.687 | G4.299. | |
| Meiotic Prophase I | G5.355.105.220.687.500 | G4.299. | G4.299. |
| | | G5.355. | |
| Chromosome Pairing | G5.355.105.220.687.500.299 | G4.299. | G4.299. |
| | | G5.355. | |
| Synaptonemal Complex | G5.355.105.220.687.500.299.500 | A11.284. | G4.299. |
| | | G4.299. | G5.355. |
| | | G5.360. | |
| Pachytene Stage | G5.355.105.220.687.500.600 | G4.299. | G4.299. |
| | | G5.355. | |
| Metaphase | G5.355.105.220.750 | G4.299. | G4.299. |
| | | G5.355. | |
| Mitosis | G5.355.105.220.781 | G4.299. | |
| Anaphase | G5.355.105.220.781.50 | G4.299. | G4.299. |
| | | G5.355. | |
| Metaphase | G5.355.105.220.781.625 | G4.299. | G4.299. |
| | | G5.355. | |
| Prometaphase | G5.355.105.220.781.812 | G4.299. | G4.299. |
| | | G5.355. | |
| Prophase | G5.355.105.220.781.906 | G4.299. | G4.299. |
| | | G5.355. | |
| Telophase | G5.355.105.220.781.953 | G4.299. | G4.299. |
| | | G5.355. | |
| Prometaphase | G5.355.105.220.812 | G4.299. | G4.299. |
| | | G5.355. | |
| Prophase | G5.355.105.220.875 | G4.299. | G4.299. |
| | | G5.355. | |
| Meiotic Prophase I | G5.355.105.220.875.500 | G4.299. | G4.299. |
| | | G5.355. | |
| Chromosome Pairing | G5.355.105.220.875.500.299 | G4.299. | G4.299. |
| | | G5.355. | |
| Synaptonemal Complex | G5.355.105.220.875.500.299.500 | A11.284. | G4.299. |
| | | G4.299. | G5.355. |
| | | G5.360. | |
| Pachytene Stage | G5.355.105.220.875.500.600 | G4.299. | G4.299. |
| | | G5.355. | |

# G5 - GENETIC PHENOMENA

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|---|---|---|---|
| **Genetic Phenomena** | | | |
| **Genetic Processes** | | | |
| **Cell Division** | | | |
| **Cell Nucleus Division** | | | |
| **Telophase** | | | |
| **Telophase** | G5.355.105.220.937 | G4.299.<br>G5.355. | G4.299. |
| **DNA Cleavage** | G5.355.142 | G2.111. | G2.149. |
| **DNA Damage** | G5.355.180 | C21.111 | |
| **DNA Adducts** | G5.355.180.104 | D13.444. | |
| **DNA Breaks** | G5.355.180.210 | | |
| **Chromosome Breakage** | G5.355.180.210.170 | C21.111.<br>G5.365. | C23.550. |
| **Chromosome Breakpoints** | G5.355.180.210.170.500 | | |
| **DNA Breaks, Double-Stranded** | G5.355.180.210.220 | | |
| **DNA Breaks, Single-Stranded** | G5.355.180.210.230 | | |
| **DNA Degradation, Necrotic** | G5.355.180.220 | C23.550. | G4.299. |
| **DNA Fragmentation** | G5.355.180.230 | | |
| **DNA Methylation** | G5.355.190 | G2.111.<br>G2.149.<br>G3.495. | G2.111.<br>G2.149. |
| **DNA Packaging** | G5.355.192 | G4.299. | |
| **Chromatin Assembly and Disassembly** | G5.355.192.95 | G4.299. | G5.355. |
| **DNA Repair** | G5.355.195 | G2.111. | G2.149. |
| **DNA Mismatch Repair** | G5.355.195.220 | G2.111. | G2.149. |
| **SOS Response (Genetics)** | G5.355.195.830 | G2.111. | G2.149. |
| **DNA Replication** | G5.355.200 | G2.111. | G2.149. |
| **DNA Replication Timing** | G5.355.200.760 | G2.111. | G2.149. |
| **S Phase** | G5.355.200.880 | G2.111.<br>G4.299. | G2.149. |
| **Evolution** | G5.355.265 | G16.100. | |
| **Evolution, Molecular** | G5.355.265.250 | G16.100. | |
| **Genetic Drift** | G5.355.265.300 | G5.330. | |
| **Genetic Speciation** | G5.355.265.350 | G16.100. | |
| **Gene Expression** | G5.355.310 | | |
| **Protein Biosynthesis** | G5.355.310.670 | G2.111.<br>G3.495. | G2.149. |
| **Transcription, Genetic** | G5.355.310.700 | G2.111. | G2.149. |
| **Reverse Transcription** | G5.355.310.700.500 | G2.111. | G2.149. |
| **Gene Expression Regulation** | G5.355.315 | | |
| **Chromatin Assembly and Disassembly** | G5.355.315.95 | G4.299. | G5.355. |
| **Down-Regulation** | G5.355.315.200 | G2.111.<br>G7.690. | G2.149.<br>G7.700. |
| **Epigenesis, Genetic** | G5.355.315.203 | | |
| **Chromosomal Position Effects** | G5.355.315.203.124 | | |
| **Dosage Compensation, Genetic** | G5.355.315.203.249 | | |
| **X Chromosome Inactivation** | G5.355.315.203.249.970 | | |
| **Gene Silencing** | G5.355.315.203.374 | | |
| **RNA Interference** | G5.355.315.203.374.790 | | |
| **Genomic Imprinting** | G5.355.315.203.500 | | |
| **Epistasis, Genetic** | G5.355.315.207 | | |
| **Frameshifting, Ribosomal** | G5.355.315.215 | G2.111.<br>G3.495. | G2.149. |
| **Gene Amplification** | G5.355.315.250 | G5.355. | G5.365. |
| **Gene Expression Regulation, Archaeal** | G5.355.315.290 | | |
| **Gene Expression Regulation, Bacterial** | G5.355.315.300 | | |
| **Gene Expression Regulation, Developmental** | G5.355.315.310 | | |
| **Gene Expression Regulation, Enzymologic** | G5.355.315.320 | | |
| **Enzyme Induction** | G5.355.315.320.200 | | |
| **Enzyme Repression** | G5.355.315.320.300 | | |
| **Gene Expression Regulation, Fungal** | G5.355.315.330 | | |
| **Gene Expression Regulation, Neoplastic** | G5.355.315.370 | | |
| **Gene Expression Regulation, Leukemic** | G5.355.315.370.500 | | |
| **Gene Expression Regulation, Plant** | G5.355.315.375 | | |

## G5 - GENETIC PHENOMENA

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| **Genetic Phenomena** | | | |
| **Genetic Processes** | | | |
| **Gene Expression Regulation** | | | |
| **Gene Expression Regulation, Viral** | | | |
| **Gene Expression Regulation, Viral** | G5.355.315.385 | | |
| **Protein Modification, Translational** | G5.355.315.670 | G2.111. | G2.111. |
| | | G2.149. | G2.149. |
| | | G3.495. | |
| **Protein Processing, Post-Translational** | G5.355.315.670.600 | G2.111. | G2.111. |
| | | G2.149. | G2.149. |
| | | G3.495. | |
| **Protein Prenylation** | G5.355.315.670.600.400 | G2.111. | G2.111. |
| | | G2.111. | G2.149. |
| | | G2.149. | G2.149. |
| | | G3.495. | G3.495. |
| **Protein Splicing** | G5.355.315.670.600.700 | G2.111. | G2.111. |
| | | G2.149. | G2.149. |
| | | G3.495. | |
| **RNA Processing, Post-Transcriptional** | G5.355.315.700 | G2.111. | G2.149. |
| | | G3.495. | |
| **RNA 3' End Processing** | G5.355.315.700.225 | G2.111. | G2.149. |
| | | G3.495. | |
| **Polyadenylation** | G5.355.315.700.225.710 | G2.111. | G2.149. |
| | | G3.495. | |
| **RNA Editing** | G5.355.315.700.250 | G2.111. | G2.149. |
| | | G3.495. | |
| **RNA Splicing** | G5.355.315.700.700 | G2.111. | G2.149. |
| | | G3.495. | |
| **Alternative Splicing** | G5.355.315.700.700.100 | G2.111. | G2.149. |
| | | G3.495. | |
| **Trans-Splicing** | G5.355.315.700.700.750 | G2.111. | G2.149. |
| | | G3.495. | |
| **Transcriptional Activation** | G5.355.315.800 | | |
| **Up-Regulation** | G5.355.315.850 | G2.111. | G2.149. |
| | | G7.690. | G7.700. |
| **Gene Rearrangement** | G5.355.330 | | |
| **Gene Rearrangement, B-Lymphocyte** | G5.355.330.401 | G12.425. | G12.500. |
| **Gene Rearrangement, B-Lymphocyte, Heavy Chain** | G5.355.330.401.501 | G12.425. | G12.500. |
| **Immunoglobulin Class Switching** | G5.355.330.401.501.450 | G12.425. | G12.500. |
| **Gene Rearrangement, B-Lymphocyte, Light Chain** | G5.355.330.401.601 | G12.425. | G12.500. |
| **Gene Rearrangement, T-Lymphocyte** | G5.355.330.801 | G12.425. | G12.500. |
| **Gene Rearrangement, alpha-Chain T-Cell Antigen Receptor** | G5.355.330.801.111 | G12.425. | G12.500. |
| **Gene Rearrangement, beta-Chain T-Cell Antigen Receptor** | G5.355.330.801.211 | G12.425. | G12.500. |
| **Gene Rearrangement, delta-Chain T-Cell Antigen Receptor** | G5.355.330.801.261 | G12.425. | G12.500. |
| **Gene Rearrangement, gamma-Chain T-Cell Antigen Receptor** | G5.355.330.801.311 | G12.425. | G12.500. |
| **Heredity** | G5.355.380 | | |
| **Molecular Mimicry** | G5.355.590 | G2.111. | G2.149. |
| **Mutagenesis** | G5.355.600 | | |
| **Amino Acid Substitution** | G5.355.600.109 | E5.393. | |
| **DNA Repeat Expansion** | G5.355.600.220 | G2.111. | G5.360. |
| | | G5.360. | G5.360. |
| | | G5.365. | |
| **Trinucleotide Repeat Expansion** | G5.355.600.220.865 | G2.111. | G2.111. |
| | | G5.360. | G5.360. |
| | | G5.360. | G5.360. |
| | | G5.365. | |
| **Gene Amplification** | G5.355.600.315 | G5.355. | G5.365. |
| **Gene Duplication** | G5.355.600.320 | G5.365. | |
| **INDEL Mutation** | G5.355.600.370 | G5.365. | |
| **Mutagenesis, Insertional** | G5.355.600.550 | E5.393. | G5.365. |
| **Nondisjunction, Genetic** | G5.355.600.620 | C23.550. | G5.355. |
| **Sequence Deletion** | G5.355.600.800 | G5.365. | |

## G5 - GENETIC PHENOMENA

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| Genetic Phenomena | | | |
| Genetic Processes | | | |
| Mutagenesis | | | |
| Sequence Deletion | | | |
| Chromosome Deletion | | | |
| Chromosome Deletion | G5.355.600.800.180 | C23.550.<br>G5.365. | G5.365.<br>G5.365. |
| Gene Deletion | G5.355.600.800.320 | G5.365. | |
| Sequence Inversion | G5.355.600.805 | G5.365. | |
| Chromosome Inversion | G5.355.600.805.500 | C23.550.<br>G5.365. | G5.365. |
| Somatic Hypermutation, Immunoglobulin | G5.355.600.810 | G12.425. | G12.500. |
| Suppression, Genetic | G5.355.600.835 | G5.365. | |
| Translocation, Genetic | G5.355.600.860 | C23.550. | G5.365. |
| Nuclear Reprogramming | G5.355.680 | | |
| Nucleic Acid Denaturation | G5.355.720 | E5.393.<br>G2.149. | G2.111. |
| Recombination, Genetic | G5.355.760 | | |
| Conjugation, Genetic | G5.355.760.200 | | |
| Crossing Over, Genetic | G5.355.760.210 | | |
| Gene Conversion | G5.355.760.380 | | |
| Gene Fusion | G5.355.760.385 | | |
| Oncogene Fusion | G5.355.760.385.500 | | |
| Gene Transfer, Horizontal | G5.355.760.390 | | |
| Sister Chromatid Exchange | G5.355.760.840 | | |
| Transduction, Genetic | G5.355.760.850 | E5.393. | |
| Transfection | G5.355.760.860 | E5.393. | |
| Transformation, Bacterial | G5.355.760.860.500 | E5.393.<br>G6.99. | G5.355.<br>G6.590. |
| Transformation, Genetic | G5.355.760.865 | | |
| Transformation, Bacterial | G5.355.760.865.820 | E5.393.<br>G6.99. | G5.355.<br>G6.590. |
| Selection, Genetic | G5.355.800 | | |
| Sex Determination (Genetics) | G5.355.865 | | |
| Virus Integration | G5.355.930 | G6.590. | G6.920. |
| Lysogeny | G5.355.930.500 | G6.590. | G6.920. |
| Genetic Structures | G5.360 | | |
| Base Sequence | G5.360.80 | G2.111. | L1.453. |
| AT Rich Sequence | G5.360.80.40 | G2.111. | |
| GC Rich Sequence | G5.360.80.380 | G2.111. | |
| CpG Islands | G5.360.80.380.160 | G2.111. | G5.360. |
| Matrix Attachment Regions | G5.360.80.534 | G2.111. | |
| Regulatory Sequences, Nucleic Acid | G5.360.80.689 | G2.111. | |
| Enhancer Elements, Genetic | G5.360.80.689.330 | G2.111. | G5.360. |
| E-Box Elements | G5.360.80.689.330.240 | G2.111. | G5.360. |
| HIV Enhancer | G5.360.80.689.330.400 | G2.111.<br>G5.360. | G2.111.<br>G5.360. |
| Response Elements | G5.360.80.689.330.700 | G2.111.<br>G5.360.<br>G5.360. | G2.111.<br>G5.360. |
| Serum Response Element | G5.360.80.689.330.700.800 | G2.111.<br>G5.360.<br>G5.360. | G2.111.<br>G5.360. |
| Vitamin D Response Element | G5.360.80.689.330.700.920 | G2.111.<br>G5.360.<br>G5.360. | G2.111.<br>G5.360. |
| Gene Regulatory Networks | G5.360.80.689.360 | | |
| Insulator Elements | G5.360.80.689.390 | G2.111. | G5.360. |
| Locus Control Region | G5.360.80.689.450 | G2.111. | G5.360. |
| Operator Regions, Genetic | G5.360.80.689.650 | G2.111.<br>G5.360. | G5.360. |
| Promoter Regions, Genetic | G5.360.80.689.675 | G2.111. | G5.360. |

## G5 - GENETIC PHENOMENA

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| Genetic Phenomena | | | |
| Genetic Structures | | | |
| Base Sequence | | | |
| Regulatory Sequences, Nucleic Acid | | | |
| Promoter Regions, Genetic | | | |
| Response Elements | | | |
| Response Elements | G5.360.80.689.675.700 | G2.111.<br>G5.360.<br>G5.360. | G2.111.<br>G5.360. |
| Serum Response Element | G5.360.80.689.675.700.800 | G2.111.<br>G5.360.<br>G5.360. | G2.111.<br>G5.360. |
| Vitamin D Response Element | G5.360.80.689.675.700.920 | G2.111.<br>G5.360.<br>G5.360. | G2.111.<br>G5.360. |
| TATA Box | G5.360.80.689.675.850 | G2.111. | G5.360. |
| Regulatory Sequences, Ribonucleic Acid | G5.360.80.689.687 | D13.444. | G2.111. |
| RNA 3' Polyadenylation Signals | G5.360.80.689.687.249 | G2.111. | G5.360. |
| RNA Splice Sites | G5.360.80.689.687.490 | D13.444.<br>G5.360. | G2.111. |
| RNA 5' Terminal Oligopyrimidine Sequence | G5.360.80.689.687.500 | G2.111. | G5.360. |
| Silencer Elements, Transcriptional | G5.360.80.689.755 | G2.111. | G5.360. |
| Terminator Regions, Genetic | G5.360.80.689.810 | G2.111. | G5.360. |
| Repetitive Sequences, Nucleic Acid | G5.360.80.708 | G2.111. | |
| Interspersed Repetitive Sequences | G5.360.80.708.330 | G2.111. | G5.360. |
| DNA Transposable Elements | G5.360.80.708.330.200 | D13.444.<br>G5.360. | G2.111. |
| Genomic Islands | G5.360.80.708.330.330 | G2.111. | G5.360. |
| Retroelements | G5.360.80.708.330.800 | D13.444.<br>G5.360. | G2.111. |
| Endogenous Retroviruses | G5.360.80.708.330.800.175 | B4.820.<br>B4.909.<br>G5.360. | B4.909.<br>G2.111. |
| Genes, Intracisternal A-Particle | G5.360.80.708.330.800.200 | G2.111.<br>G5.360. | G5.360.<br>G5.360. |
| Long Interspersed Nucleotide Elements | G5.360.80.708.330.800.400 | G2.111. | G5.360. |
| Short Interspersed Nucleotide Elements | G5.360.80.708.330.800.800 | G2.111. | G5.360. |
| Alu Elements | G5.360.80.708.330.800.800.50 | G2.111. | G5.360. |
| Segmental Duplications, Genomic | G5.360.80.708.565 | G2.111. | |
| Tandem Repeat Sequences | G5.360.80.708.800 | G2.111. | G5.360. |
| DNA Repeat Expansion | G5.360.80.708.800.74 | G2.111.<br>G5.360.<br>G5.365. | G5.355.<br>G5.360. |
| Trinucleotide Repeat Expansion | G5.360.80.708.800.74.865 | G2.111.<br>G5.355.<br>G5.360.<br>G5.365. | G2.111.<br>G5.360.<br>G5.360. |
| DNA, Satellite | G5.360.80.708.800.150 | D13.444.<br>G5.360. | G2.111.<br>G5.360. |
| Inverted Repeat Sequences | G5.360.80.708.800.325 | G2.111. | |
| Microsatellite Repeats | G5.360.80.708.800.500 | G2.111. | G5.360. |
| Dinucleotide Repeats | G5.360.80.708.800.500.150 | G2.111. | G5.360. |
| Trinucleotide Repeats | G5.360.80.708.800.500.850 | G2.111. | G5.360. |
| Trinucleotide Repeat Expansion | G5.360.80.708.800.500.850.200 | G2.111.<br>G5.355.<br>G5.360.<br>G5.365. | G2.111.<br>G5.360.<br>G5.360. |
| Minisatellite Repeats | G5.360.80.708.800.550 | G2.111. | G5.360. |
| Terminal Repeat Sequences | G5.360.80.708.850 | G2.111. | |
| HIV Long Terminal Repeat | G5.360.80.708.850.400 | G2.111. | |
| HIV Enhancer | G5.360.80.708.850.400.400 | G2.111.<br>G5.360. | G2.111.<br>G5.360. |
| Chromosome Structures | G5.360.160 | A11.284. | |
| Centromere | G5.360.160.165 | A11.284. | |
| Kinetochores | G5.360.160.165.500 | A11.284. | |

Genetic Phenomena
Genetic Structures
Chromosome Structures
Chromatids

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| Chromatids | G5.360.160.175 | A11.284. | |
| Chromatin | G5.360.160.180 | A11.284. | D12.776. |
| Euchromatin | G5.360.160.180.270 | A11.284. | D12.776. |
| Heterochromatin | G5.360.160.180.383 | A11.284. | D12.776. |
| Sex Chromatin | G5.360.160.180.383.800 | A11.284. | A11.284. |
| | | G5.360. | |
| Nucleosomes | G5.360.160.180.625 | A11.284. | D12.776. |
| Nucleolus Organizer Region | G5.360.160.650 | A11.284. | G5.360. |
| Synaptonemal Complex | G5.360.160.830 | A11.284. | G4.299. |
| | | G4.299. | G5.355. |
| | | G5.355. | |
| Telomere | G5.360.160.845 | A11.284. | |
| Chromosomes | G5.360.162 | A11.284. | A11.284. |
| Chromosomes, Archaeal | G5.360.162.167 | A11.284. | |
| Chromosomes, Artificial | G5.360.162.178 | A11.284. | G5.360. |
| Chromosomes, Artificial, Bacterial | G5.360.162.178.170 | A11.284. | A11.284. |
| | | A20.812. | G5.360. |
| | | G5.360. | |
| Chromosomes, Artificial, Mammalian | G5.360.162.178.190 | A11.284. | A11.284. |
| | | G5.360. | G5.360. |
| Chromosomes, Artificial, Human | G5.360.162.178.190.117 | A11.284. | A11.284. |
| | | A11.284. | G5.360. |
| | | G5.360. | G5.360. |
| Chromosomes, Artificial, P1 Bacteriophage | G5.360.162.178.195 | A11.284. | G5.360. |
| Chromosomes, Artificial, Yeast | G5.360.162.178.200 | A11.284. | A11.284. |
| | | A19.311. | G5.360. |
| | | G5.360. | |
| Chromosomes, Bacterial | G5.360.162.190 | A11.284. | A20.812 |
| Chromosomes, Artificial, Bacterial | G5.360.162.190.170 | A11.284. | A11.284. |
| | | A20.812. | G5.360. |
| | | G5.360. | |
| Chromosomes, Fungal | G5.360.162.360 | A11.284. | A19.311 |
| Chromosomes, Artificial, Yeast | G5.360.162.360.800 | A11.284. | A11.284. |
| | | A19.311. | G5.360. |
| | | G5.360. | |
| Chromosomes, Mammalian | G5.360.162.520 | A11.284. | |
| Chromosomes, Artificial, Mammalian | G5.360.162.520.190 | A11.284. | A11.284. |
| | | G5.360. | G5.360. |
| Chromosomes, Artificial, Human | G5.360.162.520.190.117 | A11.284. | A11.284. |
| | | A11.284. | G5.360. |
| | | G5.360. | G5.360. |
| Chromosomes, Human | G5.360.162.520.300 | A11.284. | |
| Chromosomes, Artificial, Human | G5.360.162.520.300.117 | A11.284. | A11.284. |
| | | A11.284. | G5.360. |
| | | G5.360. | G5.360. |
| Chromosomes, Human, 1-3 | G5.360.162.520.300.235 | A11.284. | |
| Chromosomes, Human, Pair 1 | G5.360.162.520.300.235.240 | A11.284. | |
| Chromosomes, Human, Pair 2 | G5.360.162.520.300.235.245 | A11.284. | |
| Chromosomes, Human, Pair 3 | G5.360.162.520.300.235.250 | A11.284. | |
| Chromosomes, Human, 4-5 | G5.360.162.520.300.280 | A11.284. | |
| Chromosomes, Human, Pair 4 | G5.360.162.520.300.280.285 | A11.284. | |
| Chromosomes, Human, Pair 5 | G5.360.162.520.300.280.290 | A11.284. | |
| Chromosomes, Human, 6-12 and X | G5.360.162.520.300.325 | A11.284. | |
| Chromosomes, Human, Pair 6 | G5.360.162.520.300.325.330 | A11.284. | |
| Chromosomes, Human, Pair 7 | G5.360.162.520.300.325.335 | A11.284. | |
| Chromosomes, Human, Pair 8 | G5.360.162.520.300.325.340 | A11.284. | |
| Chromosomes, Human, Pair 9 | G5.360.162.520.300.325.345 | A11.284. | |

## G5 - GENETIC PHENOMENA

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|---|---|---|---|
| **Genetic Phenomena** | | | |
| **Genetic Structures** | | | |
| **Chromosomes** | | | |
| **Chromosomes, Mammalian** | | | |
| **Chromosomes, Human** | | | |
| **Chromosomes, Human, 6-12 and X** | | | |
| **Philadelphia Chromosome** | G5.360.162.520.300.325.345.700 | A11.284.<br>C23.550.<br>G5.365. | A11.284.<br>G5.360. |
| **Chromosomes, Human, Pair 10** | G5.360.162.520.300.325.350 | A11.284. | |
| **Chromosomes, Human, Pair 11** | G5.360.162.520.300.325.355 | A11.284. | |
| **Chromosomes, Human, Pair 12** | G5.360.162.520.300.325.360 | A11.284. | |
| **Chromosomes, Human, X** | G5.360.162.520.300.325.680 | A11.284.<br>G5.360. | A11.284. |
| **Chromosomes, Human, 13-15** | G5.360.162.520.300.370 | A11.284. | |
| **Chromosomes, Human, Pair 13** | G5.360.162.520.300.370.375 | A11.284. | |
| **Chromosomes, Human, Pair 14** | G5.360.162.520.300.370.380 | A11.284. | |
| **Chromosomes, Human, Pair 15** | G5.360.162.520.300.370.385 | A11.284. | |
| **Chromosomes, Human, 16-18** | G5.360.162.520.300.415 | A11.284. | |
| **Chromosomes, Human, Pair 16** | G5.360.162.520.300.415.420 | A11.284. | |
| **Chromosomes, Human, Pair 17** | G5.360.162.520.300.415.425 | A11.284. | |
| **Chromosomes, Human, Pair 18** | G5.360.162.520.300.415.430 | A11.284. | |
| **Chromosomes, Human, 19-20** | G5.360.162.520.300.460 | A11.284. | |
| **Chromosomes, Human, Pair 19** | G5.360.162.520.300.460.465 | A11.284. | |
| **Chromosomes, Human, Pair 20** | G5.360.162.520.300.460.470 | A11.284. | |
| **Chromosomes, Human, 21-22 and Y** | G5.360.162.520.300.505 | A11.284. | |
| **Chromosomes, Human, Pair 21** | G5.360.162.520.300.505.510 | A11.284. | |
| **Chromosomes, Human, Pair 22** | G5.360.162.520.300.505.515 | A11.284. | |
| **Philadelphia Chromosome** | G5.360.162.520.300.505.515.700 | A11.284.<br>C23.550.<br>G5.365. | A11.284.<br>G5.360. |
| **Chromosomes, Human, Y** | G5.360.162.520.300.505.757 | A11.284.<br>G5.360. | A11.284. |
| **Chromosomes, Plant** | G5.360.162.560 | A11.284. | A18.05 |
| **Isochromosomes** | G5.360.162.570 | A11.284.<br>G5.365. | C23.550. |
| **Ring Chromosomes** | G5.360.162.788 | A11.284.<br>G5.365. | C23.550. |
| **Sex Chromosomes** | G5.360.162.865 | A11.284. | |
| **Sex Chromatin** | G5.360.162.865.800 | A11.284.<br>G5.360. | A11.284. |
| **X Chromosome** | G5.360.162.865.982 | A11.284. | |
| **Chromosomes, Human, X** | G5.360.162.865.982.500 | A11.284.<br>G5.360. | A11.284. |
| **Y Chromosome** | G5.360.162.865.983 | A11.284. | |
| **Chromosomes, Human, Y** | G5.360.162.865.983.500 | A11.284.<br>G5.360. | A11.284. |
| **Gene Library** | G5.360.325 | | |
| **Genomic Library** | G5.360.325.425 | G5.360. | |
| **Peptide Library** | G5.360.325.640 | D12.644. | G2.111. |
| **Genetic Code** | G5.360.335 | | |
| **Anticodon** | G5.360.335.60 | D13.444. | |
| **Codon** | G5.360.335.355 | D13.444. | G5.360. |
| **Codon, Initiator** | G5.360.335.355.225 | D13.444. | G5.360. |
| **Codon, Terminator** | G5.360.335.355.250 | D13.444. | G5.360. |
| **Codon, Nonsense** | G5.360.335.355.250.235 | D13.444. | G5.365. |
| **Reading Frames** | G5.360.335.760 | | |
| **Open Reading Frames** | G5.360.335.760.640 | G5.360. | |
| **Genetic Vectors** | G5.360.337 | | |
| **Chromosomes, Artificial** | G5.360.337.249 | A11.284. | G5.360. |
| **Chromosomes, Artificial, Bacterial** | G5.360.337.249.170 | A11.284.<br>A20.812.<br>G5.360. | A11.284.<br>G5.360. |
| **Chromosomes, Artificial, Mammalian** | G5.360.337.249.190 | A11.284.<br>G5.360. | A11.284.<br>G5.360. |

## G5 - GENETIC PHENOMENA

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|---|---|---|---|
| Genetic Phenomena | | | |
| Genetic Structures | | | |
| Genetic Vectors | | | |
| Chromosomes, Artificial | | | |
| Chromosomes, Artificial, Mammalian | | | |
| Chromosomes, Artificial, Human | | | |
| Chromosomes, Artificial, Human | G5.360.337.249.190.117 | A11.284.<br>A11.284.<br>G5.360. | A11.284.<br>G5.360.<br>G5.360. |
| Chromosomes, Artificial, P1 Bacteriophage | G5.360.337.249.195 | A11.284. | G5.360. |
| Chromosomes, Artificial, Yeast | G5.360.337.249.200 | A11.284.<br>A19.311.<br>G5.360. | A11.284.<br>G5.360. |
| Cosmids | G5.360.337.500 | G5.360. | |
| Genome | G5.360.340 | | |
| Genome Components | G5.360.340.24 | | |
| Attachment Sites, Microbiological | G5.360.340.24.79 | | |
| CpG Islands | G5.360.340.24.159 | G2.111. | G5.360. |
| DNA Sequence, Unstable | G5.360.340.24.189 | | |
| DNA Repeat Expansion | G5.360.340.24.189.220 | G2.111.<br>G5.360.<br>G5.365. | G5.355.<br>G5.360. |
| Trinucleotide Repeat Expansion | G5.360.340.24.189.220.865 | G2.111.<br>G5.355.<br>G5.360.<br>G5.365. | G2.111.<br>G5.360.<br>G5.360. |
| Chromosome Fragile Sites | G5.360.340.24.189.610 | | |
| DNA, Intergenic | G5.360.340.24.220 | D13.444. | |
| DNA, Satellite | G5.360.340.24.220.150 | D13.444.<br>G5.360. | G2.111.<br>G5.360. |
| 3' Flanking Region | G5.360.340.24.220.280 | G5.360. | |
| 5' Flanking Region | G5.360.340.24.220.282 | G5.360. | |
| Introns | G5.360.340.24.220.400 | G5.360. | |
| Replication Origin | G5.360.340.24.220.760 | G5.360. | |
| Untranslated Regions | G5.360.340.24.220.880 | D13.444.<br>G5.360. | D13.444. |
| 3' Untranslated Regions | G5.360.340.24.220.880.880 | D13.444.<br>G5.360. | D13.444. |
| 5' Untranslated Regions | G5.360.340.24.220.880.885 | D13.444.<br>G5.360. | D13.444. |
| Genes | G5.360.340.24.340 | | |
| Alleles | G5.360.340.24.340.30 | | |
| Gene Components | G5.360.340.24.340.137 | | |
| Codon | G5.360.340.24.340.137.190 | D13.444. | G5.360. |
| Codon, Initiator | G5.360.340.24.340.137.190.225 | D13.444. | G5.360. |
| Codon, Terminator | G5.360.340.24.340.137.190.250 | D13.444. | G5.360. |
| Exons | G5.360.340.24.340.137.232 | | |
| Hinge Exons | G5.360.340.24.340.137.232.459 | G5.360. | |
| VDJ Exons | G5.360.340.24.340.137.232.920 | | |
| Expressed Sequence Tags | G5.360.340.24.340.137.275 | | |
| 3' Flanking Region | G5.360.340.24.340.137.290 | G5.360. | |
| 5' Flanking Region | G5.360.340.24.340.137.295 | G5.360. | |
| Immunoglobulin Switch Region | G5.360.340.24.340.137.430 | G5.360. | |
| Introns | G5.360.340.24.340.137.515 | G5.360. | |
| Open Reading Frames | G5.360.340.24.340.137.650 | G5.360. | |
| Regulatory Elements, Transcriptional | G5.360.340.24.340.137.750 | | |
| Enhancer Elements, Genetic | G5.360.340.24.340.137.750.249 | G2.111. | G5.360. |
| E-Box Elements | G5.360.340.24.340.137.750.249.240 | G2.111. | G5.360. |
| HIV Enhancer | G5.360.340.24.340.137.750.249.400 | G2.111.<br>G5.360. | G2.111.<br>G5.360. |
| Response Elements | G5.360.340.24.340.137.750.249.765 | G2.111.<br>G5.360.<br>G5.360. | G2.111.<br>G5.360. |

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|---|---|---|---|
| Genetic Phenomena | | | |
| Genetic Structures | | | |
| Genome | | | |
| Genome Components | | | |
| Genes | | | |
| Gene Components | | | |
| Serum Response Element | G5.360.340.24.340.137.750.249.765.800 | G2.111.<br>G5.360.<br>G5.360. | G2.111.<br>G5.360. |
| Vitamin D Response Element | G5.360.340.24.340.137.750.249.765.920 | G2.111.<br>G5.360.<br>G5.360. | G2.111.<br>G5.360. |
| Promoter Regions, Genetic | G5.360.340.24.340.137.750.680 | G2.111. | G5.360. |
| Response Elements | G5.360.340.24.340.137.750.680.765 | G2.111.<br>G5.360.<br>G5.360. | G2.111.<br>G5.360. |
| Serum Response Element | G5.360.340.24.340.137.750.680.765.800 | G2.111.<br>G5.360.<br>G5.360. | G2.111.<br>G5.360. |
| Vitamin D Response Element | G5.360.340.24.340.137.750.680.765.920 | G2.111.<br>G5.360.<br>G5.360. | G2.111.<br>G5.360. |
| TATA Box | G5.360.340.24.340.137.750.680.850 | G2.111. | G5.360. |
| Terminator Regions, Genetic | G5.360.340.24.340.137.750.830 | G2.111. | G5.360. |
| Transcription Initiation Site | G5.360.340.24.340.137.750.840 | | |
| RNA 3' Polyadenylation Signals | G5.360.340.24.340.137.775 | G2.111. | G5.360. |
| RNA Splice Sites | G5.360.340.24.340.137.780 | D13.444.<br>G5.360. | G2.111. |
| RNA 5' Terminal Oligopyrimidine Sequence | G5.360.340.24.340.137.785 | G2.111. | G5.360. |
| Untranslated Regions | G5.360.340.24.340.137.910 | D13.444.<br>G5.360. | D13.444. |
| 3' Untranslated Regions | G5.360.340.24.340.137.910.880 | D13.444.<br>G5.360. | D13.444. |
| 5' Untranslated Regions | G5.360.340.24.340.137.910.885 | D13.444.<br>G5.360. | D13.444. |
| Genes, Archaeal | G5.360.340.24.340.200 | G5.360. | |
| Genes, Bacterial | G5.360.340.24.340.210 | G5.360. | |
| Genes, cdc | G5.360.340.24.340.220 | | |
| Genes, Developmental | G5.360.340.24.340.230 | | |
| Genes, Homeobox | G5.360.340.24.340.230.500 | | |
| Genes, Dominant | G5.360.340.24.340.240 | G5.420. | |
| Genes, Duplicate | G5.360.340.24.340.250 | | |
| Genes, Essential | G5.360.340.24.340.270 | | |
| Genes, Fungal | G5.360.340.24.340.290 | G5.360. | |
| Genes, Mating Type, Fungal | G5.360.340.24.340.290.89 | G5.360. | |
| Genes, Helminth | G5.360.340.24.340.310 | G5.360. | |
| Genes, Immediate-Early | G5.360.340.24.340.330 | G5.360. | G5.360. |
| Genes, Immunoglobulin | G5.360.340.24.340.335 | G12.500. | |
| Genes, Immunoglobulin Heavy Chain | G5.360.340.24.340.335.300 | | |
| Hinge Exons | G5.360.340.24.340.335.300.249 | G5.360. | |
| Immunoglobulin Switch Region | G5.360.340.24.340.335.300.500 | G5.360. | |
| Genes, Immunoglobulin Light Chain | G5.360.340.24.340.335.310 | | |
| Genes, Insect | G5.360.340.24.340.340 | G5.360. | |
| Genes, Lethal | G5.360.340.24.340.350 | | |
| Genes, MDR | G5.360.340.24.340.361 | G5.360. | |
| Genes, Mitochondrial | G5.360.340.24.340.365 | G5.420. | |
| Genes, Neoplasm | G5.360.340.24.340.375 | | |
| Genes, Tumor Suppressor | G5.360.340.24.340.375.249 | G5.360. | |
| Genes, APC | G5.360.340.24.340.375.249.50 | G5.360. | |
| Genes, BRCA1 | G5.360.340.24.340.375.249.100 | G5.360. | |
| Genes, BRCA2 | G5.360.340.24.340.375.249.105 | G5.360. | |
| Genes, DCC | G5.360.340.24.340.375.249.200 | G5.360. | |
| Genes, MCC | G5.360.340.24.340.375.249.320 | G5.360. | |
| Genes, Neurofibromatosis 1 | G5.360.340.24.340.375.249.340 | G5.360. | |
| Genes, Neurofibromatosis 2 | G5.360.340.24.340.375.249.345 | G5.360. | |

## G5 - GENETIC PHENOMENA

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|---|---|---|---|
| Genetic Phenomena | | | |
| Genetic Structures | | | |
| Genome | | | |
| Genome Components | | | |
| Genes | | | |
| Genes, Neoplasm | | | |
| Genes, p16 | G5.360.340.24.340.375.249.375 | G5.360. | |
| Genes, p53 | G5.360.340.24.340.375.249.385 | G5.360. | |
| Genes, Retinoblastoma | G5.360.340.24.340.375.249.400 | G5.360. | |
| Genes, Wilms Tumor | G5.360.340.24.340.375.249.420 | G5.360. | |
| Oncogenes | G5.360.340.24.340.375.500 | | |
| Proto-Oncogenes | G5.360.340.24.340.375.500.791 | | |
| Genes, abl | G5.360.340.24.340.375.500.791.100 | | |
| Genes, bcl-1 | G5.360.340.24.340.375.500.791.148 | | |
| Genes, bcl-2 | G5.360.340.24.340.375.500.791.150 | | |
| Genes, erbA | G5.360.340.24.340.375.500.791.290 | | |
| Genes, erbB | G5.360.340.24.340.375.500.791.295 | | |
| Genes, erbB-1 | G5.360.340.24.340.375.500.791.295.300 | | |
| Genes, erbB-2 | G5.360.340.24.340.375.500.791.295.305 | | |
| Genes, fms | G5.360.340.24.340.375.500.791.325 | | |
| Genes, fos | G5.360.340.24.340.375.500.791.330 | | |
| Genes, jun | G5.360.340.24.340.375.500.791.365 | | |
| Genes, mos | G5.360.340.24.340.375.500.791.400 | | |
| Genes, myb | G5.360.340.24.340.375.500.791.418 | | |
| Genes, myc | G5.360.340.24.340.375.500.791.420 | | |
| Genes, ras | G5.360.340.24.340.375.500.791.550 | | |
| Genes, rel | G5.360.340.24.340.375.500.791.552 | | |
| Genes, sis | G5.360.340.24.340.375.500.791.560 | | |
| Genes, src | G5.360.340.24.340.375.500.791.570 | | |
| Genes, Overlapping | G5.360.340.24.340.385 | | |
| Nested Genes | G5.360.340.24.340.385.600 | | |
| Genes, Plant | G5.360.340.24.340.393 | G5.360. | |
| Genes, Protozoan | G5.360.340.24.340.395 | G5.360. | |
| Genes, RAG-1 | G5.360.340.24.340.400 | | |
| Genes, Recessive | G5.360.340.24.340.415 | G5.420. | |
| Genes, Tumor Suppressor | G5.360.340.24.340.415.400 | G5.360. | |
| Genes, APC | G5.360.340.24.340.415.400.50 | G5.360. | |
| Genes, BRCA1 | G5.360.340.24.340.415.400.100 | G5.360. | |
| Genes, BRCA2 | G5.360.340.24.340.415.400.105 | G5.360. | |
| Genes, DCC | G5.360.340.24.340.415.400.200 | G5.360. | |
| Genes, MCC | G5.360.340.24.340.415.400.320 | G5.360. | |
| Genes, Neurofibromatosis 1 | G5.360.340.24.340.415.400.340 | G5.360. | |
| Genes, Neurofibromatosis 2 | G5.360.340.24.340.415.400.345 | G5.360. | |
| Genes, p16 | G5.360.340.24.340.415.400.375 | G5.360. | |
| Genes, p53 | G5.360.340.24.340.415.400.385 | G5.360. | |
| Genes, Retinoblastoma | G5.360.340.24.340.415.400.400 | G5.360. | |
| Genes, Wilms Tumor | G5.360.340.24.340.415.400.420 | G5.360. | |
| Genes, Regulator | G5.360.340.24.340.425 | | |
| Genes, araC | G5.360.340.24.340.425.412 | | |
| Genes, nef | G5.360.340.24.340.425.413 | G5.360. | G5.360. |
| Genes, pX | G5.360.340.24.340.425.416 | G5.360. | G5.360. |
| Genes, rev | G5.360.340.24.340.425.418 | G5.360. | G5.360. |
| Genes, Switch | G5.360.340.24.340.425.420 | | |
| Genes, tat | G5.360.340.24.340.425.560 | G5.360. | G5.360. |
| Genes, vif | G5.360.340.24.340.425.575 | G5.360. | G5.360. |
| Genes, vpr | G5.360.340.24.340.425.578 | G5.360. | G5.360. |
| Genes, vpu | G5.360.340.24.340.425.580 | G5.360. | G5.360. |
| Genes, Reporter | G5.360.340.24.340.435 | | |
| Genes, sry | G5.360.340.24.340.450 | | |
| Genes, Suppressor | G5.360.340.24.340.460 | | |
| Genes, Synthetic | G5.360.340.24.340.465 | | |
| Genes, T-Cell Receptor | G5.360.340.24.340.475 | | |
| Genes, T-Cell Receptor alpha | G5.360.340.24.340.475.50 | | |
| Genes, T-Cell Receptor beta | G5.360.340.24.340.475.80 | | |

## G5 - GENETIC PHENOMENA

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|---|---|---|---|
| Genetic Phenomena | | | |
| Genetic Structures | | | |
| Genome | | | |
| Genome Components | | | |
| Genes | | | |
| Genes, T-Cell Receptor | | | |
| Genes, T-Cell Receptor delta | G5.360.340.24.340.475.240 | | |
| Genes, T-Cell Receptor gamma | G5.360.340.24.340.475.400 | | |
| Genes, Viral | G5.360.340.24.340.490 | G5.360. | |
| Genes, env | G5.360.340.24.340.490.172 | G5.360. | |
| Genes, gag | G5.360.340.24.340.490.258 | G5.360. | |
| Genes, Immediate-Early | G5.360.340.24.340.490.345 | G5.360. | G5.360. |
| Genes, Intracisternal A-Particle | G5.360.340.24.340.490.360 | G2.111. | G5.360. |
| | | G5.360. | G5.360. |
| Genes, nef | G5.360.340.24.340.490.600 | G5.360. | G5.360. |
| Genes, pol | G5.360.340.24.340.490.667 | G5.360. | |
| Genes, pX | G5.360.340.24.340.490.735 | G5.360. | G5.360. |
| Genes, rev | G5.360.340.24.340.490.775 | G5.360. | G5.360. |
| Genes, tat | G5.360.340.24.340.490.850 | G5.360. | G5.360. |
| Genes, vif | G5.360.340.24.340.490.890 | G5.360. | G5.360. |
| Genes, vpr | G5.360.340.24.340.490.897 | G5.360. | G5.360. |
| Genes, vpu | G5.360.340.24.340.490.900 | G5.360. | G5.360. |
| Genes, X-Linked | G5.360.340.24.340.500 | G5.420. | |
| Genes, Y-Linked | G5.360.340.24.340.515 | G5.420. | |
| Major Histocompatibility Complex | G5.360.340.24.340.610 | G5.360. | G12.500. |
| Genes, MHC Class I | G5.360.340.24.340.610.595 | G5.360. | G12.500. |
| Genes, MHC Class II | G5.360.340.24.340.610.600 | G5.360. | G12.500. |
| Multigene Family | G5.360.340.24.340.645 | | |
| Genes, MDR | G5.360.340.24.340.645.500 | G5.360. | |
| Genes, rRNA | G5.360.340.24.340.645.750 | | |
| Pseudogenes | G5.360.340.24.340.700 | | |
| Transgenes | G5.360.340.24.340.825 | | |
| Genes, Transgenic, Suicide | G5.360.340.24.340.825.500 | | |
| Genetic Loci | G5.360.340.24.380 | | |
| Locus Control Region | G5.360.340.24.380.249 | G2.111. | G5.360. |
| Major Histocompatibility Complex | G5.360.340.24.380.500 | G5.360. | G12.500. |
| Genes, MHC Class I | G5.360.340.24.380.500.595 | G5.360. | G12.500. |
| Genes, MHC Class II | G5.360.340.24.380.500.600 | G5.360. | G12.500. |
| Minor Histocompatibility Loci | G5.360.340.24.380.625 | G12.500. | |
| Minor Lymphocyte Stimulatory Loci | G5.360.340.24.380.750 | G12.500. | |
| Nucleolus Organizer Region | G5.360.340.24.380.875 | A11.284. | G5.360. |
| Quantitative Trait Loci | G5.360.340.24.380.937 | | |
| t-Complex Genome Region | G5.360.340.24.380.968 | | |
| Insulator Elements | G5.360.340.24.420 | G2.111. | G5.360. |
| Interspersed Repetitive Sequences | G5.360.340.24.425 | G2.111. | G5.360. |
| DNA Transposable Elements | G5.360.340.24.425.200 | D13.444. | G2.111. |
| | | G5.360. | |
| Genomic Islands | G5.360.340.24.425.500 | G2.111. | G5.360. |
| Retroelements | G5.360.340.24.425.800 | D13.444. | G2.111. |
| | | G5.360. | |
| Endogenous Retroviruses | G5.360.340.24.425.800.175 | B4.820. | B4.909. |
| | | B4.909. | G2.111. |
| | | G5.360. | |
| Genes, Intracisternal A-Particle | G5.360.340.24.425.800.200 | G2.111. | G5.360. |
| | | G5.360. | G5.360. |
| Long Interspersed Nucleotide Elements | G5.360.340.24.425.800.400 | G2.111. | G5.360. |
| Short Interspersed Nucleotide Elements | G5.360.340.24.425.800.800 | G2.111. | G5.360. |
| Alu Elements | G5.360.340.24.425.800.800.50 | G2.111. | G5.360. |
| Isochores | G5.360.340.24.430 | D13.444. | |
| Operon | G5.360.340.24.686 | G5.360. | |
| Lac Operon | G5.360.340.24.686.545 | G5.360. | |
| Operator Regions, Genetic | G5.360.340.24.686.645 | G2.111. | G5.360. |
| | | G5.360. | |
| rRNA Operon | G5.360.340.24.686.817 | G5.360. | |

## G5 - GENETIC PHENOMENA

| | | | |
|---|---|---|---|
| Genetic Phenomena | | | |
| Genetic Structures | | | |
| Genome | | | |
| Genome Components | | | |
| Regulon | | | |
| Regulon | G5.360.340.24.742 | | |
| Replicon | G5.360.340.24.745 | | |
| Replication Origin | G5.360.340.24.745.725 | G5.360. | |
| Sequence Tagged Sites | G5.360.340.24.810 | | |
| Silencer Elements, Transcriptional | G5.360.340.24.815 | G2.111. | G5.360. |
| Tandem Repeat Sequences | G5.360.340.24.850 | G2.111. | G5.360. |
| DNA Repeat Expansion | G5.360.340.24.850.140 | G2.111. | G5.355. |
| | | G5.360. | G5.360. |
| | | G5.365. | |
| DNA, Satellite | G5.360.340.24.850.150 | D13.444. | G2.111. |
| | | G5.360. | G5.360. |
| Microsatellite Repeats | G5.360.340.24.850.500 | G2.111. | G5.360. |
| Dinucleotide Repeats | G5.360.340.24.850.500.150 | G2.111. | G5.360. |
| Trinucleotide Repeats | G5.360.340.24.850.500.850 | G2.111. | G5.360. |
| Trinucleotide Repeat Expansion | G5.360.340.24.850.500.850.200 | G2.111. | G2.111. |
| | | G5.355. | G5.360. |
| | | G5.360. | G5.360. |
| | | G5.365. | |
| Minisatellite Repeats | G5.360.340.24.850.550 | G2.111. | G5.360. |
| Genome, Archaeal | G5.360.340.50 | | |
| Genes, Archaeal | G5.360.340.50.500 | G5.360. | |
| Genome, Bacterial | G5.360.340.300 | | |
| Genes, Bacterial | G5.360.340.300.249 | G5.360. | |
| Operon | G5.360.340.300.500 | G5.360. | |
| Lac Operon | G5.360.340.300.500.545 | G5.360. | |
| Operator Regions, Genetic | G5.360.340.300.500.645 | G2.111. | G5.360. |
| | | G5.360. | |
| rRNA Operon | G5.360.340.300.500.817 | G5.360. | |
| Genome, Fungal | G5.360.340.325 | | |
| Genes, Fungal | G5.360.340.325.500 | G5.360. | |
| Genes, Mating Type, Fungal | G5.360.340.325.500.89 | G5.360. | |
| Genome, Helminth | G5.360.340.337 | | |
| Genes, Helminth | G5.360.340.337.500 | G5.360. | |
| Genome, Human | G5.360.340.350 | | |
| Genome, Insect | G5.360.340.357 | | |
| Genes, Insect | G5.360.340.357.500 | G5.360. | |
| Genome, Mitochondrial | G5.360.340.360 | | |
| Genome, Plant | G5.360.340.365 | | |
| Genes, Plant | G5.360.340.365.500 | G5.360. | |
| Genome, Plastid | G5.360.340.370 | | |
| Genome, Chloroplast | G5.360.340.370.200 | | |
| Genome, Protozoan | G5.360.340.375 | | |
| Genes, Protozoan | G5.360.340.375.500 | G5.360. | |
| Genome, Viral | G5.360.340.400 | | |
| Genes, Viral | G5.360.340.400.500 | G5.360. | |
| Genes, env | G5.360.340.400.500.172 | G5.360. | |
| Genes, gag | G5.360.340.400.500.258 | G5.360. | |
| Genes, Immediate-Early | G5.360.340.400.500.345 | G5.360. | G5.360. |
| Genes, Intracisternal A-Particle | G5.360.340.400.500.360 | G2.111. | G5.360. |
| | | G5.360. | G5.360. |
| Genes, nef | G5.360.340.400.500.600 | G5.360. | G5.360. |
| Genes, pol | G5.360.340.400.500.667 | G5.360. | |
| Genes, pX | G5.360.340.400.500.735 | G5.360. | G5.360. |
| Genes, rev | G5.360.340.400.500.775 | G5.360. | G5.360. |
| Genes, tat | G5.360.340.400.500.850 | G5.360. | G5.360. |
| Genes, vif | G5.360.340.400.500.890 | G5.360. | G5.360. |
| Genes, vpr | G5.360.340.400.500.897 | G5.360. | G5.360. |
| Genes, vpu | G5.360.340.400.500.900 | G5.360. | G5.360. |
| Genomic Library | G5.360.340.425 | G5.360. | |

## G5 - GENETIC PHENOMENA

| | | | |
|---|---|---|---|
| **Genetic Phenomena** | | | |
| **Genetic Structures** | | | |
| **Genome** | | | |
| **Metagenome** | | | |
| **Metagenome** | G5.360.340.550 | | |
| **Histone Code** | G5.360.360 | G2.111. | |
| **Nucleic Acid Conformation** | G5.360.580 | G2.111. | |
| **Base Pairing** | G5.360.580.100 | G2.111.<br>G2.149. | G2.111. |
| **DNA, Cruciform** | G5.360.580.325 | D13.444. | G2.111. |
| **G-Quadruplexes** | G5.360.580.550 | G2.111. | |
| **Plasmids** | G5.360.600 | | |
| **Bacteriocin Plasmids** | G5.360.600.80 | | |
| **Cosmids** | G5.360.600.250 | G5.360. | |
| **F Factor** | G5.360.600.300 | | |
| **Hemolysin Factors** | G5.360.600.430 | | |
| **Lactose Factors** | G5.360.600.500 | | |
| **Plant Tumor-Inducing Plasmids** | G5.360.600.550 | | |
| **R Factors** | G5.360.600.600 | | |
| **Templates, Genetic** | G5.360.840 | | |
| **Genetic Variation** | G5.365 | | |
| **Antibody Diversity** | G5.365.36 | G12.51 | G12.500. |
| **Antigenic Variation** | G5.365.73 | G12.500. | |
| **Genetic Heterogeneity** | G5.365.331 | | |
| **Mutation** | G5.365.590 | | |
| **Allelic Imbalance** | G5.365.590.29 | | |
| **Loss of Heterozygosity** | G5.365.590.29.530 | | |
| **Chromosome Deletion** | G5.365.590.29.530.175 | C23.550.<br>G5.365. | G5.355.<br>G5.365. |
| **Base Pair Mismatch** | G5.365.590.60 | | |
| **Chromosome Aberrations** | G5.365.590.175 | C23.550. | |
| **Aneuploidy** | G5.365.590.175.50 | C23.550. | G5.700. |
| **Monosomy** | G5.365.590.175.50.500 | C23.550. | G5.700. |
| **Trisomy** | G5.365.590.175.50.750 | C23.550. | G5.700. |
| **Chimerism** | G5.365.590.175.125 | | |
| **Chromosomal Instability** | G5.365.590.175.165 | C23.550.<br>G5.370. | C23.550. |
| **Chromosome Fragility** | G5.365.590.175.165.180 | C23.550.<br>G5.370. | C23.550. |
| **Chromosome Breakage** | G5.365.590.175.175 | C21.111.<br>G5.355. | C23.550. |
| **Chromosome Deletion** | G5.365.590.175.177 | C23.550.<br>G5.365. | G5.355.<br>G5.365. |
| **Chromosome Inversion** | G5.365.590.175.190 | C23.550.<br>G5.365. | G5.355. |
| **Isochromosomes** | G5.365.590.175.430 | A11.284.<br>G5.360. | C23.550. |
| **Micronuclei, Chromosome-Defective** | G5.365.590.175.570 | A11.284.<br>C23.550. | A11.284. |
| **Mosaicism** | G5.365.590.175.595 | | |
| **Ring Chromosomes** | G5.365.590.175.760 | A11.284.<br>G5.360. | C23.550. |
| **Sex Chromosome Aberrations** | G5.365.590.175.815 | C23.550. | |
| **XYY Karyotype** | G5.365.590.175.815.970 | C23.550. | |
| **Translocation, Genetic** | G5.365.590.175.870 | C23.550. | G5.355. |
| **Philadelphia Chromosome** | G5.365.590.175.870.680 | A11.284.<br>C23.550.<br>G5.360. | A11.284.<br>G5.360. |
| **Uniparental Disomy** | G5.365.590.175.935 | C23.550. | |
| **Codon, Nonsense** | G5.365.590.195 | D13.444. | G5.360. |
| **DNA Repeat Expansion** | G5.365.590.220 | G2.111.<br>G5.360.<br>G5.360. | G5.355.<br>G5.360. |

## G5 - GENETIC PHENOMENA

| | | | |
|---|---|---|---|
| **Genetic Phenomena** | | | |
| **Genetic Variation** | | | |
| **Mutation** | | | |
| **DNA Repeat Expansion** | | | |
| **Trinucleotide Repeat Expansion** | | | |
| **Trinucleotide Repeat Expansion** | G5.365.590.220.865 | G2.111.<br>G5.355.<br>G5.360.<br>G5.360. | G2.111.<br>G5.360.<br>G5.360. |
| **Frameshift Mutation** | G5.365.590.265 | | |
| **Gene Amplification** | G5.365.590.310 | G5.355. | G5.355. |
| **Gene Duplication** | G5.365.590.320 | G5.355. | |
| **Genomic Instability** | G5.365.590.335 | C23.550. | G5.370 |
| **Microsatellite Instability** | G5.365.590.335.590 | C23.550. | G5.370. |
| **Germ-Line Mutation** | G5.365.590.350 | | |
| **INDEL Mutation** | G5.365.590.500 | G5.355. | |
| **Mutagenesis, Insertional** | G5.365.590.575 | E5.393. | G5.355. |
| **Mutation, Missense** | G5.365.590.650 | | |
| **Point Mutation** | G5.365.590.675 | | |
| **Sequence Deletion** | G5.365.590.762 | G5.355. | |
| **Chromosome Deletion** | G5.365.590.762.180 | C23.550.<br>G5.365. | G5.355.<br>G5.365. |
| **Gene Deletion** | G5.365.590.762.320 | G5.355. | |
| **Sequence Inversion** | G5.365.590.770 | G5.355. | |
| **Chromosome Inversion** | G5.365.590.770.500 | C23.550.<br>G5.365. | G5.355. |
| **Suppression, Genetic** | G5.365.590.835 | G5.355. | |
| **Polymorphism, Genetic** | G5.365.795 | | |
| **Genomic Structural Variation** | G5.365.795.297 | | |
| **DNA Copy Number Variations** | G5.365.795.297.500 | | |
| **Polymorphism, Restriction Fragment Length** | G5.365.795.595 | | |
| **Polymorphism, Single Nucleotide** | G5.365.795.598 | | |
| **Polymorphism, Single-Stranded Conformational** | G5.365.795.600 | | |
| **Genomic Instability** | G5.370 | C23.550. | G5.365. |
| **Chromosomal Instability** | G5.370.180 | C23.550.<br>G5.365. | C23.550. |
| **Chromosome Fragility** | G5.370.180.180 | C23.550.<br>G5.365. | C23.550. |
| **Microsatellite Instability** | G5.370.590 | C23.550. | G5.365. |
| **Genotype** | G5.380 | | |
| **Gene Dosage** | G5.380.350 | | |
| **Genetic Predisposition to Disease** | G5.380.355 | C23.550. | |
| **Haplotypes** | G5.380.360 | | |
| **Heterozygote** | G5.380.383 | | |
| **Homozygote** | G5.380.554 | | |
| **Hybrid Vigor** | G5.400 | | |
| **Inheritance Patterns** | G5.420 | | |
| **Anticipation, Genetic** | G5.420.40 | C23.550. | |
| **Extrachromosomal Inheritance** | G5.420.275 | | |
| **Genes, Mitochondrial** | G5.420.275.500 | G5.360. | |
| **Genes, Dominant** | G5.420.320 | G5.360. | |
| **Genes, Recessive** | G5.420.325 | G5.360. | |
| **Genes, X-Linked** | G5.420.457 | G5.360. | |
| **Genes, Y-Linked** | G5.420.523 | G5.360. | |
| **Multifactorial Inheritance** | G5.420.590 | | |
| **Quantitative Trait, Heritable** | G5.420.720 | | |
| **Linkage (Genetics)** | G5.540 | | |
| **Linkage Disequilibrium** | G5.540.500 | | |
| **Lod Score** | G5.540.562 | | |
| **Phenotype** | G5.695 | | |
| **Genetic Markers** | G5.695.450 | D23.101. | |
| **Penetrance** | G5.695.650 | | |
| **Phylogeny** | G5.697 | G16.100. | L1.100. |

**Genetic Phenomena**
**Ploidies**

| | | | |
|---|---|---|---|
| **Ploidies** | G5.700 | | |
| **Aneuploidy** | G5.700.131 | C23.550. | G5.365. |
| **Monosomy** | G5.700.131.500 | C23.550. | G5.365. |
| **Trisomy** | G5.700.131.750 | C23.550. | G5.365. |
| **Diploidy** | G5.700.264 | | |
| **Haploidy** | G5.700.456 | | |
| **Polyploidy** | G5.700.740 | | |
| **Sequence Homology** | G5.810 | G2.111. | |
| **Sequence Homology, Amino Acid** | G5.810.200 | G2.111. | |
| **Sequence Homology, Nucleic Acid** | G5.810.550 | G2.111. | |
| **Synteny** | G5.810.550.830 | G2.111. | |
| **Sex Ratio** | G5.815 | I1.240.<br>N6.850. | N1.224. |
| **Structural Homology, Protein** | G5.820 | G2.111. | G2.111. |