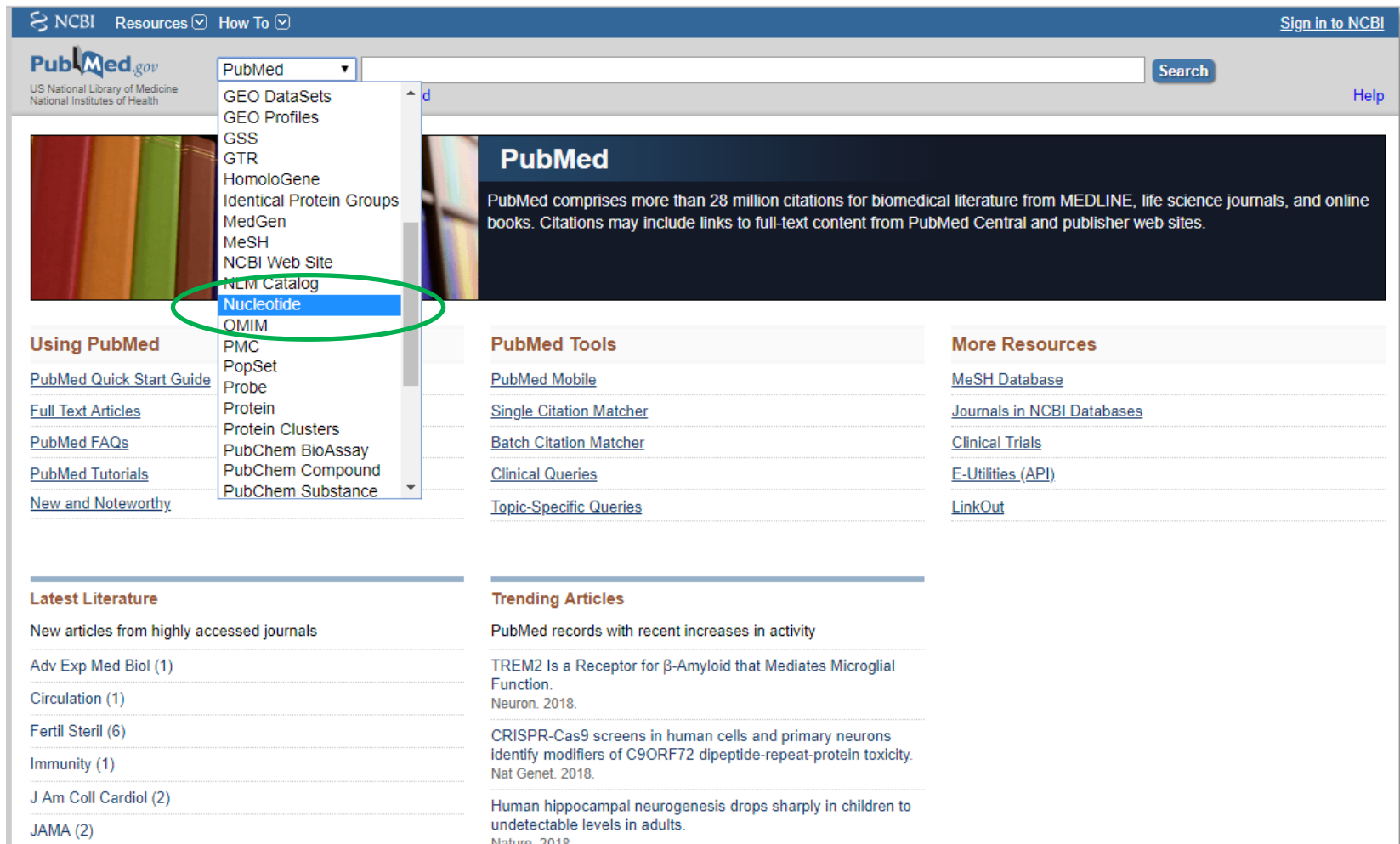


Base de Données de Séquences Nucléotidiques

Par Joel sandé

<https://www.ncbi.nlm.nih.gov/pubmed>



The screenshot shows the NCBI PubMed website. At the top, there is a navigation bar with "NCBI", "Resources", and "How To" links, along with a "Sign in to NCBI" link. Below the navigation bar, the "PubMed.gov" logo is displayed, followed by the text "US National Library of Medicine National Institutes of Health". A search bar is present with a "Search" button. A dropdown menu is open, showing a list of databases: "PubMed", "GEO DataSets", "GEO Profiles", "GSS", "GTR", "HomoloGene", "Identical Protein Groups", "MedGen", "MeSH", "NCBI Web Site", "NLM Catalog", "Nucleotide" (highlighted with a green circle), "OMIM", "PMC", "PopSet", "Probe", "Protein", "Protein Clusters", "PubChem BioAssay", "PubChem Compound", and "PubChem Substance".

Using PubMed

- [PubMed Quick Start Guide](#)
- [Full Text Articles](#)
- [PubMed FAQs](#)
- [PubMed Tutorials](#)
- [New and Noteworthy](#)

PubMed Tools

- [PubMed Mobile](#)
- [Single Citation Matcher](#)
- [Batch Citation Matcher](#)
- [Clinical Queries](#)
- [Topic-Specific Queries](#)

More Resources

- [MeSH Database](#)
- [Journals in NCBI Databases](#)
- [Clinical Trials](#)
- [E-Utilities \(API\)](#)
- [LinkOut](#)

Latest Literature

New articles from highly accessed journals

- [Adv Exp Med Biol \(1\)](#)
- [Circulation \(1\)](#)
- [Fertil Steril \(6\)](#)
- [Immunity \(1\)](#)
- [J Am Coll Cardiol \(2\)](#)
- [JAMA \(2\)](#)

Trending Articles

PubMed records with recent increases in activity

- [TREM2 Is a Receptor for \$\beta\$ -Amyloid that Mediates Microglial Function. Neuron. 2018.](#)
- [CRISPR-Cas9 screens in human cells and primary neurons identify modifiers of C9ORF72 dipeptide-repeat-protein toxicity. Nat Genet. 2018.](#)
- [Human hippocampal neurogenesis drops sharply in children to undetectable levels in adults. Nature 2018](#)

Entrez le nom du gène X01714

NCBI Resources How To Sign in to NCBI

Nucleotide Nucleotide Advanced Search Help

Nucleotide

The Nucleotide database is a collection of sequences from several sources, including GenBank, RefSeq, TPA and PDB. Genome, gene and transcript sequence data provide the foundation for biomedical research and discovery.

Using Nucleotide

- [Quick Start Guide](#)
- [FAQ](#)
- [Help](#)
- [GenBank FTP](#)
- [RefSeq FTP](#)

Nucleotide Tools

- [Submit to GenBank](#)
- [LinkOut](#)
- [E-Utilities](#)
- [BLAST](#)
- [Batch Entrez](#)

Other Resources

- [GenBank Home](#)
- [RefSeq Home](#)
- [Gene Home](#)
- [SRA Home](#)
- [INSDC](#)

You are here: NCBI > DNA & RNA > Nucleotide Database Support Center

GETTING STARTED <ul style="list-style-type: none">NCBI EducationNCBI Help ManualNCBI HandbookTraining & TutorialsSubmit Data	RESOURCES <ul style="list-style-type: none">Chemicals & BioassaysData & SoftwareDNA & RNADomains & StructuresGenes & Expression	POPULAR <ul style="list-style-type: none">PubMedBookshelfPubMed CentralPubMed HealthBLAST	FEATURED <ul style="list-style-type: none">Genetic Testing RegistryPubMed HealthGenBankReference SequencesGene Expression Omnibus	NCBI INFORMATION <ul style="list-style-type: none">About NCBIResearch at NCBINCBI News & BlogNCBI FTP SiteNCBI on Facebook
---	--	--	--	---

Vous verrez les informations sur le gène apparaissant par défaut en format Genbank.

Vous avez toutes les informations sur le gène.

E. coli dut gene for dUTPase (EC 3.6.1.23) (deoxyuridine 5'-triphosphate nucleotidohydrolase)

GenBank: X01714.1

[GenBank](#) [Graphics](#)

```
>X01714.1 E. coli dut gene for dUTPase (EC 3.6.1.23) (deoxyuridine 5'-triphosphate nucleotidohydrolase)
CAGAGAAATCAAAAGCAGGCGACGAGGCGATGAATTAACAATAAAAGTGTAAAGACCCGATAT
CGTCGAGGCGGTTCGCGCACTAAAGACCATGACCCCTACGTTGGAATTTGCCGCGCAAAACAAAT
GTGGAGAAATACGCCCGGCAAAAACGTATCCGTA AAAACCTTGAATCTGATCTGCGCGAAGCATGTTCC
AGCCCACTCAAGGATTTAAACAGCGACACACGATTAACACCTTTCTGCGAGGAGGAGATAAAGTCTT
ACCGCTGAGCGCAAGAGCTCTTGGCAATTTACTGAGCGAGATGAGCGGTTATGATGAGAAA
AATCGAGCTTAAGATCTTGGACCGCGCGTTGGGAGGAAATTCGCGCTCGGACTTATGCGACCTCTGCG
TCTGCGGACTTGAACCTGCGTCTGCTCAACGAGCGCGTGAAGCTGCGCTCGGCGTGAACCTACGCTGG
TTCCGACCGGCGTGGCGATTCATATTGCGGATCTTCACTGGCGGCAATGATGCTGCGCGCTCCGAT
GGGACATAAGCACGATCGTCTTGGTAACTTGGTAGGATGATGATCTGACTTCAAGGCGCAGTTG
ATGATTCGCTGTGGAACTGCTGGTCAGGACAGCTTCAACCTCAACCTGGCGAAGCATCGCCAGATGA
TTTTTTTCCGTAAGTACAGCGTGAATTTAATCTGTTGGAAGATTTTCGAGCGCACCGACCGCGTGAAG
CGCTTTGGTCACTCTGGTGGTCAATACACATACGATCCGATTAAGCTCAATACATAGCGCAAGAT
TTCGTTTGGCGTCAATGCGTGGGTTGCGGCTGCGCAAGTCTTATTTCAAGGATTTTGAACATGGCA
GAAAAACAACTGCGAAAGGACCGTGGCGAGAAATCTCACTCTGCGCGTGAATGCTGAGATCA
CGATGGAAGCCAACTATCACGAGCGCAAACTGGCGGCTCTGTCGCGGCTTCCGAAGCGGCACTGTA
TCGCGCACTTCCCGAGTAAAGCCGATGTTGATAGCTGATGATGATTTATGGAAGATAGCTGATTA
CGCATCAACTGATCTGAAAGATGAGAAAGACACACAGCGCGCTGCTGATTTGTTGCTGCTTC
TCGTTTGGTGAAGCTAATCTTGGCTTGAACCGATCTGATCTGATCTGATCTGATCTGATCTGATCT
TCGCTGCAAGGCGGCTCAACAGCTGTTGAGCGATTTGAGCGCGAGCTGCGCGAGATTTGCTGAA
AAGAGATGCTGAGGCTGAGGCTTACACACGATGAAACCTGCTGCGCAAGCGATCTGCGCTCT
GTAAGATGCTGCTGATGTTTGTCCGCGAGGAAATTAATACGCGCGGAGGATTTGAGCGCGG
CTGGCGCTAATTCGCGGCGATTTGAGTAAATGAGCGCGGAGATTTTATCGCGGCGATTTCTTAA
ACGCCAACTCTTCCGATAGGCTTAACCGCGCGAGATTTCCGCAATTTCCGCGCTCTCTTCCAGG
```

NCBI Resources How To

Nucleotide Nucleotide Advanced

GenBank

E. coli dut gene for dUTPase (EC 3.6.1.23) (deoxyuridine 5'-triphosphate nucleotidohydrolase)

GenBank: X01714.1

[FASTA](#) [Graphics](#)

Go to: ☒

LOCUS X01714 1609 bp DNA linear BCT 23-OCT-2008

DEFINITION E. coli dut gene for dUTPase (EC 3.6.1.23) (deoxyuridine 5'-triphosphate nucleotidohydrolase).

ACCESSION X01714

VERSION X01714.1

KEYWORDS dUTPase; unidentified reading frame.

SOURCE Escherichia coli

ORGANISM [Escherichia coli](#)

Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriaceae; Escherichia.

REFERENCE 1 (bases 1 to 1609)

AUTHORS Lundberg,L.G., Thoresson,H.O., Karlstrom,O.H. and Nyman,P.O.

TITLE Nucleotide sequence of the structural gene for dUTPase of Escherichia coli K-12

JOURNAL EMBO J. 2 (6), 967-971 (1983)

PUBMED [6139280](#)

COMMENT Data kindly reviewed (25-NOV-1985) by L. Lundberg

FEATURES

source 1..1609

/organism="Escherichia coli"

/mol_type="genomic DNA"

/db_xref="taxon:562"

286..291

/regulatory_class="promoter"

/note="-35 region"

regulatory 310..316

regulatory

Vous avez accès à sa séquence complète en cliquant sur FASTA.

Où carrément sauver le document en format FASTA en cliquant en haut à droite sur Send to FASTA.

Genome complet d'un organisme

<https://www.ncbi.nlm.nih.gov/>

The screenshot shows the NCBI PubMed homepage. At the top, there's a navigation bar with 'NCBI', 'Resources', and 'How To' links, along with a 'Sign in to NCBI' link. Below this is the 'PubMed.gov' logo and a search bar. The 'Genome' dropdown menu is open, showing a list of categories: 'Recent', 'Genome', 'PubMed', 'All Databases', 'Nucleotide', 'All', 'All Databases', 'Assembly', 'Biocollections', 'BioProject', 'BioSample', 'BioSystems', 'Books', 'ClinVar', 'Clone', 'Conserved Domains', 'dbGaP', 'dbVar', 'EST', and 'Gene'. The 'Genome' category is highlighted. Below the search bar, there's a 'PubMed' banner with text about the database's size and content. To the left, there's a 'Using PubMed' section with links to 'PubMed Quick Start Guide', 'Full Text Articles', 'PubMed FAQs', 'PubMed Tutorials', and 'New and Noteworthy'. To the right, there's a 'PubMed Tools' section with links to 'PubMed Mobile', 'Single Citation Matcher', 'Batch Citation Matcher', 'Clinical Queries', and 'Topic-Specific Queries'. Further right, there's a 'More Resources' section with links to 'MeSH Database', 'Journals in NCBI Databases', 'Clinical Trials', 'E-Utilities (API)', and 'LinkOut'. At the bottom, there's a 'Latest Literature' section with a list of articles and a 'Trending Articles' section with a list of articles.

NCBI Resources How To Sign in to NCBI

PubMed.gov
US National Library of Medicine
National Institutes of Health

Genome
Recent
Genome
PubMed
All Databases
Nucleotide
All
All Databases
Assembly
Biocollections
BioProject
BioSample
BioSystems
Books
ClinVar
Clone
Conserved Domains
dbGaP
dbVar
EST
Gene

Search Help

PubMed
PubMed comprises more than 28 million citations for biomedical literature from MEDLINE, life science journals, and online books. Citations may include links to full-text content from PubMed Central and publisher web sites.

Using PubMed
[PubMed Quick Start Guide](#)
[Full Text Articles](#)
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[PubMed Tutorials](#)
[New and Noteworthy](#)

PubMed Tools
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More Resources
[MeSH Database](#)
[Journals in NCBI Databases](#)
[Clinical Trials](#)
[E-Utilities \(API\)](#)
[LinkOut](#)

Latest Literature
New articles from highly accessed journals
Adv Exp Med Biol (1)
Circulation (1)
Fertil Steril (6)
Immunity (1)
J Am Coll Cardiol (2)
JAMA (2)
Kidney Int (2)

Trending Articles
PubMed records with recent increases in activity
TREM2 Is a Receptor for β -Amyloid that Mediates Microglial Function. Neuron. 2018.
CRISPR-Cas9 screens in human cells and primary neurons identify modifiers of C9ORF72 dipeptide-repeat-protein toxicity. Nat Genet. 2018.
Human hippocampal neurogenesis drops sharply in children to undetectable levels in adults. Nature. 2018.
How much protein can the body use in a single meal for muscle-
building? Implications for diet, protein distribution

On va sur genome : Il y a plusieurs façons de faire cela. Vous pouvez le faire Via ressources

Et ensuite, clikez sur Search en haut à droite

NCBI Resources How To Sign in to NCBI

Genome Genome Limits Advanced Search Help

Genome

This resource organizes information on genomes including sequences, maps, chromosomes, assemblies, and annotations.

Using Genome

[Help](#)

[Browse by Organism](#) **UPDATED**

[Download / FTP](#)

[Download FAQ](#)

[Submit a genome](#)

Custom resources

[Human Genome](#)

[Microbes](#)

[Organelles](#)

[Viruses](#)

Other Resources

[Assembly](#)

[BioProject](#)

[BioSample](#)

[Map Viewer](#)

[Genome Data Viewer](#) **NEW**

Genome Tools

[BLAST the Human Genome](#)

[Microbial Nucleotide BLAST](#)

Genome Annotation and Analysis

[Eukaryotic Genome Annotation](#)

[Prokaryotic Genome Annotation](#)

[PASC \(Pairwise Sequence Comparison\)](#)

External Resources

[GOLD - Genomes Online Database](#)

[Bacteria Genomes at Sanger](#)

[Ensembl](#)

Vous pouvez faire la recherche
par organisme

Ou aller directement
sur un organisme désiré
selon l'espèce désirée

Genome Complet de l'humain

Cliquez sur human genome et clikez sur l'un des chromosomes.

En passant, voyez la différence de taille entre le chromosome X de la femme et le chromosome Y de l'homme.

Distes-donc au hommes de respecter la femmes.



Allons chercher le genome d'un Oiseau

- Browse by organism : Voyez-vous ? Il y a plein de bactéries et virus répertoriés dans cette base de données.
- Il est plus facile de trouver le génome d'un micro-organisme que de trouver le genome d'un mammifère.
- On peut pour chaque organisme, la taille du génome, le nombre de chromosomes, le nombre d'organelles, de plasmides, ...
- Pour trouver le génome d'un Oiseau:
 - Sélectionnez Eucaryote
 - Utilisez l'option Filter
 - Cochez et décochez les options qui vous conviennent. : la page se mettra automatiquement à jours de vos sélections.

Allons chercher le genome d'un Oiseau

[Overview \(34896\)](#); [Eukaryotes \(5263\)](#); [Prokaryotes \(133148\)](#); [Viruses \(13989\)](#); [Plasmids \(11884\)](#); [Organelles \(11493\)](#)

Filters 3 x

Group

☐ Animals (12)

Subgroup

☐ Amphibians (2) ☐ Apicomplexans (41) ☐ Ascomycetes (416) ☐ Basidiomycetes (12) ☒ Birds (12) ☐ Fishes (25) ☐ Flatworms (1) ☐ Green Algae (2) ☐ Insects (24) ☐ Kinetoplasts (20) [+ more](#)

Assembly level

☒ Chromosome (12) ☐ Contig (5) ☐ Scaffold (97)

Partial

☐ All (12) ☐ Exclude partial (12)

Anomalous

☐ All (12) ☒ Exclude anomalous (12)

Host

RefSeq category

☐ representative (8)

Organism Name

filter by Scientific Name

Download

Choose Columns		Page 1 of 1 50 ▾												
#	Organism Name	Organism Groups	Strain	Bio Sample	BioProject	Assembly	Level	Size(Mb)	GC%	Replicons		WGS	Scaffolds	CDS
1	Anas platyrhynchos platyrhynchos	Eukaryota;Animals;Birds		SAMN07569716	PRJNA403935	GCA_002743455.1	●	1 136,42	41.71	chromosome 1: CM008538.1 chromosome 2: CM008539.1 chromosome 3: CM008540.1 Show all 29 replicons		PEDO01	21,240	
2	Columba livia	Eukaryota;Animals;Birds		SAMN02981415	PRJNA347893	GCA_001887795.1	●	1 018,02	41.23	chromosome 1: CM007525.1 chromosome 2: CM007526.1 chromosome 3: CM007527.1 Show all 29 replicons		MLQZ01	91	
3	Coturnix japonica	Eukaryota;Animals;Birds	7356	SAMN03989050	PRJNA314147	GCA_001577835.1	●	927.66	41.37	chromosome 1: NC_029516.1/CM003781.1 chromosome 2: NC_029517.1/CM003782.1 chromosome 3: NC_029518.1/CM003783.1 Show all 33 replicons		LSZS01	2,531	39 088
4	Falco peregrinus	Eukaryota;Animals;Birds		SAMN02981425	PRJNA347893	GCA_001887755.1	●	1 112,06	41.60	chromosome 1: CM007505.1 chromosome 2: CM007506.1 chromosome 3: CM007507.1 Show all 19 replicons		MLQY01	72	

Genome

Genome

Limits Advanced

Anser brachyrhynchus

Download sequences in FASTA format for [genome](#)
 Download genome annotation in GFF, [GenBank](#) format
 BLAST against Anser brachyrhynchus [genome](#)

Display Settings: ☐ Overview

Send to: ☐

[Organism Overview](#) ; [Genome Assembly and Annotation report](#)

Anser brachyrhynchus (pink-footed goose)

Whole genome sequencing of pink-footed goose

Lineage: [Eukaryota](#)[2762]; [Metazoa](#)[898]; [Chordata](#)[388]; [Craniata](#)[380]; [Vertebrata](#)[380]; [Euteleostomi](#)[374]; [Archelosauria](#)[107]; [Archosauria](#)[100]; [Dinosauria](#)[96]; [Saurischia](#)[96]; [Theropoda](#)[96]; [Coelurosauria](#)[96]; [Aves](#)[96]; [Neognathae](#)[93]; [Galloanserae](#)[13]; [Anseriformes](#)[4]; [Anatidae](#)[4]; [Anserinae](#)[2]; [Anser](#)[2]; [Anser brachyrhynchus](#)[1]

Summary

Assembly level: Scaffold
 Assembly: GCA_002592135.1 ASM259213v1 scaffolds: 2,723 contigs: 28,533 N50: 97,462 L50: 3,034
 BioProjects: PRJNA404647
 Whole Genome Shotgun (WGS): INSDC: [NXHY00000000.1](#)
 Statistics: total length (Mb): 1116.99
 GC%: 41.1

Publications

1. First de novo whole genome sequencing and assembly of the pink-footed goose. Pujolar JM, et al. Genomics 2018 Mar

Genome Assembly Annotation

Loc	Type	Name	RefSeq	INSDC	Size (Mb)	GC%
		master WGS	-	NXHY00000000.1	1,116.99	0.0

**Vous pouvez
googler son
nom pour voir à
quoi il
ressemble.**

Anser brachyrhynchus ou pink-footed goose



Faisons la même expérience pour le Virus de la grippe H1N1



U.S. National Library of Medicine

NCBI

National Center for Biotechnology Information

[Genome](#) > **Genome Information by Organism**

h1n1



Search

[Overview \(0\)](#); [Eukaryotes \(0\)](#); [Prokaryotes \(0\)](#); **[Viruses \(2\)](#)**; [Plasmids \(0\)](#); [Organelles \(0\)](#)

FEEDBACK

Choose Columns										Page 1 of 1		50
#	Organism Name	Organism Groups	BioSample	BioProject	Assembly	Level	Size(Mb)	GC%	Replicons			
1	Influenza A virus (A/California/07/2009(H1N1))	Viruses;ssRNA viruses,Orthomyxoviridae		PRJNA37813	GCA_001343785.1	●	0.013158	43.66	1: NC_026438.1/FJ984387.1 2: NC_026435.1/GQ323558.1 3: NC_026437.1/FJ969539.1 Show all 8 replicons			
2	Influenza A virus (A/Puerto Rico/8/1934(H1N1))	Viruses;ssRNA viruses,Orthomyxoviridae		PRJNA15521	GCA_000865725.1	●	0.013588	43.38	segment 1: NC_002023.1/V00603.1 segment 2: NC_002021.1/J02151.1 segment 3: NC_002022.1/V01106.1 Show all 8 replicons			
Choose Columns										Page 1 of 1		50

Il y en a 2 répertoriés dans la base de donnée NCBI

https://www.ncbi.nlm.nih.gov/genome/10290?genome_assembly_id=306186

Influenza A virus (A/California/07/2009(H1N1))

Download sequences in FASTA format for [genome](#), [protein](#)

Download genome annotation in [GFF](#), [GenBank](#) or [tabular](#) format

All 7 reference or representative genomes for species:

Browse the [list](#)

Display Settings: ▾ Overview

Send to: ▾

[Organism Overview](#) ; [Genome Assembly and Annotation report](#)

Influenza A virus (A/California/07/2009(H1N1))

Lineage: [Viruses\[9563\]](#); [ssRNA viruses\[2030\]](#); [ssRNA negative-strand viruses\[523\]](#); [Orthomyxoviridae\[10\]](#); [Alphainfluenzavirus\[1\]](#); [Influenza A virus\[1\]](#); [H1N1 subtype\[1\]](#); [Influenza A virus \(A/California/07/2009\(H1N1\)\)\[1\]](#)

Summary

Submitter: 2009 H1N1 Flu Outbreak Sequencing Centers

Assembly level: Complete Genome

Human Pathogen

Assembly: [GCA_001343785.1](#) [ViralMultiSegProj274766](#) [scaffolds: 8](#) [contigs: 8](#) [N50: 2,151](#) [L50: 3](#)

BioProjects: [PRJNA274766](#), [PRJNA37813](#)

Statistics: total length (Mb): 0.013158

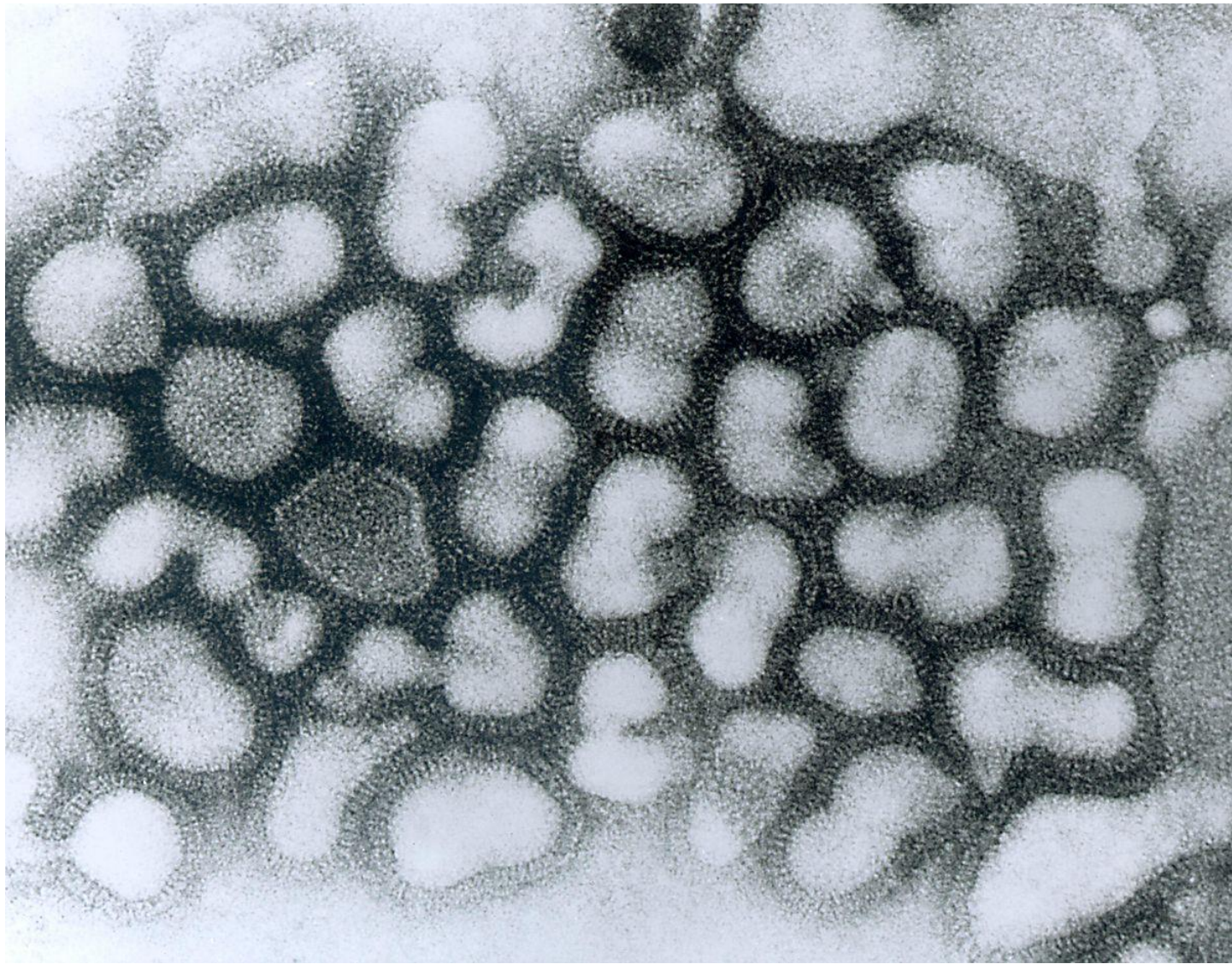
protein count: 11

GC%: 43.6638

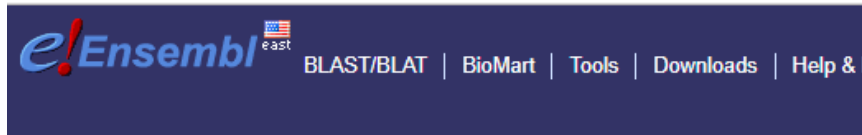
Publications

1. New genetic variants of influenza A(H1N1)pdm09 detected in Cuba during 2011-2013. Arencibia A, et al. Infect Genet Evol 2015 Jun
2. Host Adaptation and the Alteration of Viral Properties of the First Influenza A/H1N1pdm09 Virus Isolated in Japan. Aina A, et al. PLoS One 2015
3. Molecular genetic analysis of the Influenza A(H1N1)pdm09 virus from lethal and recovered cases in Russia from 2009 to 2014: Deletions in the nucleoprotein. Yatsyshina S, et al. Infect Genet Evol 2015 Aug

[More](#)



Ensembl Genome browser



Search:

e.g. [BRCA2](#) or [rat 5:62797383-63](#)

Browse a Genome

Ensembl is a genome browser for vertebrate genomes that supports research in comparative genomics, evolution, sequence variation and transcriptional regulation. Ensembl annotate genes, computes multiple alignments, predicts regulatory function and collects disease data. Ensembl tools include BLAST, BLAT, BioMart and the Variant Effect Predictor (VEP) for all supported species.

Favourite genomes



Human

GRCh38.p10



Mouse

GRCh38.p5



Zebrafish

GRCz10

[Edit favourites](#)

All genomes

-- Select a species --

[View full list of all Ensembl species](#)

Other species are available in [Ensembl Pre!](#) and [EnsemblGenomes](#)

Bien qu'il y a une panoplie de genomes, nous allons nous intéresser au genome Humain.

Genome Humain

http://useast.ensembl.org/Homo_sapiens/Info/Annotation

On peut voir que le génome humain est doté de plus de 3 000 000 000 de paires de bases, avec 20 000 gènes codant et 22 000 gènes non codant

Summary

Assembly	GRCh38.p10 (Genome Reference Consortium Human Build 38), INSDC Assembly GCA_000001405.26, Dec 2013
Base Pairs	3,554,996,726
Golden Path Length	3,096,649,726
Annotation provider	Ensembl
Annotation method	Full genebuild
Genebuild started	Jan 2014
Genebuild released	Jul 2014
Genebuild last updated/patched	Jun 2017
Database version	91.38
Gencode version	GENCODE 27

Gene counts (Primary assembly)

Coding genes	20,338 (incl 562 readthrough)
Non coding genes	22,521
Small non coding genes	5,363
Long non coding genes	14,720 (incl 238 readthrough)
Misc non coding genes	2,222
Pseudogenes	14,638 (incl 6 readthrough)
Gene transcripts	200,310

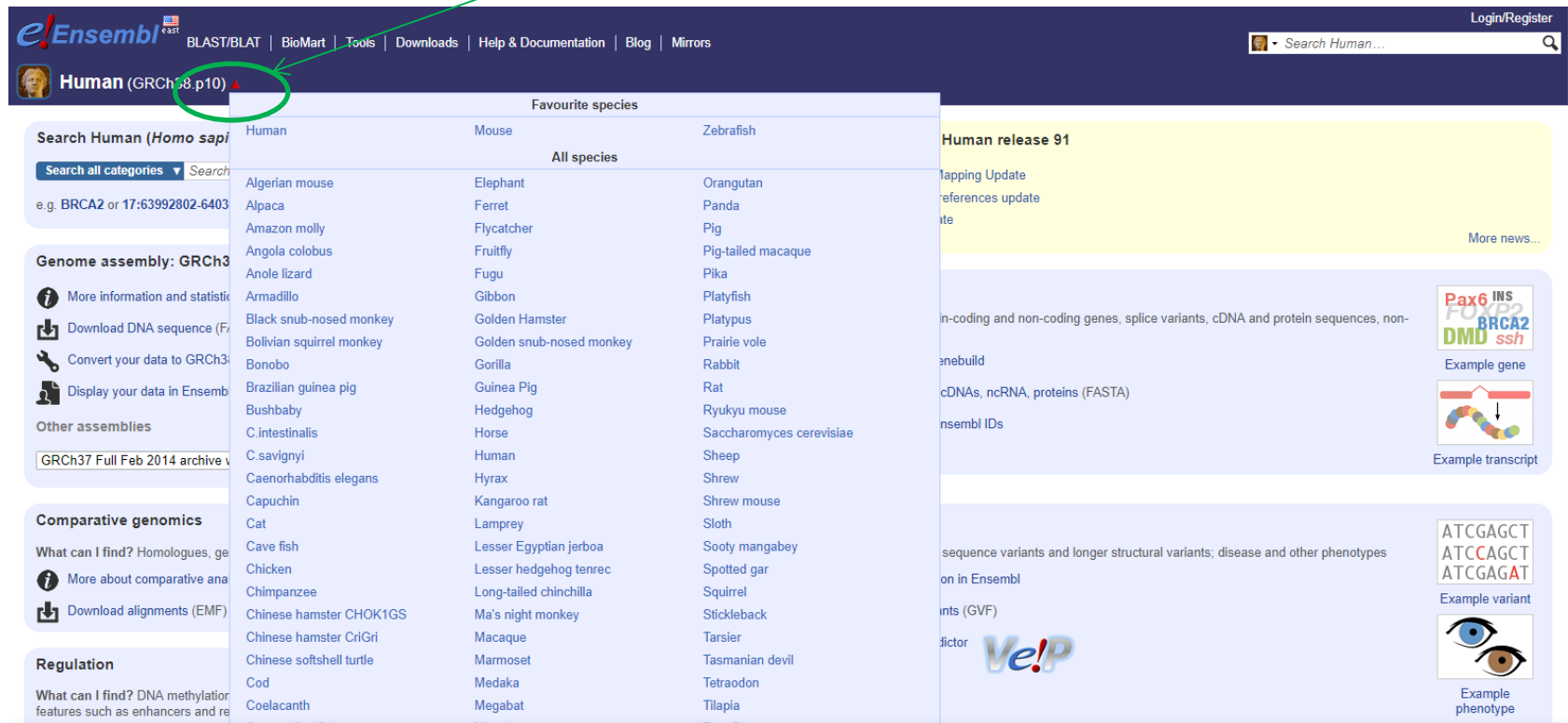
Gene counts (Alternative sequence)

Coding genes	2,750 (incl 37 readthrough)
Non coding genes	1,288
Small non coding genes	242
Long non coding genes	877 (incl 33 readthrough)
Misc non coding genes	169
Pseudogenes	1,600

Other

Genome Humain

Les autres génomes sont accessibles en tout temps.




The screenshot displays the Ensembl genome browser interface. The top navigation bar includes links for BLAST/BLAT, BioMart, Tools, Downloads, Help & Documentation, Blog, and Mirrors. The main content area is divided into several sections:


- Search Human (Homo sapiens):** Includes a search bar and a dropdown menu for "Search all categories". Below this, there are links for "Genome assembly: GRCh38" and "Other assemblies" (GRCh37 Full Feb 2014 archive).
- Comparative genomics:** Includes a section for "What can I find? Homologues, genes, and proteins" and a link for "Download alignments (EMF)".
- Regulation:** Includes a section for "What can I find? DNA methylation features such as enhancers and repressors".
- Favourite species:** A table listing various species, with "Human" selected. The table is organized into columns for "Human", "Mouse", and "Zebrafish".
- Human release 91:** A section providing information about the current release, including "Mapping Update", "References update", and "More news...".
- Example gene:** A section showing an example of a gene, "Pax6", with its structure and sequence. It includes a diagram of the gene structure and a sequence alignment.
- Example transcript:** A section showing an example of a transcript, "Pax6", with its structure and sequence. It includes a diagram of the transcript structure and a sequence alignment.

The "Favourite species" table lists the following species:

Human	Mouse	Zebrafish
Algerian mouse	Elephant	Orangutan
Alpaca	Ferret	Panda
Amazon molly	Flycatcher	Pig
Angola colobus	Fruitfly	Pig-tailed macaque
Anole lizard	Fugu	Pika
Armadillo	Gibbon	Platyfish
Black snub-nosed monkey	Golden Hamster	Platypus
Bolivian squirrel monkey	Golden snub-nosed monkey	Prairie vole
Bonobo	Gorilla	Rabbit
Brazilian guinea pig	Guinea Pig	Rat
Bushbaby	Hedgehog	Ryukyu mouse
C.intestinalis	Horse	Saccharomyces cerevisiae
C.savignyi	Human	Sheep
Caenorhabditis elegans	Hyrax	Shrew
Capuchin	Kangaroo rat	Shrew mouse
Cat	Lamprey	Sloth
Cave fish	Lesser Egyptian jerboa	Sooty mangabey
Chicken	Lesser hedgehog tenrec	Spotted gar
Chimpanzee	Long-tailed chinchilla	Squirrel
Chinese hamster CHOK1GS	Ma's night monkey	Stickleback
Chinese hamster CriGri	Macaque	Tarsier
Chinese softshell turtle	Marmoset	Tasmanian devil
Cod	Medaka	Tetraodon
Coelacanth	Megabat	Tilapia

Genome Humain chromosome 15

 [BLAST/BLAT](#) | [BioMart](#) | [Tools](#) | [Downloads](#) | [Help & Documentation](#) | [Blog](#) | [Mirrors](#)

 **Human** (GRCh38.p10) ▼

Search Human (*Homo sapiens*)

Search all categories ▼

chromosome 15

- Search for 'chromosome'
- Search for 'chromosome1'
- Search for 'chromosome8'
- Search for 'chromosomeregion'
- Search for 'chromosomes'
- Search for 'chromosomes1'
- Search for 'chromosome14'
- Search for 'chromosome15'
- Search for 'chromosome21'
- Search for 'chromosome22'

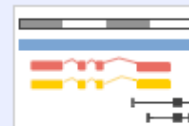
Direct Links

- [Chromosome_11p15.5-Related_Russell-Silver_Syndrome](#) *Human Phenotype*
- [CHROMOSOME_15q13.3_DELETION_SYNDROME](#) *Human Phenotype*
- [Chromosome_17p13.1_deletion_syndrome](#) *Human Phenotype*

Chercher les informations sur un chromosome



[View karyotype](#)



[Example region](#)

Human genome : Chromosome 15



Genome Humain : chromosome 15

Plus bas, vous verrez que le chromosome est doté de 100 000 000 de paires de bases.

BioMart

- L'outil Biomart a été mis au point pour répondre à des questions : Data mining.

Data set : Human gene.

Filters : pas mal de choses à filtrer

...

Voici de très bon tutoriels sur BioMart

<https://www.youtube.com/watch?v=QvGT2G0-hYA>

Usage de Perl

Pour ceux qui veulent rouler du code Perl, voici un lien qui vous sera super interessant.

http://useast.ensembl.org/info/docs/api/variation/variation_tutorial.html#structural