**GenBank**

**RRID:** SCR_002760  
**Type:** Tool

**Proper Citation**

GenBank (RRID:SCR_002760)

**Resource Information**


**Description:** NIH genetic sequence database that provides annotated collection of all publicly available DNA sequences for almost 280,000 formally described species (Jan 2014). These sequences are obtained primarily through submissions from individual laboratories and batch submissions from large-scale sequencing projects, including whole-genome shotgun (WGS) and environmental sampling projects. Most submissions are made using web-based BankIt or standalone Sequin programs, and GenBank staff assigns accession numbers upon data receipt. It is part of International Nucleotide Sequence Database Collaboration and daily data exchange with European Nucleotide Archive (ENA) and DNA Data Bank of Japan (DDBJ) ensures worldwide coverage. GenBank is accessible through NCBI Entrez retrieval system, which integrates data from major DNA and protein sequence databases along with taxonomy, genome, mapping, protein structure and domain information, and biomedical journal literature via PubMed. BLAST provides sequence similarity searches of GenBank and other sequence databases. Complete bimonthly releases and daily updates of GenBank database are available by FTP.

**Resource Name:** GenBank

**Proper Citation:** GenBank (RRID:SCR_002760)

**Resource Type:** Resource, service resource, data or information resource, data repository, storage service resource, database

**Keywords:** genetic sequence, dna sequence, human genetics, human genome, nucleotide sequence, nucleotide, dna, dna data bank, gene mapping, genetics, gold standard

**Resource ID:** SCR_002760
**Parent Organization:** NCBI

**Funding Agency:** NLM

**Related resources:** High Throughput Genomic Sequences Division, DNA DataBank of Japan (DDBJ), HS3D - Homo Sapiens Splice Sites Dataset, Influenza Virus Resource, TPA, Anopheles gambiae (African malaria mosquito) genome view, NCBI EST, NCBI BioSample, NCBI Nucleotide, SpliceDB, MaizeGDB, NCBI Assembly Archive Viewer, DNA DataBank of Japan (DDBJ), European Molecular Biology Laboratory, INSDC, NCBI Protein, TrED, Xenopus Gene Collection, Mammalian Gene Collection, Zebrafish Gene Collection, INSDC

**References:** [PMID:24217914], [PMID:23193287], [PMID:21071399]

**Availability:** Free, Freely available

**Website Status:** Last checked up

**Alternate IDs:** nif-0000-02873, OMICS_01650

**Abbreviations:** GB

**Mentions Count:** 21488

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**Ratings and Alerts**

No rating or validation information has been found for GenBank.

No alerts have been found for GenBank.

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**Data and Source Information**

**Source:** SciCrunch Registry

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**Usage and Citation Metrics**

We found 21488 mentions in open access literature.

**Listed below are recent publications.** The full list is available at dkNET.


Kadota M, et al. (2020) Multifaceted Hi-C benchmarking: what makes a difference in
chromosome-scale genome scaffolding? GigaScience, 9(1).


Aschenbrenner S, et al. (2020) Coupling Cas9 to artificial inhibitory domains enhances CRISPR-Cas9 target specificity. Science advances, 6(6), eaay0187.


Cullingham CI, et al. (2020) Linking genotype to phenotype to identify genetic variation relating to host susceptibility in the mountain pine beetle system. Evolutionary applications, 13(1), 48-61.


Niu W, et al. (2020) Characterization of the complete mitochondrial genome sequences of
three Merulinidae corals and novel insights into the phylogenetics. PeerJ, 8, e8455.


Barroso CX, et al. (2020) Molecular evidences confirm the taxonomic separation of two sympatric congeneric species (Mollusca, Gastropoda, Neritidae,). ZooKeys, 904, 117-130.